



PAOC 23/24 Interim Measures Work Plan Haulaway Building – Part I

**COMPANY VEHICLE OPERATIONS
YPSILANTI, MICHIGAN
RCRA CA U.S. EPA ID MID005356795**

**Prepared For:
Revitalizing Auto Communities Environmental Response Trust (RACER)**

**DECEMBER 2013
REF. NO. 017303 (28)**

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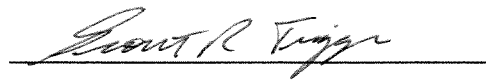
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List of Acronyms

AOC	Area of Contamination
bgs	Below Ground Surface
CFR	Code of Federal Regulations
COC	Constituents of Concern
CRA	CRA Engineering Inc.
CVO	Company Vehicle Operations
GM	General Motors
ID	Identification Number
IMWP	Interim Measures Work Plan
in. WC	Inch Water Column
Kaiser-Frazer	The Kaiser-Frazer Company
LDRs	Land Disposal Restrictions
LNAPL	Light Non-Aqueous Phase Liquid
MDEQ	Michigan Department of Environmental Quality
PAOC	Potential Area of Concern
PID	Photoionization Detector
PCBs	Polychlorinated Biphenyls
ppm	Parts Per Million
RACER	Revitalizing Auto Communities Environmental Response Trust
RCRA	Resource Conservation and Recovery Act
RFI	Resource Conservation and Recovery Act Facility Investigation
Site	CVO, Ypsilanti, Michigan
SSDS	Subslab Depressurization System
TCL VOCs	Target Compound List Volatile Organic Compounds
TCL SVOCs	Target Compound List Semi-Volatile Organic Compounds
TSCA	Toxic Substances Control Act
VOCs	Volatile Organic Compounds
UHCs	Underlying Hazardous Constituents
U.S. EPA	United States Environmental Protection Agency
WRAP	Willow Run Assembly Plant

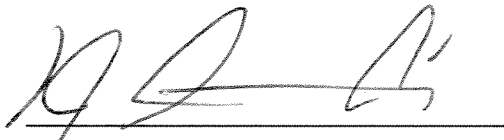
I certify under penalty of law that this document and all attachments were prepared under my direction or supervision according to a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.



Grant Trigger
Michigan Cleanup Manager
Revitalizing Auto Communities Environmental Response Trust

12-4-13

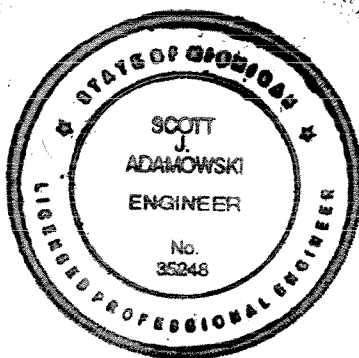
Date



Scott Adamowski, P.E.
CRA Engineering Inc.

12/11/13

Date



Section 1.0 Introduction

On behalf of Revitalizing Auto Communities Environmental Response Trust (RACER), CRA Engineering Inc. (CRA) has prepared this Interim Measures Work Plan (IMWP) – Part I for the Willow Run Company Vehicle Operations (CVO) property located in Ypsilanti, Michigan (Site) for the excavation of paint sludge and impacted soils beneath the northern portion of the Haulaway Building at the Site. An infiltration gallery and subslab depressurization system (SSDS) will also be installed as part of the IMWP activities. Soil and groundwater impacts, including the presence of paint sludge within the area, are the result of historic filling practices with industrial waste.

Specifically, this IMWP addresses impacts beneath the Haulaway Building located within Potential Area of Concern (PAOC) 23. This IMWP does not include post excavation activities. Post excavation activities including soil conditioning and disposal of the excavated material will be presented in a separate work plan, PAOC 23/24 IMWP – Part II (IMWP – Part II). The IMWP – Part II will be based on the characterization results of the excavated material under this IMWP – Part I and will be submitted in Spring 2014.

RACER has signed a purchase agreement with a new owner for the Site. The work included in this IMWP-Part I, which includes paint sludge removal, has been separated from future work that will be completed within the area to facilitate the property transfer and use of the Haulaway building by the new owner. RACER anticipates the transfer of the property to the new owner to take place in January 2014.

1.1 Site Location

The Site is located at 2901 Tyler Road in Ypsilanti, Michigan. It is bordered to the north and east by Tyler Pond, to the west by the Willow Run Business Center and to the south by Tyler Road. There is only one building, the Haulaway Building, located at the Site as shown on Figure 1.1. The Haulaway Building is located in the southwest quadrant of the Site. The west side of the Haulaway Building is office space whereas the east side is garage/maintenance workshop space. The garage/maintenance workshop is approximately 20,000 square feet.

1.2 Site History

The CVO Site consists of the eastern 22 acres of the former Willow Run Assembly Plant (WRAP). The Site has had many owners. The Kaiser-Frazer Company (Kaiser-Frazer) leased the area from the War Asset Administration in November 1945 and purchased the facility in December 1948. Kaiser-Frazer is thought to have constructed an administration building to house design and engineering facilities on the WRAP site. Kaiser-Frazer owned the property until its sale to General Motors (GM) in December 1954. The original building at the WRAP was used by GM as a parts storage warehouse until 1955. In 1956, light

truck assembly began at the plant. Following assembly operations, vehicles were distributed to dealers by both truck and railway systems. Production operations ceased in July of 1993 and deactivation and decommissioning operations proceeded to prepare the WRAP facility for an eventual sale in 1997. GM retained ownership of the CVO property, which was used to store and maintain GM owned company vehicles until 2010.

The Site is currently owned by RACER Properties LLC and operated by RACER. RACER was created in March 2011 by the United States Bankruptcy Court to clean up and position for redevelopment properties and other facilities owned by the former General Motors Corporation before its 2009 bankruptcy.

Historically, waste material (including paint sludge and various drummed wastes) were dumped in various locations within the CVO Site during the 1940s and 1950s. Historical aerial photos (1949) show an excavated area along with material piles just northeast of where the Haulaway Building now stands. The aerial photos show excavated pits dark in color suggesting the presence of liquids. The area of the 1949 pit is referred to as the PAOC 23 – 1949 Fill Area. Two pits were also observed in northwest of Haulaway Building in a 1952 aerial. These pits are dark in color indicating that they may contain liquid. This area has previously been identified as PAOC 24. The identification of the additional paint sludge between these two previously identified PAOCs suggests they may be one fill area.

Analytical results from samples of the groundwater, soil and buried waste material beneath the Haulaway Building suggest the possibility that volatile organic compounds (VOCs) could volatilize from these media and subsequently migrate into the indoor air of the Haulaway Building. Soil gas and indoor air samples from the Haulaway Building confirm that VOC vapors are migrating into the building. Investigations indicate that the paint sludge is a contributing factor to elevated levels of VOCs in soil gas beneath the Haulaway Building.

The paint sludge removal is not expected to fully remediate the VOC impacts in the area, rather to remove a source for soil gas and potentially groundwater impacts. Additional interim measures will likely be conducted. In anticipation of that an infiltration gallery will be installed prior to backfilling the excavation to enable delivery of amendments to the area to reduce groundwater concentrations in the future.

1.3 Project Overview

The Site is currently under Michigan Department of Environmental Quality(MDEQ) led Resource Conservation and Recovery Act (RCRA) Corrective Action due to the submission of a RCRA Part A Permit application in 1980 by GM. The RCRA history of the Site is summarized in the Site Summary Report (CRA, July 2012), previously provided under separate cover. The United States Environmental Protection

Agency (U.S. EPA) identification number (ID) associated with the November 1980 RCRA Part A permit application, subsequent waste activities for the former WRAP (which included the CVO property) and RCRA Corrective Action is MID005356795. This U.S. EPA ID is not currently used for any activity at the CVO Site. Currently the CVO Site has large quantity generator status and uses U. S. EPA ID MIK468293311 for waste shipments related to the environmental remediation work.

RCRA Corrective Action addresses impacts due to the release of hazardous substances. This interim measure addresses source removal at one area at the Site and will be completed as a portion of the overall RCRA corrective action at the Site. An interim measure is currently ongoing with PAOC 18 at the Site. Other activities will be completed under the RCRA Corrective Action at the Site by additional interim measures and/or deed restrictions.

1.4 Site Sources

As discussed in Section 1.2 historic filling practices have impacted Site soils and groundwater. Several aerial photographs of the Site from 1940 to 1998 were reviewed; these included 1940, 1949, 1952, 1955, 1956, 1963, 1969, 1978, 1980, 1985, 1990, 1994, 1995, and 1998. In reviewing the aerial photographs, several areas of soil disturbances, filling and open pits were observed on the CVO property. Copies of these aerial photographs are provided in Appendix B of the Site Summary Report (CRA, July 2012).

The 1949 aerial photograph shows an excavated area along with material piles just northeast of where the Haulaway building now stands. This photo shows excavated pits dark in color suggesting the presence of liquids. Several aerial photographs show filling activities along the south shore of Tyler Pond from Outfall #11, the northwest corner of the CVO Site, to the east. The 1952 photo shows that the area south and west of Tyler Pond was being used as a construction materials storage area. While remnants for the excavated pit identified in the 1949 photo are present, there is evidence of two additional pits directly west of the pit identified in the 1949 photo. These pits are dark in color indicating that they may contain liquid. The area of the 1952 pits is referred to as PAOC 24, 1952 Pits.

Based on the review of aerial photos, it appears the filling and apparent waste operations in the vicinity of the Site occurred prior to 1963, with the majority of the filling activities taking place prior to 1955. By 1963 the entire Site area, including the eastern most section but not the bank of Tyler Pond, was completely paved.

1.5 Applicable Regulations

This IMWP-Part I involves excavation of paint sludge material and adjacent impacted soils and placing the excavated material in piles as described in Section 2.2. As stated above, IMWP-Part II will be

submitted for the conditioning and off-Site disposal of the excavated material. This section describes regulations as they apply to the activities associated with the excavation of the materials.

1.5.1 Toxic Substances Control Act Evaluation

Low levels of polychlorinated biphenyls (PCBs) are present within the area to be excavated. Generally PCBs levels beneath the Haulaway building are less than 5 part per million (ppm), therefore, excavated material will not be considered Toxic Substances Control Act (TSCA) material. In addition, U.S. EPA has previously concurred that contamination at the Site occurred prior to 1978 based on information provided from Site history and aerial photographs. Therefore, according to 40 Code of Federal Regulations 761.50(b)(3)(i) (A), the PCBs at as-found concentrations less than 50 ppm are not subject to TSCA. A copy of the submittal to the U.S. EPA and their concurrence is provided in Appendix A-1.

1.5.2 RCRA Waste Evaluation

1.5.2.1 Non-Listed Waste Evaluation

Due to the historic nature and unknown origin of the waste material, paint sludge, impacted soils, groundwater in the area, they are not listed wastes. An email summarizing this justification was sent to the MDEQ via email on October 21, 2013. A copy of the submittal to the MDEQ is provided in Appendix A-2.

1.5.2.2 Point of Generation and Area of Contamination

The point of generation is the concept that a material must be characterized (hazardous or non-hazardous) and, if applicable, Underlying Hazardous Constituents or Land Disposal Restrictions (LDRs) evaluated after the point the material becomes a waste (i.e., after the point of generation). The point of generation of remediation waste is typically considered to be when the material is actively managed. Actively managed may include excavation for soils, pumping for groundwater or dredging for sediments.

The Area of Contamination (AOC) concept was discussed in the preamble to the National Contingency Plan (55 FR 8758-8760, March 8, 1990) as well as several federal guidance documents including "Management of Remediation Wastes Under Resource RCRA", October 4, 1998 (EPA530-F-98-026). The AOC concept allows for the consolidation and in-situ treatment of hazardous waste within the AOC without creating a new point of generation and therefore does not trigger LDRs. The point of generation becomes the point at which the waste leaves the AOC.

Michigan Rule 299.9524(2) identifies the AOC concept and allows a work plan approved by the MDEQ pursuant to R299.9524 to use the AOC concept. For the purposes of this IMWP-Part I, the AOC is

defined as the historic waste disposal area around PAOC 23 and PAOC 24 as shown on Figure 1.2. Therefore, the handling of soils within this AOC and conditioning that will be described in a subsequent IMWP have been designed to occur prior to the point of waste generation.

The AOC boundary identified in Figure 1.2 was defined by the 1949 and 1952 pits identified in the aerial photos review. The aerials indicate evidence of fill activities within these areas. In addition, similar impacts including chlorinated VOCs in soil and groundwater, and paint sludge are observed within this area. Additional information on the impacts observed within the area is discussed in Section 1.8.

As stated above, the historic filling practices at the Site included the deposition of waste material (i.e. paint sludge and other debris). The paint sludge has been observed in three areas (Areas A, B, and C) as shown on Figure 1.3. Paint sludge is observed at locations inside (mainly Area A) and outside (Areas B and C) the Haulaway Building; however, the excavation outside the Haulaway Building will not be completed at this time.

1.6 Future Land Use

The property has been sold for non-residential use. To facilitate the reuse of the building by a new owner in early 2014, this IMWP – Part I addresses paint sludge impacts beneath the Haulaway Building only.

1.7 Site Geology and Hydrogeology

The Site-wide geology consists of a fill and upper sand unit in the upper 15 to 20 feet. The fill unit varies from fill sands and clays to construction debris and historical waste material. The upper sand unit generally consists of fine to medium grained sands with silts and gravels. The sand/clay interface is observed approximately 17 feet below ground surface (bgs) near the Haulaway Building area.

The upper fill and sand units contain limited groundwater that is typically encountered in unconfined conditions at shallow depths (i.e. approximately 11 feet) near the building.

Details of geology and hydrogeology are provided in the RCRA Facility Investigation (RFI) Report submitted to MDEQ in October 2013 (CRA, October 2013).

1.8 Investigation Results

Soil, groundwater and indoor air/soil gas impacts have been identified within the AOC during investigation activities. Details of the investigation activities are included in the Site Summary Report (CRA, July 2012) and the RFI Report (CRA, October 2013). The following subsections summarize the

investigation results near the Haulaway Building area. Detailed stratigraphy logs for the soil borings completed near the Haulaway Building are included in Appendix B.

1.8.1 Paint Sludge and Product Data

Investigations completed at the Site identified paint sludge, yellow-green in color, in the northwest corner of the building. Delineation activities were completed to identify the extent of the paint sludge near the Haulaway Building. Figure 1.3 shows the locations where paint sludge was observed.

Light non-aqueous phase liquid (LNAPL) has also been observed near the Haulaway Building. The observed LNAPL does not appear continuous, widespread or consistently present in measurable quantities. Non-aqueous phase liquid (NAPL), brown in color, and mixed with paint sludge was observed at SB19-57. Petroleum type odor and sheen was observed at MW19-10. LNAPL was also observed at IW-18 and IW-40. It should be noted that IW-40 is not near the excavation area. Figure 1.3 shows the locations where product was observed.

Analytical results for paint sludge and NAPL samples are included in the RFI Report (CRA, October 2013). These results are also presented in Appendix C of this IMWP-Part I.

1.8.2 Soil and Groundwater Characterization Data

Soil and groundwater samples were collected and submitted to laboratory for TCL VOCs, TCL SVOCs, PCBs, and inorganics during investigation activities completed at the Site.

Review of the soil and groundwater data near the Haulaway building, identified several constituents that exceeded the generic MDEQ screening criteria. VOCs are the predominant constituents of concern in soil and groundwater within the area. Constituents of Concern (COCs) for soil and groundwater were defined as any constituent that exceeded residential criteria anywhere on Site for that matrix. Databox figures are included in the RFI Report (CRA, October 2013) to present soil and groundwater data for COCs for that matrix. Databox figures from the RFI Report which summarizes data collected through 2012 are provided in Appendix C of this IMWP-Part I. Table 1.1 presents the analytical results for investigation activities completed in 2013 that are not included in the databox figures.

1.8.3 Indoor Air and Soil Gas Data

In 2005, eight permanent soil vapor probes were installed beneath the north portion of the Haulaway Building to investigate the potential for VOCs to volatilize from groundwater to soil gas within the unsaturated overburden. Following review of the data collected from the soil gas probes, indoor air samples were also collected. Soil gas and indoor air investigation activities are presented in Appendix D and E of the Site Summary Report (CRA, July 2012).

Soil gas data was collected and was reviewed for evaluating VOC source areas in vadose zone soils within the Haulaway Building and the surrounding area in 2012. A regenerative blower was used to extract relatively high volumes of soil vapor from shallow temporary wells (approximately 5 feet deep). Extracted soil vapors were analyzed using a photoionization detector (PID) at the discharge outlet of the blower. The highest concentrations were observed at a location in the northwest corner of the building.

In May 2013 investigation, a total of 15 soil vapor pins were installed throughout the entire building to delineate impacts beneath the footprint of the building. Appendix C includes the soil vapor results.

Section 2.0 Scope of Work

The scope of work for this IMWP – Part I includes removal of paint sludge and associated impacted soils in Area A only to facilitate the reuse of the building by a new owner in early 2014. Excavation outside the building (Areas B and C) may be initiated based on the findings of the Area A excavation. A network of horizontal wells will be installed while backfilling the excavation to create an injection gallery for potential future use to reduce VOC levels in groundwater. In addition, vapor intrusion mitigation activities will be completed to prevent soil gases from infiltrating the building. These include the installation of a SSDS and sealing of cracks, gaps, and seams within a portion of the building.

Based on the reviewed technologies/approaches, RACER and MDEQ determined that excavation of the paint sludge was the best technical option for achieving source material removal and allowing reuse of the building in a timely manner.

Following that decision various options within this approach were reviewed to evaluate a manner in which cost uncertainty associated with waste stream variability could be decreased. The limited space inside the building poses restrictions for excavation and conditioning activities. These challenges cannot be avoided under the building. The uncertainty of the characterization of the excavated material is decreased once excavated and sampled. Therefore, the full scope of work was separated into two stages, (1) excavation and (2) material sampling, conditioning and disposal, to reduce the costs associated with the risk of the waste stream variability.

2.1 Shoring

Due to the depth and location of the excavation, helical piers will be installed to support existing foundations and footings enable excavation to 12 feet bgs.

2.2 Excavation

The objective is to remove paint sludge and adjacent soils until no visible paint sludge remains. Based on the investigations completed to date, the extent of excavation including the depth profile is presented on Figure 2.1. A cross section within the AOC is also completed to provide details such as paint sludge and concentrations of select constituents. Figures 2.2, 2.3 A, and 2.3 B present the cross section location map, the cross section A-A' and cross section details of the excavation Area A. It should be noted only select constituents i.e. those exceeding the groundwater surface water interface protection criteria and the non-residential soil volatilization to indoor air inhalation criteria are presented on the cross section. Data for the soil borings completed within the excavation area is provided in Table 1.1.

The material will be segregated into of 5 piles by depth as indicated below and shown in the depth profile on Figure 2.1. Soils and paint sludge will be excavated and relocated to piles outside the building within the AOC as shown on Figure 1.2. The segregation is based on similar impacts observed within the depth interval and is anticipated to aid in the evaluation of disposal options in IMWP – Part II. If paint sludge is observed in any interval, it will be placed in Pile 3.

- Pile 1: 0.5-2.0 feet bgs (soils)
- Pile 2: 2.0-3.5 feet bgs (soils)
- Pile 3: 3.0-9.0 feet bgs (Paint sludge)
- Pile 4: 3.0-9.0 feet bgs (soils)
- Pile 5: 9.0-11.0 feet bgs (soils)

The piles containing soils will be winterized as discussed in Section 2.3. The excavated soils will be sampled, evaluated, conditioned if required and disposed off-Site in 2014. These activities will be discussed in IMWP – Part II.

2.3 Winterizing the Material

Excavated material will be relocated to piles within the AOC and placed on 15 mm plastic sheeting and will be covered with a minimum of 6 mm plastic sheeting. The sheeting will be constructed to provide total protection from adverse weather and wind, prevent infiltration of precipitation or snow melt, and prevent any leaching of moisture from the piles. The piles will be winterized/protected and are expected to be staged onsite for 6 months.

2.4 Infiltration Gallery

A network of horizontal wells will be installed while backfilling the excavation to create an injection gallery. Figure 2.4 provides further details on the approximate layout and installation of the horizontal wells.

2.5 Vapor Mitigation Activities

To prevent soil gases from infiltrating the building, cracks, concrete penetrations, manholes (unused) and trenches will be filled and capped with concrete within the area of the building identified on Figure 2.5.

A subslab depressurization system (SSDS) will be designed and installed underneath a portion of the Haulaway Building. The area to be covered by SSDS is shown on Figure 2.6 and was defined by subslab soil gas results. The installation of the SSDS will be based on the ASTM E212-11 “Standard Practice for Installing Radon Mitigation Systems in Existing Low-Rise Residential Buildings”. The system will be designed to provide a minimum of 1 inch water column (in. WC) and maximum 4 in. WC at the suction side of the fan and 0.0161 in. WC throughout the subslab is achieved.

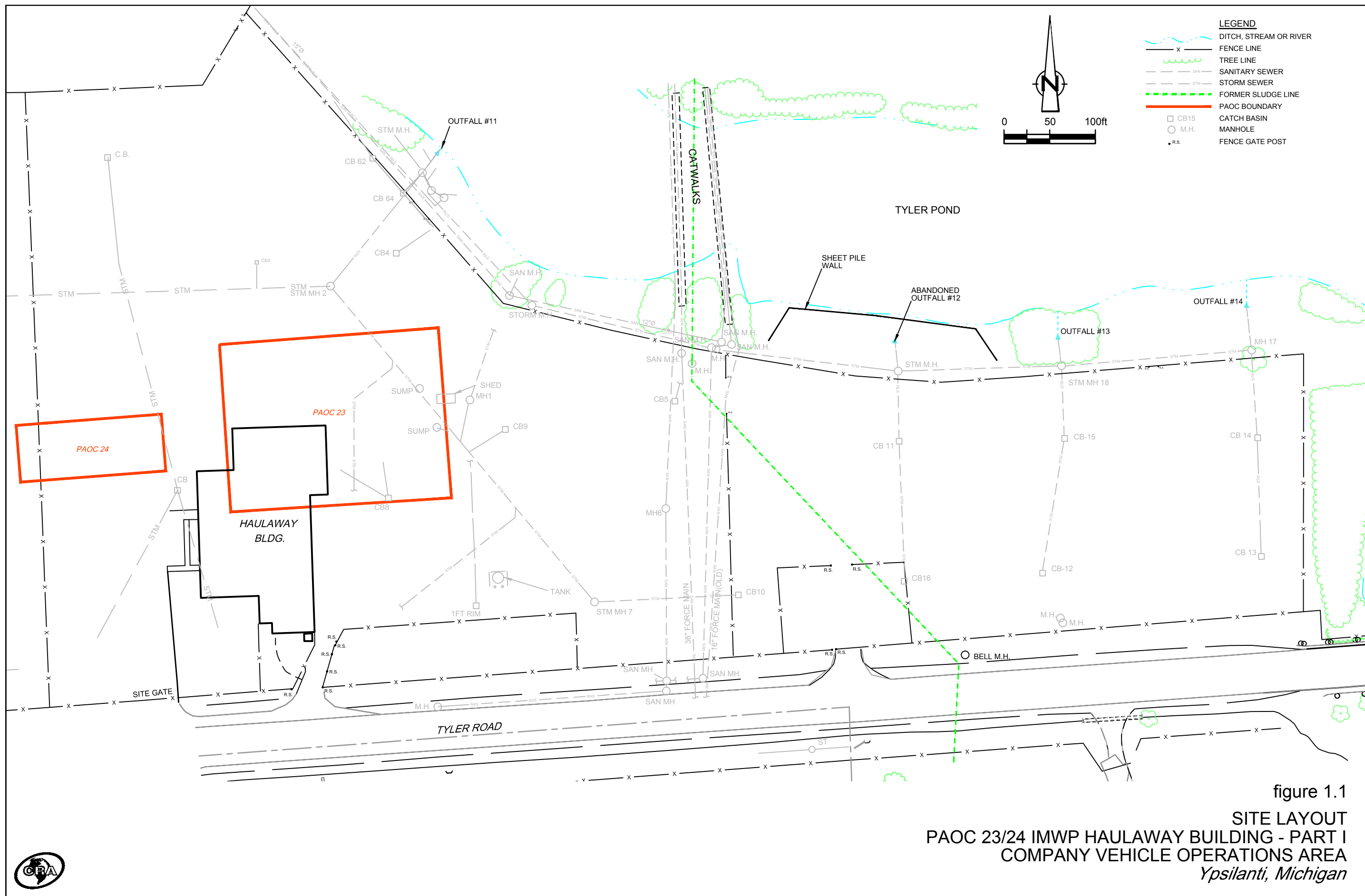
Upon the installation of the SSDS, exhaust will be evaluated and operation and maintenance events will be completed.

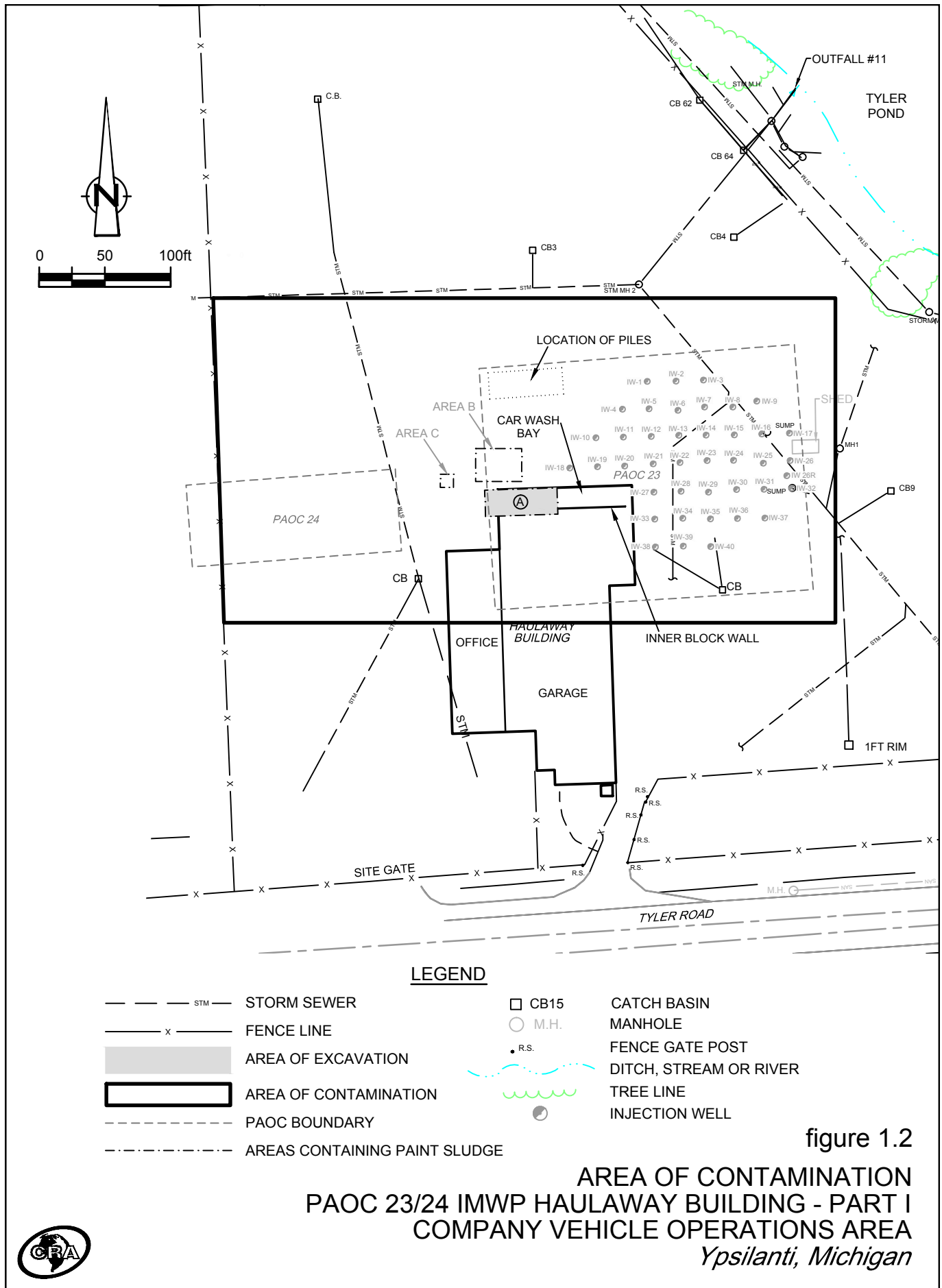
Section 3.0 References

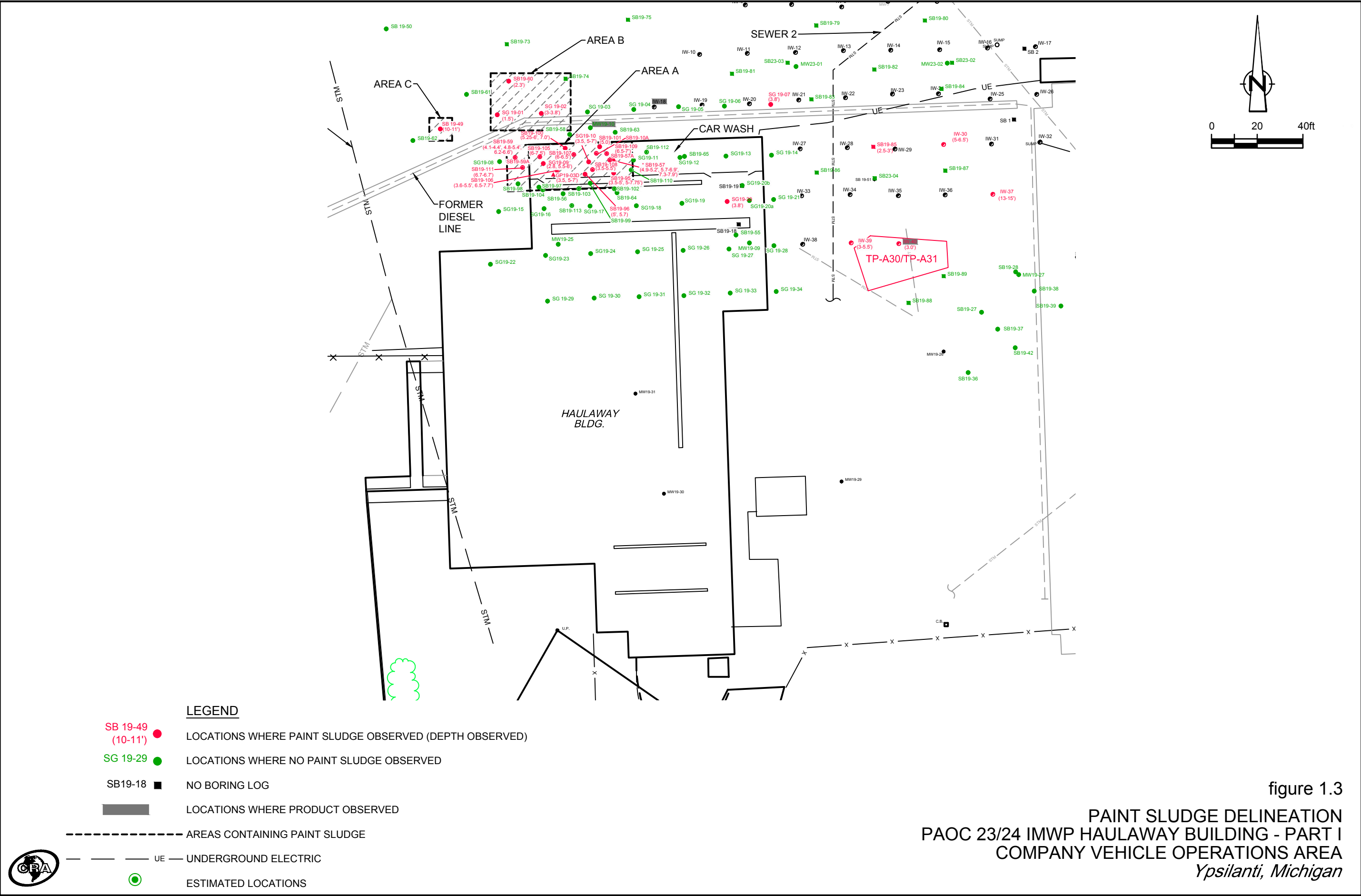
CRA, October 2013. RFI Report, Former General Motors Company Vehicle Operations Property, Ypsilanti, Michigan

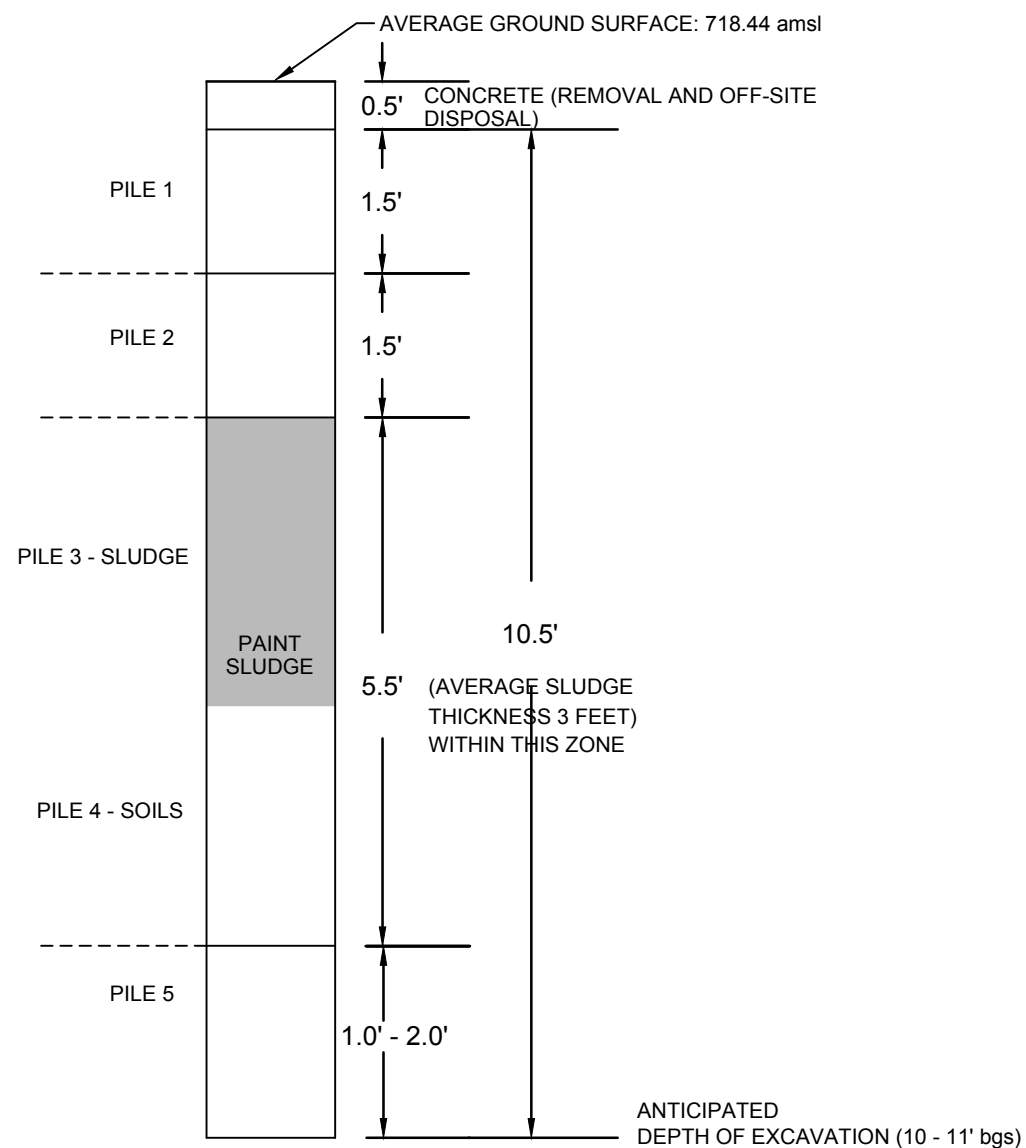
CRA, July 2012. Site Summary Report, Former General Motors Company Vehicle Operations Property, Ypsilanti, Michigan

U.S. EPA, October 4, 1998. Management of Remediation Wastes Under Resource Conservation and Recovery Act (RCRA)", (EPA530-F-98-026)

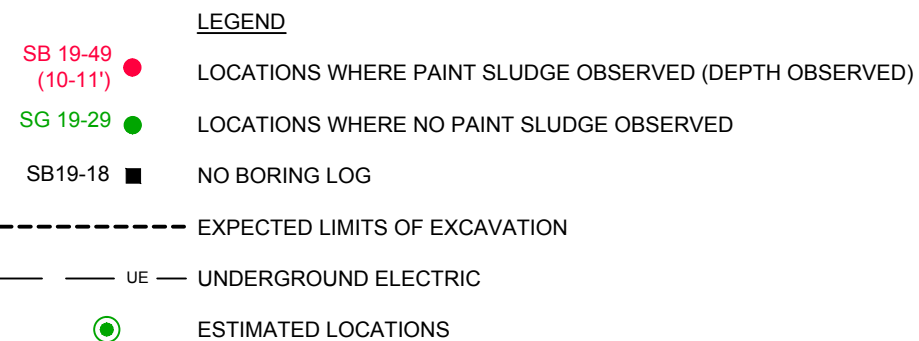








TYPICAL EXCAVATION CROSS-SECTION



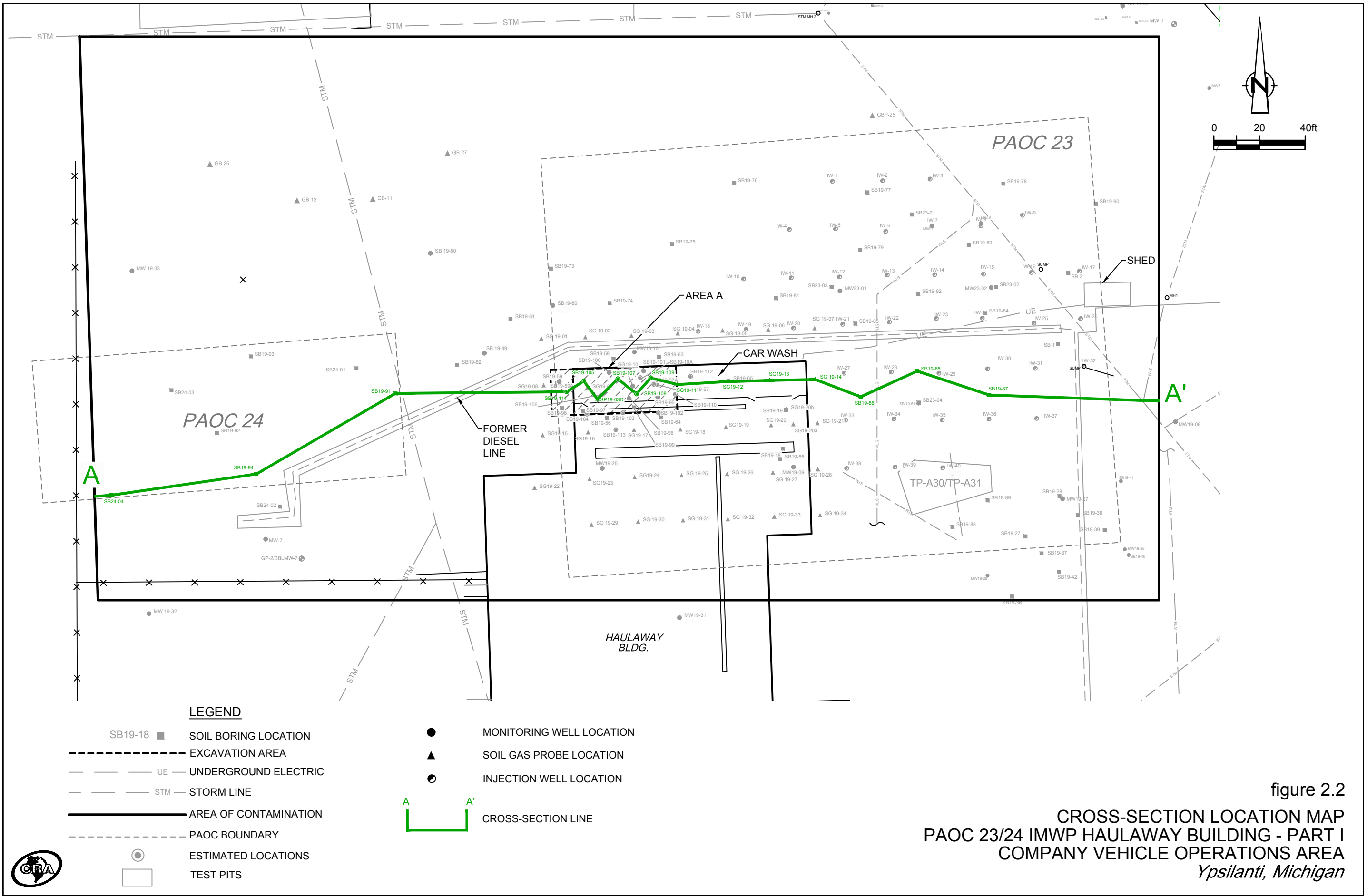
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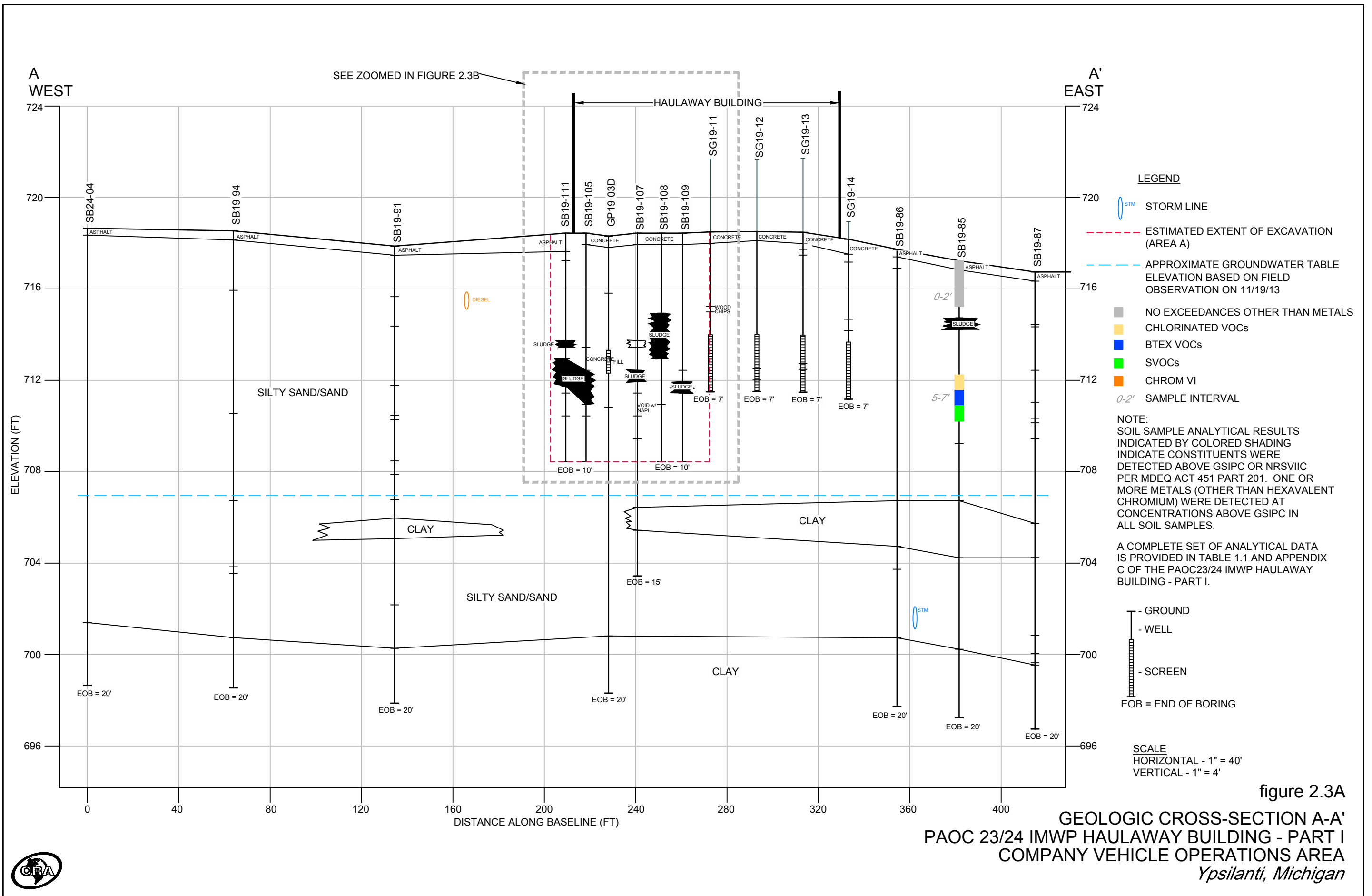
1. PAINT SLUDGE OBSERVED AT ANY INTERVAL/PILE WILL BE PLACED IN PILE #3

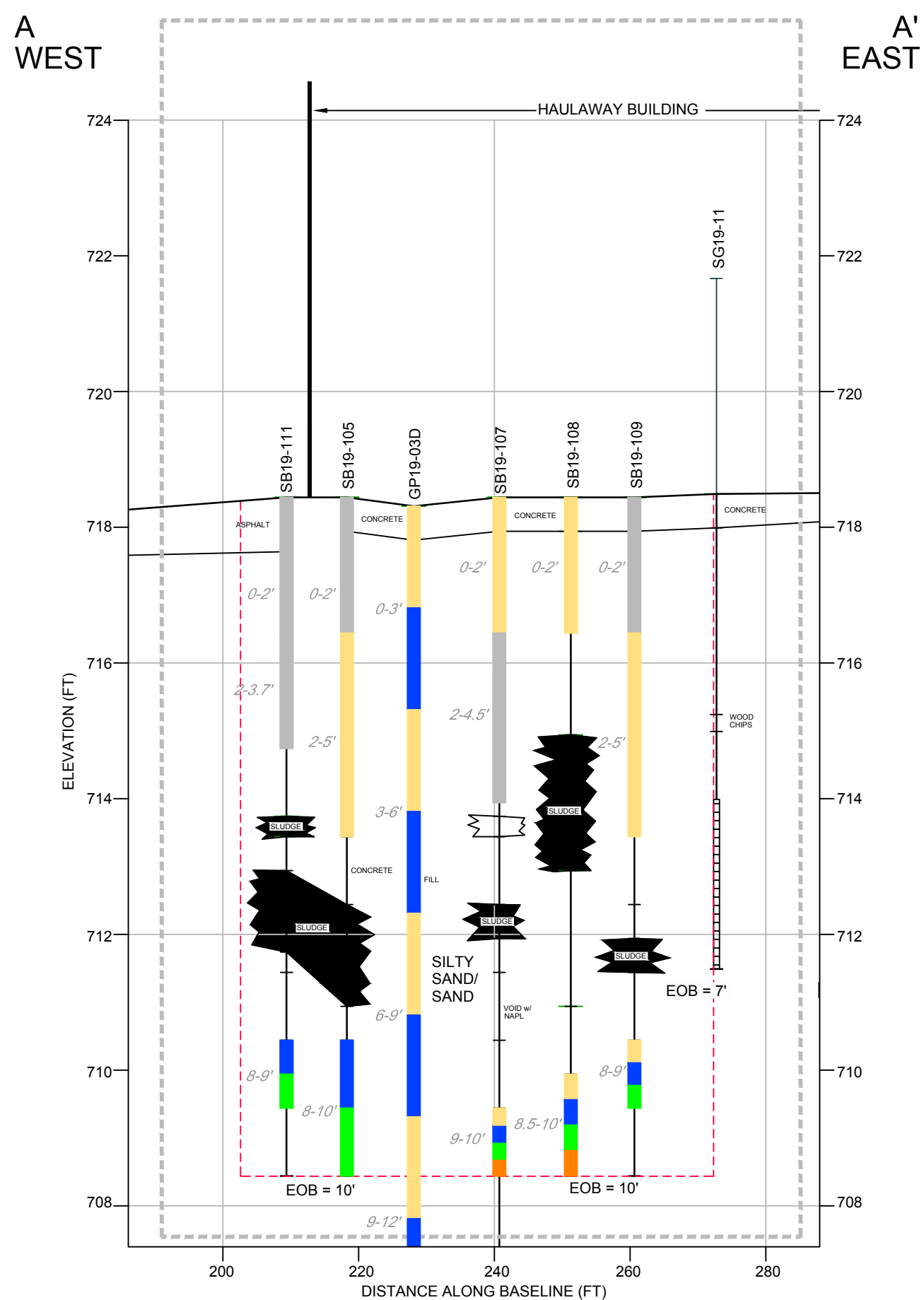
figure 2.1

EXTENT OF EXCAVATION
PAOC23/24 IMWP HAULAWAY BUILDING - PART I
COMPANY VEHICLE OPERATIONS AREA
Ypsilanti, Michigan









LEGEND

STM STORM LINE

--- ESTIMATED EXTENT OF EXCAVATION (AREA A)

NO EXCEEDANCES OTHER THAN METALS

CHLORINATED VOCs

BTEX VOCs

SVOCs

CHROM VI

0-2' SAMPLE INTERVAL

NOTE:
SOIL SAMPLE ANALYTICAL RESULTS INDICATED BY COLORED SHADING INDICATE CONSTITUENTS WERE DETECTED ABOVE GSIPC OR NRSVIIC PER MDEQ ACT 451 PART 201. ONE OR MORE METALS (OTHER THAN HEXAVALENT CHROMIUM) WERE DETECTED AT CONCENTRATIONS ABOVE GSIPC IN ALL SOIL SAMPLES.

