



Mary Vanderlaan
Supervisor, Lansing District
Michigan Department of Environmental Quality
Water Resources Division
P. O. Box 30242
Lansing, MI 48909

Subject:
NPDES Permit No. MI0001597
2011 Annual Pollution Minimization Program Report for PCBs
RACER Buick City (formerly known as Powertrain Flint North)
Flint, Michigan

Dear Ms. Vanderlaan:

This report was prepared by ARCADIS on behalf of the Revitalizing Auto Communities Environmental Response (RACER) Trust, for the Buick City Site (formerly known as Powertrain Flint North facility) located in Flint, Michigan. On March 31, 2011 ownership of the site was transferred from Motors Liquidation Company (MLC) to RACER Properties LLC and responsibility for the environmental remediation of the Site was transferred to RACER Trust. Please note that RACER Trust retains the requirements and responsibilities of the National Pollutant Discharge Elimination System (NPDES) Permit No. MI0001597.

This 2011 Annual Pollutant Minimization Program (PMP) Report for polychlorinated biphenyls (PCBs) is being submitted for the Buick City Site (the Site), which is located at 902 E. Leith Street in Flint, Michigan. The goal of the PMP is to maintain the effluent concentration of total PCBs at or below 0.026 nanograms per liter (ng/L) at Monitoring Point 003A. As required per the above referenced NPDES permit, Part 1, Section A(6), the permittee shall submit on or before May 15 of each year a status report to the Department that includes 1) the monitoring results for the previous year, 2) an updated list of potential sources, and 3) a summary of all actions taken to reduce or eliminate identified sources of PCBs.

Imagine the result

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ENVIRONMENT

Date:
May 7, 2012

Contact:
Christopher S. Peters

Phone:
810.225.1905

Email:
Chris.peters@arcadis-us.com

Our ref:
B0064410

Revised PMP Submittal

On July 15, 2010 a revised PCB Minimization Plan (2010 PMP) was submitted to the Michigan Department of Environmental Quality (MDEQ), which was intended to update and replace the July 2002 PCB Minimization Plan. The 2010 PMP proposed several changes, including removal of a number of PCB control measures, due to their ineffectiveness. Termination of these PMP components was further discussed in phone conversations and E-mails with the MDEQ, and on September 24, 2010 ARCADIS submitted a letter to the MDEQ notifying them that the Site was removing the following control measures.

- Oil Interceptor #1 - Operation of the Oil Interceptor #1 continued through September 30, 2010. It was necessary to shut down and dismantle Oil Interceptor #1 in order to facilitate the construction of the Outfall 003/004 Storm Sewer Diversion and Treatment System (Outfall 003/004 System). The Outfall 003/004 System was constructed along Outfalls 003 and 004 and completed in January 2011. The Outfall 003/004 System removes oil and sediment from the Outfall 003 and 004 storm sewer systems.
- Factory 5 and 81 Light Non-Aqueous Phase Liquids (LNAPL) Removal Systems – The operation of the Factory 5 and 81 LNAPL Removal Systems continued through September 30, 2010. The LNAPL removal systems were shutdown on October 1, 2010 because the rate of LNAPL recovery had become negligible, due to the lack of recoverable LNAPL within the capture zone of the system.
- Factory 10/Scrapyard Area Multi-element Groundwater Treatment System - The Factory 10 Treatment System continued to treat LNAPL/groundwater from beneath Factory 10, LNAPL/groundwater from the Scrapyard Area and other miscellaneous waste waters through October 2010. The Factory 10 Treatment System was shutdown on October 31, 2010 because the rate of LNAPL recovery had become negligible, due to the lack of recoverable LNAPL within the capture zone of the system.

In addition to the termination of these control measures in 2010, Oil Interceptor #2 was deactivated in 2011. Manufacturing operation ceased at the Site on December 6, 2010. Demolition of the Site was completed in April 2012. As part of Site decommissioning and demolition activities electricity to the Site has been terminated; therefore, Oil Interceptor #2 is no longer actively removing oil. However the Oil

Interceptor #2 structure is still present at the Site and continues to function as an oil water separator. ARCADIS continues to perform periodic maintenance and oil removal through the use of skimmers and booms Oil Interceptor #2.

List of Potential Sources

The sources of PCBs at the Site are from LNAPL plumes. Potential Sources of PCBs are present at six discrete areas of the Site; Factory 10/Scrapyard Area, Factory 81 Area, Factory 05 Area, Building 86/Leith Street Overpass Area, Factory 83/84 Area and Former Building 12 Area. No new potential sources of PCBs were identified in 2011.

Actions Taken to Reduce or Eliminate PCB Sources and to Maintain PCB Effluent Concentrations Below NPDES Criterion

Outfalls 003 and 004

In 2011 boom studies were completed along Outfall 004 to isolate areas where LNAPL might be entering the storm sewer from subsurface infiltration. Additional boom studies are planned to be completed along the Outfall 003 storm sewer system in 2012 to identify potential areas of LNAPL infiltration. Absorbent booms were also maintained in on Site manholes and at the end of the outfalls to capture and remove LNAPL.

Oil Interceptor #2 continued to be used as an oil-water separator along the Outfall 003 storm sewer system in 2011. Also the Outfall 003/004 Storm Sewer Diversion and Treatment System (Outfall 003/004 System) was constructed along Outfalls 003 and 004. The Outfall 003/004 System construction was completed in January 2011 and continues to remove oil and sediment from the Outfall 003 and 004 storm sewer systems.

In 2011 two releases were detected at Outfall 003. Releases were minimal and immediately addressed. Releases were reported on August 5 and September 29, 2011 to the National Response Center (NRC), MDEQ and City of Flint Water Pollution Control Facilities. Activities have been completed at the Site to secure the permanent booms and to minimize the presence of oils and sheens at the outfall. Anchoring systems were installed at the permanent booms to increase the stability of the booms during expected water level fluctuations on the river.

Outfall 005

In 2010 a boom study was completed along Outfall 005 to identify the area of LNAPL infiltration along the sewer system. Absorbent booms have been placed downstream of the infiltration point to capture and remove LNAPL. Absorbent booms are also maintained at the outfall to capture and remove LNAPL.

P-traps previously installed in the Leith Street Overpass under drain system continued to be monitored quarterly to verify their continued operation.

Site wide

As part of the ongoing Resource Conservation and Recovery Act (RCRA) Corrective Action activities at the Site, RACER completed additional subsurface investigations (laser induced fluorescence [LIF]) to delineate the source areas of PCB containing LNAPL. Additional LIF investigation activities are planned to be completed at the Site in 2012, following the completion of demolition activities. This information will be used to help design LNAPL control systems to control the movement of PCBs.

In addition to the LIF investigation activities mentioned above, RACER intends to perform bulkhead activities at several storm sewers at the Site in 2012 to eliminate select portions of the sewers as a pathway for oil migration. These actions are subject to EPA approval.

Monitoring Results

Monitoring results for the previous year are provided in attachments to this document and include:

- Attachment 1 – Presents the quarterly progress reports submitted to the Environmental Protection Agency (EPA) concerning work completed as part of the RCRA Corrective Action program. The four reports (Quarterly Progress Report No. 45 and 46 submitted in accordance with General Motors Corporation's Administrative Order on Consent Number R8H-5-00-02 and Quarterly Progress Report No. 1 and 2 submitted in accordance with Section VI (18b) of the RACER Trust's Administrative Order on Consent RCRA-05-2011-0024) cover the timeframe from January 1, 2011 through December 31, 2011.

- Attachment 2 – Presents the analytical results from the Monitoring Point 003A weekly dry weather and yearly wet weather samples submitted for PCB analysis, as well as the analytical results from Outfall 005 monthly samples submitted for PCB analysis. PCBs were not detected.
- Attachment 3 – Presents the inspection notes from the Outfall 003/004 BaySaver separation system.

Please contact me at 810.225.1905 at your convenience if you have any questions or require further information regarding this submittal.

Sincerely,

ARCADIS US, Inc.



Christopher S. Peters, P.G.
Vice President

Copies:

Chris Black, USEPA Region 5
Grant Trigger, RACER Trust
Dave Favero, RACER Trust

Attachments:

Attachment 1 – RCRA Corrective Action Program - Quarterly Progress Reports
Attachment 2 – 2011 Outfall 003 Dry and Wet Weather Storm Water Sampling Results
Attachment 3 – 2011 Field Inspection Notes – Outfall 003/004 BaySaver Separation System

Attachment 1

RCRA Corrective Action Program -
Quarterly Progress Reports

Mr. Chris Black
U.S. Environmental Protection Agency – Region 5
Waste, Pesticides, and Toxics Division
77 W. Jackson Blvd. DE-97
Chicago, IL 60604-3590

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Subject:

Quarterly Progress Report No. 45
Motors Liquidation Company Buick City Site (formerly referred to as GM NAO Flint Operations Site)
Flint, Michigan

ENVIRONMENT

Date:
April 15, 2011

Dear Mr. Black:

Contact:
Christopher S. Peters,
P.G.
Phone:
810.225.1905
Email:
[chris.peters@arcadis-us.c](mailto:chris.peters@arcadis-us.com)

On behalf of Motors Liquidation Company (MLC), ARCADIS is submitting this Quarterly Progress Report in accordance with Section VI (4b) of the General Motors Corporation's Administrative Order on Consent (Consent Order) Number R8H-5-00-02 for its North American Operations (NAO) Flint Operations Site (also known as Buick City) in Flint, Michigan (the Site). This Quarterly Progress Report covers the period of January 1, 2011 through March 31, 2011. Please note that on April 1, 2011 the environmental remediation of the Buick City property was transitioned from MLC to the Revitalizing Auto Communities Environmental Response (RACER) Trust. The Racer Trust Michigan Site Cleanup Manager is Mr. Grant Trigger. Mr. Trigger's contact information is - RACER, 401 S. Old Woodward, Suite 370, Birmingham, Michigan 48009, Phone: (313) 486-2908, Cell: (313) 670-6226, Email: gtrigger@racertrust.org.

Our ref:
B0064410.2011 #5

The following briefly summarizes the work performed and data collected, problems encountered, project schedule, and percent project completed.