A COMPLETE SET OF ANALYTICAL DATA IS PROVIDED IN TABLE 1.1 AND APPENDIX C OF THE PAOC23/24 IMWP HAULAWAY BUILDING - PART I.

- GROUND

- WELL

- SCREEN

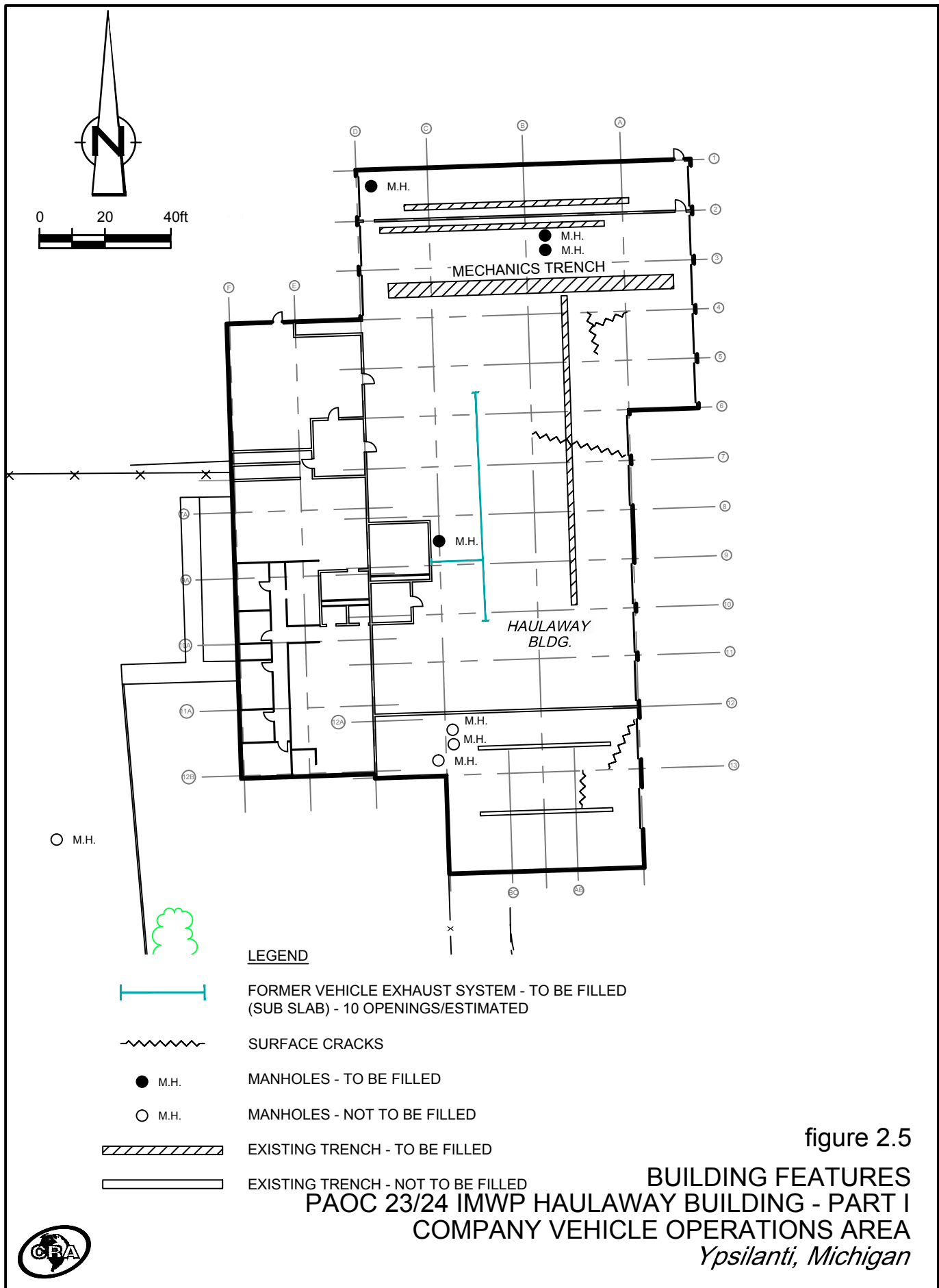
EOB = END OF BORING

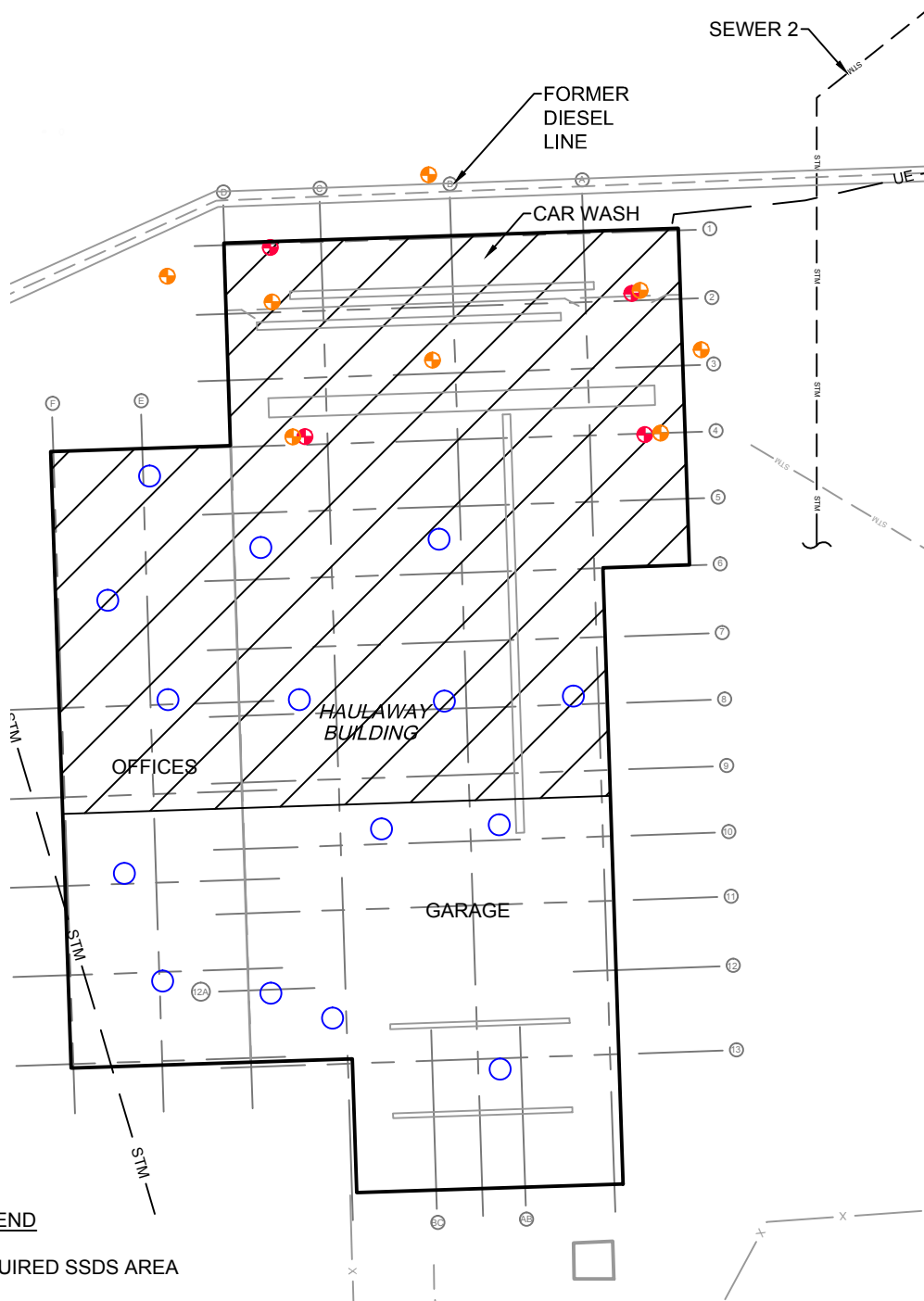
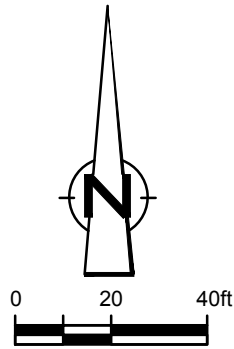
SCALE
HORIZONTAL - 1" = 20'
VERTICAL - 1" = 2'

figure 2.3B

CROSS-SECTION DETAILS OF THE EXCAVATION AREA A
PAOC 23/24 IMWP HAULAWAY BUILDING - PART I
COMPANY VEHICLE OPERATIONS AREA
Ypsilanti, Michigan







LEGEND

-  REQUIRED SSDS AREA
-  STORM SEWER
-  FENCE LINE
-  SUB SLAB SOIL GAS PROBES
-  SHALLOW GAS PROBES (<5ft BGS)
-  DEEP GAS PROBES (>5ft BGS)

figure 2.6

REQUIRED SSDS AREA
PAOC 23/24 IMWP HAULAWAY BUILDING - PART I
COMPANY VEHICLE OPERATIONS AREA
Ypsilanti, Michigan



TABLE 1.1
SOIL ANALYTICAL RESULTS SUMMARY
AUGUST 2013-NOVEMBER 2013
FORMER COMPANY VEHICLE OPERATIONS AREA
YPSILANTI, MICHIGAN

Sample Location:	Statewide Default	Nonresidential	Nonresidential	Nonresidential	Nonresidential	Nonresidential	Nonresidential	Nonresidential	Groundwater Contact	Groundwater Surface Water	Soil Saturation Concentration	SB19-102	SB19-103
Sample Depth:	Background Levels	Finite VSIC for 2 Meter	Finite VSIC for 5 Meter	Infinite Source Volatile	Direct Contact Criteria	Drinking Water	Soil Volatilization to	Particulate Soil	Protection Criteria	Interface Protection Criteria	Screening Levels	0-2 ft BGS	0-2 ft BGS
Sample ID:		Source Thickness	Source Thickness	Soil Inhalation Criteria (VSIC)		Protection Criteria	Indoor Air Inhalation Criteria	Inhalation Criteria				S-17303-110613-CT-001	S-17303-110613-CT-005
Sample Date:												11/06/2013	11/06/2013
Sample Type:													
Parameters	Units	a	b	c	d	e	f	g	h	i	j	k	
VOCs													
1,1,1-Trichloroethane	mg/kg		31000	15000	4500	460 C	4	460	29000000	460 C	1.8	460	0.33 U
1,1,2,2-Tetrachloroethane	mg/kg		34	34	34	240	0.7	23	68000	94	1.6 X	870	0.33 U
1,1,2-Trichloroethane	mg/kg		120	57	57	840	0.1	24	250000	420	6.6 X	920	0.33 U
1,1-Dichloroethane	mg/kg		14000	6000	2500	890 C	50	430	15000000	890 C	15	890	0.33 U
1,1-Dichloroethene	mg/kg		37	15	3.7	570 C	0.14	0.33	78000	220	2.6	570	0.33 U
1,2,4-Trichlorobenzene	mg/kg		34000	34000	34000	1100 C,DD	4.2	1100 C	11000000	1100 C	5.9 X	1100	1.7 U
1,2-Dibromo-3-chloropropane (DBCP)	mg/kg		0.9	0.9	0.9	1.2 C	0.01 M	1.2 C	700	1.2 C	ID	1.2	1.7 U
1,2-Dibromoethane (Ethylene dibromide)	mg/kg		9.8	5.8	5.8	0.43	0.02 M	3.6	18000	0.5	0.11 X	890	1.7 U
1,2-Dichlorobenzene	mg/kg		55000	46000	46000	210 C	14	210 C	44000000	210 C	0.28	210	0.66 U
1,2-Dichloroethane	mg/kg		74	33	21	420	0.1	11	150000	380	7.2 X	1200	0.33 U
1,2-Dichloropropane	mg/kg		120	51	30	550 C	0.1	7.4	120000	320	4.6 X	550	0.33 U
1,3-Dichlorobenzene	mg/kg		110	94	94	170 C	0.48	48	8800	51	0.68	170	0.66 U
1,4-Dichlorobenzene	mg/kg		340	260	260	1900	1.7	100	570000	140	0.36		0.66 U
2-Butanone (Methyl ethyl ketone) (MEK)	mg/kg		36000	35000	35000	27000 C,DD	760	27000 C	29000000	27000 C	44	27000	5 U
2-Hexanone	mg/kg		1500	1300	1300	2500 C	58	1800	1200000	2500 C	ID	2500	17 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	mg/kg		70000	53000	53000	2700 C	100	2700 C	60000000	2700 C	ID	2700	17 U
Acetone	mg/kg		200000	160000	160000	73000	42	110000 C	170000000	110000 C	34	110000	5 U
Benzene	mg/kg		230	99	45	400 C	0.1	8.4	470000	220	4 X	400	0.33 U
Bromodichloromethane	mg/kg		57	31	31	490	1.6 W	6.4	110000	280	ID	1500	0.66 U
Bromoform	mg/kg		3100	3100	3100	870 C	1.6 W	770	3600000	870 C	ID	870	0.66 U
Bromomethane (Methyl bromide)	mg/kg		140	57	13	1000	0.58	1.6	150000	1400	0.7	2200	1.7 U
Carbon disulfide	mg/kg		19000	8000	1600	280 C,DD	46	140	21000000	280 C	ID	280	1.7 U
Carbon tetrachloride	mg/kg		79	34	12	390 C	0.1	0.99	170000	92	0.9 X	390	0.33 U
Chlorobenzene	mg/kg		2100	1100	920	260 C	2	220	2100000	260 C	0.5	260	0.33 U
Chloroethane	mg/kg		280000	120000	36000	950 C	34	950 C	290000000	950 C	22 X	950	1.7 U
Chloroform (Trichloromethane)	mg/kg		790	340	150	1500 C	1.6 W	38	1600000	1500 C	7	1500	0.33 U
Chloromethane (Methyl chloride)	mg/kg		2500	1000	120	1100 C	22	10	2600000	1100 C	ID	1100	1.7 U
cis-1,2-Dichloroethene	mg/kg		1000	430	210	640 C	1.4	41	1000000	640 C	12	640	2.1 ^f
cis-1,3-Dichloropropene	mg/kg												0.33 U
Cyclohexane	mg/kg												8 U
Dibromochloromethane	mg/kg		98	80	80	500	1.6 W	21	160000	360	ID	610	0.33 U
Dichlorodifluoromethane (CFC-12)	mg/kg		1400000	550000	63000	1000 C	270	1700	1500000000	1000 C	ID	1000	0.66 U
Ethylbenzene	mg/kg		6500	3100	2400	140 C	1.5	140 C	13000000	140 C	0.36	140	0.33 U
Isopropyl benzene	mg/kg		3000	2000	2000	390 C	260	390 C	2600000	390 C	3.2	390	1.7 U
Methyl acetate	mg/kg												8 U
Methyl cyclohexane	mg/kg												8 U
Methyl tert butyl ether (MTBE)	mg/kg		89000	41000	30000	5900 C	0.8	5900 C	88000000	5900 C	140 X	5900	1.7 U
Methylene chloride	mg/kg		4000	1700	700	2300 C	0.1	240	8300000	2300 C	30 X	2300	1.7 U
Styrene	mg/kg		4200	3300	3300	520 C	2.7	520 C	6900000	270	2.1 X	520	0.33 U
Tetrachloroethene	mg/kg		1100	490	210	88 C	0.1	21	1200000	88 C	1.2 X	88	0.33 U
Toluene	mg/kg		36000	36000	3300	250 C	16	250 C	12000000	250 C	5.4	250	0.66 U
trans-1,2-Dichloroethene	mg/kg		2000	840	330	1400 C	2	43	2100000	1400 C	30 X	1400	0.33 U
trans-1,3-Dichloropropene	mg/kg												0.33 U
Trichloroethene	mg/kg		58	25	14	500 C,DD	0.1	1.9	59000	440	4 X	500	13 ^{fd}
Trichlorofluoromethane (CFC-11)	mg/kg		140000000	140000000	110000	560 C	150	560 C	1700000000	560 C		560	0.66 U
Trifluorotrichloroethane (Freon 113)	mg/kg		2100000	890000	210000	550 C	550 C	550 C	2300000000	550 C	1.7	550	1.7 U
Vinyl chloride	mg/kg		420	170	29	34	0.04	2.8	890000	20	0.26 X	490	0.27 U
Xylenes (total)	mg/kg		130000	65000	54000	150 C	5.6	150 C	130000000	150 C	0.82	150	1 U
SVOCs													
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	mg/kg												0.28 U
2,4,5-Trichlorophenol	mg/kg		NLV	NLV	NLV	73000	110	NLV	10000000	9100			0.28 U
2,4,6-Trichlorophenol	mg/kg		NLV	NLV	NLV	3300	9.4	NLV	1300000	200	0.33 M		0.28 U
2,4-Dichlorophenol	mg/kg		NLV	NLV	NLV	1800 C,DD	4.2	NLV	2300000	960	0.33 M	1800	0.28 U
2,4-Dimethylphenol	mg/kg		NLV	NLV	NLV	36000	20	NLV	2100000	10000	7.6		0.28 U
2,4-Dinitrophenol	mg/kg												0.16 U
2,4-Dinitrotoluene	mg/kg		NLV	NLV	NLV	220	0.64	NLV	20000	170			0.28 U
2,6-Dinitrotoluene	mg/kg												0.28 U
2-Chloronaphthalene	mg/kg		ID	ID	ID	180000	1800	ID	ID	2300			0.28 U
2-Chlorophenol	mg/kg		1100	1100	1100	4500	2.6	800	530000	1900	0.36	19000	0.28 U
2-Methylnaphthalene	mg/kg		1800	1800	1800	26000	170	4900	290000	5500	4.2		0.0043 J

TABLE 1.1
SOIL ANALYTICAL RESULTS SUMMARY
AUGUST 2013-NOVEMBER 2013
FORMER COMPANY VEHICLE OPERATIONS AREA
YPSILANTI, MICHIGAN

PAOC Sample Location: Sample Depth: Sample ID: Sample Date: Sample Type: Parameters	Statewide Default Background Levels	Nonresidential Finite VSIC for 2 Meter Source Thickness	Nonresidential Finite VSIC for 5 Meter Source Thickness	Nonresidential Infinite Source Volatile Soil Inhalation Criteria (VSIC)	Nonresidential Direct Contact Criteria	Nonresidential Drinking Water Protection Criteria	Nonresidential Soil Volatilization to Indoor Air Inhalation Criteria	Nonresidential Particulate Soil Inhalation Criteria	Groundwater Contact Protection Criteria	Groundwater Surface Water Interface Protection Criteria	Soil Saturation Concentration Screening Levels	SB19-102 0-2 ft BGS S-17303-110613-CT-001 11/06/2013	SB19-103 0-2 ft BGS S-17303-110613-CT-005 11/06/2013
Units	a	b	c	d	e	f	g	h	i	j	k		
2-Methylphenol	mg/kg		NLV	NLV	NLV	36000	20	NLV	2900000	16000		0.28 U	0.28 U
2-Nitroaniline	mg/kg											0.21 U	0.21 U
2-Nitrophenol	mg/kg		NLV	NLV	NLV	2000	1.2	NLV	ID	1600	ID	0.28 U	0.28 U
3&4-Methylphenol	mg/kg		NLV	NLV	NLV	36000	20	NLV	2900000	16000	1 M	0.28 U	0.28 U
3,3'-Dichlorobenzidine	mg/kg		NLV	NLV	NLV	30	2 M	NLV	8200	4.6	2 M	0.28 U	0.28 U
3-Nitroaniline	mg/kg											0.21 U	0.21 U
4,6-Dinitro-2-methylphenol	mg/kg		NLV	NLV	NLV	260	0.83 M	NLV	59000	190		0.21 U	0.21 U
4-Bromophenyl phenyl ether	mg/kg											0.16 U	0.16 U
4-Chloro-3-methylphenol	mg/kg		NLV	NLV	NLV	15000	16	NLV	ID	3000	0.28	0.28 U	0.28 U
4-Chloroaniline	mg/kg											0.28 U	0.28 U
4-Chlorophenyl phenyl ether	mg/kg											0.21 U	0.21 U
4-Nitroaniline	mg/kg											0.21 U	0.21 U
4-Nitrophenol	mg/kg											0.35 U	0.35 U
Acenaphthene	mg/kg		97000	97000	97000	130000	880	350000	6200000	970	8.7	0.28 U	0.28 U
Acenaphthylene	mg/kg		2700	2700	2700	5200	17	3000	1000000	440	ID	0.28 U	0.28 U
Acetophenone	mg/kg		52000	52000	52000	1100 C	88	1100 C	14000000	1100 C		0.28 U	0.28 U
Anthracene	mg/kg		1600000	1600000	1600000	730000	41	1000000 D	29000000	41	ID	0.28 U	0.0076 J
Atrazine	mg/kg		NLV	NLV	NLV	330 DD	0.06	NLV	ID	110	0.15	0.042 U	0.042 U
Benzaldehyde	mg/kg											0.28 U*	0.28 U*
Benzo(a)anthracene	mg/kg		NLV	NLV	NLV	80	NLL	NLV	ID	NLL	NLL	0.28 U	0.047 J
Benzo(a)pyrene	mg/kg		NLV	NLV	NLV	8	NLL	NLV	1900	NLL	NLL	0.28 U	0.059 J
Benzo(b)fluoranthene	mg/kg		ID	ID	ID	80	NLL	ID	ID	NLL	NLL	0.015 J	0.076 J
Benzo(g,h,i)perylene	mg/kg		NLV	NLV	NLV	7000	NLL	NLV	350000	NLL	NLL	0.28 U	0.049 J
Benzo(k)fluoranthene	mg/kg		NLV	NLV	NLV	800	NLL	NLV	ID	NLL	NLL	0.004 J	0.04 J
Biphenyl (1,1-Biphenyl)	mg/kg											0.28 U	0.28 U
bis(2-Chloroethoxy)methane	mg/kg											0.28 U	0.28 U
bis(2-Chloroethyl)ether	mg/kg		13	13	13	58	0.17	44	12000	110	0.1 M	0.084 U	0.085 U
bis(2-Ethylhexyl)phthalate (DEHP)	mg/kg		NLV	NLV	NLV	10000 C	NLL	NLV	890000	NLL	NLL	0.28 U	0.039 J
Butyl benzylphthalate (BBP)	mg/kg		NLV	NLV	NLV	310 C	310 C	NLV	21000000	310 C	120 X	0.28 U	0.28 U
Caprolactam	mg/kg		NLV	NLV	NLV	310000 DD	340	NLV	290000	1000000 D		0.28 U	0.28 U
Carbazole	mg/kg		NLV	NLV	NLV	2400	39	NLV	78000	820	1.1	0.28 U	0.28 U
Chrysene	mg/kg		ID	ID	ID	8000	NLL	ID	ID	NLL	NLL	0.016 J	0.058 J
Dibenz(a,h)anthracene	mg/kg		NLV	NLV	NLV	8	NLL	NLV	ID	NLL	NLL	0.28 U	0.28 U
Dibenzofuran	mg/kg		160	160	160	ID	ID	3600	2900	ID	1.7	0.28 U	0.28 U
Diethyl phthalate	mg/kg		NLV	NLV	NLV	740 C	320	NLV	1500000	740 C	2.2	0.28 U	0.28 U
Dimethyl phthalate	mg/kg		NLV	NLV	NLV	790 C	790 C	NLV	1500000	790 C		0.28 U	0.28 U
Di-n-butylphthalate (DBP)	mg/kg		NLV	NLV	NLV	760 C	760 C	NLV	1500000	760 C	11	0.041 JB	0.036 JB
Di-n-octyl phthalate (DnOP)	mg/kg		NLV	NLV	NLV	20000	140000 C	NLV	14000000	140000 C	ID	0.28 U	0.28 U
Fluoranthene	mg/kg		880000	880000	890000	130000	730	1000000 D	4100000	730	5.5	0.019 J	0.086 J
Fluorene	mg/kg		150000	150000	150000	87000	890	1000000 D	4100000	890	5.3	0.28 U	0.28 U
Hexachlorobenzene	mg/kg		56	56	56	37	1.8	220	8500	8.2	0.35	0.28 U	0.28 U
Hexachlorobutadiene	mg/kg		460	460	460	350 C	72	350 C	180000	350 C	0.091	0.042 U	0.042 U
Hexachlorocyclopentadiene	mg/kg		60	60	60	720 C	320	56	5900	720 C	ID	0.28 U	0.28 U
Hexachloroethane	mg/kg		1400	1400	660	730	1.2	79	100000	110	1.8 X	0.28 U	0.28 U
Indeno(1,2,3-cd)pyrene	mg/kg		NLV	NLV	NLV	80	NLL	NLV	ID	NLL	NLL	0.28 U	0.04 J
Isophorone	mg/kg		NLV	NLV	NLV	2400 C	62	NLV	8200000	2400 C	26 X	0.048 J	0.28 U
Naphthalene	mg/kg		350	350	350	52000	100	470	88000	2100	0.73	0.28 U	0.28 U
Nitrobenzene	mg/kg		64	64	64	340	0.33 M	170	21000	220	3.6 X	0.28 U	0.28 U
N-Nitrosodi-n-propylamine	mg/kg		NLV	NLV	NLV	5.4	0.33 M	NLV	2000	7.2		0.28 U	0.28 U
N-Nitrosodiphenylamine	mg/kg		NLV	NLV	NLV	7800	22	NLV	2800000	700		0.28 U	0.28 U
Pentachlorophenol	mg/kg		NLV	NLV	NLV	320	0.022	NLV	130000	4.3	26.5 G,X	0.16 U	0.16 U
Phenanthrene	mg/kg		190	190	190	5200	160	5100	2900	1100	2.1	0.023 J	0.029 J
Phenol	mg/kg		NLV	NLV	NLV	12000 C,DD	260	NLV	18000000	12000 C	9	0.28 U	0.28 U
Pyrene	mg/kg		780000	780000	780000	84000	480	1000000 D	2900000	480	ID	0.024 J	0.082 J
Metals													
Antimony	mg/kg		NLV	NLV	NLV	670	4.3	NLV	5900	49000	94 X	4.3	2.1
Arsenic	mg/kg	5.8	NLV	NLV	NLV	37	4.6	NLV	910	2000	4.6	2.7 B	3.7 B
Barium	mg/kg	75	NLV	NLV	NLV	130000	1300	NLV	150000	1000000 D	1250 G,X	23 B	240 B
Beryllium	mg/kg		NLV	NLV	NLV	1600	51	NLV	590	1000000 D	948 G	0.12 J	0.15 J
Cadmium	mg/kg	1.2	NLV	NLV	NLV	2100	6	NLV	2200	230000	7.32 G,X	0.16	1.0
Chromium	mg/kg	18	NLV	NLV	NLV	9200	30	NLV	240	140000	3.3	53 ^g	50 ^g
Chromium VI (hexavalent)	mg/kg		NLV	NLV	NLV	9200	30	NLV	240	140000	3.3	14 B ^j	--
Cobalt	mg/kg	6.8	NLV	NLV	NLV	9000	2	NLV	5900	48000	2	2.3	2.6

TABLE 1.1
SOIL ANALYTICAL RESULTS SUMMARY
AUGUST 2013-NOVEMBER 2013
FORMER COMPANY VEHICLE OPERATIONS AREA
YPSILANTI, MICHIGAN

Sample Location:	Statewide Default	Nonresidential	Nonresidential	Nonresidential	Nonresidential	Nonresidential	Nonresidential	Nonresidential	Groundwater Contact	Groundwater Surface Water	Soil Saturation Concentration	SB19-102	SB19-103
Sample Depth:	Background Levels	Finite VSIC for 2 Meter	Finite VSIC for 5 Meter	Infinite Source Volatile	Direct Contact Criteria	Drinking Water	Soil Volatilization to	Particulate Soil	Protection Criteria	Interface Protection Criteria	Screening Levels	0-2 ft BGS	0-2 ft BGS
Sample ID:		Source Thickness	Source Thickness	Soil Inhalation Criteria (VSIC)		Protection Criteria	Indoor Air Inhalation Criteria	Inhalation Criteria				S-17303-110613-CT-001	S-17303-110613-CT-005
Sample Date:												11/06/2013	11/06/2013
Sample Type:													
Parameters	Units	a	b	c	d	e	f	g	h	i	j	k	
Copper	mg/kg	32	NLV	NLV	NLV	73000	5800	NLV	59000	1000000 D	167 G	5.9	7.2
Lead	mg/kg	21	NLV	NLV	NLV	900 DD	700	NLV	44000	ID	10600 G,X	4.7	30
Manganese	mg/kg	440	NLV	NLV	NLV	90000	1	NLV	1500	180000	130 G,X	130 B	150 B
Mercury	mg/kg	0.13	62	62	62	580	1.7	89	8800	47	0.05 M	0.039 U	0.044 U
Nickel	mg/kg	20	NLV	NLV	NLV	150000	100	NLV	16000	1000000 D	166 G	6.9	6.5
Selenium	mg/kg	0.41	NLV	NLV	NLV	9600	4	NLV	59000	78000	0.4	0.41	0.53 ¹
Silver	mg/kg	1	NLV	NLV	NLV	9000	13	NLV	2900	200000	0.1 M	0.037 J	0.030 J
Thallium	mg/kg		NLV	NLV	NLV	130	2.3	NLV	5900	15000	4.2 X	0.080 J	0.079 J
Vanadium	mg/kg		NLV	NLV	NLV	5500 DD	990	NLV	ID	1000000 D	430	8.1	8.8
Zinc	mg/kg	47	NLV	NLV	NLV	630000	5000	NLV	ID	1000000 D	377 G	77	190
PCBs													
Aroclor-1016 (PCB-1016)	mg/kg		28000	28000	810	16 T	NLL	16000	6500	NLL	NLL	0.28 U	--
Aroclor-1221 (PCB-1221)	mg/kg		28000	28000	810	16 T	NLL	16000	6500	NLL	NLL	0.28 U	--
Aroclor-1232 (PCB-1232)	mg/kg		28000	28000	810	16 T	NLL	16000	6500	NLL	NLL	0.28 U	--
Aroclor-1242 (PCB-1242)	mg/kg		28000	28000	810	16 T	NLL	16000	6500	NLL	NLL	0.28 U	--
Aroclor-1248 (PCB-1248)	mg/kg		28000	28000	810	16 T	NLL	16000	6500	NLL	NLL	0.28 U	--
Aroclor-1254 (PCB-1254)	mg/kg		28000	28000	810	16 T	NLL	16000	6500	NLL	NLL	0.28 U	--
Aroclor-1260 (PCB-1260)	mg/kg		28000	28000	810	16 T	NLL	16000	6500	NLL	NLL	0.12 J	--
Total PCBs	mg/kg		28000	28000	810	16 T	NLL	16000	6500	NLL	NLL	--	--

Footnotes:
The analytical data is compared to the Michigan Part 201 generic cleanup criteria developed by the MDEQ under the authority of the Natural Resources and Environmental Protection Act (1994 PA 451, as amended).
Environmental Protection Act (1994 PA 451, as amended).
U-Not detected at the associated reporting limit.
J-Estimated concentration.
¹ Samples collected from SB19-57A, SB19-59A, SG19-10A were composite of soils and paint sludge within the interval indicated above.

TABLE 1.1
SOIL ANALYTICAL RESULTS SUMMARY
AUGUST 2013-NOVEMBER 2013
FORMER COMPANY VEHICLE OPERATIONS AREA
YPSILANTI, MICHIGAN

Sample Location:	SB19-104	SB19-105	SB19-106	SB19-107	SB19-108	SB19-109	SB19-110	SB19-111	SB19-112	SB19-111	SB19-107	SB19-102	SB19-103
Sample Depth:	0-2 ft BGS	0-2 ft BGS	0-2 ft BGS	0-2 ft BGS	0-2 ft BGS	0-2 ft BGS	0-2 ft BGS	0-2 ft BGS	0-2 ft BGS	2-3.7 ft BGS	2-4.5 ft BGS	2-5 ft BGS	2-5 ft BGS
Sample ID:	S-17303-110613-CT-009	S-17303-110613-CT-013	S-17303-110613-CT-016	S-17303-110613-CT-018	S-17303-110613-CT-021	S-17303-110613-CT-023	S-17303-110613-CT-026	S-17303-110613-CT-030	S-17303-110613-CT-033	S-17303-110613-CT-031	S-17303-110613-CT-019	S-17303-110613-CT-002	S-17303-110613-CT-006
Sample Date:	11/06/2013	11/06/2013	11/06/2013	11/06/2013	11/06/2013	11/06/2013	11/06/2013	11/06/2013	11/06/2013	11/06/2013	11/06/2013	11/06/2013	11/06/2013
Sample Type:													
Parameters	Units												
VOCs													
1,1,1-Trichloroethane	mg/kg	0.045 U	0.043 U	2.1 U	0.11 U	0.34 U	0.042 U	0.05 U	0.049 U	0.042 U	0.044 U	0.042 U	0.042 U
1,1,2,2-Tetrachloroethane	mg/kg	0.045 U	0.043 U	2.1 U	0.11 U	0.34 U	0.042 U	0.05 U	0.049 U	0.042 U	0.044 U	0.042 U	0.047 U
1,1,2-Trichloroethane	mg/kg	0.045 U	0.043 U	2.1 U	0.11 U	0.34 U	0.042 U	0.05 U	0.049 U	0.042 U	0.044 U	0.042 U	0.047 U
1,1-Dichloroethane	mg/kg	0.045 U	0.043 U	2.1 U	0.11 U	0.34 U	0.042 U	0.05 U	0.049 U	0.042 U	0.044 U	0.042 U	0.047 U
1,1-Dichloroethene	mg/kg	0.045 U	0.043 U	2.1 U	0.11 U	0.34 U	0.042 U	0.05 U	0.049 U	0.042 U	0.044 U	0.042 U	0.047 U
1,2,4-Trichlorobenzene	mg/kg	0.23 U	0.21 U	11 U	0.57 U	1.7 U	0.21 U	0.25 U	0.25 U	0.21 U	0.22 U	0.21 U	0.24 U
1,2-Dibromo-3-chloropropane (DBCP)	mg/kg	0.23 U	0.21 U	11 U	0.57 U	1.7 U	0.21 U	0.25 U	0.25 U	0.21 U	0.22 U	0.21 U	0.24 U
1,2-Dibromoethane (Ethylene dibromide)	mg/kg	0.23 U	0.21 U	11 U	0.57 U	1.7 U	0.21 U	0.25 U	0.25 U	0.21 U	0.22 U	0.21 U	0.24 U
1,2-Dichlorobenzene	mg/kg	0.09 U	0.085 U	4.3 U	0.23 U	0.68 U	0.085 U	0.099 U	0.098 U	0.083 U	0.088 U	0.083 U	0.094 U
1,2-Dichloroethane	mg/kg	0.045 U	0.043 U	2.1 U	0.11 U	0.34 U	0.042 U	0.05 U	0.049 U	0.042 U	0.044 U	0.042 U	0.047 U
1,2-Dichloropropane	mg/kg	0.045 U	0.043 U	2.1 U	0.11 U	0.34 U	0.042 U	0.05 U	0.049 U	0.042 U	0.044 U	0.042 U	0.047 U
1,3-Dichlorobenzene	mg/kg	0.09 U	0.085 U	4.3 U	0.23 U	0.68 U	0.085 U	0.099 U	0.098 U	0.083 U	0.088 U	0.083 U	0.094 U
1,4-Dichlorobenzene	mg/kg	0.09 U	0.085 U	4.3 U	0.23 U	0.68 U	0.085 U	0.099 U	0.098 U	0.083 U	0.088 U	0.083 U	0.094 U
2-Butanone (Methyl ethyl ketone) (MEK)	mg/kg	0.68 U	0.64 U	32 U	1.7 U	5.1 U	0.64 U	0.75 U	0.74 U	0.62 U	0.66 U	0.62 U	0.71 U
2-Hexanone	mg/kg	2.3 U	2.1 U	110 U	5.7 U	17 U	2.1 U	2.5 U	2.5 U	2.1 U	2.2 U	2.1 U	2.4 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	mg/kg	2.3 U	2.1 U	110 U	5.7 U	17 U	2.1 U	2.5 U	2.5 U	2.1 U	2.2 U	2.1 U	2.4 U
Acetone	mg/kg	0.68 U	0.64 U	32 U	1.7 U	5.1 U	0.64 U	0.75 U	0.74 U	0.62 U	0.66 U	0.62 U	0.71 U
Benzene	mg/kg	0.045 U	0.043 U	2.1 U	0.11 U	0.34 U	0.042 U	0.05 U	0.049 U	0.042 U	0.044 U	0.042 U	0.047 U
Bromodichloromethane	mg/kg	0.09 U	0.085 U	4.3 U	0.23 U	0.68 U	0.085 U	0.099 U	0.098 U	0.083 U	0.088 U	0.083 U	0.094 U
Bromoform	mg/kg	0.09 U	0.085 U	4.3 U	0.23 U	0.68 U	0.085 U	0.099 U	0.098 U	0.083 U	0.088 U	0.083 U	0.094 U
Bromomethane (Methyl bromide)	mg/kg	0.23 U	0.21 U	11 U	0.57 U	1.7 U	0.21 U	0.25 U	0.25 U	0.21 U	0.22 U	0.21 U	0.24 U
Carbon disulfide	mg/kg	0.23 U	0.21 U	11 U	0.57 U	1.7 U	0.21 U	0.25 U	0.25 U	0.21 U	0.22 U	0.21 U	0.24 U
Carbon tetrachloride	mg/kg	0.045 U	0.043 U	2.1 U	0.11 U	0.34 U	0.042 U	0.05 U	0.049 U	0.042 U	0.044 U	0.042 U	0.047 U
Chlorobenzene	mg/kg	0.045 U	0.043 U	2.1 U	0.11 U	0.34 U	0.042 U	0.05 U	0.049 U	0.042 U	0.044 U	0.042 U	0.047 U
Chloroethane	mg/kg	0.23 U	0.21 U	11 U	0.57 U	1.7 U	0.21 U	0.25 U	0.25 U	0.21 U	0.22 U	0.21 U	0.24 U
Chloroform (Trichloromethane)	mg/kg	0.045 U	0.043 U	2.1 U	0.11 U	0.34 U	0.042 U	0.05 U	0.049 U	0.042 U	0.044 U	0.042 U	0.047 U
Chloromethane (Methyl chloride)	mg/kg	0.23 U	0.21 U	11 U	0.57 U	1.7 U	0.21 U	0.25 U	0.25 U	0.21 U	0.22 U	0.21 U	0.24 U
cis-1,2-Dichloroethene	mg/kg	0.039 J	0.043 U	2.6 ^f	0.069 J	0.31 J	0.099	0.2	0.049 U	0.082	0.044 U	0.092	0.14
cis-1,3-Dichloropropene	mg/kg	0.045 U	0.043 U	2.1 U	0.11 U	0.34 U	0.042 U	0.05 U	0.049 U	0.042 U	0.044 U	0.042 U	0.047 U
Cyclohexane	mg/kg	1.1 U	1 U	51 U	2.7 U	8.2 U	1 U	1.2 U	1.2 U	1 U	1.1 U	1 U	1.1 U
Dibromochloromethane	mg/kg	0.045 U	0.043 U	2.1 U	0.11 U	0.34 U	0.042 U	0.05 U	0.049 U	0.042 U	0.044 U	0.042 U	0.047 U
Dichlorodifluoromethane (CFC-12)	mg/kg	0.09 U	0.085 U	4.3 U	0.23 U	0.68 U	0.085 U	0.099 U	0.098 U	0.083 U	0.088 U	0.083 U	0.094 U
Ethylbenzene	mg/kg	0.045 U	0.043 U	2.1 U	0.11 U	0.34 U	0.042 U	0.05 U	0.049 U	0.042 U	0.044 U	0.042 U	0.047 U
Isopropyl benzene	mg/kg	0.23 U	0.21 U	11 U	0.57 U	1.7 U	0.21 U	0.25 U	0.25 U	0.21 U	0.22 U	0.21 U	0.24 U
Methyl acetate	mg/kg	1.1 U	1 U	51 U	2.7 U	8.2 U	1 U	1.2 U	1.2 U	1 U	1.1 U	1 U	1.1 U
Methyl cyclohexane	mg/kg	1.1 U	1 U	51 U	2.7 U	8.2 U	1 U	1.2 U	1.2 U	1 U	1.1 U	1 U	1.1 U
Methyl tert butyl ether (MTBE)	mg/kg	0.23 U	0.21 U	11 U	0.57 U	1.7 U	0.21 U	0.25 U	0.25 U	0.21 U	0.22 U	0.21 U	0.24 U
Methylene chloride	mg/kg	0.23 U	0.21 U	11 U	0.57 U	1.7 U	0.21 U	0.25 U	0.25 U	0.21 U	0.22 U	0.21 U	0.094 J
Styrene	mg/kg	0.045 U	0.043 U	2.1 U	0.11 U	0.34 U	0.042 U	0.05 U	0.049 U	0.042 U	0.044 U	0.042 U	0.047 U
Tetrachloroethene	mg/kg	0.045 U	0.043 U	2.1 U	0.11 U	0.34 U	0.042 U	0.05 U	0.049 U	0.042 U	0.044 U	0.042 U	0.047 U
Toluene	mg/kg	0.09 U	0.085 U	4.3 U	0.23 U	0.68 U	0.085 U	0.099 U	0.098 U	0.083 U	0.088 U	0.083 U	0.094 U
trans-1,2-Dichloroethene	mg/kg	0.045 U	0.043 U	2.1 U	0.11 U	0.34 U	0.042 U	0.05 U	0.049 U	0.042 U	0.044 U	0.042 U	0.047 U
trans-1,3-Dichloropropene	mg/kg	0.045 U	0.043 U	2.1 U	0.11 U	0.34 U	0.042 U	0.05 U	0.049 U	0.042 U	0.044 U	0.042 U	0.047 U
Trichloroethene	mg/kg	1.2 ^f	3.6 ^{fe}	170 ^{bcdfej}	7.7 ^{fej}	13 ^{fej}	3.2 ^{fe}	3.6 ^{fe}	0.33 ^f	2.5 ^{fe}	0.093	3.7 ^{fe}	2.7 ^{fe}
Trichlorofluoromethane (CFC-11)	mg/kg	0.09 U	0.085 U	4.3 U	0.23 U	0.68 U	0.085 U	0.099 U	0.098 U	0.083 U	0.088 U	0.083 U	0.094 U
Trifluorotrichloroethane (Freon 113)	mg/kg	0.23 U	0.21 U	11 U	0.57 U	1.7 U	0.21 U	0.25 U	0.25 U	0.21 U	0.22 U	0.21 U	0.24 U
Vinyl chloride	mg/kg	0.036 U	0.034 U	1.7 U	0.091 U	0.27 U	0.034 U	0.04 U	0.039 U	0.033 U	0.035 U	0.033 U	0.038 U
Xylenes (total)	mg/kg	0.14 U	0.13 U	6.4 U	0.34 U	1 U	0.037 J	0.036 J	0.011 J	0.011 J	0.13 U	0.019 J	0.14 U
SVOCs													
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	mg/kg	0.3 U	1.1 U	1.4 U	0.3 U	1.1 U	0.7 U	0.33 U	0.33 U	6.9 U	0.29 U	0.28 U	0.32 U
2,4,5-Trichlorophenol	mg/kg	0.3 U	1.1 U	1.4 U	0.3 U	1.1 U	0.7 U	0.33 U	0.33 U	6.9 U	0.29 U	0.28 U	0.32 U
2,4,6-Trichlorophenol	mg/kg	0.3 U	1.1 U	1.4 U	0.3 U	1.1 U	0.7 U	0.33 U	0.33 U	6.9 U	0.29 U	0.28 U	0.32 U
2,4-Dichlorophenol	mg/kg	0.3 U	1.1 U	1.4 U	0.3 U	1.1 U	0.7 U	0.33 U	0.33 U	6.9 U	0.29 U	0.28 U	0.32 U
2,4-Dimethylphenol	mg/kg	0.3 U	1.1 U	1.4 U	0.3 U	1.1 U	0.7 U	0.33 U	0.33 U	6.9 U	0.29 U	0.28 U	0.32 U
2,4-Dinitrophenol	mg/kg	0.17 U	0.64 U	0.8 U	0.17 U	0.65 U	0.4 U	0.19 U	0.19 U	3.9 U	0.16 U	0.16 U	0.18 U
2,4-Dinitrotoluene	mg/kg	0.3 U	1.1 U	1.4 U	0.3 U	1.1 U	0.7 U	0.33 U	0.33 U	6.9 U	0.29 U	0.28 U	0.32 U
2,6-Dinitrotoluene	mg/kg	0.3 U	1.1 U	1.4 U	0.3 U	1.1 U	0.7 U	0.33 U	0.33 U	6.9 U	0.29 U	0.28 U	0.32 U
2-Chloronaphthalene	mg/kg	0.3 U	1.1 U	1.4 U	0.3 U	1.1 U	0.7 U	0.33 U	0.33 U	6.9 U	0.29 U	0.28 U	0.32 U
2-Chlorophenol	mg/kg	0.3 U	1.1 U	1.4 U	0.3 U	1.1 U	0.7 U	0.33 U	0.33 U	6.9 U	0.29 U	0.28 U	0.32 U
2-Methylnaphthalene	mg/kg	0.3 U	1.1 U	0.027 J	0.3 U	1.1 U	0.7 U	0.33 U	0.33 U	0.26 J	0.29 U	0.28 U	0.32 U