Work Performed and Data Collected

Samples collected this quarter:

Attachment 1 provides sample locations, sampling dates, and associated analytes for each of the samples collected during this quarter.

Rinse Water Samples

On March 21, 2011, as part of the *Factory 36: Work Plan for Response Activities at the RCRA Waste Management Unit*, two decontamination rinse water samples were collected from the Factory 36 RCRA Waste Management Unit (WMU). Samples were submitted for analysis of ignitability, volatile organic compounds (VOCs), F-Scan

VOCs, F-Scan semi-volatile organic compounds (SVOCs), polychlorinated biphenyls (PCBs), n-butyl alcohol, isobutyl alcohol, methyl alcohol, and mercury.

Soil Samples

On March 22, 2011, as part of the *Factory 36: Work Plan for Response Activities at the RCRA Waste Management Unit*, three soil samples were collected from beneath the Factory 36 RCRA WMU after unit decommissioning. Samples were submitted for analysis of Ignitability, VOCs, F-Scan VOCs, F-Scan SVOCs, PCBs, n-butyl alcohol, isobutyl alcohol, methyl alcohol, and mercury.

Storm Sewer Water Samples

In January, February, and March ARCADIS conducted the "NPDES Plus" Monitoring Program (NPMP) as described in the Corrective Measures Implementation (CMI) Work Plan. The NPMP consists of collecting monthly samples from the 11 Site storm sewers to monitor groundwater infiltrating into the Site storm sewers. The following 11 monitoring points were sampled as access allowed: MP001, MP002, MP003, MP004, MP005, MP006, MP007, MP009, MP010, MP011, and MP013. The samples were submitted for analysis of metals, VOCs, low level total mercury, cyanide, and/or PCBs. Additionally, the February samples were also submitted for analyses of dissolved metals and TSS and the March samples were analyzed for TSS.

From January to March 2011, as required per Part 1, Section A 2 in the current NPDES Permit No. MI0001597, weekly composite samples were collected from Monitoring Point 003A. The samples were submitted to the laboratory for analysis of total PCBs.

Work performed this quarter is itemized below:

Task 1 Outfall 003/004 Oil Removal Systems

- Completed installation of overflow weir, trash rack, and orifice plate in vault 4-6 to complete all construction components of the 003/004 system.
- Began operation of the Outfall 003/004 Oil Removal System on January 12, 2011.
- Initiated operations, maintenance, and monitoring (OMM) activities on the 003/004 system. Inspections are being performed three times per week during the system start-up period to ensure that the system is running properly and to determine if any system modifications are warranted to optimize system performance.
- Completed the draft 003/004 System Construction Documentation Report and OMM Manual.

- Final inspection and closure of the storm water connection permit was performed on February 8, 2011 by the City of Flint.

Task 2 LNAPL Investigation

- Completed the LIF Investigation Summary Report for AOI's in the Southend of the Site. The LIF report will be submitted as part of the 2010 CMI Annual Report.

Task 3 LNAPL Recovery Bench and Field-Scale Testing

- Submitted the *Response to Comments – LNAPL Remediation Technology Bench-Scale Testing* document to the United States Environmental Protection Agency (EPA) on March 25, 2011
- Completed waste disposal from pilot testing activities.

Task 4 Operate Factory 10 LNAPL/GW System

- Continued system decommissioning and waste disposal coordination.
- Transferred treated system water to the Site wastewater treatment plant.
- Removed activated carbon and organoclay from system and sampled for waste characterization.

Task 5 Operate Factory 36 LNAPL/GW System

- Coordinated disposal of system waste.

Task 6 Maintain Booms on Outfalls

- Conducted inspections of Outfalls 002, 003, 004, and 005.
- Completed inspections and weekly NPDES sampling at MP003A. Samples collected are listed in Attachment 1.
- Completed inspections of Oil Interceptor #2.

Task 7 Enhanced Groundwater Monitoring

- Completed data evaluation and report preparation activities for 2010 annual groundwater sampling event, which will be included in the 2010 CMI Annual Report.

Task 8 NPDES PLUS Monitoring

- Completed the monthly NPDES Plus Monitoring events for January, February, and March. Samples collected as part of this program are listed in Attachment 1.
- Completed data evaluation and report preparation for the 2010 NPMP samples, which will be included in the 2010 CMI Annual Report.

Task 9 RCRA Closures, Well Abandonment, Restrictive Covenants, Resolve UST Issues

- Began closure activities for the Factory 36 RCRA WMU. Cleaning and sampling of the pad was performed in March with the MDEQ in attendance.
- Completed draft work plans for closure of the waste management units for the Northend and Southend of the site continued.
- Submitted draft restrictive covenants for the Southend of the Site to MLC personnel for review.

Task 10 Maintain Select Surface Covers

- Performed the quarterly inspection of surface cover areas in March 2011.
- Prepared summary of 2010 quarterly inspections for CMI annual report in compliance with the CMI work plan.

Task 11 Lead Soil Removal

- Completed summary of 2010 lead soil investigation, which will be included in the 2010 CMI annual report.
- Continued to coordinate with CSX to complete an access agreement needed to complete remediation activities.