TABLE 1.1
SOIL ANALYTICAL RESULTS SUMMARY
AUGUST 2013-NOVEMBER 2013
FORMER COMPANY VEHICLE OPERATIONS AREA
YPSILANTI, MICHIGAN

PAOC														
Sample Location:	SB19-104	SB19-105	SB19-106	SB19-107	SB19-108	SB19-109	SB19-110	SB19-111	SB19-112	SB19-111	SB19-107	SB19-102	SB19-103	
Sample Depth:	0-2 ft BGS	0-2 ft BGS	0-2 ft BGS	0-2 ft BGS	0-2 ft BGS	0-2 ft BGS	0-2 ft BGS	0-2 ft BGS	0-2 ft BGS	2-3.7 ft BGS	2-4.5 ft BGS	2-5 ft BGS	2-5 ft BGS	
Sample ID:	S-17303-110613-CT-009	S-17303-110613-CT-013	S-17303-110613-CT-016	S-17303-110613-CT-018	S-17303-110613-CT-021	S-17303-110613-CT-023	S-17303-110613-CT-026	S-17303-110613-CT-030	S-17303-110613-CT-033	S-17303-110613-CT-031	S-17303-110613-CT-019	S-17303-110613-CT-002	S-17303-110613-CT-006	
Sample Date:	11/06/2013	11/06/2013	11/06/2013	11/06/2013	11/06/2013	11/06/2013	11/06/2013	11/06/2013	11/06/2013	11/06/2013	11/06/2013	11/06/2013	11/06/2013	
Sample Type:														
Parameters	Units													
2-Methylphenol	mg/kg	0.3 U	1.1 U	1.4 U	0.3 U	1.1 U	0.7 U	0.33 U	0.33 U	6.9 U	0.29 U	0.28 U	0.28 U	0.32 U
2-Nitroaniline	mg/kg	0.22 U	0.86 U	1.1 U	0.23 U	0.87 U	0.53 U	0.25 U	0.25 U	5.2 U	0.22 U	0.21 U	0.21 U	0.24 U
2-Nitrophenol	mg/kg	0.3 U	1.1 U	1.4 U	0.3 U	1.1 U	0.7 U	0.33 U	0.33 U	6.9 U	0.29 U	0.28 U	0.28 U	0.32 U
3&4-Methylphenol	mg/kg	0.3 U	1.1 U	1.4 U	0.3 U	1.1 U	0.7 U	0.33 U	0.33 U	6.9 U	0.29 U	0.28 U	0.28 U	0.32 U
3,3'-Dichlorobenzidine	mg/kg	0.3 U	1.1 U	1.4 U	0.3 U	1.1 U	0.7 U	0.33 U	0.33 U	6.9 U	0.29 U	0.28 U	0.28 U	0.32 U
3-Nitroaniline	mg/kg	0.22 U	0.86 U	1.1 U	0.23 U	0.87 U	0.53 U	0.25 U	0.25 U	5.2 U	0.22 U	0.21 U	0.21 U	0.24 U
4,6-Dinitro-2-methylphenol	mg/kg	0.22 U	0.86 U	1.1 U	0.23 U	0.87 U	0.53 U	0.25 U	0.25 U	5.2 U	0.22 U	0.21 U	0.21 U	0.24 U
4-Bromophenyl phenyl ether	mg/kg	0.17 U	0.64 U	0.8 U	0.17 U	0.65 U	0.4 U	0.19 U	0.19 U	3.9 U	0.16 U	0.16 U	0.16 U	0.18 U
4-Chloro-3-methylphenol	mg/kg	0.3 U	1.1 U	1.4 U	0.3 U	1.1 U	0.7 U	0.33 U	0.33 U	6.9 U	0.29 U	0.28 U	0.28 U	0.32 U
4-Chloroaniline	mg/kg	0.3 U	1.1 U	1.4 U	0.3 U	1.1 U	0.7 U	0.33 U	0.33 U	6.9 U	0.29 U	0.28 U	0.28 U	0.32 U
4-Chlorophenyl phenyl ether	mg/kg	0.22 U	0.86 U	1.1 U	0.23 U	0.87 U	0.53 U	0.25 U	0.25 U	5.2 U	0.22 U	0.21 U	0.21 U	0.24 U
4-Nitroaniline	mg/kg	0.22 U	0.86 U	1.1 U	0.23 U	0.87 U	0.53 U	0.25 U	0.25 U	5.2 U	0.22 U	0.21 U	0.21 U	0.24 U
4-Nitrophenol	mg/kg	0.37 U	1.4 U	1.8 U	0.38 U	1.4 U	0.88 U	0.42 U	0.41 U	8.6 U	0.36 U	0.35 U	0.35 U	0.4 U
Acenaphthene	mg/kg	0.3 U	1.1 U	0.1 J	0.3 U	1.1 U	0.045 J	0.33 U	0.33 U	3.4 J	0.29 U	0.28 U	0.28 U	0.32 U
Acenaphthylene	mg/kg	0.0042 J	1.1 U	1.4 U	0.3 U	1.1 U	0.05 J	0.33 U	0.33 U	6.9 U	0.29 U	0.28 U	0.28 U	0.32 U
Acetophenone	mg/kg	0.3 U	1.1 U	1.4 U	0.3 U	1.1 U	0.7 U	0.33 U	0.33 U	6.9 U	0.29 U	0.28 U	0.28 U	0.32 U
Anthracene	mg/kg	0.0061 J	0.044 J	0.21 J	0.3 U	1.1 U	0.22 J	0.0096 J	0.33 U	4.8 J	0.29 U	0.28 U	0.28 U	0.32 U
Atrazine	mg/kg	0.045 U	0.17 U	0.21 U	0.046 U	0.17 U	0.11 U	0.05 U	0.05 U	1 U	0.044 U	0.042 U	0.042 U	0.048 U
Benzaldehyde	mg/kg	0.3 U*	1.1 U*	0.3 J*	0.3 U*	1.1 U*	0.7 U*	0.33 U*	0.33 U*	6.9 U*	0.29 U*	0.28 U*	0.28 U*	0.32 U*
Benzo(a)anthracene	mg/kg	0.034 J	0.2 J	0.72 J	0.01 J	1.1 U	1.2	0.062 J	0.33 U	12	0.023 J	0.0083 J	0.28 U	0.32 U
Benzo(a)pyrene	mg/kg	0.04 J	0.19 J	0.67 J	0.011 J	1.1 U	1.1	0.084 J	0.33 U	11 ^e	0.025 J	0.0065 J	0.28 U	0.32 U
Benzo(b)fluoranthene	mg/kg	0.057 J	0.31 J	1 J	0.014 J	0.021 J	1.6	0.12 J	0.33 U	15	0.036 J	0.0091 J	0.28 U	0.32 U
Benzo(g,h,i)perylene	mg/kg	0.031 J	0.15 J	0.39 J	0.029 J	1.1 U	0.89	0.081 J	0.33 U	7.4	0.027 J	0.28 U	0.28 U	0.32 U
Benzo(k)fluoranthene	mg/kg	0.019 J	0.081 J	0.39 J	0.0058 J	1.1 U	0.64 J	0.044 J	0.33 U	5.6 J	0.017 J	0.004 J	0.28 U	0.32 U
Biphenyl (1,1-Biphenyl)	mg/kg	0.3 U	1.1 U	1.4 U	0.3 U	1.1 U	0.7 U	0.33 U	0.33 U	0.093 J	0.29 U	0.28 U	0.28 U	0.32 U
bis(2-Chloroethoxy)methane	mg/kg	1.1 U	1.1 U	1.4 U	0.3 U	1.1 U	0.7 U	0.33 U	0.33 U	6.9 U	0.29 U	0.28 U	0.28 U	0.32 U
bis(2-Chloroethyl)ether	mg/kg	0.09 U	0.34 U	0.43 U	0.092 U	0.35 U	0.21 U	0.1 U	0.1 U	2.1 U	0.087 U	0.085 U	0.085 U	0.096 U
bis(2-Ethylhexyl)phthalate (DEHP)	mg/kg	0.03 J	1.1 U	1.4 U	0.3 U	1.1 U	0.7 U	0.33 U	0.33 U	6.9 U	0.29 U	0.28 U	0.025 J	0.029 J
Butyl benzylphthalate (BBP)	mg/kg	0.3 U	1.1 U	1.4 U	0.3 U	1.1 U	0.7 U	0.33 U	0.33 U	6.9 U	0.29 U	0.28 U	0.28 U	0.32 U
Caprolactam	mg/kg	0.046 J	1.1 U	1.4 U	0.3 U	1.1 U	0.7 U	0.33 U	0.33 U	6.9 U	0.29 U	0.28 U	0.28 U	0.32 U
Carbazole	mg/kg	0.3 U	1.1 U	1.4 U	0.3 U	1.1 U	0.7 U	0.33 U	0.33 U	3.9 J ⁱ	0.29 U	0.28 U	0.28 U	0.32 U
Chrysene	mg/kg	0.042 J	0.23 J	0.76 J	0.011 J	1.1 U	1.3	0.079 J	0.33 U	13	0.024 J	0.0071 J	0.28 U	0.32 U
Dibenz(a,h)anthracene	mg/kg	0.3 U	1.1 U	1.4 U	0.3 U	1.1 U	0.21 J	0.33 U	0.33 U	2 J	0.29 U	0.28 U	0.28 U	0.32 U
Dibenzofuran	mg/kg	0.3 U	1.1 U	0.07 J	0.3 U	1.1 U	0.018 J	0.33 U	0.33 U	2.2 J ⁱ	0.29 U	0.28 U	0.28 U	0.32 U
Diethyl phthalate	mg/kg	0.3 U	1.1 U	1.4 U	0.3 U	1.1 U	0.7 U	0.33 U	0.33 U	6.9 U	0.29 U	0.28 U	0.28 U	0.32 U
Dimethyl phthalate	mg/kg	0.3 U	1.1 U	1.4 U	0.3 U	1.1 U	0.7 U	0.33 U	0.33 U	6.9 U	0.29 U	0.28 U	0.28 U	0.32 U
Di-n-butylphthalate (DBP)	mg/kg	0.02 JB	0.17 JB	5.4 B	0.021 J	0.074 J	0.11 J	0.024 J	0.33 U	6.9 U	0.019 J	0.28 U	0.018 JB	0.018 JB
Di-n-octyl phthalate (DnOP)	mg/kg	0.3 U	1.1 U	1.4 U	0.3 U	1.1 U	0.7 U	0.33 U	0.33 U	6.9 U	0.29 U	0.28 U	0.28 U	0.32 U
Fluoranthene	mg/kg	0.071 J	0.47 J	1.7	0.017 J	1.1 U	2.8	0.14 J	0.33 U	36 ⁱ	0.044 J	0.012 J	0.28 U	0.32 U
Fluorene	mg/kg	0.3 U	0.015 J	0.11 J	0.3 U	1.1 U	0.044 J	0.33 U	0.33 U	3.4 J	0.29 U	0.28 U	0.28 U	0.32 U
Hexachlorobenzene	mg/kg	0.3 U	1.1 U	1.4 U	0.3 U	1.1 U	0.7 U	0.33 U	0.33 U	6.9 U	0.29 U	0.28 U	0.28 U	0.32 U
Hexachlorobutadiene	mg/kg	0.045 U	0.17 U	0.21 U	0.046 U	0.17 U	0.11 U	0.05 U	0.05 U	1 U	0.044 U	0.042 U	0.042 U	0.048 U
Hexachlorocyclopentadiene	mg/kg	0.3 U	1.1 U	1.4 U	0.3 U	1.1 U	0.7 U	0.33 U	0.33 U	6.9 U	0.29 U	0.28 U	0.28 U	0.32 U
Hexachloroethane	mg/kg	0.3 U	1.1 U	1.4 U	0.3 U	1.1 U	0.7 U	0.33 U	0.33 U	6.9 U	0.29 U	0.28 U	0.28 U	0.32 U
Indeno(1,2,3-cd)pyrene	mg/kg	0.023 J	0.12 J	0.37 J	0.011 J	1.1 U	0.75	0.065 J	0.33 U	6.5 J	0.02 J	0.28 U	0.28 U	0.32 U
Isophorone	mg/kg	0.3 U	1.1 U	1.4 U	0.3 U	1.1 U	0.7 U	0.33 U	0.33 U	6.9 U	0.29 U	0.28 U	0.28 U	0.32 U
Naphthalene	mg/kg	0.3 U	1.1 U	0.044 J	0.3 U	1.1 U	0.7 U	0.33 U	0.33 U	0.36 J	0.29 U	0.28 U	0.28 U	0.32 U
Nitrobenzene	mg/kg	0.3 U	1.1 U	1.4 U	0.3 U	1.1 U	0.7 U	0.33 U	0.33 U	6.9 U	0.29 U	0.28 U	0.28 U	0.32 U
N-Nitrosodi-n-propylamine	mg/kg	0.3 U	1.1 U	1.4 U	0.3 U	1.1 U	0.7 U	0.33 U	0.33 U	6.9 U	0.29 U	0.28 U	0.28 U	0.32 U
N-Nitrosodiphenylamine	mg/kg	0.3 U	1.1 U	1.4 U	0.3 U	1.1 U	0.7 U	0.33 U	0.33 U	6.9 U	0.29 U	0.28 U	0.28 U	0.32 U
Pentachlorophenol	mg/kg	0.17 U	0.64 U	0.8 U	0.17 U	0.65 U	0.4 U	0.19 U	0.19 U	3.9 U	0.16 U	0.16 U	0.16 U	0.18 U
Phenanthrene	mg/kg	0.026 J	0.27 J	1.3 J	0.3 U	1.1 U	1.1	0.055 J	0.33 U	36 ⁱ	0.017 J	0.0061 J	0.28 U	0.32 U
Phenol	mg/kg	0.3 U	1.1 U	1.4 U	0.3 U	1.1 U	0.7 U	0.33 U	0.33 U	6.9 U	0.29 U	0.28 U	0.28 U	0.32 U
Pyrene	mg/kg	0.064 J	0.4 J	1.5	0.018 J	1.1 U	2.1	0.12 J	0.33 U	27	0.043 J	0.012 J	0.28 U	0.32 U
Metals														
Antimony	mg/kg	0.74	7.6 ⁱ	330 ^j	0.28 JB	3.0 B	1.2 B	0.36 B	1.5 B	0.37 B	0.47 B	0.11 JB	0.30	0.11 J
Arsenic	mg/kg	3.5 B	3.6 B	4.8 B	3.5 B	3.2 B	3.9 B	3.0 B	5.0 B	3.4 B	4.0 B	3.2 B	2.9 B	2.6 B
Barium	mg/kg	11 B	64 B	380 B	8.5 B	14 B	31 B	9.6 B	11 B	12 B	8.1 B	8.8 B	12 B	7.9 B
Beryllium	mg/kg	0.13 J	0.14 J	0.14 J	0.11 J	0.13 J	0.19	0.099 J	0.13 J	0.15	0.13 J	0.14 J	0.15	0.14 J
Cadmium	mg/kg	0.15	1.5	2	0.12	0.59	0.42	0.15	0.27	0.14	0.34	0.056 J	0.050 J	0.040 J
Chromium	mg/kg	21 ⁱ	130 ^j	1100 ^{hj}	6.5	37 ^j	24 ^j	23 ^j	8.5	8	18	6	6	10
Chromium VI (hexavalent)	mg/kg	4.4 B ^j	--	330 B ^{hj}	0.91 U	2.5 B	--	6.3 B ⁱ	--	--	--	0.83 U	0.84 U	--
Cobalt	mg/kg	2.3	2.7	4.4	2.4	2.8	3.1	2.2	2.5	2.8	2.3	2.4	2.4	2.7

TABLE 1.1
SOIL ANALYTICAL RESULTS SUMMARY
AUGUST 2013-NOVEMBER 2013
FORMER COMPANY VEHICLE OPERATIONS AREA
YPSILANTI, MICHIGAN

PAOC														
Sample Location:	SB19-104	SB19-105	SB19-106	SB19-107	SB19-108	SB19-109	SB19-110	SB19-111	SB19-112	SB19-111	SB19-107	SB19-102	SB19-103	
Sample Depth:	0-2 ft BGS	0-2 ft BGS	0-2 ft BGS	0-2 ft BGS	0-2 ft BGS	0-2 ft BGS	0-2 ft BGS	0-2 ft BGS	0-2 ft BGS	2-3.7 ft BGS	2-4.5 ft BGS	2-5 ft BGS	2-5 ft BGS	
Sample ID:	S-17303-110613-CT-009	S-17303-110613-CT-013	S-17303-110613-CT-016	S-17303-110613-CT-018	S-17303-110613-CT-021	S-17303-110613-CT-023	S-17303-110613-CT-026	S-17303-110613-CT-030	S-17303-110613-CT-033	S-17303-110613-CT-031	S-17303-110613-CT-019	S-17303-110613-CT-002	S-17303-110613-CT-006	
Sample Date:	11/06/2013	11/06/2013	11/06/2013	11/06/2013	11/06/2013	11/06/2013	11/06/2013	11/06/2013	11/06/2013	11/06/2013	11/06/2013	11/06/2013	11/06/2013	
Sample Type:														
Parameters	Units													
Copper	mg/kg	5.6	8.1	13	6.1	6.7	8.3	5.2	6.6	6.7	5.6	4.7	4.2	4.1
Lead	mg/kg	5.5	51	130	5.8	12	34	4.7	5.5	5.5	4.6	3.0	3.0	2.6
Manganese	mg/kg	150 B	140 B	160 B	130 B	140 B	210 B	120 B	130 B	150 B	120 B	140 B	340 B	210 B
Mercury	mg/kg	0.051 U	0.027 J	0.032 J	0.042 U	0.048 U	0.045 U	0.047 U	0.053 U	0.045 U	0.041 U	0.040 U	0.036 U	0.050 U
Nickel	mg/kg	6.0	6.4	7.5	6.0	6.3	8.7	5.7	6.3	7.3	6.1	5.7	6.2	6.6
Selenium	mg/kg	0.38	0.51 ¹	0.45 ¹	0.37	0.43 ¹	0.47 ¹	0.33	0.43 ¹	0.38	0.35	0.33	0.44 ¹	0.33
Silver	mg/kg	0.0086 J	0.17	0.15 J	0.0099 J	0.45	0.036 J	0.019 J	0.0064 J	0.013 J	0.0083 J	0.0063 J	0.0083 J	0.0047 J
Thallium	mg/kg	0.083 J	0.072 J	0.12 J	0.11 J	0.081 J	0.091 J	0.087 J	0.083 J	0.11 J	0.073 J	0.061 J	0.078 J	0.052 J
Vanadium	mg/kg	8.5	8.1	9.2	7.1	9.5	10	7.6	8.9	10	8.8	7.9	9.2	8.0
Zinc	mg/kg	39	260	1800 ¹	26	80	84	32	31	32	44	22	14	12
PCBs														
Aroclor-1016 (PCB-1016)	mg/kg	0.3 U	--	0.17 U	0.3 U	0.36 U	--	0.081 U	--	--	--	0.27 U	0.27 U	--
Aroclor-1221 (PCB-1221)	mg/kg	0.3 U	--	0.17 U	0.3 U	0.36 U	--	0.081 U	--	--	--	0.27 U	0.27 U	--
Aroclor-1232 (PCB-1232)	mg/kg	0.3 U	--	0.17 U	0.3 U	0.36 U	--	0.081 U	--	--	--	0.27 U	0.27 U	--
Aroclor-1242 (PCB-1242)	mg/kg	0.3 U	--	0.17 U	0.3 U	0.36 U	--	0.081 U	--	--	--	0.27 U	0.27 U	--
Aroclor-1248 (PCB-1248)	mg/kg	0.3 U	--	0.17 U	0.3 U	0.36 U	--	0.081 U	--	--	--	0.27 U	0.27 U	--
Aroclor-1254 (PCB-1254)	mg/kg	0.3 U	--	0.17 U	0.3 U	0.36 U	--	0.081 U	--	--	--	0.27 U	0.27 U	--
Aroclor-1260 (PCB-1260)	mg/kg	0.16 J	--	0.82	0.088 J	1.9	--	0.52	--	--	--	0.27 U	0.27 U	--
Total PCBs	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--

Footnotes:
The analytical data is compared to the Michigan Part 201 generic cleanup criteria developed by the MDEQ under the authority of the Natural Resources and Environmental Protection Act (1994 PA 451, as amended).
Environmental Protection Act (1994 PA 451, as amended).
U-Not detected at the associated reporting limit.
J-Estimated concentration.
¹ Samples collected from SB19-57A, SB19-59A, SG19-10A were composite of soils and paint sludge within the interval indicated above.

TABLE 1.1
SOIL ANALYTICAL RESULTS SUMMARY
AUGUST 2013-NOVEMBER 2013
FORMER COMPANY VEHICLE OPERATIONS AREA
YPSILANTI, MICHIGAN

Sample Location:		SB19-104	SB19-105	SB19-109	SB19-110	SB19-112	SB19-59A [†]	SB19-113	SB19-57A [†]	SB19-102	SB19-103	SB19-104	SB19-110	SB19-112
Sample Depth:		2-5 ft BGS	2-5 ft BGS	2-5 ft BGS	2-5 ft BGS	2-5 ft BGS	3.1-7.6 ft BGS	3.5-5 ft BGS	3.9-8.9 ft BGS	5-8 ft BGS	5-8 ft BGS	5-8 ft BGS	5-8 ft BGS	5-8 ft BGS
Sample ID:		S-17303-110613-CT-010	S-17303-110613-CT-014	S-17303-110613-CT-024	S-17303-110613-CT-027	S-17303-110613-CT-034	SO-17303-080813-DR-002	S-17303-110613-CT-038	SO-17303-080813-DR-004	S-17303-110613-CT-003	S-17303-110613-CT-007	S-17303-110613-CT-011	S-17303-110613-CT-028	S-17303-110613-CT-035
Sample Date:		11/06/2013	11/06/2013	11/06/2013	11/06/2013	11/06/2013	08/08/2013	11/06/2013	08/08/2013	11/06/2013	11/06/2013	11/06/2013	11/06/2013	11/06/2013
Sample Type:														
Parameters		Units												
VOCs														
1,1,1-Trichloroethane	mg/kg	0.35 U	0.046 U	0.86 U	0.2 U	0.043 U	0.17 U	0.049 U	23 U	0.044 U	0.75 U	0.045 U	0.35 U	0.05 U
1,1,2,2-Tetrachloroethane	mg/kg	0.35 U	0.046 U	0.86 U	0.2 U	0.043 U	0.38	0.049 U	23 U	0.044 U	0.75 U	0.045 U	0.35 U	0.05 U
1,1,2-Trichloroethane	mg/kg	0.35 U	0.046 U	0.86 U	0.2 U	0.043 U	0.39 ^f	0.049 U	8.1 J ^{fi}	0.018 J	0.75 U	0.045 U	0.35 U	0.05 U
1,1-Dichloroethane	mg/kg	0.35 U	0.046 U	0.86 U	0.2 U	0.043 U	0.17 U	0.049 U	23 U	0.044 U	0.75 U	0.045 U	0.35 U	0.05 U
1,1-Dichloroethene	mg/kg	0.35 U	0.046 U	0.86 U	0.2 U	0.043 U	0.17 U	0.049 U	23 U	0.044 U	0.75 U	0.045 U	0.35 U	0.05 U
1,2,4-Trichlorobenzene	mg/kg	1.7 U	0.23 U	4.3 U	0.99 U	0.21 U	0.84 U	0.25 U	120 U	0.22 U	3.7 U	0.23 U	1.8 U	0.25 U
1,2-Dibromo-3-chloropropane (DBCP)	mg/kg	1.7 U	0.23 U	4.3 U	0.99 U	0.21 U	0.84 U	0.25 U	120 U	0.22 U	3.7 U	0.23 U	1.8 U	0.25 U
1,2-Dibromoethane (Ethylene dibromide)	mg/kg	1.7 U	0.23 U	4.3 U	0.99 U	0.21 U	0.84 U	0.25 U	120 U	0.22 U	3.7 U	0.23 U	1.8 U	0.25 U
1,2-Dichlorobenzene	mg/kg	0.69 U	0.091 U	1.7 U	0.4 U	0.086 U	0.093 J	0.099 U	46 U	0.088 U	1.5 U	0.09 U	0.71 U	0.099 U
1,2-Dichloroethane	mg/kg	0.35 U	0.046 U	0.86 U	0.2 U	0.043 U	0.17 U	0.049 U	23 U	0.044 U	0.75 U	0.045 U	0.35 U	0.05 U
1,2-Dichloropropane	mg/kg	0.35 U	0.046 U	0.86 U	0.2 U	0.043 U	0.17 U	0.049 U	23 U	0.044 U	0.75 U	0.045 U	0.35 U	0.05 U
1,3-Dichlorobenzene	mg/kg	0.69 U	0.091 U	1.7 U	0.4 U	0.086 U	0.34 U	0.099 U	46 U	0.088 U	1.5 U	0.09 U	0.71 U	0.099 U
1,4-Dichlorobenzene	mg/kg	0.69 U	0.091 U	1.7 U	0.4 U	0.086 U	0.34 U	0.099 U	46 U	0.088 U	1.5 U	0.09 U	0.71 U	0.099 U
2-Butanone (Methyl ethyl ketone) (MEK)	mg/kg	5.2 U	0.68 U	13 U	3 U	0.64 U	2.5 U	0.74 U	350 U	0.66 U	11 U	0.68 U	5.3 U	0.74 U
2-Hexanone	mg/kg	17 U	2.3 U	43 U	9.9 U	2.1 U	8.4 U	2.5 U	1200 U	2.2 U	37 U	2.3 U	18 U	2.5 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	mg/kg	17 U	2.3 U	43 U	9.9 U	2.1 U	8.4 U	2.5 U	1200 U	2.2 U	37 U	2.3 U	18 U	2.5 U
Acetone	mg/kg	5.2 U	0.68 U	13 U	3 U	0.64 U	2.5 U	0.33 JB	350 U	0.66 U	11 U	0.68 U	5.3 U	0.74 U
Benzene	mg/kg	0.35 U	0.046 U	0.86 U	0.2 U	0.043 U	0.17 U	0.049 U	10 J ^{fej}	0.044 U	0.75 U	0.045 U	0.35 U	0.05 U
Bromodichloromethane	mg/kg	0.69 U	0.091 U	1.7 U	0.4 U	0.086 U	0.34 U	0.099 U	46 U	0.088 U	1.5 U	0.09 U	0.71 U	0.099 U
Bromoform	mg/kg	0.69 U	0.091 U	1.7 U	0.4 U	0.086 U	0.34 U	0.099 U	46 U	0.088 U	1.5 U	0.09 U	0.71 U	0.099 U
Bromomethane (Methyl bromide)	mg/kg	1.7 U	0.23 U	4.3 U	0.99 U	0.21 U	0.84 U	0.25 U	120 U	0.22 U	3.7 U	0.23 U	1.8 U	0.25 U
Carbon disulfide	mg/kg	1.7 U	0.23 U	4.3 U	0.99 U	0.21 U	0.84 U	0.25 U	120 U	0.22 U	3.7 U	0.23 U	1.8 U	0.25 U
Carbon tetrachloride	mg/kg	0.35 U	0.046 U	0.86 U	0.2 U	0.043 U	0.17 U	0.049 U	23 U	0.044 U	0.75 U	0.045 U	0.35 U	0.05 U
Chlorobenzene	mg/kg	0.35 U	0.046 U	0.86 U	0.2 U	0.043 U	0.17 U	0.049 U	23 U	0.044 U	0.75 U	0.045 U	0.35 U	0.05 U
Chloroethane	mg/kg	1.7 U	0.23 U	4.3 U	0.99 U	0.21 U	0.84 U	0.25 U	120 U	0.22 U	3.7 U	0.23 U	1.8 U	0.25 U
Chloroform (Trichloromethane)	mg/kg	0.35 U	0.046 U	0.86 U	0.2 U	0.043 U	0.17 U	0.049 U	23 U	0.044 U	0.75 U	0.045 U	0.35 U	0.05 U
Chloromethane (Methyl chloride)	mg/kg	1.7 U	0.23 U	4.3 U	0.99 U	0.21 U	0.84 U	0.25 U	120 U	0.22 U	3.7 U	0.23 U	1.8 U	0.25 U
cis-1,2-Dichloroethene	mg/kg	0.57	0.046 U	8.5 ^f	1.2	0.26	0.56	0.14	770 ^{cdefgijk}	0.72	3.2 ^f	0.023 J	15 ^{fi}	3.5 ^f
cis-1,3-Dichloropropene	mg/kg	0.35 U	0.046 U	0.86 U	0.2 U	0.043 U	0.17 U	0.049 U	23 U	0.044 U	0.75 U	0.045 U	0.35 U	0.05 U
Cyclohexane	mg/kg	8.3 U	1.1 U	21 U	4.8 U	1 U	4 U	1.2 U	550 U	1.1 U	18 U	1.1 U	8.5 U	1.2 U
Dibromochloromethane	mg/kg	0.35 U	0.046 U	0.86 U	0.2 U	0.043 U	0.17 U	0.049 U	23 U	0.044 U	0.75 U	0.045 U	0.35 U	0.05 U
Dichlorodifluoromethane (CFC-12)	mg/kg	0.69 U	0.091 U	1.7 U	0.4 U	0.086 U	0.34 U	0.099 U	46 U	0.088 U	1.5 U	0.09 U	0.71 U	0.099 U
Ethylbenzene	mg/kg	0.35 U	0.046 U	0.86 U	0.2 U	0.043 U	1.1 ^j	0.049 U	80 ^{fi}	0.044 U	0.75 U	0.045 U	0.35 U	0.05 U
Isopropyl benzene	mg/kg	1.7 U	0.23 U	4.3 U	0.99 U	0.21 U	1.2	0.25 U	13 J ^j	0.22 U	3.7 U	0.23 U	1.8 U	0.25 U
Methyl acetate	mg/kg	8.3 U	1.1 U	21 U	4.8 U	1 U	0.18 J	1.2 U	550 U	0.047 J	18 U	0.042 J	8.5 U	0.04 J
Methyl cyclohexane	mg/kg	8.3 U	1.1 U	21 U	4.8 U	1 U	0.24 J	1.2 U	19 J	1.1 U	18 U	1.1 U	8.5 U	1.2 U
Methyl tert butyl ether (MTBE)	mg/kg	1.7 U	0.23 U	4.3 U	0.99 U	0.21 U	0.84 U	0.25 U	120 U	0.22 U	3.7 U	0.23 U	1.8 U	0.25 U
Methylene chloride	mg/kg	1.7 U	0.23 U	4.3 U	0.99 U	0.21 U	0.84 U	0.25 U	120 U	0.22 U	3.7 U	0.23 U	1.8 U	0.25 U
Styrene	mg/kg	0.35 U	0.046 U	0.86 U	0.2 U	0.043 U	0.17 U	0.049 U	23 U	0.044 U	0.75 U	0.045 U	0.35 U	0.05 U
Tetrachloroethene	mg/kg	0.35 U	0.046 U	0.86 U	0.2 U	0.043 U	0.36 ^f	0.049 U	23 U	0.044 U	0.75 U	0.045 U	0.35 U	0.05 U
Toluene	mg/kg	0.69 U	0.091 U	1.7 U	0.4 U	0.086 U	0.16 J	0.099 U	70 ^{fi}	0.088 U	1.5 U	0.09 U	0.71 U	0.099 U
trans-1,2-Dichloroethene	mg/kg	0.35 U	0.046 U	0.86 U	0.2 U	0.043 U	0.17 U	0.049 U	23 U	0.044 U	0.75 U	0.045 U	0.35 U	0.05 U
trans-1,3-Dichloropropene	mg/kg	0.35 U	0.046 U	0.86 U	0.2 U	0.043 U	0.17 U	0.049 U	23 U	0.044 U	0.75 U	0.045 U	0.35 U	0.05 U
Trichloroethene	mg/kg	15 ^{dfej}	4.5 ^{fej}	41 ^{cdfeji}	8.9 ^{fej}	3.2 ^{fe}	13 ^{fej}	1.6 ^f	7800 ^{bcdefgijk}	3 ^{fe}	24 ^{dfej}	0.6 ^f	26 ^{cdfeji}	1.5 ^f
Trichlorofluoromethane (CFC-11)	mg/kg	0.69 U	0.091 U	1.7 U	0.4 U	0.086 U	0.34 U	0.099 U	46 U	0.088 U	1.5 U	0.09 U	0.71 U	0.099 U
Trifluorotrichloroethane (Freon 113)	mg/kg	1.7 U	0.23 U	4.3 U	0.99 U	0.21 U	0.84 U	0.25 U	120 U	0.22 U	3.7 U	0.23 U	1.8 U	0.25 U
Vinyl chloride	mg/kg	0.28 U	0.037 U	0.69 U	0.16 U	0.034 U	0.13 U	0.039 U	18 U	0.035 U	0.6 U	0.036 U	0.28 U	0.04 U
Xylenes (total)	mg/kg	1 U	0.14 U	2.6 U	0.59 U	0.0067 J	17 ^{fi}	0.15 U	720 ^{efgijk}	0.13 U	2.2 U	0.14 U	1.1 U	0.15 U
SVOCs														
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	mg/kg	1.1 U	6 U	1.4 U	3.3 U	0.28 U	66 U	0.33 U	62 U	0.29 U	1.5 U	0.3 U	1.2 U	0.32 U
2,4,5-Trichlorophenol	mg/kg	1.1 U	6 U	1.4 U	3.3 U	0.28 U	66 U	0.33 U	62 U	0.29 U	1.5 U	0.3 U	1.2 U	0.32 U
2,4,6-Trichlorophenol	mg/kg	1.1 U	6 U	1.4 U	3.3 U	0.28 U	66 U	0.33 U	62 U	0.29 U	1.5 U	0.3 U	1.2 U	0.32 U
2,4-Dichlorophenol	mg/kg	1.1 U	6 U	1.4 U	3.3 U	0.28 U	66 U	0.33 U	62 U	0.29 U	1.5 U	0.3 U	1.2 U	0.32 U
2,4-Dimethylphenol	mg/kg	1.1 U	6 U	1.4 U	3.3 U	0.28 U	16 J ^j	0.33 U	62 U	0.29 U	1.5 U	0.3 U	1.2 U	0.32 U
2,4-Dinitrophenol	mg/kg	0.65 U	3.4 U	0.82 U	1.9 U	0.16 U	37 U	0.19 U	35 U	0.16 U	0.84 U	0.17 U	0.67 U	0.18 U
2,4-Dinitrotoluene	mg/kg	1.1 U	6 U	1.4 U	3.3 U	0.28 U	66 U	0.33 U	62 U	0.29 U	1.5 U	0.3 U	1.2 U	0.32 U
2,6-Dinitrotoluene	mg/kg	1.1 U	6 U	1.4 U	3.3 U	0.28 U	66 U	0.33 U	62 U	0.29 U	1.5 U	0.3 U	1.2 U	0.32 U
2-Chloronaphthalene	mg/kg	1.1 U	6 U	1.4 U	3.3 U	0.28 U	66 U	0.33 U	62 U	0.29 U	1.5 U	0.3 U	1.2 U	0.32 U
2-Chlorophenol	mg/kg	1.1 U	6 U	1.4 U	3.3 U	0.28 U	66 U	0.33 U	62 U	0.29 U	1.5 U	0.3 U	1.2 U	0.32 U
2-Methylnaphthalene	mg/kg	1.1 U	0.15 J	0.024 J	3.3 U	0.0042 J	97 ^j	0.33 U	7.1 J ^j	0.29 U	1.5 U	0.3 U	1.2 U	0.32 U

TABLE 1.1
SOIL ANALYTICAL RESULTS SUMMARY
AUGUST 2013-NOVEMBER 2013
FORMER COMPANY VEHICLE OPERATIONS AREA
YPSILANTI, MICHIGAN

PAOC														
Sample Location:		SB19-104	SB19-105	SB19-109	SB19-110	SB19-112	SB19-59A [†]	SB19-113	SB19-57A [†]	SB19-102	SB19-103	SB19-104	SB19-110	SB19-112
Sample Depth:		2-5 ft BGS	2-5 ft BGS	2-5 ft BGS	2-5 ft BGS	2-5 ft BGS	3.1-7.6 ft BGS	3.5-5 ft BGS	3.9-8.9 ft BGS	5-8 ft BGS	5-8 ft BGS	5-8 ft BGS	5-8 ft BGS	5-8 ft BGS
Sample ID:		S-17303-110613-CT-010	S-17303-110613-CT-014	S-17303-110613-CT-024	S-17303-110613-CT-027	S-17303-110613-CT-034	SO-17303-080813-DR-002	S-17303-110613-CT-038	SO-17303-080813-DR-004	S-17303-110613-CT-003	S-17303-110613-CT-007	S-17303-110613-CT-011	S-17303-110613-CT-028	S-17303-110613-CT-035
Sample Date:		11/06/2013	11/06/2013	11/06/2013	11/06/2013	11/06/2013	08/08/2013	11/06/2013	08/08/2013	11/06/2013	11/06/2013	11/06/2013	11/06/2013	11/06/2013
Sample Type:														
Parameters		Units												
2-Methylphenol		mg/kg	1.1 U	6 U	1.4 U	3.3 U	3.9 J ⁱ	0.33 U	62 U	0.29 U	1.5 U	0.3 U	1.2 U	0.32 U
2-Nitroaniline		mg/kg	0.87 U	4.5 U	1.1 U	2.5 U	50 U	0.25 U	47 U	0.22 U	1.1 U	0.23 U	0.89 U	0.25 U
2-Nitrophenol		mg/kg	1.1 U	6 U	1.4 U	3.3 U	66 U	0.33 U	62 U	0.29 U	1.5 U	0.3 U	1.2 U	0.32 U
3&4-Methylphenol		mg/kg	1.1 U	6 U	1.4 U	3.3 U	66 U	0.33 U	62 U	0.29 U	1.5 U	0.3 U	1.2 U	0.32 U
3,3'-Dichlorobenzidine		mg/kg	1.1 U	6 U	1.4 U	3.3 U	66 U	0.33 U	62 U	0.29 U	1.5 U	0.3 U	1.2 U	0.32 U
3-Nitroaniline		mg/kg	0.87 U	4.5 U	1.1 U	2.5 U	50 U	0.25 U	47 U	0.22 U	1.1 U	0.23 U	0.89 U	0.25 U
4,6-Dinitro-2-methylphenol		mg/kg	0.87 U	4.5 U	1.1 U	2.5 U	50 U	0.25 U	47 U	0.22 U	1.1 U	0.23 U	0.89 U	0.25 U
4-Bromophenyl phenyl ether		mg/kg	0.65 U	3.4 U	0.82 U	1.9 U	37 U	0.19 U	35 U	0.16 U	0.84 U	0.17 U	0.67 U	0.18 U
4-Chloro-3-methylphenol		mg/kg	1.1 U	6 U	1.4 U	3.3 U	66 U	0.33 U	62 U	0.29 U	1.5 U	0.3 U	1.2 U	0.32 U
4-Chloroaniline		mg/kg	1.1 U	6 U	1.4 U	3.3 U	66 U	0.33 U	62 U	0.29 U	1.5 U	0.3 U	1.2 U	0.32 U
4-Chlorophenyl phenyl ether		mg/kg	0.87 U	4.5 U	1.1 U	2.5 U	50 U	0.25 U	47 U	0.22 U	1.1 U	0.23 U	0.89 U	0.25 U
4-Nitroaniline		mg/kg	0.87 U	4.5 U	1.1 U	2.5 U	50 U	0.25 U	47 U	0.22 U	1.1 U	0.23 U	0.89 U	0.25 U
4-Nitrophenol		mg/kg	1.4 U	7.5 U	1.8 U	4.1 U	82 U	0.41 U	77 U	0.36 U	1.8 U	0.37 U	1.5 U	0.41 U
Acenaphthene		mg/kg	1.1 U	6 U	0.18 J	3.3 U	12 J ⁱ	0.33 U	62 U	0.29 U	1.5 U	0.3 U	1.2 U	0.32 U
Acenaphthylene		mg/kg	1.1 U	6 U	0.055 J	3.3 U	66 U	0.33 U	62 U	0.29 U	1.5 U	0.3 U	1.2 U	0.32 U
Acetophenone		mg/kg	1.1 U	6 U	1.4 U	3.3 U	66 U	0.33 U	62 U	0.29 U	1.5 U	0.3 U	1.2 U	0.32 U
Anthracene		mg/kg	0.047 J	0.15 J	0.31 J	3.3 U	4.5 J	0.33 U	62 U	0.29 U	1.5 U	0.3 U	1.2 U	0.32 U
Atrazine		mg/kg	0.17 U	0.9 U	0.22 U	0.5 U	9.9 U	0.05 U	9.3 U	0.044 U	0.22 U	0.045 U	0.18 U	0.049 U
Benzaldehyde		mg/kg	1.1 U*	6 U*	1.4 U*	3.3 U*	66 U	0.33 U*	62 U	0.29 U*	1.5 U*	0.55 *	1.2 U*	0.32 U*
Benzo(a)anthracene		mg/kg	0.19 J	0.84 J	1.6	3.3 U	8.7 J	0.33 U	62 U	0.29 U	1.5 U	0.3 U	1.2 U	0.32 U
Benzo(a)pyrene		mg/kg	0.19 J	0.65 J	1.6	3.3 U	6.8 J	0.33 U	62 U	0.29 U	1.5 U	0.3 U	1.2 U	0.32 U
Benzo(b)fluoranthene		mg/kg	0.3 J	1.1 J	2.4	3.3 U	10 J	0.33 U	62 U	0.29 U	1.5 U	0.012 J	1.2 U	0.32 U
Benzo(g,h,i)perylene		mg/kg	0.13 J	0.37 J	1.4	3.3 U	4.8 J	0.33 U	62 U	0.29 U	1.5 U	0.0078 J	1.2 U	0.32 U
Benzo(k)fluoranthene		mg/kg	0.091 J	0.35 J	0.91 J	3.3 U	3.4 J	0.33 U	62 U	0.29 U	1.5 U	0.3 U	1.2 U	0.32 U
Biphenyl (1,1-Biphenyl)		mg/kg	1.1 U	6 U	1.4 U	3.3 U	11 J	0.33 U	62 U	0.29 U	1.5 U	0.3 U	1.2 U	0.32 U
bis(2-Chloroethoxy)methane		mg/kg	1.1 U	6 U	1.4 U	3.3 U	66 U	0.33 U	62 U	0.29 U	1.5 U	0.3 U	1.2 U	0.32 U
bis(2-Chloroethyl)ether		mg/kg	0.35 U	1.8 U	0.44 U	1 U	20 U	0.1 U	19 U	0.088 U	0.45 U	0.09 U	0.36 U	0.098 U
bis(2-Ethylhexyl)phthalate (DEHP)		mg/kg	1.1 U	6 U	1.4 U	3.3 U	66 U	0.33 U	62 U	0.029 J	1.5 U	0.038 J	1.2 U	0.32 U
Butyl benzylphthalate (BBP)		mg/kg	1.1 U	6 U	1.4 U	3.3 U	66 U	0.33 U	62 U	0.29 U	1.5 U	0.038 J	1.2 U	0.32 U
Caprolactam		mg/kg	1.1 U	6 U	1.4 U	3.3 U	66 U	0.068 J	62 U	0.29 U	1.5 U	0.3 U	1.2 U	0.32 U
Carbazole		mg/kg	1.1 U	6 U	0.17 J	3.3 U	66 U	0.33 U	62 U	0.29 U	1.5 U	0.3 U	1.2 U	0.32 U
Chrysene		mg/kg	0.22 J	0.91 J	1.7	3.3 U	9.3 J	0.33 U	62 U	0.29 U	1.5 U	0.3 U	1.2 U	0.32 U
Dibenz(a,h)anthracene		mg/kg	1.1 U	6 U	0.28 J	3.3 U	66 U	0.33 U	62 U	0.29 U	1.5 U	0.3 U	1.2 U	0.32 U
Dibenzofuran		mg/kg	1.1 U	6 U	0.055 J	3.3 U	9.8 J ⁱ	0.33 U	1 J	0.29 U	1.5 U	0.3 U	1.2 U	0.32 U
Diethyl phthalate		mg/kg	1.1 U	6 U	1.4 U	3.3 U	66 U	0.33 U	62 U	0.29 U	1.5 U	0.3 U	1.2 U	0.32 U
Dimethyl phthalate		mg/kg	1.1 U	6 U	1.4 U	3.3 U	66 U	0.33 U	62 U	0.29 U	1.5 U	0.3 U	1.2 U	0.32 U
Di-n-butylphthalate (DBP)		mg/kg	0.49 JB	1JB	1.6	3.3 U	16 J ⁱ	0.33 U	220 ^j	0.019 JB	1.5 U	2.5 B	1.2 U	0.32 U
Di-n-octyl phthalate (DnOP)		mg/kg	1.1 U	6 U	1.4 U	3.3 U	66 U	0.33 U	62 U	0.29 U	1.5 U	0.3 U	1.2 U	0.32 U
Fluoranthene		mg/kg	0.46 J	1.5 J	3.8	3.3 U	20 J ⁱ	0.33 U	62 U	0.0051 J	1.5 U	0.019 J	1.2 U	0.32 U
Fluorene		mg/kg	0.02 J	0.076 J	0.14 J	3.3 U	9.6 J ⁱ	0.33 U	62 U	0.29 U	1.5 U	0.3 U	1.2 U	0.32 U
Hexachlorobenzene		mg/kg	1.1 U	6 U	1.4 U	3.3 U	66 U	0.33 U	62 U	0.29 U	1.5 U	0.3 U	1.2 U	0.32 U
Hexachlorobutadiene		mg/kg	0.17 U	0.9 U	0.22 U	0.5 U	9.9 U	0.05 U	9.3 U	0.044 U	0.22 U	0.045 U	0.18 U	0.049 U
Hexachlorocyclopentadiene		mg/kg	1.1 U	6 U	1.4 U	3.3 U	66 U	0.33 U	62 U	0.29 U	1.5 U	0.3 U	1.2 U	0.32 U
Hexachloroethane		mg/kg	1.1 U	6 U	1.4 U	3.3 U	66 U	0.33 U	62 U	0.29 U	1.5 U	0.3 U	1.2 U	0.32 U
Indeno(1,2,3-cd)pyrene		mg/kg	0.11 J	0.38 J	1.2 J	3.3 U	4.7 J	0.33 U	62 U	0.29 U	1.5 U	0.3 U	1.2 U	0.32 U
Isophorone		mg/kg	1.1 U	6 U	1.4 U	3.3 U	66 U	0.33 U	62 U	0.29 U	1.5 U	0.3 U	1.2 U	0.32 U
Naphthalene		mg/kg	1.1 U	6 U	1.4 U	3.3 U	110 ^j	0.33 U	24 J ^j	0.29 U	1.5 U	0.3 U	1.2 U	0.32 U
Nitrobenzene		mg/kg	1.1 U	6 U	1.4 U	3.3 U	66 U	0.33 U	62 U	0.29 U	1.5 U	0.3 U	1.2 U	0.32 U
N-Nitrosodi-n-propylamine		mg/kg	1.1 U	6 U	1.4 U	3.3 U	66 U	0.33 U	62 U	0.29 U	1.5 U	0.3 U	1.2 U	0.32 U
N-Nitrosodiphenylamine		mg/kg	1.1 U	6 U	1.4 U	3.3 U	66 U	0.33 U	62 U	0.29 U	1.5 U	0.3 U	1.2 U	0.32 U
Pentachlorophenol		mg/kg	0.65 U	3.4 U	0.82 U	1.9 U	37 U	0.19 U	35 U	0.16 U	0.84 U	0.17 U	0.67 U	0.18 U
Phenanthrene		mg/kg	0.29 J	0.94 J	2	3.3 U	38 J ⁱ	0.33 U	4.4 J ^j	0.29 U	1.5 U	0.3 U	1.2 U	0.32 U
Phenol		mg/kg	1.1 U	6 U	1.4 U	3.3 U	66 U	0.33 U	11 J ^j	0.29 U	1.5 U	0.3 U	1.2 U	0.32 U
Pyrene		mg/kg	0.37 J	1.5 J	3.1	3.3 U	22 J	0.33 U	1.5 J	0.0057 J	1.5 U	0.014 J	1.2 U	0.32 U
Metals														
Antimony		mg/kg	43 ⁱ	7.7 ⁱ	3.7 B	0.39 B	520 ^j	0.075 JB	290 ^j	0.15 J	0.10 J	0.90	0.14 JB	0.19 JB
Arsenic		mg/kg	2.5 B	3.6 B	3.8 B	4.1 B	17 B ^{ji}	2.3 B	2.6 B	2.3 B	3.2 B	2.7 B	3.4 B	2.6 B
Barium		mg/kg	69 B	60 B	140 B	10 B	4400 B ^{ji}	11 B	450 B	18 B	16 B	17 B	11 B	13 B
Beryllium		mg/kg	0.14 J	0.14 J	0.34	0.19	0.22	0.16 J	0.16 J	0.18	0.19	0.18	0.18	0.18
Cadmium		mg/kg	0.38	2	1.2	0.69	1000 ^{ji}	0.059 J	15 ^{ji}	0.053 J	0.20	0.073 J	0.11	0.079 J
Chromium		mg/kg	450 ^{thj}	49 ^j	33 ^j	19 ^j	2200 ^{thj}	5.1	1100 ^{thj}	7.3	18	68 ^j	21 ⁱ	18
Chromium VI (hexavalent)		mg/kg	400 B ^{thj}	--	--	0.99 U	--	--	--	0.88 U	--	5.3 B ^j	0.88 U	--
Cobalt		mg/kg	2.3	2.8	3.1	3.7	32 ^{ji}	2.1	11 ^{ji}	3.3	3.2	1.9	3.7	4.1

TABLE 1.1
SOIL ANALYTICAL RESULTS SUMMARY
AUGUST 2013-NOVEMBER 2013
FORMER COMPANY VEHICLE OPERATIONS AREA
YPSILANTI, MICHIGAN

PAOC														
Sample Location:	SB19-104	SB19-105	SB19-109	SB19-110	SB19-112	SB19-59A ¹	SB19-113	SB19-57A ¹	SB19-102	SB19-103	SB19-104	SB19-110	SB19-112	
Sample Depth:	2-5 ft BGS	2-5 ft BGS	2-5 ft BGS	2-5 ft BGS	2-5 ft BGS	3.1-7.6 ft BGS	3.5-5 ft BGS	3.9-8.9 ft BGS	5-8 ft BGS	5-8 ft BGS	5-8 ft BGS	5-8 ft BGS	5-8 ft BGS	
Sample ID:	S-17303-110613-CT-010	S-17303-110613-CT-014	S-17303-110613-CT-024	S-17303-110613-CT-027	S-17303-110613-CT-034	SO-17303-080813-DR-002	S-17303-110613-CT-038	SO-17303-080813-DR-004	S-17303-110613-CT-003	S-17303-110613-CT-007	S-17303-110613-CT-011	S-17303-110613-CT-028	S-17303-110613-CT-035	
Sample Date:	11/06/2013	11/06/2013	11/06/2013	11/06/2013	11/06/2013	08/08/2013	11/06/2013	08/08/2013	11/06/2013	11/06/2013	11/06/2013	11/06/2013	11/06/2013	
Sample Type:														
Parameters	Units													
Copper	mg/kg	6.1	10	13	6.5	8.2	86	3.1	140	7.0	8.0	8.1	7.6	6.4
Lead	mg/kg	37	45	84	4.0	33	3700 ^{ef}	2.4	540	7.3	3.7	8.8	5.5	3.1
Manganese	mg/kg	100 B	150 B	350 B	130 B	150 B	270 B	350 B	150 B	340 B	110 B	66 B	160 B	180 B
Mercury	mg/kg	0.048 U	0.022 J	0.045	0.052 U	0.041 U	0.82 ⁱ	0.046 U	0.15 ^j	0.044 U	0.051 U	0.043 U	0.051 U	0.050 U
Nickel	mg/kg	6.1	6.7	8.5	7.7	7.0	17	5.1	8.3	9.8	9.0	6.1	8.1	8.6
Selenium	mg/kg	0.37	0.79 ^j	0.6 ^j	0.5 ^j	0.79 ^j	230 ^{fi}	0.29 J	0.24 J	0.75 ^j	0.62 ^j	0.68 ^j	0.7 ^j	0.48 ^j
Silver	mg/kg	0.065 J	0.076 J	0.15 J	0.0093 J	0.19	0.63	0.0058 J	1.3 ^j	0.0079 J	0.0077 J	0.010 J	0.0070 J	0.0077 J
Thallium	mg/kg	0.051 J	0.098 J	0.074 J	0.063 J	0.080 J	0.27	0.045 J	0.042 J	0.095 J	0.085 J	0.067 J	0.087 J	0.096 J
Vanadium	mg/kg	12	8.6	11	12	8.9	13	9.2	7.0	12	12	15	10	11
Zinc	mg/kg	670 ^j	110	120	34	67	8100 ^{fi}	10	3100 ^j	22	32	19	24	23
PCBs														
Aroclor-1016 (PCB-1016)	mg/kg	0.18 U	--	--	0.32 U	--	3.8 U	--	3.1 U	0.29 U	--	0.3 U	0.29 U	--
Aroclor-1221 (PCB-1221)	mg/kg	0.18 U	--	--	0.32 U	--	3.8 U	--	3.1 U	0.29 U	--	0.3 U	0.29 U	--
Aroclor-1232 (PCB-1232)	mg/kg	0.18 U	--	--	0.32 U	--	3.8 U	--	3.1 U	0.29 U	--	0.3 U	0.29 U	--
Aroclor-1242 (PCB-1242)	mg/kg	0.18 U	--	--	0.32 U	--	0.19 J	--	3.1 U	0.29 U	--	0.3 U	0.29 U	--
Aroclor-1248 (PCB-1248)	mg/kg	0.18 U	--	--	0.32 U	--	3.8 U	--	3.1 U	0.29 U	--	0.3 U	0.29 U	--
Aroclor-1254 (PCB-1254)	mg/kg	0.18 U	--	--	0.32 U	--	3.8 U	--	0.26 J	0.29 U	--	0.3 U	0.29 U	--
Aroclor-1260 (PCB-1260)	mg/kg	1	--	--	0.036 J	--	1 J	--	3.1 U	0.29 U	--	0.023 J	0.33	--
Total PCBs	mg/kg	--	--	--	--	--	1.19 J	--	0.26 J	--	--	--	--	--

Footnotes:
The analytical data is compared to the Michigan Part 201 generic cleanup criteria developed by the MDEQ under the authority of the Natural Resources and Environmental Protection Act (1994 PA 451, as amended).
Environmental Protection Act (1994 PA 451, as amended).
U-Not detected at the associated reporting limit.
J-Estimated concentration.
¹ Samples collected from SB19-57A, SB19-59A, SG19-10A were composite of soils and paint sludge within the interval indicated above.

TABLE 1.1
SOIL ANALYTICAL RESULTS SUMMARY
AUGUST 2013-NOVEMBER 2013
FORMER COMPANY VEHICLE OPERATIONS AREA
YPSILANTI, MICHIGAN

Sample Location:		SG19-10A ¹	SB19-109	SB19-111	SB19-102	SB19-103	SB19-105	SB19-110	SB19-112	SB19-106	SB19-108	SB19-107
Sample Depth:		7.5-8 ft BGS	8-9 ft BGS	8-9 ft BGS	8-10 ft BGS	8-10 ft BGS	8-10 ft BGS	8-10 ft BGS	8-10 ft BGS	8.5-10 ft BGS	8.5-10 ft BGS	9-10 ft BGS
Sample ID:		SO-17303-080813-DR-003	S-17303-110613-CT-025	S-17303-110613-CT-032	S-17303-110613-CT-004	S-17303-110613-CT-008	S-17303-110613-CT-015	S-17303-110613-CT-029	S-17303-110613-CT-036	S-17303-110613-CT-017	S-17303-110613-CT-022	S-17303-110613-CT-020
Sample Date:		08/08/2013	11/06/2013	11/06/2013	11/06/2013	11/06/2013	11/06/2013	11/06/2013	11/06/2013	11/06/2013	11/06/2013	11/06/2013
Sample Type:												
Parameters		Units										
VOCs												
1,1,1-Trichloroethane	mg/kg	280 U	1 U	0.34 U	0.3 U	0.34 U	1.7 U	0.52 U	0.21 U	2.1 U	2.5 U	29 U
1,1,2,2-Tetrachloroethane	mg/kg	280 U	1 U	0.34 U	0.3 U	0.34 U	1.7 U	0.52 U	0.21 U	2.1 U	2.5 U	29 U
1,1,2-Trichloroethane	mg/kg	280 U	1 U	0.34 U	0.3 U	0.34 U	1.7 U	0.52 U	0.21 U	2.1 U	2.5 U	29 U
1,1-Dichloroethane	mg/kg	280 U	1 U	0.34 U	0.3 U	0.34 U	1.7 U	0.52 U	0.21 U	2.1 U	2.5 U	29 U
1,1-Dichloroethene	mg/kg	280 U	1 U	0.34 U	0.3 U	0.34 U	1.7 U	0.52 U	0.21 U	2.1 U	2.5 U	29 U
1,2,4-Trichlorobenzene	mg/kg	1400 U	5.2 U	1.7 U	1.5 U	1.7 U	8.5 U	2.6 U	1 U	10 U	13 U	140 U
1,2-Dibromo-3-chloropropane (DBCP)	mg/kg	1400 U	5.2 U	1.7 U	1.5 U	1.7 U	8.5 U	2.6 U	1 U	10 U	13 U	140 U
1,2-Dibromoethane (Ethylene dibromide)	mg/kg	1400 U	5.2 U	1.7 U	1.5 U	1.7 U	8.5 U	2.6 U	1 U	10 U	13 U	140 U
1,2-Dichlorobenzene	mg/kg	560 U	0.26 J	0.67 U	0.59 U	0.67 U	3.4 U	1 U	0.42 U	4.2 U	5.1 U	57 U
1,2-Dichloroethane	mg/kg	280 U	1 U	0.34 U	0.3 U	0.34 U	1.7 U	0.52 U	0.21 U	2.1 U	2.5 U	29 U
1,2-Dichloropropane	mg/kg	280 U	1 U	0.34 U	0.3 U	0.34 U	1.7 U	0.52 U	0.21 U	2.1 U	2.5 U	29 U
1,3-Dichlorobenzene	mg/kg	560 U	2.1 U	0.67 U	0.59 U	0.67 U	3.4 U	1 U	0.42 U	4.2 U	5.1 U	57 U
1,4-Dichlorobenzene	mg/kg	560 U	2.1 U	0.67 U	0.59 U	0.67 U	3.4 U	1 U	0.42 U	4.2 U	5.1 U	57 U
2-Butanone (Methyl ethyl ketone) (MEK)	mg/kg	4200 U	16 U	5 U	4.4 U	5 U	25 U	7.8 U	3.1 U	31 U	38 U	430 U
2-Hexanone	mg/kg	14000 U	52 U	17 U	15 U	17 U	85 U	26 U	10 U	100 U	130 U	1400 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	mg/kg	14000 U	52 U	17 U	15 U	17 U	85 U	26 U	10 U	100 U	130 U	1400 U
Acetone	mg/kg	4200 U	16 U	5 U	4.4 U	5 U	25 U	7.8 U	3.1 U	31 U	38 U	430 U
Benzene	mg/kg	280 U	0.34 J ^f	0.14 J ^f	0.3 U	0.34 U	0.63 J ^f	0.52 U	0.21 U	2.1 U	2.5 U	29 U
Bromodichloromethane	mg/kg	560 U	2.1 U	0.67 U	0.59 U	0.67 U	3.4 U	1 U	0.42 U	4.2 U	5.1 U	57 U
Bromoform	mg/kg	560 U	2.1 U	0.67 U	0.59 U	0.67 U	3.4 U	1 U	0.42 U	4.2 U	5.1 U	57 U
Bromomethane (Methyl bromide)	mg/kg	1400 U	5.2 U	1.7 U	1.5 U	1.7 U	8.5 U	2.6 U	1 U	10 U	13 U	140 U
Carbon disulfide	mg/kg	1400 U	5.2 U	1.7 U	1.5 U	1.7 U	8.5 U	2.6 U	1 U	10 U	13 U	140 U
Carbon tetrachloride	mg/kg	280 U	1 U	0.34 U	0.3 U	0.34 U	1.7 U	0.52 U	0.21 U	2.1 U	2.5 U	29 U
Chlorobenzene	mg/kg	280 U	1 U	0.34 U	0.3 U	0.34 U	1.7 U	0.52 U	0.21 U	2.1 U	2.5 U	29 U
Chloroethane	mg/kg	1400 U	5.2 U	1.7 U	1.5 U	1.7 U	8.5 U	2.6 U	1 U	10 U	13 U	140 U
Chloroform (Trichloromethane)	mg/kg	280 U	1 U	0.34 U	0.3 U	0.34 U	1.7 U	0.52 U	0.21 U	2.1 U	2.5 U	29 U
Chloromethane (Methyl chloride)	mg/kg	1400 U	5.2 U	1.7 U	1.5 U	1.7 U	8.5 U	2.6 U	1 U	10 U	13 U	140 U
cis-1,2-Dichloroethene	mg/kg	580 ^{cdfeji}	59 ^{fci}	0.34 U	4.3 ^f	2 ^f	24 ^{fi}	16 ^{fi}	7.2 ^f	21 ^{fi}	14 ^{fi}	17 J ^{fi}
cis-1,3-Dichloropropene	mg/kg	280 U	1 U	0.34 U	0.3 U	0.34 U	1.7 U	0.52 U	0.21 U	2.1 U	2.5 U	29 U
Cyclohexane	mg/kg	6800 U	25 U	0.58 J	7.1 U	8.1 U	41 U	13 U	5 U	50 U	61 U	690 U
Dibromochloromethane	mg/kg	280 U	1 U	0.34 U	0.3 U	0.34 U	1.7 U	0.52 U	0.21 U	2.1 U	2.5 U	29 U
Dichlorodifluoromethane (CFC-12)	mg/kg	560 U	2.1 U	0.67 U	0.59 U	0.67 U	3.4 U	1 U	0.42 U	4.2 U	5.1 U	57 U
Ethylbenzene	mg/kg	290 ^{efgijk}	7.1 ^{fi}	8.5 ^{fi}	0.049 J	0.34 U	23 ^{fi}	0.52 U	0.21 U	2.1 U	2.5 U	9.9 J ^{fi}
Isopropyl benzene	mg/kg	59 J ^j	1.7 J	3.2	1.5 U	1.7 U	3 J	2.6 U	1 U	10 U	13 U	140 U
Methyl acetate	mg/kg	6800 U	25 U	8.1 U	7.1 U	8.1 U	41 U	13 U	5 U	50 U	61 U	690 U
Methyl cyclohexane	mg/kg	6800 U	1.8 J	5 J	0.097 J	8.1 U	7.5 J	13 U	5 U	50 U	61 U	690 U
Methyl tert butyl ether (MTBE)	mg/kg	1400 U	5.2 U	1.7 U	1.5 U	1.7 U	8.5 U	2.6 U	1 U	10 U	13 U	140 U
Methylene chloride	mg/kg	1400 U	5.2 U	1.7 U	1.5 U	1.7 U	8.5 U	2.6 U	1 U	10 U	13 U	140 U
Styrene	mg/kg	280 U	1 U	0.34 U	0.3 U	0.34 U	1.7 U	0.52 U	0.21 U	2.1 U	2.5 U	29 U
Tetrachloroethene	mg/kg	280 U	1 U	0.34 U	0.3 U	0.34 U	1.7 U	0.52 U	0.21 U	2.1 U	2.5 U	29 U
Toluene	mg/kg	340 J ^{efgijk}	4.8	0.67 U	0.59 U	0.67 U	11 ^j	1 U	0.42 U	4.2 U	5.1 U	57 U
trans-1,2-Dichloroethene	mg/kg	280 U	1 U	0.34 U	0.3 U	0.34 U	1.7 U	0.52 U	0.21 U	2.1 U	2.5 U	29 U
trans-1,3-Dichloropropene	mg/kg	280 U	1 U	0.34 U	0.3 U	0.34 U	1.7 U	0.52 U	0.21 U	2.1 U	2.5 U	29 U
Trichloroethene	mg/kg	22000 ^{bcdfeijk}	50 ^{cdfeji}	0.34 U	15 ^{dfci}	16 ^{dfci}	1.2 J ^f	28 ^{cdfeji}	6.4 ^{fci}	140 ^{bcdfeji}	200 ^{bcdfeji}	1700 ^{bcdfeijk}
Trichlorofluoromethane (CFC-11)	mg/kg	560 U	2.1 U	0.67 U	0.59 U	0.67 U	3.4 U	1 U	0.42 U	4.2 U	5.1 U	57 U
Trifluorotrichloroethane (Freon 113)	mg/kg	1400 U	5.2 U	1.7 U	1.5 U	1.7 U	8.5 U	2.6 U	1 U	10 U	13 U	140 U
Vinyl chloride	mg/kg	230 U	0.83 U	0.27 U	0.24 U	0.27 U	1.4 U	0.42 U	0.17 U	1.7 U	2 U	23 U
Xylenes (total)	mg/kg	2500 ^{efgijk}	80 ^{fi}	19 ^{fi}	0.066 J	1 U	160 ^{efgijk}	1.6 U	0.63 U	6.2 U	1.2 J ^j	97 ^{fi}
SVOCs												
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	mg/kg	300 U	3.5 U	14 U	0.29 U	0.28 U	11 U	3.5 U	0.28 U	5.5 U	8.4 U	2.8 U
2,4,5-Trichlorophenol	mg/kg	300 U	3.5 U	14 U	0.29 U	0.28 U	11 U	3.5 U	0.28 U	5.5 U	8.4 U	2.8 U
2,4,6-Trichlorophenol	mg/kg	300 U	3.5 U	14 U	0.29 U	0.28 U	11 U	3.5 U	0.28 U	5.5 U	8.4 U	2.8 U
2,4-Dichlorophenol	mg/kg	300 U	3.5 U	14 U	0.29 U	0.28 U	11 U	3.5 U	0.28 U	5.5 U	8.4 U	2.8 U
2,4-Dimethylphenol	mg/kg	300 U	3.5 U	14 U	0.29 U	0.28 U	11 U	3.5 U	0.28 U	5.5 U	8.4 U	2.8 U
2,4-Dinitrophenol	mg/kg	170 U	2 U	8 U	0.17 U	0.16 U	6.3 U	2 U	0.16 U	3.1 U	4.8 U	1.6 U
2,4-Dinitrotoluene	mg/kg	300 U	3.5 U	14 U	0.29 U	0.28 U	11 U	3.5 U	0.28 U	5.5 U	8.4 U	2.8 U
2,6-Dinitrotoluene	mg/kg	300 U	3.5 U	14 U	0.29 U	0.28 U	11 U	3.5 U	0.28 U	5.5 U	8.4 U	2.8 U
2-Chloronaphthalene	mg/kg	300 U	3.5 U	14 U	0.29 U	0.28 U	11 U	3.5 U	0.28 U	5.5 U	8.4 U	2.8 U
2-Chlorophenol	mg/kg	300 U	3.5 U	14 U	0.29 U	0.28 U	11 U	3.5 U	0.28 U	5.5 U	8.4 U	2.8 U
2-Methylnaphthalene	mg/kg	36 J ^j	0.57 J	17 ^j	0.29 U	0.28 U	2.5 J	3.5 U	0.28 U	5.5 U	8.4 U	0.48 J

TABLE 1.1
SOIL ANALYTICAL RESULTS SUMMARY
AUGUST 2013-NOVEMBER 2013
FORMER COMPANY VEHICLE OPERATIONS AREA
YPSILANTI, MICHIGAN

PAOC												
Sample Location:		SG19-10A ¹	SB19-109	SB19-111	SB19-102	SB19-103	SB19-105	SB19-110	SB19-112	SB19-106	SB19-108	SB19-107
Sample Depth:		7.5-8 ft BGS	8-9 ft BGS	8-9 ft BGS	8-10 ft BGS	8-10 ft BGS	8-10 ft BGS	8-10 ft BGS	8-10 ft BGS	8.5-10 ft BGS	8.5-10 ft BGS	9-10 ft BGS
Sample ID:		SO-17303-080813-DR-003	S-17303-110613-CT-025	S-17303-110613-CT-032	S-17303-110613-CT-004	S-17303-110613-CT-008	S-17303-110613-CT-015	S-17303-110613-CT-029	S-17303-110613-CT-036	S-17303-110613-CT-017	S-17303-110613-CT-022	S-17303-110613-CT-020
Sample Date:		08/08/2013	11/06/2013	11/06/2013	11/06/2013	11/06/2013	11/06/2013	11/06/2013	11/06/2013	11/06/2013	11/06/2013	11/06/2013
Sample Type:												
Parameters	Units											
2-Methylphenol	mg/kg	300 U	3.5 U	14 U	0.29 U	0.28 U	11 U	3.5 U	0.28 U	5.5 U	8.4 U	2.8 U
2-Nitroaniline	mg/kg	230 U	2.6 U	11 U	0.22 U	0.21 U	8.4 U	2.6 U	0.21 U	4.2 U	6.3 U	2.2 U
2-Nitrophenol	mg/kg	300 U	3.5 U	14 U	0.29 U	0.28 U	11 U	3.5 U	0.28 U	5.5 U	8.4 U	2.8 U
3&4-Methylphenol	mg/kg	300 U	3.5 U	14 U	0.29 U	0.28 U	11 U	3.5 U	0.28 U	5.5 U	8.4 U	2.8 U
3,3'-Dichlorobenzidine	mg/kg	300 U	3.5 U	14 U	0.29 U	0.28 U	11 U	3.5 U	0.28 U	5.5 U	8.4 U	2.8 U
3-Nitroaniline	mg/kg	230 U	2.6 U	11 U	0.22 U	0.21 U	8.4 U	2.6 U	0.21 U	4.2 U	6.3 U	2.2 U
4,6-Dinitro-2-methylphenol	mg/kg	300 U	2.6 U	11 U	0.22 U	0.21 U	8.4 U	2.6 U	0.21 U	4.2 U	6.3 U	2.2 U
4-Bromophenyl phenyl ether	mg/kg	170 U	2 U	8 U	0.17 U	0.16 U	6.3 U	2 U	0.16 U	3.1 U	4.8 U	1.6 U
4-Chloro-3-methylphenol	mg/kg	300 U	3.5 U	14 U	0.29 U	0.28 U	11 U	3.5 U	0.28 U	5.5 U	8.4 U	2.8 U
4-Chloroaniline	mg/kg	300 U	3.5 U	14 U	0.29 U	0.28 U	11 U	3.5 U	0.28 U	5.5 U	8.4 U	2.8 U
4-Chlorophenyl phenyl ether	mg/kg	230 U	2.6 U	11 U	0.22 U	0.21 U	8.4 U	2.6 U	0.21 U	4.2 U	6.3 U	2.2 U
4-Nitroaniline	mg/kg	230 U	2.6 U	11 U	0.22 U	0.21 U	8.4 U	2.6 U	0.21 U	4.2 U	6.3 U	2.2 U
4-Nitrophenol	mg/kg	380 U	4.4 U	18 U	0.37 U	0.35 U	14 U	4.3 U	0.35 U	6.9 U	10 U	3.6 U
Acenaphthene	mg/kg	300 U	3.5 U	7.2 J	0.29 U	0.28 U	0.48 J	3.5 U	0.28 U	5.5 U	8.4 U	2.8 U
Acenaphthylene	mg/kg	300 U	3.5 U	14 U	0.29 U	0.28 U	11 U	3.5 U	0.28 U	5.5 U	8.4 U	2.8 U
Acetophenone	mg/kg	300 U	3.5 U	14 U	0.29 U	0.28 U	11 U	3.5 U	0.28 U	5.5 U	0.9 J	2.8 U
Anthracene	mg/kg	300 U	0.083 J	0.42 J	0.29 U	0.28 U	0.16 J	3.5 U	0.28 U	5.5 U	8.4 U	2.8 U
Atrazine	mg/kg	45 U	0.53 U	2.1 U	0.044 U	0.042 U	1.7 U	0.52 U	0.042 U	0.83 U	1.3 U	0.43 U
Benzaldehyde	mg/kg	300 U	3.5 U*	14 U*	0.29 U*	0.28 U*	11 U*	3.5 U*	0.28 U*	5.5 U*	8.4 U*	2.8 U*
Benzo(a)anthracene	mg/kg	300 U	3.5 U	14 U	0.29 U	0.28 U	11 U	3.5 U	0.28 U	5.5 U	8.4 U	2.8 U
Benzo(a)pyrene	mg/kg	300 U	3.5 U	14 U	0.29 U	0.28 U	11 U	3.5 U	0.28 U	5.5 U	8.4 U	2.8 U
Benzo(b)fluoranthene	mg/kg	300 U	3.5 U	14 U	0.29 U	0.28 U	0.52 J	3.5 U	0.28 U	0.15 J	8.4 U	2.8 U
Benzo(g,h,i)perylene	mg/kg	300 U	3.5 U	14 U	0.29 U	0.28 U	11 U	3.5 U	0.28 U	5.5 U	8.4 U	2.8 U
Benzo(k)fluoranthene	mg/kg	300 U	3.5 U	14 U	0.29 U	0.28 U	11 U	3.5 U	0.28 U	5.5 U	8.4 U	2.8 U
Biphenyl (1,1-Biphenyl)	mg/kg	300 U	3.5 U	4.7 J	0.29 U	0.28 U	0.46 J	3.5 U	0.28 U	5.5 U	8.4 U	2.8 U
bis(2-Chloroethoxy)methane	mg/kg	300 U	3.5 U	14 U	0.29 U	0.28 U	11 U	3.5 U	0.28 U	5.5 U	8.4 U	2.8 U
bis(2-Chloroethyl)ether	mg/kg	91 U	1.1 U	4.3 U	0.089 U	0.084 U	3.4 U	1 U	0.085 U	1.7 U	2.5 U	0.86 U
bis(2-Ethylhexyl)phthalate (DEHP)	mg/kg	300 U	3.5 U	14 U	0.29 U	0.28 U	11 U	3.5 U	0.28 U	5.5 U	8.4 U	2.8 U
Butyl benzylphthalate (BBP)	mg/kg	300 U	3.5 U	14 U	0.29 U	0.28 U	11 U	3.5 U	0.28 U	5.5 U	8.4 U	2.8 U
Caprolactam	mg/kg	300 U	3.5 U	14 U	0.29 U	0.28 U	11 U	3.5 U	0.28 U	5.5 U	8.4 U	2.8 U
Carbazole	mg/kg	300 U	3.5 U	14 U	0.29 U	0.28 U	11 U	3.5 U	0.28 U	5.5 U	8.4 U	2.8 U
Chrysene	mg/kg	300 U	3.5 U	14 U	0.29 U	0.28 U	11 U	3.5 U	0.28 U	5.5 U	8.4 U	2.8 U
Dibenz(a,h)anthracene	mg/kg	300 U	3.5 U	14 U	0.29 U	0.28 U	11 U	3.5 U	0.28 U	5.5 U	8.4 U	2.8 U
Dibenzofuran	mg/kg	8.1 J ^j	3.5 U	8 J ^j	0.29 U	0.28 U	0.54 J	3.5 U	0.28 U	5.5 U	8.4 U	2.8 U
Diethyl phthalate	mg/kg	300 U	3.5 U	14 U	0.29 U	0.28 U	11 U	3.5 U	0.28 U	5.5 U	8.4 U	2.8 U
Dimethyl phthalate	mg/kg	300 U	3.5 U	14 U	0.29 U	0.28 U	11 U	3.5 U	0.28 U	5.5 U	8.4 U	2.8 U
Di-n-butylphthalate (DBP)	mg/kg	1900 ^{gjk}	11	76 J ^j	0.29 U	0.062 J	67 B ^j	3.5 U	0.028 J	14 ^j	29 J ^j	9.9
Di-n-octyl phthalate (DnOP)	mg/kg	300 U	3.5 U	14 U	0.29 U	0.28 U	11 U	3.5 U	0.28 U	5.5 U	8.4 U	2.8 U
Fluoranthene	mg/kg	17 J ^j	0.19 J	1.2 J	0.29 U	0.28 U	0.99 J	3.5 U	0.28 U	0.33 J	1.6 J	2.8 U
Fluorene	mg/kg	300 U	0.1 J	4.8 J	0.29 U	0.28 U	0.61 J	3.5 U	0.28 U	5.5 U	8.4 U	0.065 J
Hexachlorobenzene	mg/kg	300 U	3.5 U	14 U	0.29 U	0.28 U	11 U	3.5 U	0.28 U	5.5 U	8.4 U	2.8 U
Hexachlorobutadiene	mg/kg	45 U	0.53 U	2.1 U	0.044 U	0.042 U	1.7 U	0.52 U	0.042 U	0.83 U	1.3 U	0.43 U
Hexachlorocyclopentadiene	mg/kg	300 U	3.5 U	14 U	0.29 U	0.28 U	11 U	3.5 U	0.28 U	5.5 U	8.4 U	2.8 U
Hexachloroethane	mg/kg	300 U	3.5 U	14 U	0.29 U	0.28 U	11 U	3.5 U	0.28 U	5.5 U	8.4 U	2.8 U
Indeno(1,2,3-cd)pyrene	mg/kg	300 U	3.5 U	14 U	0.29 U	0.28 U	11 U	3.5 U	0.28 U	5.5 U	8.4 U	2.8 U
Isophorone	mg/kg	300 U	3.5 U	14 U	0.29 U	0.28 U	11 U	3.5 U	0.28 U	5.5 U	8.4 U	2.8 U
Naphthalene	mg/kg	130 J ^{ij}	1.6 J ^j	5.5 J ^j	0.29 U	0.28 U	4.7 J ^j	3.5 U	0.28 U	5.5 U	0.34 J	1.5 J ^j
Nitrobenzene	mg/kg	300 U	3.5 U	14 U	0.29 U	0.28 U	11 U	3.5 U	0.28 U	5.5 U	8.4 U	2.8 U
N-Nitrosodi-n-propylamine	mg/kg	300 U	3.5 U	14 U	0.29 U	0.28 U	11 U	3.5 U	0.28 U	5.5 U	8.4 U	2.8 U
N-Nitrosodiphenylamine	mg/kg	300 U	3.5 U	14 U	0.29 U	0.28 U	11 U	3.5 U	0.28 U	5.5 U	8.4 U	2.8 U
Pentachlorophenol	mg/kg	170 U	2 U	8 U	0.17 U	0.16 U	6.3 U	2 U	0.16 U	3.1 U	4.8 U	1.6 U
Phenanthrene	mg/kg	39 J ^j	0.42 J	4.9 J ^j	0.29 U	0.28 U	1.7 J	3.5 U	0.28 U	5.5 U	0.49 J	0.46 J
Phenol	mg/kg	140 J ^j	3.5 U	14 U	0.29 U	0.28 U	11 U	3.5 U	0.28 U	0.24 J	8.4 U	2.8 U
Pyrene	mg/kg	13 J	0.17 J	0.69 J	0.29 U	0.28 U	0.73 J	3.5 U	0.28 U	0.39 J	1.4 J	0.2 J
Metals												
Antimony	mg/kg	3300 ^{efj}	2.8 B	0.92 B	0.25 JB	0.082 JB	3.9	0.90 B	0.12 JB	2.3 B	1.8 B	1.4 B
Arsenic	mg/kg	9.2 B ^{ij}	1.9 B	1.3 B	2.4 B	1.3 B	2.1 B	3.0 B	1.4 B	3.1 B	1.7 B	2.3 B
Barium	mg/kg	4500 B ^{ij}	8.5 B	12 B	5.9 B	4.6 B	72 B	20 B	5.9 B	14 B	5.7 B	6.9 B
Beryllium	mg/kg	0.69	0.095 J	0.050 J	0.14 U	0.13 J	0.13 J	0.20 U	0.16 U	0.085 J	0.064 J	0.068 J
Cadmium	mg/kg	140 ^{ij}	1.3	0.69	0.048 J	0.069 U	2.7	0.56	0.078 U	7 ^f	1.2	0.29
Chromium	mg/kg	7100 ^{ghj}	170 ^{ij}	86 ^{ij}	8.4	8.6	350 ^{ghj}	31 ^{ij}	7.1	210 ^{ij}	200 ^{ij}	84 ^{ij}
Chromium VI (hexavalent)	mg/kg	--	--	--	0.89 U	--	--	1.0 U	--	0.72 JB	7.8 B ^j	4.8 B ^j
Cobalt	mg/kg	21 ^{ij}	2.3	2.1	2.0	1.5	3.9	2.8	2.3	2.1	1.9	2.7

TABLE 1.1
SOIL ANALYTICAL RESULTS SUMMARY
AUGUST 2013-NOVEMBER 2013
FORMER COMPANY VEHICLE OPERATIONS AREA
YPSILANTI, MICHIGAN

PAOC

Sample Location:	SG19-10A ¹	SB19-109	SB19-111	SB19-102	SB19-103	SB19-105	SB19-110	SB19-112	SB19-106	SB19-108	SB19-107
Sample Depth:	7.5-8 ft BGS	8-9 ft BGS	8-9 ft BGS	8-10 ft BGS	8-10 ft BGS	8-10 ft BGS	8-10 ft BGS	8-10 ft BGS	8.5-10 ft BGS	8.5-10 ft BGS	9-10 ft BGS
Sample ID:	SO-17303-080813-DR-003	S-17303-110613-CT-025	S-17303-110613-CT-032	S-17303-110613-CT-004	S-17303-110613-CT-008	S-17303-110613-CT-015	S-17303-110613-CT-029	S-17303-110613-CT-036	S-17303-110613-CT-017	S-17303-110613-CT-022	S-17303-110613-CT-020
Sample Date:	08/08/2013	11/06/2013	11/06/2013	11/06/2013	11/06/2013	11/06/2013	11/06/2013	11/06/2013	11/06/2013	11/06/2013	11/06/2013
Sample Type:											
Parameters	Units										

Copper	mg/kg	300 ^J	3.8	2.0	4.3	3.0	8.8	6.1	4.4	7.9	3.1	5.3
Lead	mg/kg	15000 ^{efj}	26	8.0	2.4	1.4	110	69	1.9	11	3.0	21
Manganese	mg/kg	610 B ^{fi}	74 B	68 B	150	96	69 B	160	170	82 B	79 B	100 B
Mercury	mg/kg	2.2 ^{fi}	0.045 U	0.046 U	0.049 U	0.041 U	0.032 J	0.054 U	0.043 U	0.047 U	0.051 U	0.046 U
Nickel	mg/kg	15	4.9	4.3	5.3	3.9	6.1	6.0	5.5	5.6	4.1	4.1
Selenium	mg/kg	1.6 ^J	0.22 J	0.25 J	0.29 J	0.20 J	0.32	0.32 J	0.25 J	0.29 J	0.24 J	0.25 J
Silver	mg/kg	10 ^J	0.034 J	0.021 J	0.0073 J	0.0052 J	0.38	0.0091 J	0.0047 J	0.029 J	0.0073 J	0.012 J
Thallium	mg/kg	0.30	0.039 J	0.037 J	0.060 J	0.036 J	0.044 J	0.061 J	0.043 J	0.049 J	0.034 J	0.034 J
Vanadium	mg/kg	10	6.8	4.3	8.0	5.0	8.9	8.5	6.0	6.8	5.7	6.3
Zinc	mg/kg	15000 ^{fi}	360	400 ^J	15	12	1100 ^J	93	16	480 ^J	380 ^J	230

PCBs

Aroclor-1016 (PCB-1016)	mg/kg	4.3 U	--	--	0.29 U	--	--	0.34 U	--	0.28 U	0.33 U	0.29 U
Aroclor-1221 (PCB-1221)	mg/kg	4.3 U	--	--	0.29 U	--	--	0.34 U	--	0.28 U	0.33 U	0.29 U
Aroclor-1232 (PCB-1232)	mg/kg	4.3 U	--	--	0.29 U	--	--	0.34 U	--	0.28 U	0.33 U	0.29 U
Aroclor-1242 (PCB-1242)	mg/kg	4.3 U	--	--	0.29 U	--	--	0.048 J	--	0.28 U	0.33 U	0.29 U
Aroclor-1248 (PCB-1248)	mg/kg	4.3 U	--	--	0.29 U	--	--	0.34 U	--	0.28 U	0.33 U	0.29 U
Aroclor-1254 (PCB-1254)	mg/kg	4.3 U	--	--	0.29 U	--	--	0.34 U	--	0.28 U	0.022 J	0.29 U
Aroclor-1260 (PCB-1260)	mg/kg	0.43 J	--	--	0.29 U	--	--	0.34 U	--	0.019 J	0.33 U	0.29 U
Total PCBs	mg/kg	0.43 J	--	--	--	--	--	--	--	--	--	--

Footnotes:
The analytical data is compared to the Michigan Part 201 generic cleanup criteria developed by the MDEQ under the authority of the Natural Resources and Environmental Protection Act (1994 PA 451, as amended).
Environmental Protection Act (1994 PA 451, as amended).
U-Not detected at the associated reporting limit.
J-Estimated concentration.
¹ Samples collected from SB19-57A, SB19-59A, SG19-10A were composite of soils and paint sludge within the interval indicated above.