Task 12 Agency Coordination/Negotiation, Reporting, Project Management

- Participated in regulatory agency calls and meetings.
- Submitted Quarterly Progress Report No. 44 to the EPA.
- Began preparation of the 2010 CMI Annual Report.

Task 13 Outfall 002/005 Oil Minimization & Investigation

- Continued inspections of booms placed in Outfall 002 and 005 manholes.
- Performed quarterly inspections of the P-traps.

Task 14 Address 15 Areas of Subsurface LNAPL

- Continued with system design for AOI 09 -B multi-phase extraction (MPE) system.
- Continued preparation of AOI 09-B MPE system design drawings.
- Coordinated air permitting for AOI 09-B system.
- Coordinated permit for water discharge of the AOI 09 -B system to the City of Flint sanitary sewer.

Problems Encountered

Due to the timing of the transition from MLC to RACER Trust, which occurred on April 1, 2010, ARCADIS requested and received an extension from the EPA for the submittal of the 2010 CMI Annual Report. The report will be submitted to the EPA by May 1, 2011.

Project Schedule – Near-Term Milestone Activities Anticipated During the Next Quarter

Task 1 Outfall 003/004 Oil Removal Systems

Work outstanding for the Outfall 003/004 Diversion and Treatment System Include:

- General Site grading to create a level finish to the ground surface (Postponed until spring 2011 due to heavy snow cover and frost).
- Seeding and mulching to achieve a vegetative cover (not completed due to inability to establish vegetation in winter months – postponed until Spring 2011).
- Continued OMM inspections of system.

Task 2 LNAPL Investigation

Submit Southend LIF Summary Report as part of the 2010 CMI Annual Report.

- Prepare the LIF work plan for the LNAPL investigation in the Northend of the Site.

Task 3 LNAPL Recovery Bench and Field-Scale Testing

- Complete bench-scale testing for areas at the Southend of the Site.
- Begin evaluation of bench-scale data.

Task 4 Operate Factory 10 LNAPL/GW System

- Complete Factory 10 decommissioning activities.

Task 5 Operate Factory 36 LNAPL/GW System

- Complete Factory 36 decommissioning activities.

Task 7 Enhanced Groundwater Monitoring

- Report the results of the 2010 annual groundwater sampling event as part of the 2010 CMI Annual Report.

Task 8 NPDES PLUS Monitoring

- Report the results of the 2010 NPMP monitoring as part of the 2010 CMI Annual Report.
- Perform NPMP monitoring in April, May and June.

- Task 9 RCRA Closures, Well Abandonment, Restrictive Covenants, Resolve UST Issues*
- Finalize and submit to MDEQ closure work plans for waste management units located in the Northend and Southend of the Site.
 - Finalize Certification of Closure for Factory 36 waste management units (WMU).
 - Begin closure activities for remaining WMUs, after receiving MDEQ approval of the work plans.
 - Finalize and submit to EPA restrictive covenants for the Southend of the Site.
- Task 10 Maintain Select Surface Covers*
- Report the results of the 2010 surface cover inspections as part of the 2010 CMI Annual Report.
 - Perform quarterly inspection of surface cover.
- Task 11 Lead Soil Removal*
- Continue to pursue access agreement with CSX to enable soil removal to occur.
- Task 12 Agency Coordination/Negotiation, Reporting, Project Management*
- Continue to participate in regulatory agency calls.
 - Prepare Quarterly Report for submittal to the EPA.
 - Continue preparing monthly memos summarizing Site activities for submittal to the EPA.
 - Finalize and submit 2010 CMI Annual Report to EPA
 - Finalize and submit response to comments for the 2010 CMP Addendum #2.
- Task 13 Outfall 002/005 Oil Minimization & Investigation*
- Continue inspections of booms placed in Outfall 002 and 005 manholes.
 - Continue quarterly P-trap inspections.
- Task 14 Address 15 Areas of Subsurface LNAPL*
- Complete full-scale MPE system design for AOI 09-B.
 - Begin construction of the AOI-9B LNAPL remediation system.
 - Finalize and submit the air permit application for AOI-9B to the MDEQ.
 - Finalize and submit the permit application for discharge of effluent to sanitary sewer to the City of Flint.

If you have any questions, please call me.

Sincerely,

ARCADIS



Christopher S. Peters, P.G.
Vice President

Copies:

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Attachments:

Attachment 1– Sample Report

ATTACHMENT 1

REVITALIZING AUTO COMMUNITIES ENVIRONMENTAL RESPONSE TRUST
 NAO FLINT OPERATIONS SITE (ALSO KNOWN AS BUICK CITY)
 SAMPLE REPORT