Appendix A-1

Pre-1978 Determination Email from the U.S. EPA on March 04, 2013

Landale, Beth

From: Greensley, Jean [greensley.jean@epa.gov]
Sent: Monday, March 04, 2013 2:19 PM
To: Landale, Beth
Cc: Ramanauskas, Peter; Bains, Amandeep
Subject: RE: CVO Investigation Plan Follow Up ~MSC-017303~

Beth,

As we discussed last week, the EPA has concluded, based on the site history and aerial photographs, that the contamination occurred prior to 1978. EPA will send a letter to Grant Trigger acknowledging this.

I have completed the review of the proposed additional sample investigation sites. I have no additions or corrections regarding the proposed sites. The locations are appropriate and will provide the additional characterization information. Any questions, let me know. Jean

From: Landale, Beth [<mailto:blandale@croworld.com>]
Sent: Tuesday, February 26, 2013 9:37 AM
To: Greensley, Jean
Cc: Ramanauskas, Peter; Lund, Kevin (DEQ); mackenzie-taylord@michigan.gov; Grant Trigger; Dave Favero; Bains, Amandeep; Project Email Hold
Subject: CVO Investigation Plan Follow Up ~MSC-017303~

Hi Jean,

Per my voicemail, I've attached an updated table and figure for the proposed additional investigations. There are no new locations just additional sample intervals. I understand from your email yesterday, you and Peter are sitting down to discuss this tomorrow afternoon. We'd appreciate any comments you have on the proposed investigation this week or early next week, as we have the field work scheduled to begin on March 11th and we need to send the surveyors out there a few days in advance.

I'm headed out on vacation on Thursday so I'd appreciate if you could keep Amandeep Bains (abains@croworld.com) copied on your replies as she will be coordinating the CRA work in my absence.

I also wanted to check in and see if you had any questions regarding the information I supplied for the pre-1978 determination.

If you'd like to discuss, please let me know.

Thanks

Beth

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Appendix A-2

Non-Listed Evaluation Email to the MDEQ on October 21, 2013

From: Landale, Beth
Sent: Monday, October 21, 2013 12:33 PM
To: Lund, Kevin (DEQ)
Cc: Bains, Amandeep; Grant Trigger; Project Email Filing
Subject: CVO PAOC 23 Basis for Non Listed Waste Determination ~COR-017303~

Hi Kevin,

The purpose of this email is to summarize our position as to why the waste material, impacted soils and associated media at PAOC 23 are not a listed waste. The impacted material is a result of historical filling activities at the Site. The waste material has been called paint sludge as various colors have been observed, yellow, red, green. It is unclear what the waste material was or what form it was in when the historic filling took place (1949 through 1959, based on aerial photographs and construction of the building). The main chemical constituents in the waste material, and resulting contamination are trichloroethylene and its daughter compounds. The TCE from the waste material has impacted soils, groundwater and soil gas and therefore needs to be removed. Below presents a summary of the Site history and filling activities that were discovered during a review of historical aerial photographs. The area where excavation is a possibility is referred as PAOC 23. PAOC 23 is area located beneath and adjacent to the North end of the Haulaway building.

Site History

The CVO Site consisted of the eastern 22 acres of the former Willow Run Assembly Plant (WRAP). The Site has had many owners. The Kaiser-Frazer Company (Kaiser-Frazer) leased the area from the War Asset Administration in November 1945 and purchased the facility in December 1948. Kaiser-Frazer is thought to have constructed an administration building to house design and engineering facilities on the WRAP site. Kaiser-Frazer owned the property until its sale to GM in December 1954. The original building at the Willow Run Assembly Plant was used by GM as a parts storage warehouse until 1955. In 1956, light truck assembly began at the plant. From 1956 to July 1993, operations were typical of an automotive assembly plant including, sheet metal assembly by welding solder applications, metal finishing, and washing, electro-deposition painting operations, and interior assembly. These operations were not conducted on the CVO portion of the former Willow Run Assembly Plant.

Following assembly operations, vehicles were distributed to dealers by both truck and railway systems. Production operations ceased in July of 1993 and deactivation and decommissioning operations proceeded to prepare the facility for an eventual sale in 1997. GM retained ownership of the CVO property, which was used to store and maintain GM owned company vehicles until 2010.

Aerial Photograph Review

Several aerial photographs of the Site from 1940 to the recently present were reviewed. The photographs reviewed were from 1940, 1949, 1952, 1955, 1956, 1963, 1969, 1978, 1980, 1985, 1990, 1994, 1995, and 1998. In reviewing the aerial photographs, several areas of soil disturbances, filling and open pits were observed on the CVO property.

The 1949 aerial photographs show an excavated area along with material piles just northeast of where the Haulaway building now stands. These photos show excavated pits dark in color suggesting the presence of liquids. There is also evidence of filling activities along the south shore of Tyler Pond from the Outfall #11 area to the east. The 1952 photo shows two more excavated pits due west of the original pit in the 1949 photo. These activities continued into 1955. The 1955 photo shows a smaller pit than that seen in the 1949 photo. The current Haulaway Building was constructed in 1959. Following the construction of the building, the Haulaway Building was used as an office and maintenance garage, and the remainder of the Site for parking and storage of vehicles. By 1963, the area south of Tyler Pond shows significant development. By 1963 the entire Site area, including the eastern most section, were completely paved.

Based on the review of aerial photos, it appears the filling and apparent waste operations in the vicinity of the Site occurred prior to 1963, with the majority of the filling activities taking place prior to 1955.

Listed Waste Discussion

The first step in the RCRA hazardous waste characterization process is to evaluate contaminated media at the Site and determine whether it constitutes a 'listed' RCRA waste. The preamble to the National Oil and Hazardous Substances Pollution Contingency Plan (NCP) states that "it is often necessary to know the origin of the waste to determine whether it is a listed waste."

Based on the review of aerial photographs and buried refuse observed during previous removals, test pitting activities and boring installations at the Site, the waste material and resulting impacts are likely the result of historical dumping. Review of available files, have not lead to any indications of what was dumped (virgin product, spent solvent, or concentrations of the original material) or operations that would generate listed waste in that area.

RCRA hazardous waste that have been assigned EPA hazardous waste codes are listed in 40 CFR 261.30 through 261.33. Knowledge of the exact source of a waste is required for source-specific listed wastes ("K" waste codes). Some knowledge of the nature or sources of the waste is required even for listed wastes from non-specific sources, such as spend solvents ("F" waste codes) or commercial chemical products ("P" and "U" waste codes). P and U wastes cover only unused and unmixed commercial chemical products, particularly spilled or off-specification products. Not every waste containing a P or U chemical is a hazardous waste. There must be direct evidence of product use.

The EPA guidance document titled "Management of Remediation Waste Under RCRA" dated October 1998 provides clarification on determining when contamination results from listed hazardous waste. It states that....*"When a facility owner/operator makes a good faith effort to determine if a material is a listed hazardous waste but cannot make such a determination because documentation regarding the source of contamination, contaminant, or waste is unavailable or inconclusive, EPA has stated that one may assume the source, contaminant or waste is not listed hazardous waste and, therefore, provided the material in question does not exhibit a characteristic of hazardous waste, RCRA requirements do not apply"*. A footnote is included which states *"Listing determinations are often particularly difficult in the remedial context because the listings are generally identified by the sources of the hazardous wastes rather than the concentrations of various hazardous constituents; therefore, analytical testing alone, without information on a waste's source, will not generally produce information that will conclusively indicate whether a given waste is a listed hazardous waste"*.

Attempts have been made to determine if the source of TCE present in the environmental media meets F, U or P listing criteria. It has been concluded that the efforts have not yielded the necessary information to definitively assert that the source of contamination would have been a listed hazardous waste. Therefore, our due diligence in addition to the EPA guidance document mentioned above supports the determination that the environmental media will not be regulated as a listed hazardous waste. It will be classified as characteristically hazardous waste if the Toxic Characteristic Leaching Procedure (TCLP) concentration of the regulated compounds exceed the RCRA regulatory threshold for those compounds.

In summary, the environmental media potentially generated by an excavation in PAOC 23 are not listed hazardous wastes.
Beth

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Appendix B

Stratigraphic Logs Within AOC



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 1

PROJECT NAME: GM - WRBC

PROJECT NUMBER: 17303

CLIENT: GENERAL MOTORS CORPORATION

LOCATION: YPSILANTI, MICHIGAN

HOLE DESIGNATION: GP19-01D

DATE COMPLETED: May 25, 2005

DRILLING METHOD: DIRECT PUSH

FIELD PERSONNEL: D. RIVERS

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft BGS	MONITORING WELL	SAMPLE				
				NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm)
	GROUND SURFACE	718.37						
2	CONCRETE, with fine subrounded gravels, white, competent	717.87	CONCRETE SEAL	1DP				2.0
4	SM-SILTY SANDS, trace fine gravels, compact, fine grained, trace medium to coarse grained, poorly graded, brown, moist - fine grained, light brown at 1.8ft BGS		BENTONITE GROUT	2DP				0.3
6			0.75" PVC WELL CASING	3DP				2.4
8	- trace clays, orange-brown at 8.3ft BGS		BENTONITE CHIPS	4DP				666
10			0.75" PVC WELL SCREEN SAND PACK	5DP				112
12	SP-SANDS, trace silts, compact, fine to medium grained, poorly graded, brown-gray, very moist	706.87	3-1/2" BOREHOLE	6DP				29.0
14	- gray, saturated at 12.0ft BGS			7DP				10.9
16	SM-SILTY SANDS, compact, fine grained, poorly graded, gray, saturated	703.87	NATURAL COLLAPSE AND BENTONITE CHIPS					
18								
20	CL-SILTY CLAYS, trace fine sands, firm, low plasticity, gray, moist	699.12						
22	END OF BOREHOLE @ 20.0ft BGS	698.37						
24								
26								
28								
30								
32								
34								
36								
38								

WELL DETAILS

Screened interval:

713.37 to 712.37ft BGS

5.00 to 6.00ft BGS

Length: 1ft

Diameter: 0.8in

Slot Size: .25" DIAM.

Material: PVC

Sand Pack:

713.57 to 712.27ft BGS

4.80 to 6.10ft BGS

Material: WASHED GRAVEL

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS



OVERBURDEN LOG 17303.GPJ CRA_CORP.GDT 7/4/13



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 1

PROJECT NAME: GM - WRBC

PROJECT NUMBER: 17303

CLIENT: GENERAL MOTORS CORPORATION

LOCATION: YPSILANTI, MICHIGAN

HOLE DESIGNATION: GP19-02D

DATE COMPLETED: May 27, 2005

DRILLING METHOD: DIRECT PUSH

FIELD PERSONNEL: D. RIVERS

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft BGS	MONITORING WELL	SAMPLE				
				NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm)
	GROUND SURFACE	718.39						
2	CONCRETE, with fine subrounded gravels, white, competent	717.89	CONCRETE SEAL	1DP				4.1
4	SM-SILTY SANDS, trace fine gravels, compact, fine to coarse grained, poorly graded, brown, moist		0.75" PVC WELL CASING	2DP				4.3
6	- orange-brown at 3.8ft BGS		BENTONITE GROUT	3DP				3.8
8	- tan/beige at 5.0ft BGS		BENTONITE CHIPS	4DP				39.7
10	- brown and orange-brown at 7.5ft BGS		SAND PACK 0.75" PVC WELL SCREEN	5DP				371
12	- brown-gray, very moist at 11.5ft BGS		3-1/2" BOREHOLE	6DP				632
14	- saturated at 11.8ft BGS		NATURAL COLLAPSE AND BENTONITE CHIPS	7DP				824
16	CL-SILTY CLAYS, firm, low plasticity, gray, moist	705.14						
18	SM-SILTY SANDS, compact, fine grained, poorly graded, gray, saturated	704.39						
20	- fine to coarse grained at 18.9ft BGS	699.39						
22	CL-SILTY CLAYS, firm, low plasticity, gray, moist	698.39						
24	END OF BOREHOLE @ 20.0ft BGS							
26								
28								
30								
32								
34								
36								
38								

WELL DETAILS

Screened interval:

713.39 to 712.39ft BGS

5.00 to 6.00ft BGS

Length: 1ft

Diameter: 0.8in

Slot Size: .25" DIAM.

Material: PVC

Sand Pack:

713.59 to 712.29ft BGS

4.80 to 6.10ft BGS

Material: WASHED GRAVEL

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS



OVERBURDEN LOG 17303.GPJ GRA CORP GDT 7/4/13



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 1

PROJECT NAME: GM - WRBC

PROJECT NUMBER: 17303

CLIENT: GENERAL MOTORS CORPORATION

LOCATION: YPSILANTI, MICHIGAN

HOLE DESIGNATION: GP19-03D

DATE COMPLETED: May 27, 2005

DRILLING METHOD: DIRECT PUSH

FIELD PERSONNEL: D. RIVERS

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft BGS	MONITORING WELL	SAMPLE				
				NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm)
	GROUND SURFACE	718.31						
2	CONCRETE, with fine subrounded gravels, white, competent	717.81	CONCRETE SEAL	1DP				1340
4	SM-SILTY SANDS, trace fine gravels, compact, fine grained, trace medium grained, poorly graded, brown, moist	715.81	BENTONITE GROUT 0.75" PVC WELL CASING	2DP				+9999
6	PAINT SLUDGE, trace paper debris, clay to fine gravel size, compact, yellow-green, moist, strong paint-like odor		BENTONITE CHIPS 0.75" PVC WELL SCREEN SAND PACK	3DP				+9999
8	SM-SILTY SANDS, compact, fine grained, trace medium grained, poorly graded, brown, moist, slight paint-like odor	710.81	3-1/2" BOREHOLE	4DP				2495
10				5DP				369
12	- brown-gray, saturated, slight paint-like odor at 11.5ft BGS			6DP				125
14	- dark gray to black at 12.3ft BGS			7DP				9.4
16	- gray at 12.5ft BGS		NATURAL COLLAPSE AND BENTONITE CHIPS					
18	CL-SILTY CLAYS, trace fine sands, firm, low plasticity, gray, moist	700.81						
20	END OF BOREHOLE @ 20.0ft BGS	698.31						
22			<u>WELL DETAILS</u> Screened interval: 713.31 to 712.31ft BGS 5.00 to 6.00ft BGS Length: 1ft Diameter: 0.8in Slot Size: .25" DIAM. Material: PVC Sand Pack: 713.51 to 712.21ft BGS 4.80 to 6.10ft BGS Material: WASHED GRAVEL					
24								
26								
28								
30								
32								
34								
36								
38								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS



OVERBURDEN LOG 17303.GPJ CRA_CORP.GDT 7/4/13



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 1

PROJECT NAME: GM - WRBC

HOLE DESIGNATION: GP19-04D

PROJECT NUMBER: 17303

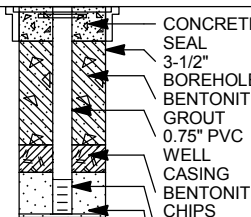
DATE COMPLETED: May 25, 2005

CLIENT: GENERAL MOTORS CORPORATION

DRILLING METHOD: DIRECT PUSH

LOCATION: YPSILANTI, MICHIGAN

FIELD PERSONNEL: D. RIVERS

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft BGS	MONITORING WELL	SAMPLE				
				NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm)
	GROUND SURFACE	718.47						
2	CONCRETE, with fine subrounded gravels, white, competent	717.97	 CONCRETE SEAL 3-1/2" BOREHOLE BENTONITE GROUT 0.75" PVC WELL CASING BENTONITE CHIPS 0.75" PVC WELL SCREEN SAND PACK <u>WELL DETAILS</u> Screened interval: 713.47 to 712.47 ft BGS 5.00 to 6.00 ft BGS Length: 1ft Diameter: 0.8in Slot Size: .25" DIAM. Material: PVC Sand Pack: 713.67 to 712.37ft BGS 4.80 to 6.10ft BGS Material: WASHED GRAVEL	1DP			18.4	
4	SM-SILTY SANDS, trace fine gravels, compact, fine grained, trace medium to coarse grained, poorly graded, orange-brown, moist - brown at 2.5ft BGS - light brown at 3.5ft BGS			2DP			8.3	
6	END OF BOREHOLE @ 6.1ft BGS	712.37						
8								
10								
12								
14								
16								
18								
20								
22								
24								
26								
28								
30								
32								
34								
36								
38								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 1

PROJECT NAME: GM - WRBC

PROJECT NUMBER: 17303

CLIENT: GENERAL MOTORS CORPORATION

LOCATION: YPSILANTI, MICHIGAN

HOLE DESIGNATION: MW19-09

DATE COMPLETED: November 20, 2003

DRILLING METHOD: DIRECT PUSH

FIELD PERSONNEL: D. DEITNER

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft BGS	MONITORING WELL	SAMPLE				
				NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm)
	GROUND SURFACE TOP OF CASING TOP OF RISER	718.44 718.43 718.24						
	CONCRETE	717.84	CONCRETE SEAL					
2	GM-SILTY SAND-GRAVEL, (FILL), compact, fine grained, poorly graded, gray, moist	716.84		1MC		60		0.0
4	SP-SANDS, trace silts (FILL), compact, fine grained, poorly graded, brown, moist	714.64	BENTONITE CHIPS					
	wood debris	713.84	2" PVC WELL CASING			60		0.0
6	SP-SANDS, trace silts (FILL), compact, fine grained, poorly graded, light brown, damp		8-1/4" BOREHOLE	2MC		60		0.0
8	ML-CLAYEY SILTS, (FILL), compact, fine grained, poorly graded, gray, moist	711.44 710.94						
10	SP-SANDS, trace silts (FILL), compact, fine grained, poorly graded, orange-brown, moist	709.94				60		0.0
12	SP-SANDS, trace silts (natural), compact, fine grained, poorly graded, orange-brown, moist		2" PVC WELL SCREEN					
14	- medium grained, trace fine grained rounded gravels at 9.0ft BGS		SAND PACK	3MC		60		0.0
16	- 1" lens orange oxidated at 12.1ft BGS							
18	- gray, very moist to wet at 12.4ft BGS					60		0.0
20	- 3" lens sandy clay at 13.0ft BGS							
22	- 3" lens sandy clay at 13.5ft BGS							
24	- wet at 14.0ft BGS							
26	MH-SANDY SILTS, trace clay (natural), compact, fine grained, poorly graded, gray, wet, rapid dilatancy	701.44		4MC		100		0.0
28	- 2" lens wet sands at 18.2ft BGS	699.34						
30	CI-SILTY CLAY, (natural), firm, medium plasticity, gray, moist, occasional 1mm thick horizontal sand lenses	698.44				100		0.0
32	END OF BOREHOLE @ 20.0ft BGS							
34								
36								
38								

WELL DETAILS

Screened interval:

708.44 to 698.44ft BGS

10.00 to 20.00ft BGS

Length: 10ft

Diameter: 2in

Slot Size: 0.010

Material: PVC

Sand Pack:

710.44 to 698.44ft BGS

8.00 to 20.00ft BGS

Material: #6 SAND

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

OVERBURDEN LOG 17303.GPJ CRA CORP GDT 7/4/13



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 1

PROJECT NAME: GM - WRBC

PROJECT NUMBER: 17303

CLIENT: GENERAL MOTORS CORPORATION

LOCATION: YPSILANTI, MICHIGAN

HOLE DESIGNATION: MW19-25

DATE COMPLETED: May 27, 2005

DRILLING METHOD: DIRECT PUSH/HSA

FIELD PERSONNEL: D. RIVERS

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft BGS	MONITORING WELL	SAMPLE				
				NUMBER	INTERVAL	REC (%)	'N' VALUE	P/D (ppm)
	GROUND SURFACE	718.47						
2	CONCRETE, with fine subrounded gravels, white, competent	717.97	CONCRETE SEAL	1DP				18.4
4	SM-SILTY SANDS, trace fine gravels, compact, fine grained, trace medium to coarse grained, poorly graded, orange-brown, moist - brown at 2.5ft BGS - light brown at 3.5ft BGS		8-1/4" BOREHOLE 2" PVC WELL CASING BENTONITE CHIPS	2DP				8.3
6				3DP				28.4
8	- trace to with clays at 7.5ft BGS - no clays at 8.0ft BGS			4DP				112
10	SP-SANDS, trace silts and fine gravels, compact, fine to coarse grained, poorly graded, brown, moist	708.97	SAND PACK					
12	- brown-gray, saturated at 11.5ft BGS		2" PVC WELL SCREEN	5DP				50.0
14	SM-SILTY SANDS, compact, fine grained, poorly graded, gray, saturated	704.97		6DP				3.4
16				7DP				2.1
18								
20	CL-SILTY CLAYS, firm, low plasticity, gray, moist	699.72						
22	END OF BOREHOLE @ 20.0ft BGS	698.47						
24								
26								
28								
30								
32								
34								
36								
38								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS



OVERBURDEN LOG 17303.GPJ CRA CORP GDT 7/4/13



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 1

PROJECT NAME: RACER - CVO
PROJECT NUMBER: 017303
CLIENT: RACER TRUST
LOCATION: YPSILANTI, MICHIGAN

HOLE DESIGNATION: MW19-30
DATE COMPLETED: September 21, 2011
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: C. BONDY

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft BGS	MONITORING WELL	SAMPLE				
				NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm)
	NORTHING: 268181.53 EASTING: 13343987.88 GROUND SURFACE TOP OF CASING	718.61 718.15						
2	CONCRETE	718.11	CONCRETE	0-2'-005				1.5
4	SP-SAND, fine grained, poorly graded, loose to compact, brown, moist		BENTONITE CHIPS	1GP		70		1.8
6	- fine to coarse grained, compact at 4.0ft BGS		2" PVC WELL CASING					1.4
8	- trace clay at 4.8ft BGS		8-1/2" BOREHOLE					1.1
10	- fine grained, no clay at 5.0ft BGS			2GP		75		0.5
12	- fine to coarse grained at 7.5ft BGS			8-10'-006				1.9
14	- fine grained at 8.0ft BGS			10-12'-007				1.9
16	- fine to coarse grained, with fine to coarse gravel, loose at 9.5ft BGS		2" PVC WELL SCREEN	3GP		70		1.0
18	- compact, very moist at 10.5ft BGS		SAND PACK					1.7
20	- dense, wet at 12.0ft BGS			4GP		70		2.1
22	- compact at 12.5ft BGS							1.0
24	- trace gravel, gray at 15.0ft BGS			5GP		100		0.6
26	CH-SILTY CLAY, trace sand, medium grained, high plasticity, firm to stiff, gray, moist	702.61 702.11						0.1
28	SM-SANDY SILT, fine grained, poorly graded, dense, gray, wet							
30	CH-SILTY CLAY, trace sand, medium grained, high plasticity, stiff, gray, moist	698.61						
32	END OF BOREHOLE @ 25.0ft BGS	693.61						

WELL DETAILS

Screened interval:

708.11 to 698.11ft BGS

10.50 to 20.50ft BGS

Length: 10ft

Diameter: 2in

Slot Size: 0.010

Material: PVC

Seal:

717.61 to 710.11ft BGS

1.00 to 8.50ft BGS

Material: BENTONITE CHIPS

Sand Pack:

710.11 to 698.11ft BGS

8.50 to 20.50ft BGS

Material: SAND

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS

OVERBURDEN LOG 17303.GPJ CRA_CORP.GDT 7/4/13



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 1

PROJECT NAME: RACER - CVO
PROJECT NUMBER: 017303
CLIENT: RACER TRUST
LOCATION: YPSILANTI, MICHIGAN

HOLE DESIGNATION: MW19-31
DATE COMPLETED: September 21, 2011
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: C. BONDY

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft BGS	MONITORING WELL	SAMPLE				
				NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm)
	NORTHING: 268225.3 EASTING: 13343975.43 GROUND SURFACE TOP OF CASING	718.51 718.27						
	CONCRETE	718.16	CONCRETE					
2	SP-SAND (FILL), fine grained, poorly graded, loose, brown, moist - with fine to coarse gravel at 2.0ft BGS	716.01	BENTONITE CHIPS	0-2'-008				0.8
4	CL-SANDY CLAY (FILL), with gravel, fine to coarse sand, fine to coarse gravel, low plasticity, stiff, brown, moist - silty clay, trace fine to medium sand and fine gravel at 3.3ft BGS	715.01	2" PVC WELL CASING	1GP		85		0.9
6		713.01 712.51 712.11	8-1/2" BOREHOLE					2.5
8	SP-SAND (FILL), trace gravel, fine to coarse sand, fine to coarse gravel, poorly graded, compact, brown, moist			2GP		95		0.8
10	CONCRETE	709.76		8-10'-009				1.1
12	GP-GRAVEL (FILL), fine to coarse grained, poorly graded, compact, gray, moist		2" PVC WELL SCREEN	10-12'-010				1.3
14	SP-SAND, fine to medium grained, poorly graded, dense, brown, moist	706.01	SAND PACK	3GP		70		1.8
16	SP-GRAVELLY SAND, fine to coarse sand, fine to coarse gravel, poorly graded, loose, brown, moist - compact, very moist at 10.5ft BGS							1.1
18	SM-SILTY SAND, fine grained, poorly graded, compact, gray, wet - fine to medium grained at 14.5ft BGS - fine grained at 16.8ft BGS	700.51		4GP		100		2.0
20	END OF BOREHOLE @ 20.0ft BGS							2.1
22								
24								
26								
28								
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32								
34								
36								
38								

WELL DETAILS

Screened interval:

710.01 to 700.01ft BGS

8.50 to 18.50ft BGS

Length: 10ft

Diameter: 2in

Slot Size: 0.010

Material: PVC

Seal:

717.51 to 712.01ft BGS

1.00 to 6.50ft BGS

Material: BENTONITE CHIPS

Sand Pack:

712.01 to 700.01ft BGS

6.50 to 18.50ft BGS

Material: SAND

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS

OVERBURDEN LOG 17303.GPJ CRA_CORP.GDT 7/4/13



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 1

PROJECT NAME: RACER - CVO
PROJECT NUMBER: 017303
CLIENT: RACER TRUST
LOCATION: YPSILANTI, MICHIGAN

HOLE DESIGNATION: SB19-49
DATE COMPLETED: February 8, 2012
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: C. BONDY

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft BGS	BOREHOLE INSTALLATION	SAMPLE				
				NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm)
	NORTHING: 268341.12 EASTING: 13343889.99 GROUND SURFACE	718.12						
	ASPHALT	717.62						
2	GP-GRAVEL (FILL), fine to coarse grained, poorly graded, compact, gray, moist	717.12		0-2 -013 1GP		70		0.0
4	SP-SAND (FILL), trace gravel, fine to coarse sand, fine to coarse gravel, poorly graded, loose to compact, brown, moist							0.0
	- with gravel, trace slag and coal, compact to dense at 3.0ft BGS	713.62 713.12						0.0
6	CONCRETE DEBRIS							0.0
8	SP-SAND (FILL), with clay, trace gravel, fine to coarse sand, fine to coarse gravel, poorly graded, loose, brown, wet			2GP		50		0.0
	- with concrete debris at 8.5ft BGS							26.9
10	- trace wood debris, no concrete debris, compact, slight odor at 9.5ft BGS	708.12		10-11.25 -014 3GP		75		155
12	PAINT SLUDGE	706.87						4.3
	SM-SILTY SAND, fine grained, compact, brown, wet, trace staining							2.3
14	- no staining at 11.8ft BGS							0.8
	- compact to dense at 13.5ft BGS							0.0
16	- fine to medium grained at 15.0ft BGS			4GP		70		0.0
18	- fine grained at 18.5ft BGS							0.0
20	CH-SILTY CLAY, high plasticity, firm, gray, moist	698.12						0.0
22	- stiff at 22.0ft BGS			5GP		100		0.0
24								0.0
26	END OF BOREHOLE @ 25.0ft BGS	693.12						
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BENTONITE
CHIPS

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS

OVERBURDEN LOG 17303.GPJ CRA_CORP.GDT 7/4/13



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 1

PROJECT NAME: RACER - CVO
PROJECT NUMBER: 017303
CLIENT: RACER TRUST
LOCATION: YPSILANTI, MICHIGAN

HOLE DESIGNATION: SB19-50
DATE COMPLETED: February 8, 2012
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: C. BONDY

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft BGS	BOREHOLE INSTALLATION	SAMPLE				
				NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm)
	NORTHING: 268384.9 EASTING: 13343866.34 GROUND SURFACE	718.39						
	ASPHALT	718.09						
2	GP-GRAVEL (FILL), fine to coarse grained, poorly graded, compact, gray, moist	717.39		0-2' -015/016 1GP		70		0.0
4	SP-SAND (FILL), with gravel, fine to coarse sand, fine to coarse gravel, poorly graded, compact, brown, moist - trace gravel, loose to compact at 4.0ft BGS							0.0
6								0.0
8	- compact at 7.5ft BGS - wet at 8.0ft BGS - moist at 8.8ft BGS			2GP		70		0.0
10	- compact to dense at 10.0ft BGS							0.0
12	SM-SILTY SAND, fine grained, compact to dense, brown, wet	707.39		9-11' -017 3GP		75		0.0
14	- gray at 13.5ft BGS							0.0
16								0.0
18	CH-SILTY CLAY, high plasticity, stiff, gray, moist	700.89		4GP		100		0.0
20	END OF BOREHOLE @ 20.0ft BGS	698.39						0.0
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NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS



OVERBURDEN LOG 17303.GPJ CRA_CORP.GDT 7/4/13



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 1

PROJECT NAME: RACER - CVO
PROJECT NUMBER: 017303
CLIENT: RACER TRUST
LOCATION: YPSILANTI, MICHIGAN

HOLE DESIGNATION: SB19-57
DATE COMPLETED: September 5, 2012
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: E. MICKELSON

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE INSTALLATION	SAMPLE				
				NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm)
	CONCRETE	0.30						
2	SP-SAND, trace silt and fine gravel, compact, fine grained, orangish brown, moist			1GP		80		0.0
4								0.0
6	- bright yellow paint sludge from 4.9 to 5.2ft BGS	5.70						
	- degraded paper, strong odor from 5.7 to 5.8ft BGS	6.90		5-7.5' -001				>9999
8	- brown, free product mixed with paint sludge from 6.0 to 6.9ft BGS			2GP		100		
10	PAINT SLUDGE, bright yellow, strong odor							
	- gray silty clay, mixed with paint sludge at 6.8ft BGS	10.00						>9999
12	SP-SAND, trace silt, compact, fine grained, dark brown, moist, strong odor							
14	- bright yellow paint sludge, strong odor at 7.3ft BGS							
16	- black sand, strong odor at 7.9ft BGS							
18	- medium grained, brown from 8.5 to 8.9ft BGS							
	- fine gravel and broken glass, free product, brown from 8.7 to 8.8ft BGS							
	- fine sand, light brown, slight odor at 8.9ft BGS							
20	END OF BOREHOLE @ 10.0ft BGS							
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NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS



OVERBURDEN LOG 017303-WI.GPJ CRA CORP.GDT 11/14/13



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 1

PROJECT NAME: RACER - CVO
PROJECT NUMBER: 017303
CLIENT: RACER TRUST
LOCATION: YPSILANTI, MICHIGAN

HOLE DESIGNATION: SB19-73
DATE COMPLETED: December 4, 2012
DRILLING METHOD: DIRECT PUSH
FIELD PERSONNEL: E. MICKELSON

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm)
	ASPHALT	0.40		0-2'-008				0.0
2	SP-SAND, few silt, trace fine gravel, compact, fine grained, brown, moist			1DP		70		0.0
4	- silt lens from 3.7 to 3.8ft BGS - pulverized concrete from 3.8 to 3.9ft BGS - tan from 3.9 to 8.5ft BGS							0.0
6				6-8'-009 2DP		70		0.0
8	- sandy silt, tan/gray from 8.5 to 9.4ft BGS - trace silt, gray from 9.4 to 16.2ft BGS - wet at 10.0ft BGS							0.0
10				10-12.5'-010 3DP		80		0.0
12	- silty clay seam from 11.9 to 12.2ft BGS							0.0
14								0.0
16	- silty clay seam from 16.1 to 16.2ft BGS - silty sand, wet from 16.2 to 18.3ft BGS			4DP		100		0.0
18	CL-CLAY, trace silt, stiff, low plasticity, gray, moist	18.30						0.0
20	END OF BOREHOLE @ 20.0ft BGS	20.00						0.0
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NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS



OVERBURDEN LOG 17303.GPJ CRA_CORP.GDT 7/4/13



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 1

PROJECT NAME: RACER - CVO
PROJECT NUMBER: 017303
CLIENT: RACER TRUST
LOCATION: YPSILANTI, MICHIGAN

HOLE DESIGNATION: SB19-74
DATE COMPLETED: December 4, 2012
DRILLING METHOD: DIRECT PUSH
FIELD PERSONNEL: E. MICKELSON

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm)
	ASPHALT	0.40		0-2'-003				0.0
2	SP-SAND, trace silt, compact, fine grained, brown to dark brown, moist			1DP		70		0.0
4	- silt lens, brown from 2.8 to 2.9ft BGS							0.0
	- tan from 3.3 to 13.3ft BGS							
6								0.0
	- sandy silt seam, tan from 6.8 to 7.1ft BGS			6-8'-004		70		0.0
8				2DP				0.0
	- clay lens, gray from 8.3 to 8.4ft BGS							0.0
	- gray from 8.4 to 15.0ft BGS							0.0
10	- silty sand, wet from 10.0 to 10.2ft BGS							0.0
12				3DP		80		0.0
	- alternating layers of silty clay and fine sand, wet at 12.7ft BGS							0.0
14		14.30						0.0
	CL-CLAY, with silt, firm, low plasticity, gray, moist	15.00						
16	END OF BOREHOLE @ 15.0ft BGS							
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NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS



OVERBURDEN LOG 17303.GPJ CRA_CORP.GDT 7/4/13



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 1

PROJECT NAME: RACER - CVO
PROJECT NUMBER: 017303
CLIENT: RACER TRUST
LOCATION: YPSILANTI, MICHIGAN

HOLE DESIGNATION: SB19-75
DATE COMPLETED: December 4, 2012
DRILLING METHOD: DIRECT PUSH
FIELD PERSONNEL: E. MICKELSON

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm)
	ASPHALT	0.40		0-2'-005				0.0
2	SP-SAND, few silt, trace fine gravel, compact, fine grained, brown, moist			1DP		70		0.0
4	- higher silt content, dark brown, pieces of wooden board from 3.7 to 5.0ft BGS							0.0
6	- fine san, gray, moist, wood board at bottom of run from 5.0 to 10.0ft BGS			6-8'-006		70		0.0
8				2DP				0.0
10	- wet at 10.0ft BGS							0.0
12	- silty clay seam, gray from 11.5 to 11.7ft BGS			10-12.5'-011				0.0
14	- black staining at 12.2ft BGS							0.0
14	- silty clay seam, gray from 12.9 to 13.0ft BGS			3DP		85		0.0
14	- sheen from 14.1 to 14.2ft BGS	14.20		12-14'-007				0.0
16	CL-CLAY, with silt, firm, low plasticity, gray, moist	15.00						
16	END OF BOREHOLE @ 15.0ft BGS							
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NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS



OVERBURDEN LOG 17303.GPJ CRA_CORP.GDT 7/4/13



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 1

PROJECT NAME: RACER - CVO
PROJECT NUMBER: 017303
CLIENT: RACER TRUST
LOCATION: YPSILANTI, MICHIGAN

HOLE DESIGNATION: SB19-76
DATE COMPLETED: December 4, 2012
DRILLING METHOD: DIRECT PUSH
FIELD PERSONNEL: E. MICKELSON

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm)
	ASPHALT	0.40		0-2'-001				0.0
2	SP-SAND, few silt, trace fine gravel, compact, fine grained, brown to dark brown, moist			1DP				
4	- silt seam from 2.7 to 3.2ft BGS							0.0
	- pulverized concrete from 2.8 to 3.0ft BGS							
6	- trace silt, tan from 3.4 to 7.1ft BGS							
	- with silt from 7.1 to 9.5ft BGS			6-8'-002				0.0
8				2DP				
10	- sandy silt, gray from 9.5 to 9.7ft BGS							0.0
	- wet at 10.0ft BGS							
12				3DP				0.0
14	- gray from 13.8 to 20.0ft BGS							0.0
	- clay lens, gray from 14.5 to 14.6ft BGS	14.90						
16	CL-CLAY, with silt, firm, low plasticity, gray, very moist							0.0
18	- no silt, stiff at 17.4ft BGS			4DP				
20	END OF BOREHOLE @ 20.0ft BGS	20.00						0.0
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NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS



OVERBURDEN LOG 17303.GPJ CRA_CORP.GDT 7/4/13



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 1

PROJECT NAME: RACER - CVO
PROJECT NUMBER: 017303
CLIENT: RACER TRUST
LOCATION: YPSILANTI, MICHIGAN

HOLE DESIGNATION: SB19-77
DATE COMPLETED: December 4, 2012
DRILLING METHOD: DIRECT PUSH
FIELD PERSONNEL: E. MICKELSON

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm)
	ASPHALT	0.40		0-2 -012				0.0
2	SP-SAND, trace silt and fine gravel, compact, fine grained, brown, moist - silt seam from 2.6 to 2.7ft BGS			1DP		70		0.0
4	- orangish tan from 4.0 to 11.5ft BGS							0.0
6								0.0
8	- higher silt content from 8.3 to 8.7ft BGS			2DP 6.5-8.5 -013		70		0.0
10	- wet at 10.5ft BGS							0.0
12	- gray from 11.5 to 20.0ft BGS			10-12.5 -014				0.0
14				3DP		80		0.0
16	- sandy silt from 15.9 to 17.5ft BGS							0.0
18	CL-CLAY, trace silt, stiff, low plasticity, gray, moist	17.50		4DP		100		0.0
20	END OF BOREHOLE @ 20.0ft BGS	20.00						0.0
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BENTONITE
CHIPS

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS

OVERBURDEN LOG 17303.GPJ CRA_CORP.GDT 7/4/13



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 1

PROJECT NAME: RACER - CVO
PROJECT NUMBER: 017303
CLIENT: RACER TRUST
LOCATION: YPSILANTI, MICHIGAN

HOLE DESIGNATION: SB19-78
DATE COMPLETED: December 5, 2012
DRILLING METHOD: DIRECT PUSH
FIELD PERSONNEL: E. MICKELSON

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm)
	ASPHALT	0.40		0-2 -031				0.0
2	SP-SAND, trace silt, compact, fine grained, orangish brown, moist			1DP		70		0.0
4	- higher silt content from 3.8 to 4.3ft BGS							0.0
6	- silty sand from 6.9 to 9.2ft BGS			2DP		70		0.0
8	- tan from 8.6 to 12.8ft BGS			7.5-9.5 -032				0.0
10								0.0
12	- wet at 11.6ft BGS			3DP		75		0.0
14	- gray from 12.8 to 20.0ft BGS			12.5-15 -034				0.0
16	- sheen, dark gray, black and dark brown from 15.7 to 16.7ft BGS	16.70		14.7-16.7 -033				123.6
18	CL-CLAY, trace silt, stiff, low plasticity, gray, moist			4DP		90		0.0
20	END OF BOREHOLE @ 20.0ft BGS	20.00						
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BENTONITE
CHIPS

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS

OVERBURDEN LOG 17303.GPJ CRA_CORP.GDT 7/4/13



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 1

PROJECT NAME: RACER - CVO
PROJECT NUMBER: 017303
CLIENT: RACER TRUST
LOCATION: YPSILANTI, MICHIGAN

HOLE DESIGNATION: SB19-79
DATE COMPLETED: December 5, 2012
DRILLING METHOD: DIRECT PUSH
FIELD PERSONNEL: E. MICKELSON

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm)
	ASPHALT	0.40		0-2' -035				0.0
2	SP-SAND, trace silt, compact, fine grained, orangish brown, moist			1DP		65		
4	- with silt, brown from 2.8 to 3.6ft BGS							0.0
	- silty clay seam, brown from 3.0 to 3.1ft BGS							
6	- fine sand, tan from 3.6 to 7.5ft BGS							0.0
8	- higher silt content from 7.5 to 8.4ft BGS			2DP		70		
10				8-10' -036				0.0
12	- silty sand from 11.0 to 17.4ft BGS							0.0
	- wet at 11.8ft BGS							
14	- gray from 12.2 to 20.0ft BGS			3DP		80		0.0
16	- silty clay seam from 15.6 to 15.7ft BGS			12.5-15' -037				0.0
18	- silty clay seam from 16.9 to 17.0ft BGS	17.40		4DP		95		0.0
	- stained black, no odor from 17.0 to 17.4ft BGS							
20	CL-CLAY, trace silt, stiff, low plasticity, gray, moist	20.00						0.0
	END OF BOREHOLE @ 20.0ft BGS							
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BENTONITE
CHIPS

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS

OVERBURDEN LOG 17303.GPJ CRA_CORP.GDT 7/4/13



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 1

PROJECT NAME: RACER - CVO
PROJECT NUMBER: 017303
CLIENT: RACER TRUST
LOCATION: YPSILANTI, MICHIGAN

HOLE DESIGNATION: SB19-80
DATE COMPLETED: December 5, 2012
DRILLING METHOD: DIRECT PUSH
FIELD PERSONNEL: E. MICKELSON

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm)
	ASPHALT	0.40		0-2' -022				0.0
2	SP-SAND, trace silt and fine gravel, compact, fine grained, orangish brown, moist			1DP		60		0.0
4	- concrete from 2.4 to 2.7ft BGS							0.0
	- silt seam from 2.9 to 3.0ft BGS							
6	- higher silt content from 4.1 to 5.3ft BGS							
8				2DP		60		0.0
10				8-10' -023				0.0
12	- wet at 12.0ft BGS							0.0
	- gray from 12.5 to 20.0ft BGS			3DP		80		14.1
14				12.5-15' -025				
16	- sheen, bands of brown, black and dark gray from 15.7 to 16.3ft BGS	16.30		14.3-16.3' -024				443
18	CL-CLAY, trace silt, stiff, low plasticity, gray, moist			4DP		100		0.0
20	END OF BOREHOLE @ 20.0ft BGS	20.00						
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NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS



OVERBURDEN LOG 17303.GPJ CRA_CORP.GDT 7/4/13



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 1

PROJECT NAME: RACER - CVO
PROJECT NUMBER: 017303
CLIENT: RACER TRUST
LOCATION: YPSILANTI, MICHIGAN

HOLE DESIGNATION: SB19-81
DATE COMPLETED: December 5, 2012
DRILLING METHOD: DIRECT PUSH
FIELD PERSONNEL: E. MICKELSON

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm)
	ASPHALT	0.40						
2	SP-SAND, few silt, compact, fine grained, brown, moist			1DP		60		0.0
4	- pulverized concrete from 2.8 to 2.9ft BGS							62.4
	- higher silt content, dark green from 2.9 to 3.4ft BGS							
6	- pulverized concrete from 3.4 to 3.5ft BGS			2DP		20		-
8	- silty sand, dark gray to black, odor, dark gray to black, odor, wood bard particles at bottom of run from 3.5 to 10.5ft BGS							395
10	- very silty sand, gray, wet from 10.5 to 13.0ft BGS							195
12	- silty clay seam, no odor from 12.3 to 12.4ft BGS			3DP		70		0.0
14	- trace silt from 13.0 to 17.5ft BGS							0.0
16	- dark gray to black, no odor from 17.0 to 17.5ft BGS	17.50		4DP		90		0.0
18	CL-CLAY, trace silt, stiff, low plasticity, gray, moist							0.0
20	END OF BOREHOLE @ 20.0ft BGS	20.00						
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BENTONITE
CHIPS

10-12.5
-015

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS

OVERBURDEN LOG 17303.GPJ CRA_CORP.GDT 7/4/13



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 1

PROJECT NAME: RACER - CVO
PROJECT NUMBER: 017303
CLIENT: RACER TRUST
LOCATION: YPSILANTI, MICHIGAN

HOLE DESIGNATION: SB19-82
DATE COMPLETED: December 5, 2012
DRILLING METHOD: DIRECT PUSH
FIELD PERSONNEL: E. MICKELSON

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm)
	ASPHALT	0.40		0-2' -019/ 020				0.0
2	SP-SAND, trace silt and fine gravel, compact, fine grained, brown, moist			1DP				0.0
4	- silt seam, black from 3.1 to 3.2ft BGS - possible piece of fly ash (1x1") at 3.8ft BGS - higher silt content from 4.7 to 5.0ft BGS							0.0
6								0.0
8	- silty sand, orangish brown from 8.1 to 8.7ft BGS			2DP				0.0
10	- tan from 9.6 to 12.7ft BGS			8-10' -021				0.0
12	- wet at 12.2ft BGS - gray from 12.7 to 20.0ft BGS			3DP				0.0
14								0.0
16	- very silty sand from 14.7 to 16.9ft BGS							0.0
18	CL-CLAY, trace silt, stiff, low plasticity, gray, moist	16.90		4DP				0.0
20	END OF BOREHOLE @ 20.0ft BGS	20.00						0.0
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NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS



OVERBURDEN LOG 17303.GPJ CRA_CORP.GDT 7/4/13



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

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PROJECT NAME: RACER - CVO
PROJECT NUMBER: 017303
CLIENT: RACER TRUST
LOCATION: YPSILANTI, MICHIGAN

HOLE DESIGNATION: SB19-83
DATE COMPLETED: December 5, 2012
DRILLING METHOD: DIRECT PUSH
FIELD PERSONNEL: E. MICKELSON

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm)
	ASPHALT	0.40		0-2 -016				0.0
2	SP-SAND, with silt, trace fine gravel, compact, brown to orangish brown, moist			1DP		65		0.0
4	- mixture of pulverized concrete and soil from 2.5 to 3.7ft BGS							0.0
	- piece of concrete from 3.7 to 3.8ft BGS							0.0
	- trace silt, fine sand, tan from 3.8 to 7.4ft BGS							0.0
6								0.0
8	- silty clay seam, tan from 7.4 to 7.6ft BGS			2DP		70		0.0
	- silty sand, brown to orangish brown from 7.6 to 9.1ft BGS			7.5-9.5 -017				0.0
10	- gray from 8.7 to 20.0ft BGS							0.0
	- trace silt from 9.1 to 16.0ft BGS							0.0
12	- black stain, no odor from 11.3 to 11.4ft BGS							0.0
	- wet at 11.5ft BGS							0.0
14	- silty clay seam, gray from 12.4 to 12.6ft BGS			3DP		80		0.0
	- silty clay seam, gray, slight odor from 13.0 to 13.2ft BGS			12.5-15 -018				0.0
16	- few silt from 16.0 to 17.0ft BGS							0.0
18	CL-CLAY, with silt, low plasticity, firm, gray, moist	17.00		4DP		100		0.0
	- stiff from 17.6 to 20.0ft BGS							0.0
20	END OF BOREHOLE @ 20.0ft BGS	20.00						
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BENTONITE
CHIPS

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS

OVERBURDEN LOG 17303.GPJ CRA_CORP.GDT 7/4/13



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

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PROJECT NAME: RACER - CVO
PROJECT NUMBER: 017303
CLIENT: RACER TRUST
LOCATION: YPSILANTI, MICHIGAN

HOLE DESIGNATION: SB19-84
DATE COMPLETED: December 5, 2012
DRILLING METHOD: DIRECT PUSH
FIELD PERSONNEL: E. MICKELSON

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm)
	ASPHALT	0.40						
2	SP-SAND, with silt, fine gravel, compact, fine grained, brown, moist			1DP		60		0.0
4	- pulverized concrete from 2.6 to 2.7ft BGS							0.0
6	- silty clay, brown from 2.7 to 3.1ft BGS							0.0
8	- concrete/metal, reddish from 7.9 to 8.0ft BGS			2DP		65		268
10	- trace silt, black to dark gray, strong odor from 8.0 to 17.2ft BGS							596
12	- silty clay seam, gray from 11.4 to 11.5ft BGS			3DP		80		712
14	- wet at 11.7ft BGS							502
16	- sheen from 14.3 to 15.0ft BGS							0.0
18	CL-CLAY, trace silt, stiff, low plasticity, gray, moist, no odor	17.20		4DP		100		
20	END OF BOREHOLE @ 20.0ft BGS	20.00						
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BENTONITE
CHIPS

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS



OVERBURDEN LOG 17303.GPJ CRA_CORP.GDT 7/4/13



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

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PROJECT NAME: RACER - CVO
PROJECT NUMBER: 017303
CLIENT: RACER TRUST
LOCATION: YPSILANTI, MICHIGAN

HOLE DESIGNATION: SB19-85
DATE COMPLETED: December 6, 2012
DRILLING METHOD: DIRECT PUSH
FIELD PERSONNEL: C. TORT

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm)
	ASPHALT	0.40		0-2'-042				6.7
2	- trace silt, dark brown from 0.7 to 2.5ft BGS			1DP		80		
4	SP-SAND, with fine gravel, fine grained, light brown, moist							20.5
	- paint sludge, yellow, solid, light weight from 2.5 to 3.0ft BGS							
	- trace silt, dark brown from 3.0 to 6.0ft BGS							
6	SM-SILTY SAND, trace fine grained sand	6.00		5-7'-043				356
		7.00						
8	CL-CLAY, brown, moist	8.00		2DP		70		
	SM-SILTY SAND, moist							311
10	- wet at 10.0ft BGS							
	CL-CLAY	10.50						311
12				3DP		75		
	SM-SILTY SAND, dark brown to gray	13.00						5.4
14								
16								9.0
18	CL-CLAY, gray	17.00		4DP		90		
								0.0
20	END OF BOREHOLE @ 20.0ft BGS	20.00						
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BENTONITE
CHIPS

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS

OVERBURDEN LOG 17303.GPJ CRA_CORP.GDT 7/4/13



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

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PROJECT NAME: RACER - CVO
PROJECT NUMBER: 017303
CLIENT: RACER TRUST
LOCATION: YPSILANTI, MICHIGAN

HOLE DESIGNATION: SB19-86
DATE COMPLETED: December 6, 2012
DRILLING METHOD: DIRECT PUSH
FIELD PERSONNEL: C. TORT

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm)
	ASPHALT	0.33						
	SP-SAND, and gravel, fine grained, brown, dry	0.83		0-2' -045				12.2
2	SP-SAND, trace clay, trace fine gravel, trace silt, brown, dry			1DP		60		
4								1.3
6	- silty, gray at 6.0ft BGS							0.0
8				2DP		90		
10				8-10' -046				0.0
12	CL-SILTY CLAY, brown - saturated at 12.0ft BGS	11.00						0.0
14	SP-SAND, trace silt, fine grained, gray, saturated	13.00		3DP		80		0.0
16	SM-SILT, very fine grained, gray, saturated	14.00						0.0
18	CL-CLAY, gray	17.00		4DP		95		0.0
20	END OF BOREHOLE @ 20.0ft BGS	20.00						0.0
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BENTONITE
CHIPS

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS



OVERBURDEN LOG 17303.GPJ CRA_CORP.GDT 7/4/13



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 1

PROJECT NAME: RACER - CVO
PROJECT NUMBER: 017303
CLIENT: RACER TRUST
LOCATION: YPSILANTI, MICHIGAN

HOLE DESIGNATION: SB19-87
DATE COMPLETED: December 6, 2012
DRILLING METHOD: DIRECT PUSH
FIELD PERSONNEL: E. MICKELSON

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm)
	ASPHALT	0.40						
2	SP-SAND, trace silt, compact, fine grained, brown, moist			1DP		75		0.0
4	- pulverized concrete from 2.3 to 2.4ft BGS							0.0
	- tan from 2.4 to 4.3ft BGS							
	- grayish tan from 4.3 to 6.6ft BGS							
6	- slight odor from 5.7 to 6.6ft BGS							143.7
	- perched water from 6.4 to 6.6ft BGS			2DP		75		
8	- clayey silt seam, greenish gray from 6.6 to 7.3ft BGS							536
	- gray, strong odor from 7.3 to 11.0ft BGS							
10								
12	CL-SILTY CLAY, firm, low plasticity, greenish brown, moist, no odor	11.00						747
	- alternating seams of stained sand, black, dark gray, brown, wet from 12.5 to 16.7ft BGS	12.50		3DP		80		
14	SP-SAND, with silt, compact, fine grained, black to gray, wet, strong odor							592
	- sheen, strong odor from 15.9 to 16.7ft BGS							
16								370
18	CL-CLAY, few silt, firm, low plasticity, gray, moist	16.70		4DP		90		
	- fine to medium grained sand, gray, moist, no odor from 17.1 to 17.2ft BGS							0.0
20	- trace silt, stiff from 17.2 to 20.0ft BGS	20.00						
	END OF BOREHOLE @ 20.0ft BGS							
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BENTONITE CHIPS

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS

OVERBURDEN LOG 17303.GPJ CRA_CORP.GDT 7/4/13



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 1

PROJECT NAME: RACER - CVO
PROJECT NUMBER: 017303
CLIENT: RACER TRUST
LOCATION: YPSILANTI, MICHIGAN

HOLE DESIGNATION: SB19-88
DATE COMPLETED: December 6, 2012
DRILLING METHOD: DIRECT PUSH
FIELD PERSONNEL: C. TORT

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm)
	ASPHALT	0.33		0-2'-040 1DP		70		0.0
	SP-SAND, and gravel, fine sand, gray, dry	0.83						
2	SP-SAND, fine grained, brown, moist	1.83						0.0
	CONCRETE	1.92						
4	SP-SAND, trace fine gravel, fine grained, dark brown, moist			2DP		80		0.0
6	SP-SAND, and silt, fine grained, brown, moist	6.00						
8	SM-SILT, trace fine grained sand, moist	8.00		7-9'-041 3DP		70		0.0
10	- saturated at 10.0ft BGS							
12				4DP		80		0.0
14	CL-CLAY, with silt	13.00						
16				5DP		80		0.0
18								
20	END OF BOREHOLE @ 20.0ft BGS	20.00						0.0
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NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS



OVERBURDEN LOG 17303.GPJ CRA_CORP.GDT 7/4/13



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 1

PROJECT NAME: RACER - CVO
PROJECT NUMBER: 017303
CLIENT: RACER TRUST
LOCATION: YPSILANTI, MICHIGAN

HOLE DESIGNATION: SB19-89
DATE COMPLETED: December 6, 2012
DRILLING METHOD: DIRECT PUSH
FIELD PERSONNEL: C. TORT

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm)
	ASPHALT - no gravel from 0.7 to 2.0ft BGS	0.40						14.9
2	SP-SAND, with fine gravel, compact, fine grained, dark gray, moist	2.00		1DP		70		
4	CL-SANDY CLAY, firm, low plasticity, brown, moist	3.00						9.5
		4.00						
6	SP-SAND, with fine gravel, fine grained, dark brown, moist	5.00						53.4
				2DP		70		638
8	CL-SANDY CLAY, brown, moist							
	SP-SAND, with silt, fine grained, gray to dark gray, moist							
10								
	- dark gray at 11.0ft BGS							2438
12	- wet at 12.0ft BGS	12.00		3DP		80		145
	CL-CLAY, gray	13.00						
14	- fine to medium sand lens, gray at 12.5ft BGS							
	SM-SILTY SAND, gray							
16	- sheen from 13.5 to 13.7ft BGS	15.50						28.3
	CL-CLAY, gray			4DP		100		0.0
18								
20	END OF BOREHOLE @ 20.0ft BGS	20.00						
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BENTONITE
CHIPS

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS

OVERBURDEN LOG 17303.GPJ CRA_CORP.GDT 7/4/13



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 1

PROJECT NAME: RACER - CVO
PROJECT NUMBER: 017303
CLIENT: RACER TRUST
LOCATION: YPSILANTI, MICHIGAN

HOLE DESIGNATION: SB19-90
DATE COMPLETED: December 5, 2012
DRILLING METHOD: DIRECT PUSH
FIELD PERSONNEL: E. MICKELSON

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (%)	N' VALUE	P/D (ppm)
	ASPHALT	0.40		0-2' -027				0.0
2	CL-CLAY, with silt, trace fine gravel, firm, low plasticity, brown, moist	2.70		1DP		70		0.0
4	SP-SAND, trace silt, compact, fine grained, orangish tan, moist							0.0
6	- silty clay seam, orangish brown from 4.9 to 5.0ft BGS							0.0
8	- with silt from 5.0 to 11.2ft BGS			2DP		75		0.0
10	- silt seam, gray to dark gray from 8.8 to 8.9ft BGS			8-10' -028/ 029				0.0
12	- light gray at 8.9ft BGS							0.0
14	- silty clay seam, gray from 9.7 to 9.8ft BGS	11.20						0.0
16	- fine sand seam, gray from 11.5 to 11.6ft BGS	12.90		3DP		80		0.0
18	CL-CLAY, with silt, firm, low plasticity, gray, very moist							0.0
20	- fine sand seam, gray from 12.0 to 12.2ft BGS							0.0
22	- fine sand lens, gray (0.05' thick) at 12.5ft BGS	17.00		15-17.5' -030				0.0
24	SP-SAND, trace silt, compact, fine grained, gray, wet			4DP				0.0
26	CL-CLAY, trace silt, stiff, low plasticity, gray, moist							0.0
28	END OF BOREHOLE @ 20.0ft BGS	20.00						0.0
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BENTONITE
CHIPS

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS

OVERBURDEN LOG 17303.GPJ CRA_CORP.GDT 7/4/13



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 1

PROJECT NAME: RACER - CVO
PROJECT NUMBER: 017303
CLIENT: RACER TRUST
LOCATION: YPSILANTI, MICHIGAN

HOLE DESIGNATION: SB19-95
DATE COMPLETED: October 25, 2013
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: C. BONDY

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm)
	DRAINAGE TRENCH	0.75	 BENTONITE CHIPS	1DP 2.5' -001		70		91.7
	CONCRETE	1.25						
2	SP-SAND (FILL), trace silt, compact, fine grained, brown, moist	3.25						
4	- with clay, trace medium to coarse sand and fine gravel at 2.0ft BGS	3.50		2DP		85		>5000
	CL-CLAY (FILL), trace fine sand, stiff, low plasticity, black, very moist	5.00						>5000
6	PAINT SLUDGE, yellow, strong paint-like odor	7.75						>5000
8	SP-SAND (FILL), with fine to coarse gravel and paint sludge, compact, fine grained, poorly graded, brown, moist, strong paint-like odor	12.00		3DP		75		>5000
10	- trace gravel at 5.5ft BGS	12.75						>5000
12	- black at 5.8ft BGS							>5000
14	- brown at 6.0ft BGS							>5000
16	- trace clay at 7.0ft BGS							>5000
	SP-SAND, with silt, compact, fine grained, brown, moist, slight paint-like odor	15.00						>5000
	- brown and gray at 10.0ft BGS							>5000
16	CL-SILTY CLAY, firm, low plasticity, gray, moist							
18	SM-SILTY SAND, compact, fine grained, gray, moist							
	- wet at 14.8ft BGS							
20	END OF BOREHOLE @ 15.0ft BGS							
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NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS



OVERBURDEN LOG 017303-WJ.GPJ CRA CORP.GDT 11/14/13



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 1

PROJECT NAME: RACER - CVO
PROJECT NUMBER: 017303
CLIENT: RACER TRUST
LOCATION: YPSILANTI, MICHIGAN

HOLE DESIGNATION: SB19-96
DATE COMPLETED: October 25, 2013
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: C. BONDY

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm)
	DRAINAGE TRENCH	0.75						
	CONCRETE	1.25						33.4
2	SP-SAND (FILL), trace fine to coarse gravel and silt, compact, fine grained, poorly graded, brown, moist			1DP		75		
4				4' -002				131.6
6	- with gravel and slag, trace yellow paint sludge, dark brown, slight paint-like odor at 5.0ft BGS							>5000
8	- 4" seam of yellow paint sludge, strong paint-like odor at 5.7ft BGS	7.80		2DP		80		>5000
10	SP-SAND, with silt, compact, fine grained, brown, moist, strong paint-like odor							>5000
12	- fine to coarse grained, poorly graded, very moist at 10.0ft BGS	10.75						>5000
12	- black at 10.6ft BGS	11.75		3DP		70		>5000
14	CL-SILTY CLAY, trace fine sand, low plasticity, firm, gray, moist							>5000
16	SM-SILTY SAND, dense, fine grained, gray, very moist	15.00						>5000
16	- wet at 12.0ft BGS							
16	END OF BOREHOLE @ 15.0ft BGS							
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NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS



OVERBURDEN LOG 017303-WI.GPJ CRA CORP.GDT 11/14/13



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 1

PROJECT NAME: RACER - CVO
PROJECT NUMBER: 017303
CLIENT: RACER TRUST
LOCATION: YPSILANTI, MICHIGAN

HOLE DESIGNATION: SB19-97
DATE COMPLETED: October 25, 2013
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: C. BONDY

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHLE	SAMPLE				
				NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm)
0	CONCRETE	0.50						
2	SP-SAND (FILL), with fine to coarse gravel, compact, fine to coarse grained, poorly graded, brown, moist			2 -004 1DP		70		81.8
4	- trace gravel, fine to medium grained sand at 1.5ft BGS							37.7
6	- trace clay at 5.0ft BGS							73.1
8				2DP	60			220.4
9	SP-SAND, with silt, compact, fine grained, brown, moist	9.00						282.3
10								249.7
12				3DP	70			
13.2	- black at 13.2ft BGS	13.25						
14	CL-SILTY CLAY, low plasticity, firm, gray, moist	14.25						
15	SM-SILTY SAND, compact, fine grained, gray, wet	15.00						
15	END OF BOREHOLE @ 15.0ft BGS							
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NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS



OVERBURDEN LOG 017303-WI.GPJ CRA CORP.GDT 11/14/13



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 1

PROJECT NAME: RACER - CVO
PROJECT NUMBER: 017303
CLIENT: RACER TRUST
LOCATION: YPSILANTI, MICHIGAN

HOLE DESIGNATION: SB19-98
DATE COMPLETED: October 25, 2013
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: C. BONDY

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm)
	ASPHALT	0.70						
2	GP-GRAVEL (FILL), compact, fine to coarse grained, poorly graded, light gray, moist	1.00		1DP 2.5' -003		85		7.3
4	SP-SAND (FILL), trace fine to coarse gravel, compact, fine to medium grained, poorly graded, brown, moist							7.9
6								14.8
8	- trace clay, no gravel, fine grained at 7.0ft BGS			2DP		75		18.4
10	SP-SAND, with silt, compact, fine grained, brown, moist	8.00						
12	- brown and gray at 8.5ft BGS							6.1
14	- trace clay, compact to dense at 10.0ft BGS							
16	- gray, wet at 10.8ft BGS			3DP		85		404
18	SM-SILTY SAND, compact, fine grained, gray, wet	13.00						
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	END OF BOREHOLE @ 15.0ft BGS	15.00						

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS



OVERBURDEN LOG 017303-WI.GPJ CRA CORP.GDT 11/14/13



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 1

PROJECT NAME: RACER - CVO
PROJECT NUMBER: 017303
CLIENT: RACER TRUST
LOCATION: YPSILANTI, MICHIGAN

HOLE DESIGNATION: SB19-99
DATE COMPLETED: October 25, 2013
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: C. BONDY

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm)
	CONCRETE	0.75						
2	SP-SAND (FILL), trace fine to coarse gravel, compact, fine to medium grained, poorly graded, brown, moist			2' -005 1DP		70		4719
4	- with clay at 1.3ft BGS							676
6	- no clay or gravel at 2.0ft BGS							2758
8	- with clay at 5.0ft BGS			2DP	60			>5000
10	SP-SAND, with silt, compact, fine grained, brown, moist	8.50						>5000
12	- fine to coarse grained, trace fine gravel at 10.0ft BGS	10.75						>5000
14	SM-SILTY SAND, compact, fine grained, gray, very moist, petroleum-like odor			3DP	70			2994
16	- 1" silty clay lens at 13.8ft BGS	15.00						
18	END OF BOREHOLE @ 15.0ft BGS							
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NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS



OVERBURDEN LOG 017303-WI.GPJ CRA CORP.GDT 11/14/13



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

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PROJECT NAME: RACER - CVO
PROJECT NUMBER: 017303
CLIENT: RACER TRUST
LOCATION: YPSILANTI, MICHIGAN

HOLE DESIGNATION: SB19-100
DATE COMPLETED: October 25, 2013
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: C. BONDY

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm)
	CONCRETE	0.50						
2	SP-SAND (FILL), compact, fine grained, brown, moist			1DP		80		25.4
4	- trace fine to coarse gravel, dark brown at 4.5ft BGS			4' -006				66.4
6	PAINT SLUDGE, yellow and green, paint-like odor	5.25 6.00						>5000
8	SP-SAND (FILL), with clay, trace fine to coarse gravel, compact, fine to medium grained, poorly graded, dark brown, moist, paint-like odor			2DP		75		>5000
10	- 3" paint sludge at 7.0ft BGS - with gravel at 7.3ft BGS	9.25 10.50						4410
12	SP-SAND, with silt, compact, fine grained, brown, moist	11.50		3DP		75		705.9
14	CL-SILTY CLAY, firm, low plasticity, brown, moist							
16	SM-SILTY SAND, compact, fine grained, brown and gray, moist	15.00						
18	- 4" silty clay lens at 11.75ft BGS - black, wet at 12.0ft BGS							
20	END OF BOREHOLE @ 15.0ft BGS							
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BENTONITE CHIPS

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS

OVERBURDEN LOG 017303-WJ.GPJ CRA CORP.GDT 11/14/13



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 1

PROJECT NAME: RACER - CVO
PROJECT NUMBER: 017303
CLIENT: RACER TRUST
LOCATION: YPSILANTI, MICHIGAN

HOLE DESIGNATION: SB19-101
DATE COMPLETED: October 25, 2013
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: C. BONDY

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm)
	CONCRETE	0.50						
2	SP-SAND (FILL), trace fine to coarse gravel, compact, fine grained, poorly graded, brown, moist			1DP		70		57.3
4	- dark brown at 4.5ft BGS			4' -007				314.8
6	- with clay and gravel, trace yellow paint sludge, paint-like odor at 5.0ft BGS							>5000
8				2DP		55		2283
10	SP-SAND, with silt, compact, fine grained, brown, moist, paint-like odor	9.00						
12	- gray at 10.0ft BGS							
12	CL-SILTY CLAY, firm, low plasticity, gray, moist	11.00						1411
14	SM-SILTY SAND, compact, fine grained, gray, moist	11.75		3DP		50		389.6
14	- black, wet at 14.3ft BGS							
16	END OF BOREHOLE @ 15.0ft BGS	15.00						
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NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS



OVERBURDEN LOG 017303-WJ.GPJ CRA CORP.GDT 11/14/13



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

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PROJECT NAME: RACER - CVO
PROJECT NUMBER: 017303
CLIENT: RACER TRUST
LOCATION: YPSILANTI, MICHIGAN

HOLE DESIGNATION: SB19-102
DATE COMPLETED: November 6, 2013
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: C. TORT

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm)
	CONCRETE	0.50	CONCRETE	0-2'				825.2
2	SP-SAND (FILL), trace silt, compact, fine grained, poorly graded, brown, dry			1DP		70		
4				2-5'				68.3
6	SP-SAND (FILL), trace fine concrete fragments, compact, fine grained, poorly graded, brown, dry	5.50 6.00		5-8'				518.4
8	SP-SAND, compact, fine grained, brown, moist	8.00	BENTONITE CHIPS	2DP		80		
10	SP-SAND, with silt, compact, fine grained, poorly graded, brown, moist	10.00		8-10'				112.6
	END OF BOREHOLE @ 10.0ft BGS							
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NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS



OVERBURDEN LOG 017303-WI.GPJ CRA CORP.GDT 11/14/13



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

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PROJECT NAME: RACER - CVO
PROJECT NUMBER: 017303
CLIENT: RACER TRUST
LOCATION: YPSILANTI, MICHIGAN

HOLE DESIGNATION: SB19-103
DATE COMPLETED: November 6, 2013
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: C. TORT

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm)
	CONCRETE	0.50	CONCRETE	0-2'				59.8
2	SP-SAND (FILL), trace fine gravel, compact, fine grained, poorly graded, brown, dry			1DP		70		
4				2-5'				12.7
6	CONCRETE FRAGMENTS, fine, gray, dry	5.50		5-8'				625.8
8	SP-SAND, trace silt, compact, fine grained, poorly graded, brown, moist	6.00	BENTONITE CHIPS	2DP		80		
10	SP-SAND, with silt, compact, fine grained, poorly graded, brown, moist	8.00		8-10'				84.3
10	END OF BOREHOLE @ 10.0ft BGS	10.00						
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NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS



OVERBURDEN LOG 017303-WI.GPJ CRA CORP.GDT 11/14/13



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

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PROJECT NAME: RACER - CVO
PROJECT NUMBER: 017303
CLIENT: RACER TRUST
LOCATION: YPSILANTI, MICHIGAN

HOLE DESIGNATION: SB19-104
DATE COMPLETED: November 6, 2013
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: C. TORT

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm)
	CONCRETE	0.50	CONCRETE	0-2'				9.4
2	SP-SAND (FILL), trace fine gravel, compact, fine grained, poorly graded, brown, dry			1DP		60		
4	- dark brown from 4.2 to 4.5ft BGS			2-5'				51.7
6	SP-SAND (FILL), with fine concrete fragments, compact, fine grained, poorly graded, brown, dry	5.50 6.00	BENTONITE CHIPS	5-8'				17.4
8	SP-SAND, with silt, compact, fine grained, poorly graded, brown, moist			2DP		76		
10	- fine gravel lens from 9.1 to 9.8ft BGS							123.5
10	END OF BOREHOLE @ 10.0ft BGS	10.00						
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NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS



OVERBURDEN LOG 017303-WJ.GPJ CRA CORP.GDT 11/14/13



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

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PROJECT NAME: RACER - CVO
PROJECT NUMBER: 017303
CLIENT: RACER TRUST
LOCATION: YPSILANTI, MICHIGAN

HOLE DESIGNATION: SB19-105
DATE COMPLETED: November 6, 2013
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: C. TORT

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm)
	CONCRETE	0.50	CONCRETE	0-2'				12.6
2	SP-SAND (FILL), compact, fine grained, poorly graded, brown, dry			1DP		68		
4	- fine gravel lens at 4.5ft BGS			2-5'				11.0
6	CONCRETE FRAGMENTS, trace fine grained sand, compact, fine brown, dry	5.00						
8	PAINT SLUDGE, trace fine grained sand, brown/yellow, strong paint odor	6.00	BENTONITE CHIPS					987.3
10	- paper fiber, brown, strong paint odor at 7.0ft BGS	7.50		2DP		68		
12	SP-SAND, trace fine gravel, compact, fine grained, poorly graded, dark brown, moist	8.00		8-10'				879.3
14	SP-SAND, with silt, trace fine gravel, fine grained, poorly graded, brown, moist	10.00						
16	- fine gravel lens at 9.5ft BGS							
18	END OF BOREHOLE @ 10.0ft BGS							
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NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS

OVERBURDEN LOG 017303-WI.GPJ CRA CORP.GDT 11/14/13



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

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PROJECT NAME: RACER - CVO
PROJECT NUMBER: 017303
CLIENT: RACER TRUST
LOCATION: YPSILANTI, MICHIGAN

HOLE DESIGNATION: SB19-106
DATE COMPLETED: November 6, 2013
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: C. TORT

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm)
	CONCRETE	0.50	CONCRETE	0-2'				110.4
2	SP-SAND (FILL), compact, fine grained, poorly graded, brown, dry			1DP		60		1571
	CONCRETE FRAGMENTS, fine, gray	2.90 3.00						
4	CL-CLAY (FILL), with fine gravel, low plasticity, dark brown, moist	3.60						
	PAINT SLUDGE, yellow, strong paint odor - fine sand, with gravel mix at 5.0ft BGS	5.50 6.50	BENTONITE CHIPS					4629
6	SP-SAND (FILL), with fine gravel, few concrete fragments, compact, fine grained, light brown, dry	7.70 8.00		2DP		86		1044
8	PAINT SLUDGE, yellow, strong paint odor - CL-CLAY, dark brown, low plasticity, moist at 7.3ft BGS			8.5-10'				
10	- plastic at 7.6ft BGS	10.00						
12	SP-SAND, compact, fine grained, dark brown, reddish tint, moist							
14	SP-SAND, with silt, compact, fine grained, brown, moist							
16	END OF BOREHOLE @ 10.0ft BGS							
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NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS

OVERBURDEN LOG 017303-WI.GPJ CRA CORP.GDT 11/14/13



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

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PROJECT NAME: RACER - CVO
PROJECT NUMBER: 017303
CLIENT: RACER TRUST
LOCATION: YPSILANTI, MICHIGAN

HOLE DESIGNATION: SB19-107
DATE COMPLETED: November 6, 2013
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: C. TORT

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm)
	CONCRETE	0.50	CONCRETE	0-2'				133.3
2	SP-SAND (FILL), trace fine gravel, compact, fine grained, poorly graded, brown, dry			1DP 2-4.5'		66		94.8
4								
6	SP-SAND (FILL), with fine gravel, with clay, compact, fine grained, poorly graded, gray, moist	4.70 5.00						5000
8	SP-SAND (FILL), compact, fine grained, brown, moist	6.00 6.50 7.00		2DP 3DP		90 68		5000
10	PAINT SLUDGE, yellow, strong paint odor	8.00	BENTONITE CHIPS	9-10'				5000
12	CL-CLAY (FILL), with gravel, low plasticity, dark brown, moist	9.00						5000
14	VOID, dark brown liquid, wet, sweet solvent/oil odor	12.00						754.5
16	CL-CLAY (FILL), medium plasticity, gray, moist, oil/paint odor	13.00						
18	SP-SAND, compact, fine grained, poorly graded, brown, moist	15.00						
20	CL-CLAY, medium plasticity, brown, moist							
22	SP-SAND, with silt, compact, fine grained, poorly graded, gray, moist							
24	END OF BOREHOLE @ 15.0ft BGS							
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NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS



OVERBURDEN LOG 017303-WI.GPJ CRA CORP.GDT 11/14/13



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

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PROJECT NAME: RACER - CVO
PROJECT NUMBER: 017303
CLIENT: RACER TRUST
LOCATION: YPSILANTI, MICHIGAN

HOLE DESIGNATION: SB19-108
DATE COMPLETED: November 6, 2013
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: C. TORT

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm)
	CONCRETE	0.50	CONCRETE	0-2'				65
2	SP-SAND (FILL), trace fine gravel, compact, fine grained, poorly graded, brown, dry			1DP		64		3691
4	PAINT SLUDGE, yellow and gray, strong paint odor	3.50						5000
6	SP-SAND (FILL), compact, fine grained, dark brown, with yellow paint, moist, semi paint odor	5.50	BENTONITE CHIPS	2DP		92		687.3
8	SP-SAND, with silt, compact, fine grained, brown, moist	7.50		8.5-10'				
10	END OF BOREHOLE @ 10.0ft BGS	10.00						
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NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS



OVERBURDEN LOG 017303-WJ.GPJ CRA CORP.GDT 11/14/13



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 1

PROJECT NAME: RACER - CVO
PROJECT NUMBER: 017303
CLIENT: RACER TRUST
LOCATION: YPSILANTI, MICHIGAN

HOLE DESIGNATION: SB19-109
DATE COMPLETED: November 6, 2013
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: C. TORT

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm)
	CONCRETE	0.50	CONCRETE	0-2'				11.7
2	SP-SAND (FILL), trace fine gravel, compact, fine grained, poorly graded, dark brown, dry			1DP		54		
4	- increase in gravel content at 3.0ft BGS			2-5'				103.7
6	CL-CLAY (FILL), medium plasticity, sticky, dark brown, moist, slight paint odor	6.00 6.50 7.00	BENTONITE CHIPS					274.4
8	PAINT SLUDGE, yellow, strong paint odor - SP-SAND, few fine gravel, compact, fine grained, dark brown, moist at 6.8ft BGS			2DP		62		
10	SP-SAND, with silt, compact, fine grained, dark brown, moist	10.00		8-9'				104.5
12	- brown at 8.0ft BGS - gray at 9.0ft BGS							
14	END OF BOREHOLE @ 10.0ft BGS							
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NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS



OVERBURDEN LOG 017303-WI.GPJ CRA CORP.GDT 11/14/13



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

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PROJECT NAME: RACER - CVO
PROJECT NUMBER: 017303
CLIENT: RACER TRUST
LOCATION: YPSILANTI, MICHIGAN

HOLE DESIGNATION: SB19-110
DATE COMPLETED: November 6, 2013
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: C. TORT

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm)
	CONCRETE	0.50	CONCRETE	0-2'				20.8
2	SP-SAND (FILL), trace fine gravel, compact, fine grained, poorly graded, brown, dry - brick fragments at 1.6ft BGS			1DP		42		
4				2-5'				255.3
6	SP-SAND (FILL), few fine gravel, trace concrete fragments, compact, fine grained, poorly graded, brown, dry	5.50 6.00		5-8'				733.7
8	SP-SAND, compact, fine grained, brown, dry - moist at 7.0ft BGS	8.00	BENTONITE CHIPS	2DP		68		
10	SP-SAND, with silt, compact, fine grained, brown, moist	10.00		8-10'				698.9
12	END OF BOREHOLE @ 10.0ft BGS							
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NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS



OVERBURDEN LOG 017303-WJ.GPJ CRA CORP.GDT 11/14/13



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

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PROJECT NAME: RACER - CVO
PROJECT NUMBER: 017303
CLIENT: RACER TRUST
LOCATION: YPSILANTI, MICHIGAN

HOLE DESIGNATION: SB19-111
DATE COMPLETED: November 6, 2013
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: C. TORT

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm)
	ASPHALT							
2	GP-GRAVEL (FILL), with fine grained sand, compact, fine gravel, dark brown, dry	0.80		0-2'				2.0
4	SP-SAND, trace fine gravel, compact, fine grained, poorly graded, brown, dry	1.20		1DP 2-3.7'		66		1.8
6	PAINT SLUDGE, yellow, strong paint odor	4.70						
6	SP-SAND (FILL), compact, fine grained, dark brown and yellow, dry, strong paint odor	5.00						
6	PAINT SLUDGE, yellow, strong paint odor	5.50						
8	SP-SAND, trace fine gravel, compact, dark brown, dry, strong paint odor	6.70						
8	PAINT SLUDGE, yellow, strong paint odor	7.00						
8	SP-SAND, trace fine gravel, compact, dark brown, dry, strong paint odor	8.00		2DP 8-9'		80		240.9
10	ML-SILT, compact, gray, moist	10.00						
12	SP-SILTY SAND, compact, fine grained, gray, moist							
12	- dark gray at 9.0ft BGS							
14	END OF BOREHOLE @ 10.0ft BGS							
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NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS



OVERBURDEN LOG 017303-WI.GPJ CRA CORP.GDT 11/14/13



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

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PROJECT NAME: RACER - CVO
PROJECT NUMBER: 017303
CLIENT: RACER TRUST
LOCATION: YPSILANTI, MICHIGAN

HOLE DESIGNATION: SB19-112
DATE COMPLETED: November 6, 2013
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: C. TORT

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm)
	CONCRETE	0.50	CONCRETE	0-2'				32.7
2	SP-SAND (FILL), compact, fine grained, brown, dry	2.50		1DP		60		
4	SP-SAND, trace gravel, compact, fine grained, poorly graded, dark brown, dry			2-5'				167.2
6	- fine gravel lens at 5.3ft BGS		BENTONITE CHIPS	5-8'				54.5
8	CL-SILTY CLAY, soft, medium plasticity, brown, moist	7.00 7.50		2DP		76		
10	SP-SAND, with silt, compact, fine grained, poorly graded, brown, moist			8-10'				115.4
	END OF BOREHOLE @ 10.0ft BGS	10.00						
12								
14								
16								
18								
20								
22								
24								
26								
28								
30								
32								
34								
36								
38								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS



OVERBURDEN LOG 017303-WI.GPJ CRA CORP.GDT 11/14/13



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 1

PROJECT NAME: GM - WRBC

PROJECT NUMBER: 17303

CLIENT: GENERAL MOTORS CORPORATION

LOCATION: YPSILANTI, MICHIGAN

HOLE DESIGNATION: SB23-01

DATE COMPLETED: June 1, 2005

DRILLING METHOD: DIRECT PUSH

FIELD PERSONNEL: D. RIVERS

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft BGS	BOREHOLE INSTALLATION	SAMPLE				
				NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm)
	GROUND SURFACE	717.30						
	ASPHALT, black	717.00	ASPHALT PATCH					
2	SM-SILTY SANDS, loose, fine to coarse grained, poorly graded, dark brown, moist			1DP				28.3
4	- brown, some orange streaking, compact at 0.8ft BGS			2DP				26.9
6			2" BOREHOLE	3DP				27.2
8	- trace clays, light brown and orange brown, moist to very moist at 6.8ft BGS			4DP				19.7
10	- no clays, brown, moist, trace orange streaking at 9.0ft BGS		BENTONITE CHIPS	5DP				97.3
12	- very moist to saturated at 10.5ft BGS			6DP				383
14	- orange-brown and gray, saturated at 11.0ft BGS			7DP				292
16	- gray, slight petroleum-like odor, increase in silt content at 13.0ft BGS							
18	CL-SILTY CLAYS, trace fine sands, stiff, low plasticity, gray, moist	699.80						
20	END OF BOREHOLE @ 20.0ft BGS	697.30						
22								
24								
26								
28								
30								
32								
34								
36								
38								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

OVERBURDEN LOG 17303.GPJ CRA_CORP.GDT 7/4/13



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 1

PROJECT NAME: GM - WRBC

PROJECT NUMBER: 17303

CLIENT: GENERAL MOTORS CORPORATION

LOCATION: YPSILANTI, MICHIGAN

HOLE DESIGNATION: SB23-02

DATE COMPLETED: June 3, 2005

DRILLING METHOD: DIRECT PUSH

FIELD PERSONNEL: D. RIVERS

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft BGS	BOREHOLE INSTALLATION	SAMPLE				
				NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm)
	GROUND SURFACE	716.95						
	ASPHALT, black	716.65	ASPHALT PATCH					
2	SM-SILTY SANDS, loose, fine to coarse grained, poorly graded, dark brown, moist			1DP				12.4
4	- brown, trace orange streaks at 0.8ft BGS							
	- fine grained, compact at 2.0ft BGS							
6	- light brown and orange brown mottled at 4.5ft BGS			2DP				7.2
8	- with clays, increase in moisture content at 7.8ft BGS							
10	- no clays, decrease in moisture content, light brown at 8.8ft BGS			3DP				13.4
12	- brown, very moist to saturated at 10.5ft BGS							
	- saturated at 11.0ft BGS			4DP				15.4
14	- gray, slight petroleum-like odor, increase in silt content at 13.3ft BGS							
16	- medium to dark gray, moderate petroleum-like odor at 14.0ft BGS			5DP				328
18	- dark gray to black stained, strong petroleum-like odor, heavy sheen to water at 15.5ft BGS							
20	- dark gray, dark amber coloration to liquid, NAPL, strong petroleum-like odor at 16.3ft BGS	700.20		6DP				2589
22	CL-SILTY CLAYS, trace fine sands, stiff, low plasticity, gray, moist, slight petroleum-like odor	696.95		7DP				700
24	END OF BOREHOLE @ 20.0ft BGS							
26								
28								
30								
32								
34								
36								
38								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

OVERBURDEN LOG 17303.GPJ CRA_CORP.GDT 7/4/13



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 1

PROJECT NAME: GM - WRBC

HOLE DESIGNATION: SB23-03

PROJECT NUMBER: 17303

DATE COMPLETED: June 3, 2005

CLIENT: GENERAL MOTORS CORPORATION

DRILLING METHOD: DIRECT PUSH

LOCATION: YPSILANTI, MICHIGAN

FIELD PERSONNEL: D. RIVERS

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft BGS	BOREHOLE INSTALLATION	SAMPLE				
				NUMBER	INTERVAL	REC (%)	'N' VALUE	P/D (ppm)
	GROUND SURFACE	718.05						
	ASPHALT, black	717.75	ASPHALT PATCH	1DP				18.2
2	SM-SILTY SANDS, trace fine gravels, compact, fine grained, poorly graded, brown, moist			2DP				20.2
4	- brown with orange streaks, no gravels at 1.5ft BGS		2" BOREHOLE	3DP				19.6
6				4DP				29.2
8	- very moist, trace clays, increase in silt content at 7.0ft BGS							
10	- 1" CL-SILTY CLAY seam, firm, low plasticity, brown-gray, moist at 7.5ft BGS		BENTONITE CHIPS					
12	- brown-gray, no clays at 9.0ft BGS							
14	- dark gray, slight petroleum-like odor at 12.0ft BGS			5DP				363
16	- black staining, saturated, strong petroleum-like odor, slight sheen to water at 12.5ft BGS			6DP				2800
18	- dark gray at 14.0ft BGS	700.30						
20	- dark gray to black, strong petroleum-like odor at 16.0ft BGS	698.05		7DP				1067
22	CL-SILTY CLAYS, trace fine sands, stiff, low plasticity, gray, moist, slight petroleum-like odor							
24	END OF BOREHOLE @ 20.0ft BGS							
26								
28								
30								
32								
34								
36								
38								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS



OVERBURDEN LOG 17303.GPJ CRA_CORP.GDT 7/4/13



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 1

PROJECT NAME: GM - WRBC

HOLE DESIGNATION: SB23-04

PROJECT NUMBER: 17303

DATE COMPLETED: June 3, 2005

CLIENT: GENERAL MOTORS CORPORATION

DRILLING METHOD: DIRECT PUSH

LOCATION: YPSILANTI, MICHIGAN

FIELD PERSONNEL: D. RIVERS

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft BGS	BOREHOLE INSTALLATION	SAMPLE				
				NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm)
	GROUND SURFACE	717.18						
	ASPHALT, black	716.88	ASPHALT PATCH	1DP				24.8
2	SM-SILTY SANDS, trace fine gravels, compact, fine grained, poorly graded, brown, moist			2DP				27.1
4	- light brown with orange streaking at 1.8ft BGS			3DP				203
6			2" BOREHOLE	4DP				259
8	- with clays, brown-gray, very moist at 7.3ft BGS			5DP				475
10	- brown with orange streaking at 8.0ft BGS			6DP				509
12	- no clays, light brown at 9.6ft BGS		BENTONITE CHIPS	7DP				261
14	- orange streaking, very moist at 10.8ft BGS							
16	- saturated at 11.5ft BGS							
18	- 4" CL-SILTY CLAY seam, firm, low plasticity, brown and gray mottled, moist at 13.5ft BGS							
20	- black staining, strong petroleum-like odor at 14.0ft BGS	700.18						
22	- moderate sheen to water, very strong petroleum-like odor at 16.5ft BGS							
24	CL-SILTY CLAYS, trace fine sands, stiff, low plasticity, gray, moist, slight petroleum-like odor							
26		697.18						
28	END OF BOREHOLE @ 20.0ft BGS							
30								
32								
34								
36								
38								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS



OVERBURDEN LOG 17303.GPJ CRA_CORP.GDT 7/4/13

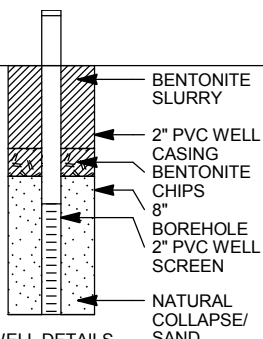


STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 1

PROJECT NAME: RACER - CVO
PROJECT NUMBER: 017303
CLIENT: RACER TRUST
LOCATION: YPSILANTI, MICHIGAN

HOLE DESIGNATION: SG19-01
DATE COMPLETED: February 6, 2012
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: C. BONDY

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft BGS	MONITORING WELL	SAMPLE				
				NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm)
	NORTHING: 268347.32 EASTING: 13343914.91	TOP OF CASING 720.75 GROUND SURFACE 718.32						
	ASPHALT	717.97	 WELL DETAILS Screened interval: 715.82 to 713.82ft BGS 2.50 to 4.50ft BGS Length: 2ft Diameter: 2in Slot Size: 0.010 Material: PVC Seal: 716.82 to 716.32ft BGS 1.50 to 2.00ft BGS Material: BENTONITE CHIPS Sand Pack: 716.32 to 713.82ft BGS 2.00 to 4.50ft BGS Material: SAND	1GP		50		0.0
	GP-GRAVEL (FILL), fine to coarse grained, poorly graded, compact, gray, moist	717.32						
2	SP-SAND (FILL), with gravel, trace clay, fine to coarse sand, fine to coarse gravel, poorly graded, loose to compact, brown, moist - trace paint sludge at 1.5ft BGS - no paint sludge, compact at 2.0ft BGS							
4	- with clay, loose at 5.0ft BGS - wet at 5.3ft BGS							
6	CONCRETE DEBRIS	712.07 711.82 711.32						
	SP-SAND (FILL), with clay and gravel, fine to coarse sand, fine to coarse gravel, poorly graded, loose, brown, wet		2GP		80			0.7
8	END OF BOREHOLE @ 7.0ft BGS							
10								
12								
14								
16								
18								
20								
22								
24								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

OVERBURDEN LOG 17303.GPJ CRA_CORP.GDT 7/4/13

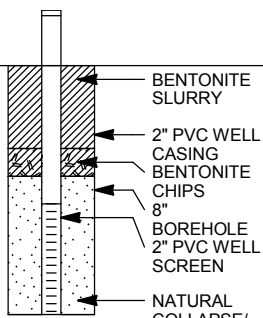


STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 1

PROJECT NAME: RACER - CVO
PROJECT NUMBER: 017303
CLIENT: RACER TRUST
LOCATION: YPSILANTI, MICHIGAN

HOLE DESIGNATION: SG19-02
DATE COMPLETED: February 6, 2012
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: C. BONDY

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft BGS	MONITORING WELL	SAMPLE				
				NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm)
	NORTHING: 268347.92 EASTING: 13343934.19 TOP OF CASING GROUND SURFACE	720.67 720.67						
	ASPHALT	720.32	 WELL DETAILS Screened interval: 718.17 to 716.17ft BGS 2.50 to 4.50ft BGS Length: 2ft Diameter: 2in Slot Size: 0.010 Material: PVC Seal: 719.17 to 718.67ft BGS 1.50 to 2.00ft BGS Material: BENTONITE CHIPS Sand Pack: 718.67 to 716.17ft BGS 2.00 to 4.50ft BGS Material: SAND					
2	GP-GRAVEL (FILL), fine to coarse grained, poorly graded, compact, gray, moist	719.67		1GP		60		0.0
4	SP-SAND (FILL), with gravel, trace clay, fine to coarse sand, fine to coarse gravel, poorly graded, loose to compact, brown, moist - trace brick debris and paint sludge at 3.0ft BGS - no brick or pain sludge at 3.8ft BGS - 1" concrete debris at 4.5ft BGS							0.7
6	- with clay, loose, wet at 5.5ft BGS			2GP		80		0.7
8	END OF BOREHOLE @ 7.0ft BGS	713.67						
10								
12								
14								
16								
18								
20								
22								
24								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE



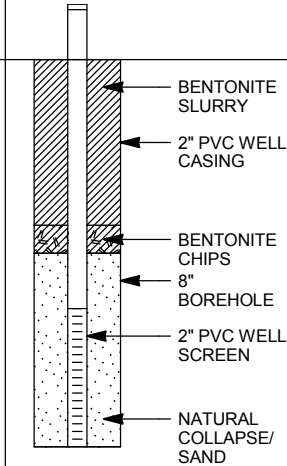
STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 1

PROJECT NAME: RACER - CVO
PROJECT NUMBER: 017303
CLIENT: RACER TRUST
LOCATION: YPSILANTI, MICHIGAN

HOLE DESIGNATION: SG19-03
DATE COMPLETED: February 6, 2012
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: C. BONDY

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft BGS	MONITORING WELL	SAMPLE				
				NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm)
	NORTHING: 268348.55 EASTING: 13343954.42 TOP OF CASING GROUND SURFACE	719.12 718.38						
	ASPHALT							
	GP-GRAVEL (FILL), fine to coarse grained, poorly graded, compact, gray, moist	717.78 717.38						0.0
2	SP-SAND (FILL), with gravel, trace clay, fine to coarse sand, fine to coarse gravel, poorly graded, loose to compact, brown, moist - compact at 2.0ft BGS			1GP		70		
4								0.0
6				2GP		70		0.0
	- with concrete debris at 6.8ft BGS							
	END OF BOREHOLE @ 7.0ft BGS	711.38						
8								
10								
12								
14								
16								
18								
20								
22								
24								



WELL DETAILS
Screened interval:
713.88 to 711.38ft BGS
4.50 to 7.00ft BGS
Length: 2.5ft
Diameter: 2in
Slot Size: 0.010
Material: PVC
Seal:
715.38 to 714.88ft BGS
3.00 to 3.50ft BGS
Material: BENTONITE CHIPS
Sand Pack:
714.88 to 711.38ft BGS
3.50 to 7.00ft BGS
Material: SAND

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

OVERBURDEN LOG 17303.GPJ CRA_CORP.GDT 7/4/13



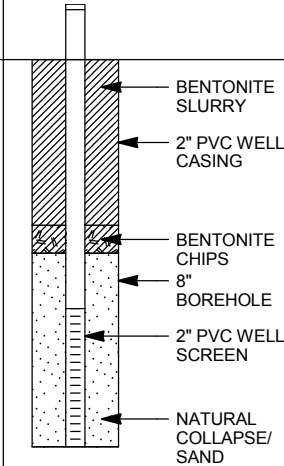
STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 1

PROJECT NAME: RACER - CVO
PROJECT NUMBER: 017303
CLIENT: RACER TRUST
LOCATION: YPSILANTI, MICHIGAN

HOLE DESIGNATION: SG19-04
DATE COMPLETED: February 6, 2012
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: C. BONDY

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft BGS	MONITORING WELL	SAMPLE				
				NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm)
	NORTHING: 268349.61 EASTING: 13343974.66	TOP OF CASING 718.94 GROUND SURFACE 718.37						
	ASPHALT							
	GP-GRAVEL (FILL), fine to coarse grained, poorly graded, compact, gray, moist	717.72 717.37						0.7
2	SP-SAND (FILL), with gravel, trace clay, fine to coarse sand, fine to coarse gravel, poorly graded, loose to compact, brown, moist	716.37						
	CONCRETE DEBRIS	715.62		1GP		65		
4	SP-SAND (FILL), with gravel, trace clay, fine to coarse sand, fine to coarse gravel, poorly graded, compact, brown, moist - trace coal and concrete debris at 5.0ft BGS							0.0
6	CONCRETE DEBRIS			2GP		85		0.7
	END OF BOREHOLE @ 7.0ft BGS	711.62 711.37						
8								
10								
12								
14								
16								
18								
20								
22								
24								



WELL DETAILS
Screened interval:
713.87 to 711.37ft BGS
4.50 to 7.00ft BGS
Length: 2.5ft
Diameter: 2in
Slot Size: 0.010
Material: PVC
Seal:
715.37 to 714.87ft BGS
3.00 to 3.50ft BGS
Material: BENTONITE CHIPS
Sand Pack:
714.87 to 711.37ft BGS
3.50 to 7.00ft BGS
Material: SAND

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

OVERBURDEN LOG 17303.GPJ CRA_CORP.GDT 7/4/13



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 1

PROJECT NAME: RACER - CVO
PROJECT NUMBER: 017303
CLIENT: RACER TRUST
LOCATION: YPSILANTI, MICHIGAN

HOLE DESIGNATION: SG19-05
DATE COMPLETED: February 6, 2012
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: C. BONDY

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft BGS	MONITORING WELL	SAMPLE				
				NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm)
	NORTHING: 268350.85 EASTING: 13343994.24 TOP OF CASING GROUND SURFACE	718.87 718.33						
	ASPHALT							
	GP-GRAVEL (FILL), fine to coarse grained, poorly graded, compact, gray, moist	717.83 717.58						0.7
2	SP-SAND (FILL), with gravel, trace clay, fine to coarse sand, fine to coarse gravel, poorly graded, loose to compact, brown, moist - with coal, trace PVC pipe at 2.5ft BGS - no coal or pipe, compact at 3.0ft BGS - with concrete debris at 3.8ft BGS - no concrete debris at 4.0ft BGS			1GP		70		
4								0.0
6				2GP		60		0.0
8	END OF BOREHOLE @ 7.0ft BGS	711.33						
10								
12								
14								
16								
18								
20								
22								
24								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

OVERBURDEN LOG 17303.GPJ CRA_CORP.GDT 7/4/13



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 1

PROJECT NAME: RACER - CVO
PROJECT NUMBER: 017303
CLIENT: RACER TRUST
LOCATION: YPSILANTI, MICHIGAN

HOLE DESIGNATION: SG19-06
DATE COMPLETED: February 6, 2012
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: C. BONDY

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft BGS	MONITORING WELL	SAMPLE				
				NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm)
	NORTHING: 268351.09 EASTING: 13344014.34 TOP OF CASING GROUND SURFACE	718.86 718.21						
	ASPHALT							
2	SP-SAND (FILL), with gravel, trace clay, fine to coarse sand, fine to coarse gravel, poorly graded, compact, brown, moist	717.46	BENTONITE SLURRY 2" PVC WELL CASING BENTONITE CHIPS 8" BOREHOLE 2" PVC WELL SCREEN NATURAL COLLAPSE/ SAND	1GP		75		0.0
4								0.0
6	- loose to compact at 5.0ft BGS			2GP		100		0.0
8	END OF BOREHOLE @ 7.0ft BGS	711.21						
10			<u>WELL DETAILS</u> Screened interval: 713.71 to 711.21ft BGS 4.50 to 7.00ft BGS Length: 2.5ft Diameter: 2in Slot Size: 0.010 Material: PVC Seal: 715.21 to 714.71ft BGS 3.00 to 3.50ft BGS Material: BENTONITE CHIPS Sand Pack: 714.71 to 711.21ft BGS 3.50 to 7.00ft BGS Material: SAND					
12								
14								
16								
18								
20								
22								
24								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

OVERBURDEN LOG - 17303.GPJ CRA_CORP.GDT 7/4/13



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 1

PROJECT NAME: RACER - CVO
PROJECT NUMBER: 017303
CLIENT: RACER TRUST
LOCATION: YPSILANTI, MICHIGAN

HOLE DESIGNATION: SG19-07
DATE COMPLETED: February 3, 2012
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: C. BONDY

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft BGS	MONITORING WELL	SAMPLE				
				NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm)
	NORTHING: 268351.84 EASTING: 13344034.61 TOP OF CASING GROUND SURFACE	721.08 717.90						
	ASPHALT							
2	SP-SAND (FILL), with gravel, trace clay, fine to coarse sand, fine to coarse gravel, poorly graded, compact, brown, moist	717.40	BENTONITE SLURRY 2" PVC WELL CASING	1GP		65		0.0
4	- trace paint sludge at 3.8ft BGS		BENTONITE CHIPS 8" BOREHOLE					0.7
6	- 1.5" asphalt debris with brick debris at 4.9ft BGS - trace asphalt and brick debris at 5.0ft BGS		2" PVC WELL SCREEN	2GP		100		0.7
	- trace gravel, no asphalt or brick debris, no paint sludge at 6.5ft BGS		NATURAL COLLAPSE/ SAND					
	END OF BOREHOLE @ 7.0ft BGS	710.90						
8								
10								
12								
14								
16								
18								
20								
22								
24								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

OVERBURDEN LOG 17303.GPJ CRA_CORP.GDT 7/4/13



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 1

PROJECT NAME: RACER - CVO
PROJECT NUMBER: 017303
CLIENT: RACER TRUST
LOCATION: YPSILANTI, MICHIGAN

HOLE DESIGNATION: SG19-08
DATE COMPLETED: February 6, 2012
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: C. BONDY

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft BGS	MONITORING WELL	SAMPLE				
				NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm)
	NORTHING: 268326.82 EASTING: 13343915.93 TOP OF CASING GROUND SURFACE	720.82 718.38						
	ASPHALT							
	GP-GRAVEL (FILL), fine to coarse grained, poorly graded, compact, gray, moist	717.88 717.53						0.0
2	SP-SAND (FILL), trace gravel, fine to coarse sand, fine to coarse gravel, poorly graded, loose to compact, brown, moist - with fine to coarse gravel, trace clay, compact at 1.5ft BGS			1GP		60		0.0
4								0.0
6	- with clay, wet at 5.3ft BGS			2GP		80		0.7
8	END OF BOREHOLE @ 7.0ft BGS	711.38						
10								
12								
14								
16								
18								
20								
22								
24								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

OVERBURDEN LOG 017303-WI.GPJ CRA CORP.GDT 11/14/13



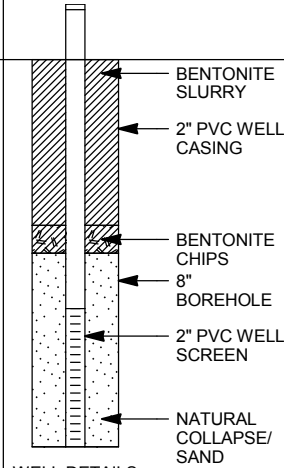
STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 1

PROJECT NAME: RACER - CVO
PROJECT NUMBER: 017303
CLIENT: RACER TRUST
LOCATION: YPSILANTI, MICHIGAN

HOLE DESIGNATION: SG19-14
DATE COMPLETED: February 3, 2012
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: C. BONDY

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft BGS	MONITORING WELL	SAMPLE				
				NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm)
	NORTHING: 268329.65 EASTING: 13344034.95	TOP OF CASING 718.94 GROUND SURFACE 718.17						
	CONCRETE							
	GP-GRAVEL (FILL), fine to coarse grained, poorly graded, compact, gray, moist	717.52 717.17						0.0
2	SP-SAND (FILL), with clay and gravel, fine to coarse sand, fine to coarse gravel, poorly graded, compact, brown, moist - trace gravel and clay at 2.5ft BGS			1GP		80		
4	CL-SANDY CLAY (FILL), fine to medium grained, low plasticity, firm, brown, moist, mottled	714.67 714.17						0.7
6	SP-SAND (FILL), trace clay and gravel, fine to coarse sand, fine to coarse gravel, poorly graded, compact, brown, moist			2GP		100		0.7
	END OF BOREHOLE @ 7.0ft BGS	711.17						
8								
10								
12								
14								
16								
18								
20								
22								
24								



WELL DETAILS
Screened interval:
713.67 to 711.17ft BGS
4.50 to 7.00ft BGS
Length: 2.5ft
Diameter: 2in
Slot Size: 0.010
Material: PVC
Seal:
715.17 to 714.67ft BGS
3.00 to 3.50ft BGS
Material: BENTONITE CHIPS
Sand Pack:
714.67 to 711.17ft BGS
3.50 to 7.00ft BGS
Material: SAND

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

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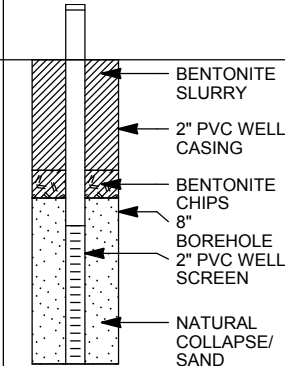
PROJECT NAME: RACER - CVO
PROJECT NUMBER: 017303
CLIENT: RACER TRUST
LOCATION: YPSILANTI, MICHIGAN

HOLE DESIGNATION: SG19-15
DATE COMPLETED: February 6, 2012
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: C. BONDY

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft BGS	MONITORING WELL	SAMPLE				
				NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm)
	NORTHING: 268304.97 EASTING: 13343915.52	TOP OF CASING GROUND SURFACE 720.49 718.38						
	ASPHALT							
	GP-GRAVEL (FILL), fine to coarse grained, poorly graded, compact, gray, moist	717.68						0.0
2	SP-SAND (FILL), trace gravel, fine to coarse sand, fine to coarse gravel, poorly graded, loose to compact, brown, moist - with gravel, trace clay, compact at 2.0ft BGS - trace gravel, no clay at 2.5ft BGS - loose to compact at 3.0ft BGS - with silt at 5.0ft BGS	716.88		1GP		70		0.0
4								0.0
6				2GP		85		0.0
8	END OF BOREHOLE @ 7.0ft BGS	711.38						
10								
12								
14								
16								
18								
20								
22								
24								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

OVERBURDEN LOG 017303-WI.GPJ CRA CORP.GDT 11/14/13



WELL DETAILS
Screened interval:
715.38 to 712.88ft BGS
3.00 to 5.50ft BGS
Length: 2.5ft
Diameter: 2in
Slot Size: 0.010
Material: PVC
Seal:
716.38 to 715.88ft BGS
2.00 to 2.50ft BGS
Material: BENTONITE CHIPS
Sand Pack:
715.88 to 712.88ft BGS
2.50 to 5.50ft BGS
Material: SAND



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

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PROJECT NAME: RACER - CVO
PROJECT NUMBER: 017303
CLIENT: RACER TRUST
LOCATION: YPSILANTI, MICHIGAN

HOLE DESIGNATION: SG19-16
DATE COMPLETED: February 1, 2012
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: C. BONDY

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft BGS	MONITORING WELL	SAMPLE				
				NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm)
	NORTHING: 268306.25 EASTING: 13343935.41 TOP OF CASING GROUND SURFACE	721.69 718.51						
2	CONCRETE SP-SAND (FILL), trace gravel, fine to coarse sand, fine to coarse gravel, poorly graded, loose to compact, brown, moist - compact at 1.0ft BGS	718.11	BENTONITE SLURRY 2" PVC WELL CASING BENTONITE CHIPS 8" BOREHOLE 2" PVC WELL SCREEN NATURAL COLLAPSE/ SAND <u>WELL DETAILS</u> Screened interval: 714.01 to 711.51ft BGS 4.50 to 7.00ft BGS Length: 2.5ft Diameter: 2in Slot Size: 0.010 Material: PVC Seal: 715.51 to 715.01ft BGS 3.00 to 3.50ft BGS Material: BENTONITE CHIPS Sand Pack: 715.01 to 711.51ft BGS 3.50 to 7.00ft BGS Material: SAND	1GP		95		6.6
4								3.6
6	- with clay at 6.0ft BGS - with silt, no clay at 6.8ft BGS			2GP		100		3.6
8	END OF BOREHOLE @ 7.0ft BGS	711.51						
10								
12								
14								
16								
18								
20								
22								
24								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

OVERBURDEN LOG 017303-WI.GPJ CRA CORP.GDT 11/14/13



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

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PROJECT NAME: RACER - CVO
PROJECT NUMBER: 017303
CLIENT: RACER TRUST
LOCATION: YPSILANTI, MICHIGAN

HOLE DESIGNATION: SG19-17
DATE COMPLETED: February 1, 2012
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: C. BONDY

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft BGS	MONITORING WELL	SAMPLE				
				NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm)
	NORTHING: 268307.4 EASTING: 13343955.53 TOP OF CASING GROUND SURFACE	721.67 718.55						
2	CONCRETE SP-SAND (FILL), trace gravel, fine to coarse sand, fine to coarse gravel, poorly graded, loose to compact, brown, moist - compact at 1.8ft BGS - trace slag at 2.5ft BGS - no slag at 3.0ft BGS	718.15		1GP		90		5.1
4								22.0
6	CH-CLAY (FILL), with silt and sand, fine grained, high plasticity, soft to firm, brown, moist, mottled SP-SAND (FILL), trace gravel, fine to coarse sand, fine to coarse gravel, poorly graded, compact, brown, moist END OF BOREHOLE @ 7.0ft BGS	712.30 712.15 711.55		2GP		100		22.9
8								
10								
12								
14								
16								
18								
20								
22								
24								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

OVERBURDEN LOG 017303-WI.GPJ CRA CORP.GDT 11/14/13



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

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PROJECT NAME: RACER - CVO
PROJECT NUMBER: 017303
CLIENT: RACER TRUST
LOCATION: YPSILANTI, MICHIGAN

HOLE DESIGNATION: SG19-18
DATE COMPLETED: February 1, 2012
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: C. BONDY

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft BGS	MONITORING WELL	SAMPLE				
				NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm)
	NORTHING: 268307.94 EASTING: 13343975.55 TOP OF CASING GROUND SURFACE	721.76 718.46						
2	CONCRETE SP-SAND (FILL), trace gravel, fine to coarse sand, fine to coarse gravel, poorly graded, loose to compact, brown, moist - compact at 1.0ft BGS	718.06		1GP		90		15.5
4	- with silt at 5.0ft BGS							6.6
6	CH-CLAY (FILL), with silt and sand, fine grained, high plasticity, firm, brown, moist, mottled	712.46 712.21		2GP		100		22.9
8	SP-SAND (FILL), trace gravel, fine to coarse sand, fine to coarse gravel, poorly graded, compact, brown, moist END OF BOREHOLE @ 7.0ft BGS	711.46						
10								
12								
14								
16								
18								
20								
22								
24								

WELL DETAILS

Screened interval:

713.96 to 711.46ft BGS

4.50 to 7.00ft BGS

Length: 2.5ft

Diameter: 2in

Slot Size: 0.010

Material: PVC

Seal:

715.46 to 714.96ft BGS

3.00 to 3.50ft BGS

Material: BENTONITE CHIPS

Sand Pack:

714.96 to 711.46ft BGS

3.50 to 7.00ft BGS

Material: SAND

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

OVERBURDEN LOG 017303-WI.GPJ CRA CORP.GDT 11/14/13



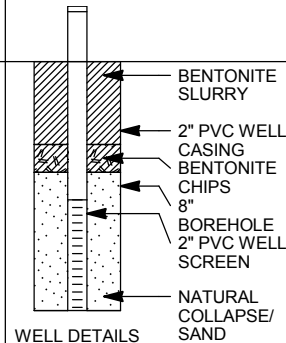
STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

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PROJECT NAME: RACER - CVO
PROJECT NUMBER: 017303
CLIENT: RACER TRUST
LOCATION: YPSILANTI, MICHIGAN

HOLE DESIGNATION: SG19-21
DATE COMPLETED: February 3, 2012
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: C. BONDY

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft BGS	MONITORING WELL	SAMPLE				
				NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm)
	NORTHING: 268310.26 EASTING: 13344035.89	TOP OF CASING 720.52 GROUND SURFACE 718.16						
	CONCRETE							
	GP-GRAVEL (FILL), fine to coarse grained, poorly graded, compact, gray, moist	717.46						0.0
2	SP-SAND (FILL), with gravel, fine to coarse sand, fine to coarse gravel, poorly graded, compact, brown, moist - trace gravel at 3.0ft BGS	716.66		1GP		80		0.7
4								
6	- with silt, wet at 5.3ft BGS							
6	CH-CLAY (FILL), with silt and sand, fine grained, high plasticity, soft to firm, brown, moist, mottled	712.31 711.86		2GP		100		0.7
8	SP-SAND (FILL), with clay, trace gravel, fine to coarse sand, fine to coarse gravel, poorly graded, compact, brown, moist END OF BOREHOLE @ 7.0ft BGS	711.16						
10								
12								
14								
16								
18								
20								
22								
24								



WELL DETAILS
Screened interval:
715.66 to 713.66ft BGS
2.50 to 4.50ft BGS
Length: 2ft
Diameter: 2in
Slot Size: 0.010
Material: PVC
Seal:
716.66 to 716.16ft BGS
1.50 to 2.00ft BGS
Material: BENTONITE CHIPS
Sand Pack:
716.16 to 713.66ft BGS
2.00 to 4.50ft BGS
Material: SAND

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

OVERBURDEN LOG 17303.GPJ CRA_CORP.GDT 7/4/13



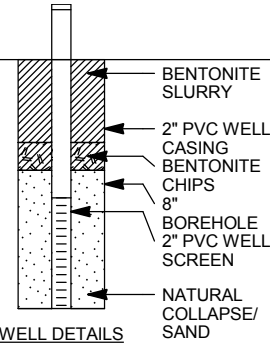
STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

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PROJECT NAME: RACER - CVO
PROJECT NUMBER: 017303
CLIENT: RACER TRUST
LOCATION: YPSILANTI, MICHIGAN

HOLE DESIGNATION: SG19-28
DATE COMPLETED: February 3, 2012
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: C. BONDY

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft BGS	MONITORING WELL	SAMPLE				
				NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm)
	NORTHING: 268290.07 EASTING: 13344036.03	TOP OF CASING 720.58 GROUND SURFACE 718.17						
	CONCRETE							
	GP-GRAVEL (FILL), fine to coarse grained, poorly graded, compact, gray, moist	717.52						0.7
2	SP-SAND (FILL), with gravel, fine to coarse sand, fine to coarse gravel, poorly graded, compact, brown, moist - trace gravel at 2.0ft BGS	716.52		1GP		75		0.7
4	- with silt, wet at 5.0ft BGS - with clay at 5.3ft BGS							
6	CH-CLAY (FILL), with silt and sand, fine grained, high plasticity, firm, brown, moist, mottled	712.42 712.17		2GP		100		0.7
8	SP-SAND (FILL), with clay, trace gravel, fine to coarse sand, fine to coarse gravel, poorly graded, compact, brown, moist END OF BOREHOLE @ 7.0ft BGS	711.17						
10								
12								
14								
16								
18								
20								
22								
24								



WELL DETAILS
Screened interval:
715.67 to 713.67ft BGS
2.50 to 4.50ft BGS
Length: 2ft
Diameter: 2in
Slot Size: 0.010
Material: PVC
Seal:
716.67 to 716.17ft BGS
1.50 to 2.00ft BGS
Material: BENTONITE CHIPS
Sand Pack:
716.17 to 713.67ft BGS
2.00 to 4.50ft BGS
Material: SAND

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

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PROJECT NAME: RACER - CVO
PROJECT NUMBER: 017303
CLIENT: RACER TRUST
LOCATION: YPSILANTI, MICHIGAN

HOLE DESIGNATION: SG19-34
DATE COMPLETED: February 3, 2012
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: C. BONDY

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft BGS	MONITORING WELL	SAMPLE				
				NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm)
	NORTHING: 268270 EASTING: 13344037.02	GROUND SURFACE TOP OF CASING 720.49 718.21						
	CONCRETE							
	GP-GRAVEL (FILL), fine to coarse grained, poorly graded, compact, gray, moist	719.89 719.69	WELL DETAILS Screened interval: 717.99 to 715.99ft BGS 2.50 to 4.50ft BGS Length: 2ft Diameter: 2in Slot Size: 0.010 Material: PVC Seal: 718.99 to 718.49ft BGS 1.50 to 2.00ft BGS Material: BENTONITE CHIPS Sand Pack: 718.49 to 715.99ft BGS 2.00 to 4.50ft BGS Material: SAND	1GP		80		0.7
2	SP-SAND (FILL), with gravel, fine to coarse sand, fine to coarse gravel, poorly graded, compact, brown, moist - with clay at 1.8ft BGS							
4	- clayey sand, trace gravel at 3.8ft BGS - 1" clay with silt and sand seam, fine grained, high plasticity, firm, mottled at 4.0ft BGS - with silt, no clay, wet at 5.0ft BGS							0.7
6	- with clay at 6.0ft BGS			2GP		100		0.7
8	CH-CLAY (FILL), with silt and sand, fine grained, high plasticity, firm, brown, moist, mottled	713.99 713.49						
	END OF BOREHOLE @ 7.0ft BGS							
10								
12								
14								
16								
18								
20								
22								
24								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

OVERBURDEN LOG 17303.GPJ CRA_CORP.GDT 7/4/13



TEST PIT STRATIGRAPHIC LOG (OVERBURDEN)

Page 1 of 1

PROJECT NAME: GM - CVO

HOLE DESIGNATION: TP-A30

PROJECT NUMBER: 17303

DATE COMPLETED: June 14, 2005

CLIENT: GENERAL MOTORS CORPORATION

TEST PIT METHOD: BACKHOE

LOCATION: YPSILANTI, MICHIGAN

FIELD PERSONNEL: B. WILLIAMS

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft BGS	SAMPLE				
			NUMBER	INTERVAL	REC (%)	'N' VALUE	
	GROUND SURFACE	715.90					
	ASPHALT	715.50					
	GP-GRAVEL (ASPHALT BASE), 2"-3" gravels, poorly graded, dry, gray	714.30					
2	SW-SAND & DEBRIS, fine to coarse sands, well graded, debris: solid paint waste, concrete pieces, wood remnants, tin cans						
	- yellow paint staining, intermittent to 8' bgs at 2.0ft BGS						
4							
6	- 55 gallon drum, approx. 25 gallons of product/H2O, strong solvent odor at 5.5ft BGS						
	- stained soils (trace NAPL residue) at 5.7ft BGS						
8							
10	SW-SAND, fine to coarse sands, well graded, loose, some black foundry sands, strong odor	707.10					
	- wet at 10.0ft BGS						
12							
14							
16	CL-SILTY CLAY (NATIVE), trace fine gravels, competent, low to medium plasticity, gray, dry to moist	700.10					
	END OF BOREHOLE @ 16.0ft BGS	699.90					
18							
20							
22							
24							
26							
28							
30							
32							
34							

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

OVERBURDEN LOG 17303-TEST PITS.GPJ CRA CORP.GDT 7/4/13

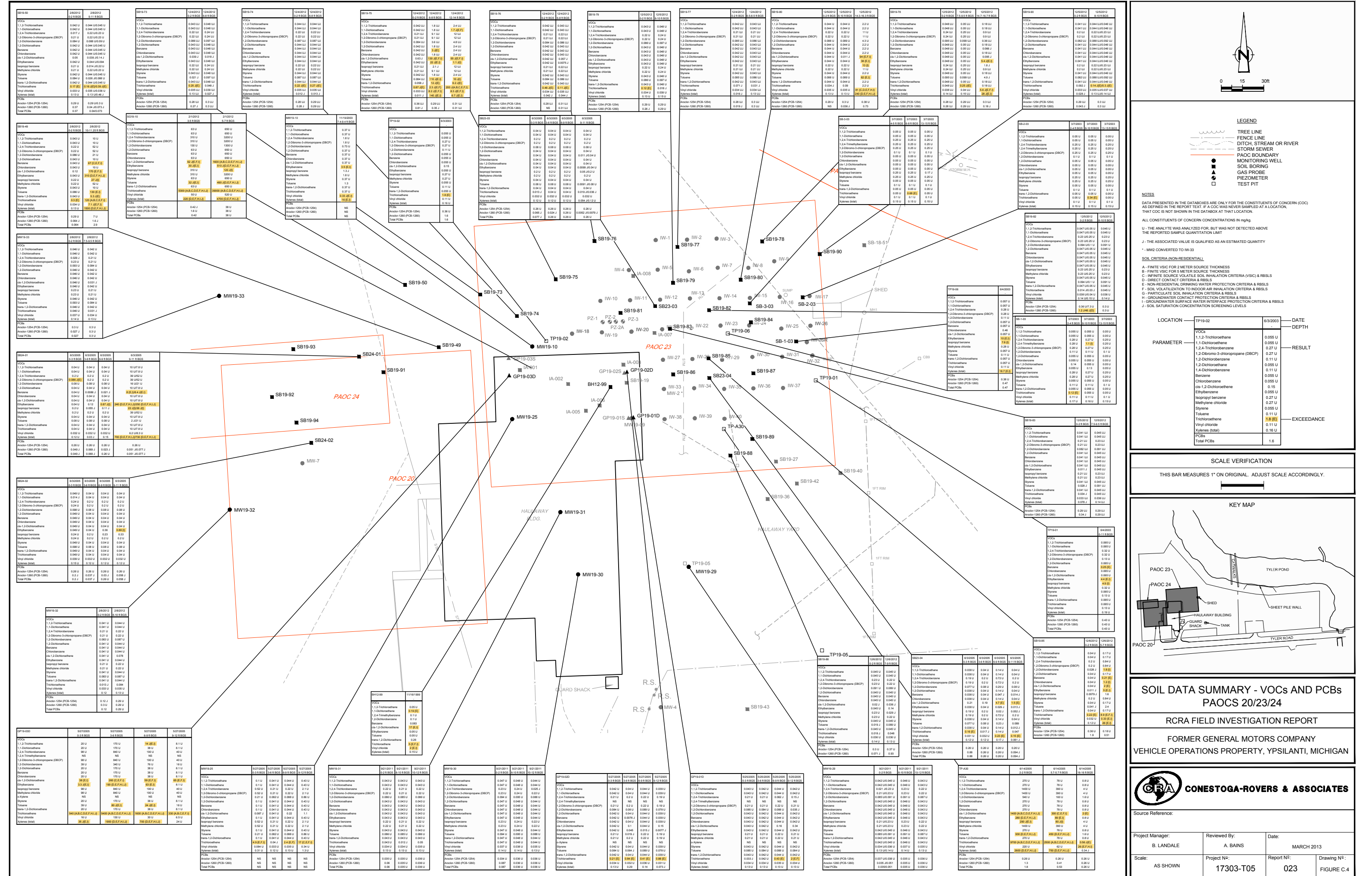
Appendix C

Databox Figures and Tables from the RFI Report

Appendix C

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Figure C.1A	Soil Data Summary- VOCs and PCBs PAOCs: 20/23/24
Figure C.1B	Soil Data Summary- SVOCs PAOCs: 20/23/24
Figure C.1C	Soil Data Summary- INORGANICS PAOCs: 20/23/24
Figure C.2A	Groundwater Data Summary- VOCs and PCBs SOUTHWEST AREA 1996 to 2003
Figure C.2B	Groundwater Data Summary- VOCs and PCBs SOUTHWEST AREA 2004 to 2012
Figure C.3	Soil Gas Sampling Results
Table C.4	Paint Sludge Analytical Data – Haulaway Building
Table C.5	LNAPL Data – Near the Haulaway Building



MW19-33	2/8/2012 0-2 ft BGS	2/8/2012 7.5-9.5 ft BGS
SVOCs		
2,4-Dimethylphenol	0.3 U	0.3 U
2-Methylnaphthalene	0.006 J	0.3 U
3,4-Methylphenol	0.3 U	0.3 U
Acenaphthene	0.3 U	0.3 U
Acenaphthylene	0.016 J	0.3 U
Anthracene	0.028 J	0.3 U
Benzo(a)anthracene	0.17 J	0.3 U
Benzo(a)pyrene	0.2 J	0.3 U
Benzo(b)fluoranthene	0.34	0.3 U
Benzo(k)fluoranthene	0.11 J	0.3 U
Carbazole	0.3 U	0.3 U
Dibenz(a,h)anthracene	0.036 J	0.3 U
Dibenzofuran	0.004 J	0.3 U
Di-n-butylphthalate (DBP)	0.3 U	0.3 U
Fluoranthene	0.3	0.3 U
Fluorene	0.0061 J	0.3 U
Indeno(1,2,3-cd)pyrene	0.15 J	0.3 U
Naphthalene	0.0085 J	0.3 U
Phenanthrene	0.095 J	0.3 U
Phenol	0.3 U	0.3 U

SB24-02	6/3/2005 0-3 ft BGS	6/3/2005 3-6 ft BGS	6/3/2005 6-9 ft BGS	6/3/2005 9-11 ft BGS
SVOCs				
2,4-Dimethylphenol	0.26 U	0.26 U	2.6 U	11 U
2-Methylnaphthalene	0.02 J	0.26 U	2.6 U	24 (U)
3,4-Methylphenol	0.26 U	0.26 U	2.6 U	11 U
Acenaphthene	0.26 U	0.26 U	2.6 U	11 U
Acenaphthylene	0.26 U	0.26 U	2.6 U	11 U
Anthracene	0.26 U	0.016 J	2.6 U	11 U
Benzo(a)anthracene	0.021 J	0.099 J	2.6 U	11 U
Benzo(a)pyrene	0.035 J	0.092 J	2.6 U	11 U
Benzo(b)fluoranthene	0.045 J	0.11 J	2.6 U	11 U
Benzo(k)fluoranthene	0.017 J	0.054 J	2.6 U	11 U
Carbazole	0.26 U	0.26 U	2.6 U	11 U
Dibenz(a,h)anthracene	0.26 U	0.028 J	2.6 U	11 U
Dibenzofuran	0.26 U	0.26 U	2.6 U	1.1 J
Di-n-butylphthalate (DBP)	0.26 U	0.26 U	2.6 U	11 U
Fluoranthene	0.041 J	0.17 J	2.6 U	11 U
Fluorene	0.26 U	0.26 U	2.6 U	11 U
Indeno(1,2,3-cd)pyrene	0.026 J	0.047 J	2.6 U	11 U
Naphthalene	0.26 U	0.26 U	2.6 U	4.4 (U)
Phenanthrene	0.019 J	0.049 J	0.63 J	4.4 (U)
Phenol	0.26 U	0.26 U	2.6 U	11 U

MW19-32	2/8/2012 0-2 ft BGS	2/8/2012 8-10 ft BGS
SVOCs		
2,4-Dimethylphenol	0.3 U	0.3 U
2-Methylnaphthalene	0.0053 J	0.3 U
3,4-Methylphenol	0.3 U	0.3 U
Acenaphthene	0.3 U	0.3 U
Acenaphthylene	0.3 U	0.3 U
Anthracene	0.0042 J	0.3 U
Benzo(a)anthracene	0.043 J	0.3 U
Benzo(a)pyrene	0.054 J	0.3 U
Benzo(b)fluoranthene	0.076 J	0.3 U
Benzo(k)fluoranthene	0.027 J	0.3 U
Carbazole	0.3 U	0.3 U
Dibenz(a,h)anthracene	0.0089 J	0.3 U
Dibenzofuran	0.3 U	0.3 U
Di-n-butylphthalate (DBP)	0.3 U	0.3 U
Fluoranthene	0.065 J	0.3 U
Fluorene	0.3 U	0.3 U
Indeno(1,2,3-cd)pyrene	0.036 J	0.3 U
Naphthalene	0.0041 J	0.3 U
Phenanthrene	0.018 J	0.3 U
Phenol	0.3 U	0.3 U

SB19-49	2/8/2012 0-2 ft BGS	2/8/2012 10-11.25 ft BGS
SVOCs		
2,4-Dimethylphenol	0.29 U	57 U
2-Methylnaphthalene	0.005 J	74 (U)
3,4-Methylphenol	0.29 U	11 (U)
Acenaphthene	0.011 J	11 (U)
Acenaphthylene	0.29 U	57 U
Anthracene	0.03 J	4.9 J
Benzo(a)anthracene	0.16 J	5.1 J
Benzo(a)pyrene	0.15 J	3.1 J
Benzo(b)fluoranthene	0.23 J	5.1 J
Benzo(k)fluoranthene	0.1 J	1.7 J
Carbazole	0.29 U	57 U
Dibenz(a,h)anthracene	0.29 U	57 U
Dibenzofuran	0.0078 J	7 (U)
Di-n-butylphthalate (DBP)	0.29 U	57 U
Fluoranthene	0.3	24 (U)
Fluorene	0.013 J	10 (U)
Indeno(1,2,3-cd)pyrene	0.096 J	1.4 J
Naphthalene	0.0061 J	130 (E, J)
Phenanthrene	0.15 J	29 (U)
Phenol	0.29 U	57 U

TP19-02	6/3/2003 -
SVOCs	
2,4-Dimethylphenol	0.72 U
2-Methylnaphthalene	3.3
3,4-Methylphenol	0.72 U
Acenaphthene	20 (U)
Acenaphthylene	0.72 U
Anthracene	26
Benzo(a)anthracene	47
Benzo(a)pyrene	41 (U)
Benzo(b)fluoranthene	24
Benzo(k)fluoranthene	14 U
Carbazole	14 U
Dibenz(a,h)anthracene	14 U
Dibenzofuran	14 U
Di-n-butylphthalate (DBP)	0.72 U
Fluoranthene	98 (U)
Fluorene	15 (U)
Indeno(1,2,3-cd)pyrene	18
Naphthalene	14 U
Phenanthrene	94 (U)
Phenol	0.72 U

MW19-31	9/21/2011 0-2 ft BGS	9/21/2011 8-10 ft BGS	9/21/2011 10-12 ft BGS
SVOCs			
2,4-Dimethylphenol	0.28 U	0.28 U	0.29 U
2-Methylnaphthalene	0.28 U	0.28 U	0.29 U
3,4-Methylphenol	0.28 U	0.28 U	0.29 U
Acenaphthene	0.28 U	0.28 U	0.29 U
Acenaphthylene	0.28 U	0.28 U	0.29 U
Anthracene	0.28 U	0.28 U	0.29 U
Benzo(a)anthracene	0.28 U	0.28 U	0.29 U
Benzo(a)pyrene	0.28 U	0.28 U	0.29 U
Benzo(b)fluoranthene	0.28 U	0.28 U	0.29 U
Benzo(k)fluoranthene	0.28 U	0.28 U	0.29 U
Carbazole	0.28 U	0.28 U	0.29 U
Dibenz(a,h)anthracene	0.28 U	0.28 U	0.29 U
Dibenzofuran	0.28 U	0.28 U	0.29 U
Di-n-butylphthalate (DBP)	0.28 U	0.28 U	0.29 U
Fluoranthene	0.28 U	0.28 U	0.29 U
Fluorene	0.28 U	0.28 U	0.29 U
Indeno(1,2,3-cd)pyrene	0.28 U	0.28 U	0.29 U
Naphthalene	0.28 U	0.28 U	0.29 U
Phenanthrene	0.28 U	0.28 U	0.29 U
Phenol	0.28 U	0.28 U	0.29 U

MW19-30	9/21/2011 0-2 ft BGS	9/21/2011 8-10 ft BGS	9/21/2011 10-12 ft BGS
SVOCs			
2,4-Dimethylphenol	0.27 U	0.29 U	0.29 U
2-Methylnaphthalene	0.27 U	0.29 U	0.29 U
3,4-Methylphenol	0.27 U	0.29 U	0.29 U
Acenaphthene	0.27 U	0.29 U	0.29 U
Acenaphthylene	0.27 U	0.29 U	0.29 U
Anthracene	0.27 U	0.29 U	0.29 U
Benzo(a)anthracene	0.27 U	0.29 U	0.29 U
Benzo(a)pyrene	0.27 U	0.29 U	0.29 U
Benzo(b)fluoranthene	0.27 U	0.29 U	0.29 U
Benzo(k)fluoranthene	0.27 U	0.29 U	0.29 U
Carbazole	0.27 U	0.29 U	0.29 U
Dibenz(a,h)anthracene	0.27 U	0.29 U	0.29 U
Dibenzofuran	0.27 U	0.29 U	0.29 U
Di-n-butylphthalate (DBP)	0.27 U	0.29 U	0.29 U
Fluoranthene	0.0074 J	0.29 U	0.29 U
Fluorene	0.27 U	0.29 U	0.29 U
Indeno(1,2,3-cd)pyrene	0.27 U	0.29 U	0.29 U
Naphthalene	0.27 U	0.29 U	0.29 U
Phenanthrene	0.27 U	0.29 U	0.29 U
Phenol	0.27 U	0.29 U	0.29 U