Matrix: Rinse Water (Factory 36 - Waste Management Unit (WMU) #1)			Samples Collected Between 1.1.2011 to 3.31.2011			
Location-ID	Field Sample ID	Date Sampled	Analyses	Comments	Date EDD Received	Date Validated
Factory 36 WMU#1 - floor sample	F36-Final Rinse - Floor (032111)	3/21/2011	Ignitability, VOCs, F-Scan VOCs, F-Scan SVOCs, PCBs, Isobutyl Alcohol, Methyl Alcohol, n-Butyl Alcohol, Mercury	NA	NA	NA
Factory 36 WMU#1 - sump sample	F36-Final Rinse - Sump (032111)	3/21/2011	Ignitability, VOCs, F-Scan VOCs, F-Scan SVOCs, PCBs, Isobutyl Alcohol, Methyl Alcohol, n-Butyl Alcohol, Mercury	NA	NA	NA
TRIP BLANK	Trip Blank - 01	3/21/2011	VOCs, F-Scan VOCs, F-Scan SVOCs, Isobutyl Alcohol, Methyl Alcohol, n-Butyl Alcohol	NA	NA	NA
Matrix: Soil (Factory 36 - Waste management unit (WMU) #1)			Samples Collected Between 1.1.2011 to 3.31.2011			
Factory 36 WMU#1 - soil sample 1	F36-SS1 (032211)	3/22/2011	Ignitability, VOCs, F-Scan VOCs, F-Scan SVOCs, PCBs, Isobutyl Alcohol, Methyl Alcohol, n-Butyl Alcohol, Mercury	NA	NA	NA
Factory 36 WMU#1 - soil sample 2	F36-SS2 (032211)	3/22/2011	Ignitability, VOCs, F-Scan VOCs, F-Scan SVOCs, PCBs, Isobutyl Alcohol, Methyl Alcohol, n-Butyl Alcohol, Mercury	NA	NA	NA
Factory 36 WMU#1 - soil sample 3	F36-SS3 (032211)	3/22/2011	Ignitability, VOCs, F-Scan VOCs, F-Scan SVOCs, PCBs, Isobutyl Alcohol, Methyl Alcohol, n-Butyl Alcohol, Mercury	NA	NA	NA
TRIP BLANK	Trip Blank - 02	3/22/2011	VOCs, F-Scan VOCs, F-Scan SVOCs, Isobutyl Alcohol, Methyl Alcohol, n-Butyl Alcohol	NA	NA	NA

ATTACHMENT 1

REVITALIZING AUTO COMMUNITIES ENVIRONMENTAL RESPONSE TRUST
NAO FLINT OPERATIONS SITE (ALSO KNOWN AS BUICK CITY)
SAMPLE REPORT

Matrix: Storm Sewer Water (Monthly "NPDES Plus" Monitoring Program [NPMP] sampling)			Samples Collected Between 1.1.2011 to 3.31.2011				
Location-ID	Field Sample ID	Date Sampled	Analyses	Comments	Date EDD Received	Date Validated	
MH 2-19	MP002_01262011	1/26/2011	Low Level Mercury, Metals*, VOCs, Cyanide	NA	NA	NA	
MH 3-3	MP003_01262011	1/26/2011	Low Level Mercury, Metals*, VOCs, Cyanide	NA	NA	NA	
MH 4-5	MP004_01262011	1/26/2011	Low Level Mercury, Metals*, VOCs, Cyanide	NA	NA	NA	
MH 5-6	MP005_01262011	1/26/2011	Low Level Mercury, Metals*, VOCs, Cyanide	NA	NA	NA	
MH 6-2	MP006_01262011	1/26/2011	Low Level Mercury, Metals*, VOCs, Cyanide	NA	NA	NA	
MH 11-7	MP009_01262011	1/26/2011	Low Level Mercury, Metals*, VOCs, Cyanide	NA	NA	NA	
MH 10-5	MP010_01262011	1/26/2011	Low Level Mercury, Metals*, VOCs, Cyanide	NA	NA	NA	
Outfall 011	MP011_01262011	1/26/2011	Low Level Mercury, Metals*, VOCs, Cyanide	NA	NA	NA	
MH 13-6	MP013_01262011	1/26/2011	Low Level Mercury, Metals*, VOCs, Cyanide	NA	NA	NA	
EQUIPMENT_BLANK	Equipment Blank_01262011	1/26/2011	Low Level Mercury, Metals*, VOCs, Cyanide	NA	NA	NA	
FIELD BLANK	Field Blank_01262011	1/26/2011	Low Level Mercury, Metals*, VOCs, Cyanide	NA	NA	NA	
MH 5-5	Duplicate_01262011	1/26/2011	Low Level Mercury, Metals*, VOCs, Cyanide	NA	NA	NA	
MH 5-6	MP005_Dry_Weather (1.27.11)	1/27/2011	PCB	NA	NA	NA	
MH 4-5	MP004_Dry_Weather (1.28.11)	1/28/2011	PCB	NA	NA	NA	
MH 2-19	MP002_02242011	2/24/2011	Low Level Total Mercury, Dissolved Mercury, Total Metals*, Dissolved Metals, TSS, VOCs, Cyanide	NA	3/21/2011	NA	
MH 3-3	MP003_02242011	2/24/2011	Low Level Total Mercury, Dissolved Mercury, Total Metals*, Dissolved Metals, TSS, VOCs, Cyanide	NA	3/21/2011	NA	
MH 5-6	MP005_02242011	2/24/2011	Low Level Total Mercury, Dissolved Mercury, Total Metals*, Dissolved Metals, TSS, VOCs, Cyanide	NA	3/21/2011	NA	
MH 6-2	MP006_02242011	2/24/2011	Low Level Total Mercury, Dissolved Mercury, Total Metals*, Dissolved Metals, TSS, VOCs, Cyanide	NA	3/21/2011	NA	
Outfall 007	MP007_02242011	2/24/2011	Low Level Total Mercury, Dissolved Mercury, Total Metals*, Dissolved Metals, TSS, VOCs, Cyanide	NA	3/21/2011	NA	
MH 11-7	MP009_02242011	2/24/2011	Low Level Total Mercury, Dissolved Mercury, Total Metals*, Dissolved Metals, TSS, VOCs, Cyanide	NA	3/21/2011	NA	
MH 10-5	MP010_02242011	2/24/2011	Low Level Total Mercury, Dissolved Mercury, Total Metals*, Dissolved Metals, TSS, VOCs, Cyanide	NA	3/21/2011	NA	
MH 10-5	Duplicate_02242011	2/24/2011	Low Level Total Mercury, Dissolved Mercury, Total Metals*, Dissolved Metals, TSS, VOCs, Cyanide	NA	3/21/2011	NA	
FIELD BLANK	Field Blank_02242011	2/24/2011	Low Level Total Mercury, Dissolved Mercury, Total Metals*, Dissolved Metals, TSS, VOCs, Cyanide	NA	3/21/2011	NA	
MH 1-3	MP-001_02242011	2/24/2011	Low Level Total Mercury, Dissolved Mercury, Total Metals*, Dissolved Metals, TSS, VOCs, Cyanide	NA	3/21/2011	NA	
EQUIPMENT_BLANK	Equipment Blank_02242011	2/24/2011	Low Level Total Mercury, Dissolved Mercury, Total Metals*, Dissolved Metals, TSS, VOCs, Cyanide	NA	3/21/2011	NA	
Outfall 011	MP011_02242011	2/24/2011	Low Level total Mercury, Total Metals*, TSS, VOCs, Cyanide	NA	3/21/2011	NA	
TRIP BLANK	Trip Blank_02242011	2/24/2011	VOCs	NA	3/21/2011	NA	
MH 5-6	Outfall 005 (02.26.11)	2/26/2011	PCB	NA	3/18/2011	NA	
MH 1-3	MP001_03242011	3/24/2011	Low Level Mercury, Metals*, VOCs, Cyanide, TSS	NA	NA	NA	
MH 2-19	MP002_03242011	3/24/2011	Low Level Mercury, Metals*, VOCs, Cyanide, TSS	NA	NA	NA	
MH 3-3	MP003_03242011	3/24/2011	Low Level Mercury, Metals*, VOCs, Cyanide, TSS	NA	NA	NA	
MH 5-6	MP005_03242011	3/24/2011	Low Level Mercury, Metals*, VOCs, Cyanide, TSS	NA	NA	NA	
MH 6-2	MP006_03242011	3/24/2011	Low Level Mercury, Metals*, VOCs, Cyanide, TSS	NA	NA	NA	
MH 11-7	MP009_03242011	3/24/2011	Low Level Mercury, Metals*, VOCs, Cyanide, TSS	NA	NA	NA	
MH 10-5	MP010_03242011	3/24/2011	Low Level Mercury, Metals*, VOCs, Cyanide, TSS	NA	NA	NA	
MH 2-19	Duplicate_03242011	3/24/2011	Low Level Mercury, Metals*, VOCs, Cyanide, TSS	NA	NA	NA	
FIELD BLANK	Field Blank_03242011	3/24/2011	Low Level Mercury, Metals*, VOCs, Cyanide, TSS	NA	NA	NA	
EQUIPMENT_BLANK	EB_03242011	3/24/2011	Low Level Mercury, Metals*, VOCs, Cyanide, TSS	NA	NA	NA	
TRIP BLANK	Trip Blank	3/24/2011	VOCs	NA	NA	NA	

ATTACHMENT 1

REVITALIZING AUTO COMMUNITIES ENVIRONMENTAL RESPONSE TRUST
 NAO FLINT OPERATIONS SITE (ALSO KNOWN AS BUICK CITY)
 SAMPLE REPORT

Matrix: Storm Sewer Water (NPDES Sampling)		Samples Collected Between 1.1.2011 to 3.31.2011				
Location-ID	Field Sample ID	Date Sampled	Analyses	Comments	Date EDD Received	Date Validated
MH 3-3	Outfall 003A (1.4.11)	1/4/2011	Total PCBs	NA	3/11/2011	NA
MH 3-3	Outfall 003A (1.11.11)	1/11/2011	Total PCBs	NA	3/11/2011	NA
MH 3-3	Outfall 003A (01.21.11)	1/21/2011	Total PCBs	NA	3/11/2011	NA
MH 3-3	Outfall 003A (01.26.11)	1/26/2011	Total PCBs	NA	3/11/2011	NA
MH 3-3	Outfall 003A (02.04.2011)	2/4/2011	Total PCBs	NA	3/11/2011	NA
MH 3-3	Outfall 003A (02.09.11)	2/9/2011	Total PCBs	NA	3/11/2011	NA
MH 3-3	Outfall 003A (02.15.11)	2/15/2011	Total PCBs	NA	3/11/2011	NA
MH 3-3	Outfall 003A (02.25.11)	2/25/2011	Total PCBs	NA	3/18/2011	NA
MH 3-3	Outfall 003A (03.04.11)	3/4/2011	Total PCBs	NA	NA	NA
MH 3-3	Outfall 003A (03.11.11)	3/11/2011	Total PCBs	NA	3/18/2011	NA
MH 3-3	Outfall 003A (03.16.11)	3/16/2011	Total PCBs	NA	NA	NA
MH 3-3	Outfall 003A (03.23.11)	3/23/2011	Total PCBs	NA	NA	NA