MW19-29	9/21/2011 0-2 ft BGS	9/21/2011 8-10 ft BGS	9/21/2011 10-12 ft BGS
SVOCs			
2,4-Dimethylphenol	0.3 U	0.28 U	0.29 U
2-Methylnaphthalene	0.0075 J/0.015 J	0.28 U	0.29 U
3,4-Methylphenol	0.3 U	0.28 U	0.29 U
Acenaphthene	0.3 U	0.28 U	0.29 U
Acenaphthylene	0.0039 J/0.3 J	0.28 U	0.29 U
Anthracene	0.0061 J/0.3 J	0.28 U	0.29 U
Benzo(a)anthracene	0.023 J/0.053 J	0.28 U	0.29 U
Benzo(a)pyrene	0.028 J/0.055 J	0.28 U	0.29 U
Benzo(b)fluoranthene	0.039 J/0.072 J	0.28 U	0.29 U
Benzo(k)fluoranthene	0.02 J/0.036 J	0.28 U	0.29 U
Carbazole	0.3 U	0.28 U	0.29 U
Dibenz(a,h)anthracene	0.0095 J/0.012 J	0.28 U	0.29 U
Dibenzofuran	0.3 U	0.28 U	0.29 U
Di-n-butylphthalate (DBP)	0.3 U	0.28 U	0.017 J
Fluoranthene	0.036 J/0.1 J	0.28 U	0.29 U
Fluorene	0.3 U	0.28 U	0.29 U
Indeno(1,2,3-cd)pyrene	0.02 J/0.033 J	0.28 U	0.29 U
Naphthalene	0.3 U	0.28 U	0.29 U
Phenanthrene	0.016 J/0.027 J	0.28 U	0.015 J
Phenol	0.3 U	0.28 U	0.29 U

SG19-10	2/1/2012 3-5 ft BGS	2/1/2012 5-7 ft BGS
SVOCs		
2,4-Dimethylphenol	16 U	110 U
2-Methylnaphthalene	1 J	72 (U)
3,4-Methylphenol	16 U	110 U
Acenaphthene	16 U	110 U
Acenaphthylene	16 U	110 U
Anthracene	16 U	110 U
Benzo(a)anthracene	16 U	110 U
Benzo(a)pyrene	16 U	110 U
Benzo(b)fluoranthene	16 U	110 U
Benzo(k)fluoranthene	16 U	110 U
Carbazole	16 U	110 U
Dibenz(a,h)anthracene	16 U	110 U
Dibenzofuran	16 U	9.4 (U)
Di-n-butylphthalate (DBP)	10 J	1800 (D.E.H., J)
Fluoranthene	0.56 J	7.4 (U)
Fluorene	16 U	110 U
Indeno(1,2,3-cd)pyrene	16 U	110 U
Naphthalene	3.4 (U)	320 (E, J)
Phenanthrene	1.7 J	30 (U)
Phenol	16 U	250 (U)

CONESTOGA-ROVERS & ASSOCIATES

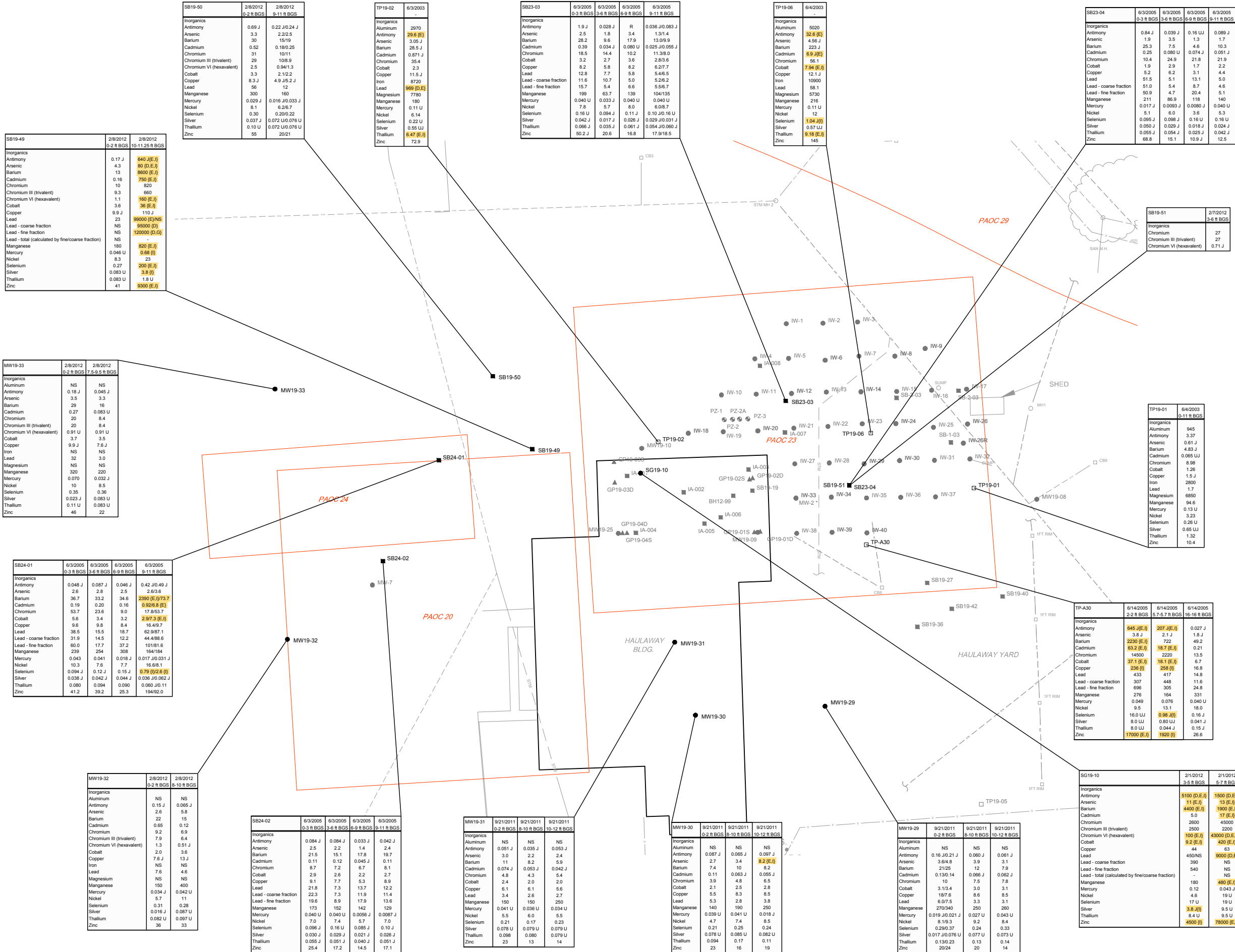
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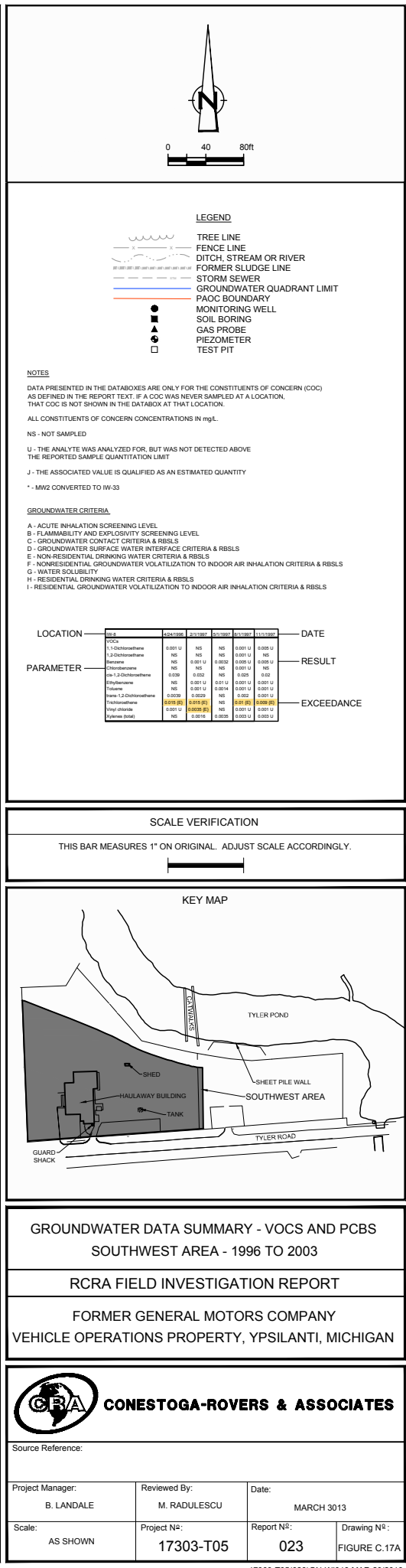
Project Manager: B. LANDALE	Reviewed By: A. BAINS	Date: SEPTEMBER 2012
Scale: AS SHOWN	Project No: 17303-T05	Report No: 023
		Drawing No: FIGURE C.5

SB24-01	6/3/2005 0-3 ft BGS	6/3/2005 3-6 ft BGS	6/3/2005 6-9 ft BGS	6/3/2005 9-11 ft BGS
SVOCs				
2,4-Dimethylphenol	0.26 U	0.26 U	0.26 U	0.53 U/1.8 U
2-Methylnaphthalene	0.26 U	0.26 U	0.017 J	1/4
4-Methylphenol	0.26 U	0.26 U	0.26 U	0.53 U/1.8 U
Acenaphthene	0.26 U	0.26 U	0.26 U	0.53 U/1.8 U
Acenaphthylene	0.26 U	0.26 U	0.26 U	0.53 U/1.8 U
Anthracene	0.018 J	0.022 J	0.071 J	0.044 J/0.17 J
Benzo(a)anthracene	0.048 J	0.068 J	0.17 J	0.073 J/0.16 J
Benzo(a)pyrene	0.052 J	0.069 J	0.15 J	0.097 J/0.13 J
Benzo(b)fluoranthene	0.062 J	0.083 J	0.18 J	0.11 J/0.18 J
Benzo(k)fluoranthene	0.028 J	0.045 J	0.07 J	0.05 J/1.8 U
Carbazole	0.26 U	0.26 U	0.048 J	0.036 J/1.8 U
Dibenz(a,h)anthracene	0.26 U	0.26 U	0.032 J	0.044 J/1.8 U
Dibenzofuran	0.26 U	0.26 U	0.022 J	0.034 J/0.21 J
Di-n-butylphthalate (DBP)	0.26 U	0.26 U	0.26 U	0.53 U/1.8 U
Fluoranthene	0.12 J	0.16 J	0.44 J	0.28 J/0.79 J
Fluorene	0.014 J	0.26 U	0.052 J	0.076 J/0.33 J
Indeno(1,2,3-cd)pyrene	0.027 J	0.038 J	0.067 J	0.056 J/1.8 U
Naphthalene	0.26 U	0.26 U	0.04 J	2 (U) 9.3 (U)
Phenanthrene	0.091 J	0.088 J	0.34 J	0.21 J/1.1 J
Phenol	0.26 U	0.26 U	0.26 U	0.53 U/1.8 U

SB19-50	2/8/2012 0-2 ft BGS	2/8/2012 9-11 ft BGS
SVOCs		
2,4-Dimethylphenol	0.29 U	0.3 U
2-Methylnaphthalene	0.0081 J	0.02 J/0.022 J
3,4-Methylphenol	0.29 U	0.3 U
Acenaphthene	0.015 J	0.024 J/0.025 J
Acenaphthylene	0.0042 J	0.046 J/0.0069 J
Anthracene	0.041 J	0.045 J/0.049 J
Benzo(a)anthracene	0.32	0.15 J/0.18 J
Benzo(a)pyrene	0.34	0.14 J/0.19 J
Benzo(b)fluoranthene	0.48	0.2 J/0.25 J
Benzo(k)fluoranthene	0.19 J	0.09 J/0.11 J
Carbazole	0.29 U	0.3 U
Dibenz(a,h)anthracene	0.29 U	0.014 J/0.3 J
Dibenzofuran	0.005 J	0.018 J/0.019 J
Di-n-butylphthalate (DBP)	0.29 U	0.3 U
Fluoranthene	0.64	0.42/0.51
Fluorene	0.012 J	0.018 J/0.02 J
Indeno(1,2,3-cd)pyrene	0.22 J	0.085 J/0.11 J
Naphthalene	0.0063 J	0.015 J/0.016 J
Phenanthrene	0.2 J	0.27 J/0.29 J
Phenol	0.29 U	0.3 U

SB23-03	6/3/2005 0-3 ft BGS	6/3/2005 3-6 ft BGS	6/3/2005 6-9 ft BGS	6/3/2005 9-11 ft BGS
SVOCs				
2,4-Dimethylphenol	0.66 U	0.26 U	0.26 U	0.26 U
2-Methylnaphthalene	0.66 U	0.26 U	0.26 U	0.037 J/0.077 J
4-Methylphenol	0.66 U	0.26 U	0.26 U	0.26 U
Acenaphthene	0.2 J	0.26 U	0.26 U	0.017 J/0.26 U
Acenaphthylene	0.66 U	0.26 U	0.26 U	0.26 U/0.26 U
Anthracene	0.34 J	0.017 J	0.26 U	0.018 J/0.18 J
Benzo(a)anthracene	0.94 J	0.07 J	0.26 U	0.041 J/0.26 U
Benzo(a)pyrene	0.93 J	0.095 J	0.26 U	0.033 J/0.26 U
Benzo(b)fluoranthene	1.1 J	0.11 J	0.26 U	0.042 J/0.31 J
Benzo(k)fluoranthene	0.53 J	0.042 J	0.26 U	0.024 J/0.12 J
Carbazole	0.24 J	0.26 U	0.26 U	0.053 J/0.26 U
Dibenz(a,h)anthracene	0.14 J	0.029 J	0.26 U	0.046 J/0.26 U
Dibenzofuran	0.068 J	0.26 U	0.26 U	0.039 J/0.26 U
Di-n-butylphthalate (DBP)	0.66 U	0.26 U	0.26 U	0.26 U
Fluoranthene	3.2 J	0.14 J	0.26 U	0.14 J/0.92
Fluorene	0.15 J	0.26 U	0.26 U	0.08 J/0.26 U
Indeno(1,2,3-cd)pyrene	0.49 J	0.052 J	0.26 U	0.019 J/0.12 J
Naphthalene	0.66 U	0.26 U	0.26 U	0.022 J/0.046 J
Phenanthrene	2.2 J/0.66 U	0.054 J	0.26 U	0.077 J/0.79
Phenol	0.66 U	0.26 U	0.26 U	0.26 U





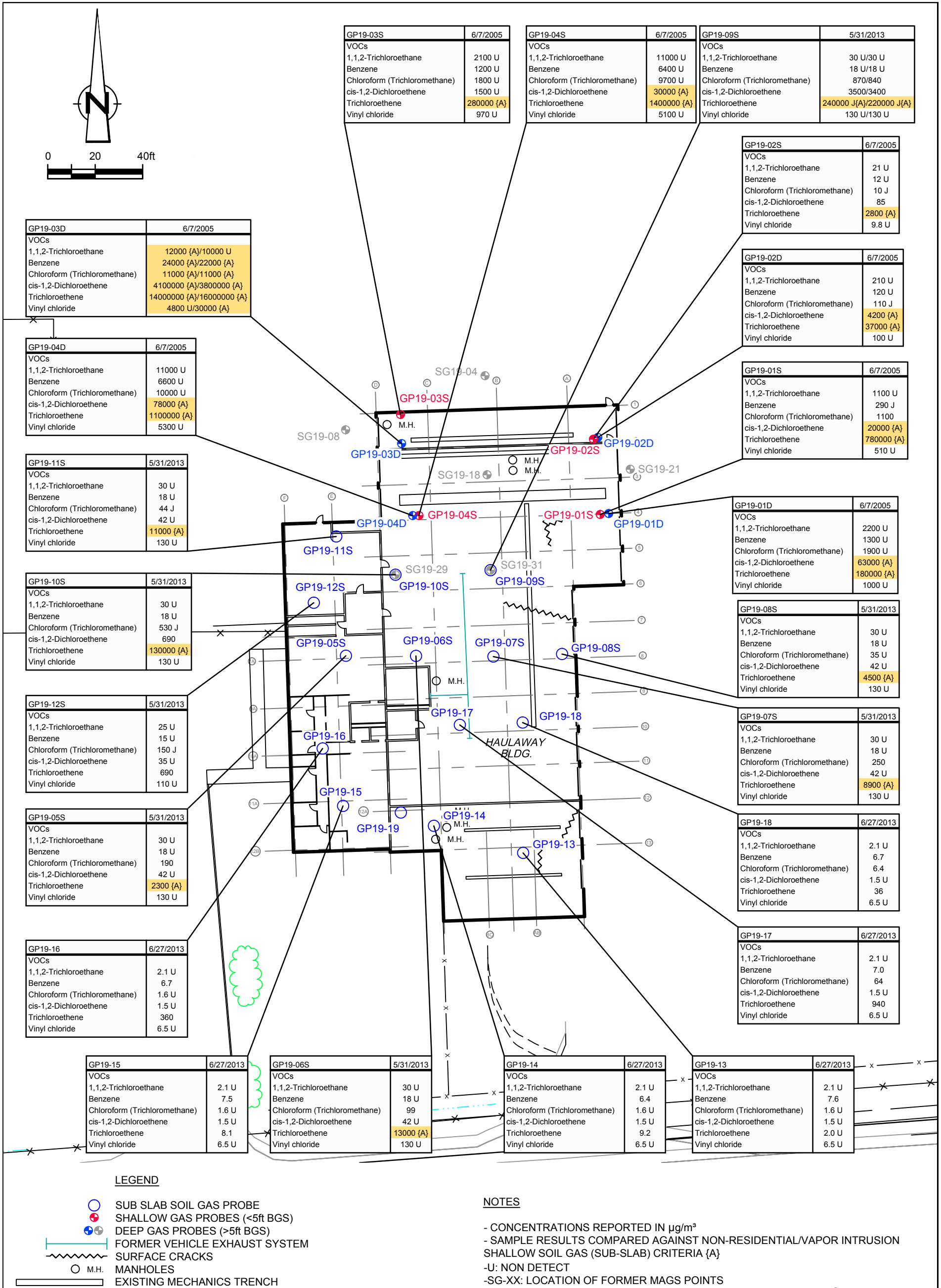


figure 3.10
SOIL GAS SAMPLING RESULTS
RCRA FIELD INVESTIGATION REPORT
COMPANY VEHICLE OPERATIONS AREA
Ypsilanti, Michigan

APPENDIX - C4

PAINT SLUDGE ANALYTICAL DATA

RCRA FIELD INVESTIGATION

COMPANY VEHICLE OPERATIONS AREA

YPSILANTI, MICHIGAN

Sample Location:	RCRA	UTS	GP19-03D	GP19-03D	GP19-03D	SG19-10	SG19-10
Sample Depth:			0-3 ft BGS	3-6 ft BGS	6-9 ft BGS	3-5 ft BGS	5-7 ft BGS
Sample ID:	x 20	Nonwastewater standard criteria	SO-17303-052705-DR-0710	SO-17303-052705-DR-0711	SO-17303-052705-DR-0712	SO-17303-020112-CB-001	ST-17303-020112-CB-002
Sample Date:		x 10	05/27/2005	05/27/2005	05/27/2005	02/01/2012	02/01/2012
Parameters	Units	a	b				
VOCs							
1,1,1-Trichloroethane	ug/kg		60000	20000 U	170000 U	38000 U	650000 U
1,1,2,2-Tetrachloroethane	ug/kg		60000	20000 U	170000 U	38000 U	650000 U
1,1,2-Trichloroethane	ug/kg		60000	20000 U	170000 U	14000 J	650000 U
1,1-Dichloroethane	ug/kg		60000	20000 U	170000 U	38000 U	650000 U
1,1-Dichloroethene	ug/kg	14000	60000	20000 U	170000 U	38000 U	650000 U
1,2,4-Trichlorobenzene	ug/kg		190000	98000 U	840000 U	190000 U	3200000 U
1,2-Dibromo-3-chloropropane (DBCP)	ug/kg		150000	98000 U	840000 U	190000 U	3200000 U
1,2-Dibromoethane (Ethylene dibromide)	ug/kg		150000	98000 U	840000 U	190000 U	3200000 U
1,2-Dichlorobenzene	ug/kg		60000	39000 U	340000 U	76000 U	1300000 U
1,2-Dichloroethane	ug/kg	10000	60000	20000 U	170000 U	38000 U	650000 U
1,2-Dichloropropane	ug/kg		180000	20000 U	170000 U	38000 U	650000 U
1,3-Dichlorobenzene	ug/kg		60000	39000 U	340000 U	76000 U	1300000 U
1,4-Dichlorobenzene	ug/kg	150000	60000	39000 U	340000 U	76000 U	1300000 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	4000000	360000	290000 U	2500000 U	570000 U	9700000 U
2-Hexanone	ug/kg			980000 U	8400000 U	1900000 U	32000000 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/kg		330000	980000 U	8400000 U	1900000 U	32000000 U
Acetone	ug/kg		1600000	290000 U	2500000 U	570000 U	9700000 U
Benzene	ug/kg	10000	100000	20000 U	170000 U	38000 U	650000 U
Bromodichloromethane	ug/kg		150000	39000 U	340000 U	76000 U	1300000 U
Bromoform	ug/kg		150000	39000 U	340000 U	76000 U	1300000 U
Bromomethane (Methyl bromide)	ug/kg		150000	78000 U	670000 U	150000 U	3200000 U
Carbon disulfide	ug/kg			98000 U	840000 U	190000 U	3200000 U
Carbon tetrachloride	ug/kg	10000	60000	20000 U	170000 U	38000 U	650000 U
Chlorobenzene	ug/kg	2000000	60000	20000 U	170000 U	38000 U	650000 U
Chloroethane	ug/kg		60000	98000 U	840000 U	190000 U	3200000 U
Chloroform (Trichloromethane)	ug/kg	120000	60000	20000 U	170000 U	38000 U	650000 U
Chloromethane (Methyl chloride)	ug/kg		300000	98000 U	840000 U	190000 U	3200000 U
cis-1,2-Dichloroethene	ug/kg			38000	260000	58000	1600000
cis-1,3-Dichloropropene	ug/kg		180000	20000 U	170000 U	38000 U	650000 U
Cyclohexane	ug/kg			470000 U	4000000 U	910000 U	16000000 U
Dibromochloromethane	ug/kg		150000	20000 U	170000 U	38000 U	650000 U
Dichlorodifluoromethane (CFC-12)	ug/kg		72000	39000 U	340000 U	76000 U	1300000 U
Ethylbenzene	ug/kg		100000	3300 J	190000 ^b	63000	510000 J ^b
Isopropyl benzene	ug/kg			98000 U	840000 U	190000 U	3200000 U
Methyl acetate	ug/kg			470000 U	4000000 U	910000 U	16000000 U
Methyl cyclohexane	ug/kg			470000 U	4000000 U	910000 U	16000000 U
Methyl tert butyl ether (MTBE)	ug/kg			98000 U	840000 U	190000 U	3200000 U
Methylene chloride	ug/kg		300000	98000 U	840000 U	190000 U	3200000 U
Styrene	ug/kg			20000 U	170000 U	38000 U	650000 U
Tetrachloroethene	ug/kg	14000	60000	20000 U	170000 U	38000 U	650000 U
Toluene	ug/kg		100000	39000 U	80000 J	24000 J	490000 J ^b
trans-1,2-Dichloroethene	ug/kg		300000	20000 U	170000 U	38000 U	650000 U
trans-1,3-Dichloropropene	ug/kg		180000	20000 U	170000 U	38000 U	650000 U
Trichloroethene	ug/kg	10000	60000	540000 ^{ab}	540000 ^{ab}	160000 ^{ab}	530000 ^{ab}
Trichlorofluoromethane (CFC-11)	ug/kg		300000	39000 U	340000 U	76000 U	1300000 U
Trifluorotrichloroethane (Freon 113)	ug/kg		300000	98000 U	840000 U	190000 U	3200000 U
Vinyl chloride	ug/kg	4000	60000	16000 U	130000 U	30000 U	520000 U
Xylenes (total)	ug/kg		300000	35000 J	1900000 ^b	700000 ^b	4700000 ^b
SVOCs							
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/kg			--	--	--	16000 U
2,4,5-Trichlorophenol	ug/kg	8000000	74000	--	--	--	16000 U
2,4,6-Trichlorophenol	ug/kg	40000	74000	--	--	--	16000 U
2,4-Dichlorophenol	ug/kg		140000	--	--	--	16000 U
2,4-Dimethylphenol	ug/kg		140000	--	--	--	16000 U

APPENDIX - C4

PAINT SLUDGE ANALYTICAL DATA

RCRA FIELD INVESTIGATION

COMPANY VEHICLE OPERATIONS AREA

YPSILANTI, MICHIGAN

Sample Location:	RCRA	UTS	GP19-03D	GP19-03D	GP19-03D	SG19-10	SG19-10
Sample Depth:			0-3 ft BGS	3-6 ft BGS	6-9 ft BGS	3-5 ft BGS	5-7 ft BGS
Sample ID:	x 20	Nonwastewater standard criteria	SO-17303-052705-DR-0710	SO-17303-052705-DR-0711	SO-17303-052705-DR-0712	SO-17303-020112-CB-001	ST-17303-020112-CB-002
Sample Date:		x 10	05/27/2005	05/27/2005	05/27/2005	02/01/2012	02/01/2012
Parameters	Units	a	b				
2,4-Dinitrophenol	ug/kg		1600000	--	--	--	8900 U
2,4-Dinitrotoluene	ug/kg	2600	1400000	--	--	--	16000 U
2,6-Dinitrotoluene	ug/kg		280000	--	--	--	16000 U
2-Chloronaphthalene	ug/kg		56000	--	--	--	16000 U
2-Chlorophenol	ug/kg		57000	--	--	--	16000 U
2-Methylnaphthalene	ug/kg			--	--	--	1000 J
2-Methylphenol	ug/kg	4000000	56000	--	--	--	16000 U
2-Nitroaniline	ug/kg		140000	--	--	--	12000 U
2-Nitrophenol	ug/kg		130000	--	--	--	16000 U
3&4-Methylphenol	ug/kg			--	--	--	16000 U
3,3'-Dichlorobenzidine	ug/kg			--	--	--	16000 U
3-Nitroaniline	ug/kg			--	--	--	12000 U
4,6-Dinitro-2-methylphenol	ug/kg		1600000	--	--	--	12000 U
4-Bromophenyl phenyl ether	ug/kg		150000	--	--	--	8900 U
4-Chloro-3-methylphenol	ug/kg		140000	--	--	--	16000 U
4-Chloroaniline	ug/kg		160000	--	--	--	16000 U
4-Chlorophenyl phenyl ether	ug/kg			--	--	--	12000 U
4-Nitroaniline	ug/kg		280000	--	--	--	12000 U
4-Nitrophenol	ug/kg		290000	--	--	--	20000 U
Acenaphthene	ug/kg		34000	--	--	--	16000 U
Acenaphthylene	ug/kg		34000	--	--	--	16000 U
Acetophenone	ug/kg		97000	--	--	--	16000 U
Anthracene	ug/kg		34000	--	--	--	16000 U
Atrazine	ug/kg			--	--	--	2400 U
Benzaldehyde	ug/kg			--	--	--	16000 U
Benzo(a)anthracene	ug/kg		34000	--	--	--	16000 U
Benzo(a)pyrene	ug/kg		34000	--	--	--	16000 U
Benzo(b)fluoranthene	ug/kg		68000	--	--	--	16000 U
Benzo(g,h,i)perylene	ug/kg		18000	--	--	--	16000 U
Benzo(k)fluoranthene	ug/kg		68000	--	--	--	16000 U
Biphenyl (1,1-Biphenyl)	ug/kg			--	--	--	16000 U
bis(2-Chloroethoxy)methane	ug/kg		72000	--	--	--	16000 U
bis(2-Chloroethyl)ether	ug/kg		60000	--	--	--	4700 U
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg		280000	--	--	--	16000 U
Butyl benzylphthalate (BBP)	ug/kg		280000	--	--	--	16000 U
Caprolactam	ug/kg			--	--	--	16000 U
Carbazole	ug/kg			--	--	--	16000 U
Chrysene	ug/kg		34000	--	--	--	16000 U
Dibenz(a,h)anthracene	ug/kg		82000	--	--	--	16000 U
Dibenzofuran	ug/kg			--	--	--	16000 U
Diethyl phthalate	ug/kg		280000	--	--	--	16000 U
Dimethyl phthalate	ug/kg		280000	--	--	--	16000 U
Di-n-butylphthalate (DBP)	ug/kg		280000	--	--	--	10000 J
Di-n-octyl phthalate (DnOP)	ug/kg		280000	--	--	--	16000 U
Fluoranthene	ug/kg		34000	--	--	--	560 J
Fluorene	ug/kg		34000	--	--	--	16000 U
Hexachlorobenzene	ug/kg	2600	100000	--	--	--	16000 U
Hexachlorobutadiene	ug/kg	10000	56000	--	--	--	2400 U
Hexachlorocyclopentadiene	ug/kg		24000	--	--	--	16000 U
Hexachloroethane	ug/kg	60000	300000	--	--	--	16000 U
Indeno(1,2,3-cd)pyrene	ug/kg		34000	--	--	--	16000 U
Isophorone	ug/kg			--	--	--	16000 U
Naphthalene	ug/kg		56000	--	--	--	3400 J
Nitrobenzene	ug/kg	40000	140000	--	--	--	16000 U
N-Nitrosodi-n-propylamine	ug/kg		140000	--	--	--	16000 U
N-Nitrosodiphenylamine	ug/kg		130000	--	--	--	16000 U
Pentachlorophenol	ug/kg	2000000	74000	--	--	--	8900 U
Phenanthrene	ug/kg		56000	--	--	--	1700 J
Phenol	ug/kg		62000	--	--	--	16000 U
Pyrene	ug/kg		82000	--	--	--	1000 J

APPENDIX - C4

PAINT SLUDGE ANALYTICAL DATA
RCRA FIELD INVESTIGATION
COMPANY VEHICLE OPERATIONS AREA
YPSILANTI, MICHIGAN

Sample Location:	RCRA	UTS	GP19-03D	GP19-03D	GP19-03D	SG19-10	SG19-10
Sample Depth:			0-3 ft BGS	3-6 ft BGS	6-9 ft BGS	3-5 ft BGS	5-7 ft BGS
Sample ID:	x 20	Nonwastewater standard criteria	SO-17303-052705-DR-0710	SO-17303-052705-DR-0711	SO-17303-052705-DR-0712	SO-17303-020112-CB-001	ST-17303-020112-CB-002
Sample Date:		x 10	05/27/2005	05/27/2005	05/27/2005	02/01/2012	02/01/2012
Parameters	Units	a					
Metals							
Antimony	ug/kg		--	--	--	5100000 B	1500000 B
Arsenic	ug/kg	100000	--	--	--	11000	13000
Barium	ug/kg	2000000	--	--	--	4400000 B ^a	1900000 B
Beryllium	ug/kg		--	--	--	170 U	3800 U
Cadmium	ug/kg	20000	--	--	--	5000	17000
Chromium	ug/kg	100000	--	--	--	2600000 ^a	4500000 ^a
Chromium III (trivalent)	ug/kg		--	--	--	2500000	2200000
Chromium VI (hexavalent)	ug/kg		--	--	--	100000	43000000
Cobalt	ug/kg		--	--	--	9200	420000
Copper	ug/kg		--	--	--	44000	63000
Lead	ug/kg	100000	--	--	--	--	9000000 ^a
Lead - coarse fraction	ug/kg		--	--	--	390000	--
Lead - fine fraction	ug/kg		--	--	--	540000	--
Lead - total (calculated by fine/coarse fraction)	ug/kg		--	--	--	450000	--
Manganese	ug/kg		--	--	--	180000 B	480000 B
Mercury	ug/kg	4000	--	--	--	120	43 J
Nickel	ug/kg		--	--	--	4600	19000 U
Selenium	ug/kg	20000	--	--	--	17000 U	19000 U
Silver	ug/kg	100000	--	--	--	3800 J	9500 U
Thallium	ug/kg		--	--	--	8400 U	9500 U
Vanadium	ug/kg		--	--	--	9400	15000 J
Zinc	ug/kg		--	--	--	4500000 B	78000000 B
PCBs							
Aroclor-1016 (PCB-1016)	ug/kg		--	--	--	1600 U	38000 U
Aroclor-1221 (PCB-1221)	ug/kg		--	--	--	1600 U	38000 U
Aroclor-1232 (PCB-1232)	ug/kg		--	--	--	1600 U	38000 U
Aroclor-1242 (PCB-1242)	ug/kg		--	--	--	1600 U	38000 U
Aroclor-1248 (PCB-1248)	ug/kg		--	--	--	1600 U	38000 U
Aroclor-1254 (PCB-1254)	ug/kg		--	--	--	420 J	38000 U
Aroclor-1260 (PCB-1260)	ug/kg		--	--	--	1600 U	38000 U
Total PCBs	ug/kg		--	--	--	420	38000 U
General Chemistry							
Total solids	%		88.8	56.5	91.4	--	--

**LNAPL ANALYTICAL DATA
RCRA FIELD INVESTIGATION
COMPANY VEHICLE OPERATIONS AREA
YPSILANTI, MICHIGAN**

Sample Location:	MW19-10	SB19-57	IW-40
Sample Depth:	-	6-6.9 ft BGS	-
Sample ID:	FP-17303-120712-EM-066	FP-17303-090512-EM-001	W-17303-032106-NR-0994
Sample Date:	12/07/2012	09/05/2012	03/21/2006

Parameters**Units****VOCs**

1,1,1-Trichloroethane	ug/kg	5300 U	88000 U	2900000 U
1,1,2,2-Tetrachloroethane	ug/kg	5300 U	88000 U	2900000 U
1,1,2-Trichloroethane	ug/kg	5300 U	36000 J	2900000 U
1,1-Dichloroethane	ug/kg	5300 U	88000 U	2900000 U
1,1-Dichloroethene	ug/kg	1100 J	88000 U	2900000 U
1,2,4-Trichlorobenzene	ug/kg	5300 U	88000 U	5700000 U
1,2-Dibromo-3-chloropropane (DBCP)	ug/kg	5300 U	88000 U	5700000 U
1,2-Dibromoethane (Ethylene dibromide)	ug/kg	5300 U	88000 U	2900000 U
1,2-Dichlorobenzene	ug/kg	4100 J	88000 U	5700000 U
1,2-Dichloroethane	ug/kg	5300 U	88000 U	2900000 U
1,2-Dichloropropane	ug/kg	5300 U	88000 U	2900000 U
1,3-Dichlorobenzene	ug/kg	5300 U	88000 U	5700000 U
1,4-Dichlorobenzene	ug/kg	1100 J	88000 U	5700000 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	21000 U	350000 U	12000000 U
2-Hexanone	ug/kg	21000 U	350000 U	12000000 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/kg	21000 U	350000 U	12000000 U
Acetone	ug/kg	21000 U	44000 JB	12000000 U
Benzene	ug/kg	2500 J	30000 J	510000 J
Bromodichloromethane	ug/kg	5300 U	88000 U	2900000 U
Bromoform	ug/kg	5300 U	88000 U	2900000 U
Bromomethane (Methyl bromide)	ug/kg	11000 U	180000 U	5700000 UJ
Carbon disulfide	ug/kg	5300 U	9300 JB	2900000 U
Carbon tetrachloride	ug/kg	5300 U	88000 U	2900000 U
Chlorobenzene	ug/kg	5300 U	88000 U	2900000 U
Chloroethane	ug/kg	11000 U	180000 U	5700000 U
Chloroform (Trichloromethane)	ug/kg	5300 U	88000 U	2900000 U
Chloromethane (Methyl chloride)	ug/kg	11000 U	180000 U	5700000 U
cis-1,2-Dichloroethene	ug/kg	150000	600000	10000000
cis-1,3-Dichloropropene	ug/kg	5300 U	88000 U	2900000 U
Cyclohexane	ug/kg	14000	180000 U	12000000 U
Dibromochloromethane	ug/kg	5300 U	88000 U	2900000 U
Dichlorodifluoromethane (CFC-12)	ug/kg	11000 U	180000 U	5700000 U

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Sample Depth:	-	6-6.9 ft BGS	-
Sample ID:	FP-17303-120712-EM-066	FP-17303-090512-EM-001	W-17303-032106-NR-0994
Sample Date:	12/07/2012	09/05/2012	03/21/2006

Parameters	Units			
Ethylbenzene	ug/kg	200000	380000	1400000 J
Isopropyl benzene	ug/kg	82000	75000 JB	410000 J
Methyl acetate	ug/kg	11000 U	180000 U	5700000 U
Methyl cyclohexane	ug/kg	150000	88000 U	900000 J
Methyl tert butyl ether (MTBE)	ug/kg	21000 U	350000 U	12000000 U
Methylene chloride	ug/kg	5300 U	88000 U	2900000 U
Styrene	ug/kg	5300 U	88000 U	2900000 UJ
Tetrachloroethene	ug/kg	5300 U	88000 U	2900000 U
Toluene	ug/kg	3400 J	320000	13000000
trans-1,2-Dichloroethene	ug/kg	1500 J	88000 U	1500000 U
trans-1,3-Dichloropropene	ug/kg	5300 U	88000 U	2900000 U
Trichloroethene	ug/kg	14000	25000000	57000000
Trichlorofluoromethane (CFC-11)	ug/kg	11000 U	180000 U	5700000 U
Trifluorotrichloroethane (Freon 113)	ug/kg	11000 U	180000 U	12000000 U
Vinyl chloride	ug/kg	6900 J	180000 U	620000 J
Xylenes (total)	ug/kg	530000 B	4000000 B	10000000

SVOCs

2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/kg	100000 U	--	130000 U
2,4,5-Trichlorophenol	ug/kg	100000 U	--	130000 U
2,4,6-Trichlorophenol	ug/kg	100000 U	--	130000 U
2,4-Dichlorophenol	ug/kg	100000 U	--	130000 U
2,4-Dimethylphenol	ug/kg	100000 U	--	130000 U
2,4-Dinitrophenol	ug/kg	490000 U	--	640000 U
2,4-Dinitrotoluene	ug/kg	100000 U	--	130000 U
2,6-Dinitrotoluene	ug/kg	100000 U	--	130000 U
2-Chloronaphthalene	ug/kg	100000 U	--	130000 U
2-Chlorophenol	ug/kg	100000 U	--	130000 U
2-Methylnaphthalene	ug/kg	18000 J	--	190000
2-Methylphenol	ug/kg	9500 J	--	130000 U
2-Nitroaniline	ug/kg	490000 U	--	640000 U
2-Nitrophenol	ug/kg	100000 U	--	130000 U
3&4-Methylphenol	ug/kg	14000 J	--	640000 U

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Sample Date:	12/07/2012	09/05/2012	03/21/2006

Parameters	Units			
3,3'-Dichlorobenzidine	ug/kg	490000 U	--	640000 U
3-Nitroaniline	ug/kg	490000 U	--	640000 U
4,6-Dinitro-2-methylphenol	ug/kg	490000 U	--	130000 U
4-Bromophenyl phenyl ether	ug/kg	100000 U	--	130000 U
4-Chloro-3-methylphenol	ug/kg	100000 U	--	130000 U
4-Chloroaniline	ug/kg	100000 U	--	130000 U
4-Chlorophenyl phenyl ether	ug/kg	100000 U	--	130000 U
4-Nitroaniline	ug/kg	490000 U	--	640000 U
4-Nitrophenol	ug/kg	490000 U	--	640000 U
Acenaphthene	ug/kg	7100 J	--	180000
Acenaphthylene	ug/kg	6600 J	--	130000 U
Acetophenone	ug/kg	100000 U	--	130000 U
Anthracene	ug/kg	6800 J	--	52000 J
Atrazine	ug/kg	100000 U	--	130000 U
Benzaldehyde	ug/kg	100000 U	--	130000 U
Benzo(a)anthracene	ug/kg	100000 U	--	130000
Benzo(a)pyrene	ug/kg	100000 U	--	71000 J
Benzo(b)fluoranthene	ug/kg	100000 U	--	92000 J
Benzo(g,h,i)perylene	ug/kg	100000 U	--	38000 J
Benzo(k)fluoranthene	ug/kg	100000 U	--	57000 J
Biphenyl (1,1-Biphenyl)	ug/kg	7200 J	--	37000 J
bis(2-Chloroethoxy)methane	ug/kg	100000 U	--	130000 U
bis(2-Chloroethyl)ether	ug/kg	100000 U	--	130000 U
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	100000 U	--	130000 U
Butyl benzylphthalate (BBP)	ug/kg	100000 U	--	130000 U
Caprolactam	ug/kg	100000 U	--	130000 U
Carbazole	ug/kg	100000 U	--	130000 U
Chrysene	ug/kg	100000 U	--	110000 J
Dibenz(a,h)anthracene	ug/kg	100000 U	--	11000 J
Dibenzofuran	ug/kg	8400 J	--	130000
Diethyl phthalate	ug/kg	100000 U	--	130000 U
Dimethyl phthalate	ug/kg	100000 U	--	130000 U
Di-n-butylphthalate (DBP)	ug/kg	300000	--	1400000
Di-n-octyl phthalate (DnOP)	ug/kg	100000 U	--	130000 U

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Sample Date:	12/07/2012	09/05/2012	03/21/2006

Parameters	Units			
Fluoranthene	ug/kg	11000 J	--	470000
Fluorene	ug/kg	9000 J	--	120000 J
Hexachlorobenzene	ug/kg	100000 U	--	130000 U
Hexachlorobutadiene	ug/kg	100000 U	--	130000 U
Hexachlorocyclopentadiene	ug/kg	490000 U	--	640000 U
Hexachloroethane	ug/kg	100000 U	--	130000 U
Indeno(1,2,3-cd)pyrene	ug/kg	100000 U	--	35000 J
Isophorone	ug/kg	100000 U	--	130000 U
Naphthalene	ug/kg	34000 J	--	650000
Nitrobenzene	ug/kg	100000 U	--	130000 U
N-Nitrosodi-n-propylamine	ug/kg	100000 U	--	130000 U
N-Nitrosodiphenylamine	ug/kg	9700 J	--	130000 U
Pentachlorophenol	ug/kg	100000 U	--	130000 U
Phenanthrene	ug/kg	17000 J	--	730000
Phenol	ug/kg	100000 U	--	130000 U
Pyrene	ug/kg	13000 J	--	300000

Metals

Antimony	mg/kg	0.97 J	--	1.9 J
Arsenic	mg/kg	1.6	--	30.0 U
Barium	mg/kg	0.30 JB	--	0.49 J
Beryllium	mg/kg	0.50 U	--	0.50 U
Cadmium	mg/kg	0.20 U	--	6.0
Chromium	mg/kg	430	--	807
Cobalt	mg/kg	0.20 J	--	5.0 U
Copper	mg/kg	2.5 U	--	2.5 U
Lead	mg/kg	0.30 U	--	10.0 U
Manganese	mg/kg	0.95 JB	--	1.1 J
Mercury	mg/kg	0.12 U	--	0.10 UJ
Nickel	mg/kg	0.46 J	--	0.43 J
Selenium	mg/kg	0.50 U	--	0.32 J
Silver	mg/kg	0.50 U	--	1.0 U
Thallium	mg/kg	1.0 U	--	0.69 J

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Sample Date:	12/07/2012	09/05/2012	03/21/2006

Parameters	Units			
Vanadium	mg/kg	12	--	3.7 J
Zinc	mg/kg	1.0 J	--	55.7

PCBs

Aroclor-1016 (PCB-1016)	ug/kg	980 U	--	2000 U
Aroclor-1221 (PCB-1221)	ug/kg	980 U	--	2000 U
Aroclor-1232 (PCB-1232)	ug/kg	980 U	--	2000 U
Aroclor-1242 (PCB-1242)	ug/kg	980 U	--	2000 U
Aroclor-1248 (PCB-1248)	ug/kg	980 U	--	30000
Aroclor-1254 (PCB-1254)	ug/kg	980 U	--	2000 U
Aroclor-1260 (PCB-1260)	ug/kg	140 J	--	21000

Petroleum Hydrocarbons

Total Petroleum Hydrocarbons - Extractable (DRO)	mg/kg	--	--	650000
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General Chemistry

Flash point (closed cup)	Deg F	180 >	--	--
Heating value	Btu/lb	--	--	16400
Ignitability	Deg F	--	--	102
Specific gravity	g/mL	--	--	0.89
Viscosity	cp	--	--	32.5