Notes:

- NA Not Available
- * Metals analyzed for include: Ag, As, Ba, Be, Cd, Co, Cr, Cu, Fe, Mn, Ni, Pb, Sb, Se, Ti, V, and Zn.
- VOCs Volatile Organic Compounds
- SVOCs Semi-Volatile Organic Compounds
- PCBs Polychlorinated Biphenyls
- TSS Total Suspended Solids
- F-Scan VOC USEPA Method 8260: Cyclohexanone, Ethyl Acetate
- F-Scan SVOCs USEPA Method 8270: Cresols, Cresylic Acid, Nitrobenzene, and Pyridine

Mr. Chris Black
U.S. Environmental Protection Agency – Region 5
Waste, Pesticides, and Toxics Division
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Subject:

Quarterly Progress Report No. 46
Revitalizing Auto Communities Environmental Response (RACER) Trust Buick City
Site (formerly GM NAO Flint Operations Site)
Flint, Michigan

ENVIRONMENT

Date:
July 15, 2011

Dear Mr. Black:

On behalf of Revitalizing Auto Communities Environmental Response (RACER) Trust, ARCADIS is submitting this Quarterly Progress Report in accordance with Section VI (4b) of the General Motors Corporation's Administrative Order on Consent (Consent Order) Number R8H-5-00-02 for its North American Operations (NAO) Flint Operations Site (also known as Buick City) in Flint, Michigan (the Site). This Quarterly Progress Report covers the period of April 1, 2011 through June 30, 2011.

Contact:
Christopher S. Peters,
P.G.
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810.225.1905
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[chris.peters@arcadis-us.c](mailto:chris.peters@arcadis-us.com)

The following briefly summarizes the work performed and data collected, problems encountered, project schedule, and percent project completed.

Our ref:
B0064410.2011 #5

Work Performed and Data Collected

Samples collected this quarter:

Attachment 1 provides sample locations, sampling dates, and associated analytes for each of the samples collected during this quarter.

Wipe Samples

On April 4, 2011, as part of the *Factory 36: Work Plan for Response Activities at the RCRA Waste Management Unit*, two wipe samples were collected from the floor and sump located in the Factory 36 RCRA WMU after unit decontamination was completed. The samples were submitted for PCB analysis.

Solid Samples

On April 4, 2011, as part of the *Factory 36: Work Plan for Response Activities at the RCRA Waste Management Unit*, a paint sample was taken from the floor of the Factory 36 RCRA WMU after unit decontamination was completed. The sample was submitted for PCB analysis.

On April 13, 2011 two soil samples were collected during well installation activities at AOI 09-B. The samples were submitted for analysis of TCLP lead and total lead to characterize the soils prior to beginning subsurface work in the area.

Storm Sewer Water Samples

In April, May, and June ARCADIS conducted the "NPDES Plus" Monitoring Program (NPMP) as described in the Corrective Measures Implementation (CMI) Work Plan. The NPMP consists of collecting monthly samples from the 11 Site storm sewers to monitor groundwater infiltrating into the Site storm sewers. The following 11 monitoring points were sampled as access allowed: MP001, MP002, MP003, MP004, MP005, MP006, MP007, MP009, MP010, MP011, and MP013. The samples were submitted for analysis of metals, TSS, VOCs, low level mercury, cyanide, and/or PCBs.

From April to June 2011, as required per Part 1, Section A 2 in the current NPDES Permit No. MI0001597, weekly composite samples were collected from Monitoring Point 003A. The samples were submitted to the laboratory for analysis of total PCBs.

Liquid Samples

On April 15, 2011 one groundwater sample was collected from MPE-09-11, an extraction well installed as part of the multi-phase extraction (MPE) LNAPL treatment system at AOI 09-B. The sample was submitted for analysis of VOCs.

Oil Sample

On May 6, 2011 an oil sample was collected from Oil Interceptor #2, which is associated with the Outfall 003 storm sewer system. Sample was analyzed for total PCBs.

Work performed this quarter is itemized below:

Task 1 Outfall 003/004 Oil Removal Systems

- Continued operations, maintenance, and monitoring (OMM) activities on the 003/004 system. Inspections are being performed 2-3 times per week during the system start-up period to ensure that the system is running properly and to determine if any system modifications are warranted to optimize system performance.
- Performed modification of 003/004 system by removing steel trash racks from influent HDPE piping inside water diversion vaults to improve system hydraulics.
- Performed Site restoration activities (grading and seeding) that was left incomplete in December 2010 due to inclement weather.

Task 2 LNAPL Investigation

- Began development of LIF Investigation Work Plan for 2011 scope of work.

Task 3 LNAPL Recovery Bench and Field-Scale Testing

- Collected LNAPL and groundwater samples from LNAPL Areas AOI 02-B; AOI 12-A, 12-B, and 12-C; and AOI, 40-A, 40-B, and 16-C for bench scale testing.
- Coordinated with bench-scale testing laboratories for analysis of LNAPL and groundwater samples.

Task 4 Operate Factory 10 LNAPL/GW System

- Continued system decommissioning and waste disposal coordination.

Task 5 Operate Factory 36 LNAPL/GW System

- Coordinated disposal of system waste.

Task 6 Maintain Booms on Outfalls

Activities previously performed under Task 6 are now covered under “General Compliance Tasks” shown below.

Task 7 Enhanced Groundwater Monitoring

- Coordinated the implementation of a Traffic Control Plan and associated City Permit for sampling in roadways.

Task 8 NPDES PLUS Monitoring

- Completed the monthly NPDES Plus Monitoring events for April, May, and June. Samples collected as part of this program are listed in Attachment 1.

Task 9 RCRA Closures, Well Abandonment, Restrictive Covenants, Resolve UST Issues

- Continued closure activities for the Factory 36 RCRA WMU.
- Coordinated future Factory 31 W MU closure activities with demolition contractor.
- Submitted the Northend Waste Management Unit (WMU) Work Plan to the MDEQ for approval on June 7, 2011.
- Submitted the Factory 36 WMU Certification of Closure report to the MDEQ on June 13, 2011.

- Submitted FOIA request for documentation associated with closure of open Leaking Underground Storage Tank (LUST) cases listed in the MDEQ website for the Site.

Task 10 Maintain Select Surface Covers

- Performed the quarterly inspection of surface cover areas in June 2011.
- Performed evaluation of surface cover options in regards to cost, effectiveness, and longevity of each cover options

Task 11 Lead Soil Removal

- Continued to coordinate with CSX to complete an access agreement needed to complete remediation activities.

Task 12 Agency Coordination/Negotiation, Reporting, Project Management

- Participated in regulatory agency calls and meetings.
- Submitted Quarterly Progress Report No. 45 to the EPA on April 15, 2011.
- Completed the 2010 CMI Annual Report and submitted to the EPA on April 29, 2011.

Task 13 Outfall 002/005 Oil Minimization & Investigation

- Continued inspections of booms placed in Outfall 002, 004, and 005 manholes.
- Performed quarterly inspections of the P-traps.

Task 14 Address 15 Areas of Subsurface LNAPL

- Continued with system design for AOI 09-B MPE system.
- Continued preparation of AOI 09-B MPE system design drawings.
- Coordinated air permitting for AOI 09-B system.
- Coordinated permit for water discharge of the AOI 09 -B system to the City of Flint sanitary sewer.

General Regulatory Compliance Tasks

- Conducted inspections of Outfalls 002, 003, 004, and 005.
- Completed inspections and weekly NPDES sampling at MP003A. Samples collected are listed in Attachment 1.
- Completed inspections of Oil Interceptor #2.

Problems Encountered

The trash racks installed at the diversion manholes for the Outfall 003/004 oil-water separator often were clogged with debris from upstream in the storm sewers, causing water to back up in the manholes and occasionally overflow the weirs. As discussed above the trash racks were removed to alleviate this problem.

Project Schedule – Near-Term Milestone Activities Anticipated During the Next Quarter

Task 1 Outfall 003/004 Oil Removal Systems

- Continue OMM inspections of system.

Task 2 LNAPL Investigation

- Complete LIF work plan for the LNAPL investigation in the Northend of the Site.
- Begin LIF investigation

Task 3 LNAPL Recovery Bench and Field-Scale Testing

- Complete bench-scale testing.
- Begin evaluation of bench-scale data and report preparation.

Task 4 Operate Factory 10 LNAPL/GW System

- Complete Factory 10 decommissioning activities.

Task 5 Operate Factory 36 LNAPL/GW System

- Complete Factory 36 decommissioning activities.

Task 7 Enhanced Groundwater Monitoring

- Complete monitoring well repair and replacements.
- Begin coordination of annual groundwater monitoring event.

Task 8 NPDES PLUS Monitoring

- Perform NPMP monitoring in July, August and September.
- Perform upgradient sampling in storm sewers.

Task 9 RCRA Closures, Well Abandonment, Restrictive Covenants, Resolve UST Issues

- Finalize and submit the closure work plan for Southend waste management to the MDEQ.
- Begin closure activities at the Northend WMUs, after receiving MDEQ approval of the work plan. The closure activities will need to be coordinated with Site demolition activities.
- Finalize and record restrictive covenants for the Southend of the Site.

Task 10 Maintain Select Surface Covers

- Perform quarterly inspection of surface cover.
- Select and install additional cover as required in the Southend of the Site.

Task 11 Lead Soil Removal

- Continue to pursue access agreement with CSX to enable soil removal to occur.
- Prepare the soil removal work plan and obtain bids to complete the work.
- Coordinate lead soil removal activities based on outcome of access agreement between CSX and RACER.

Task 12 Agency Coordination/Negotiation, Reporting, Project Management

- Continue to participate in regulatory agency calls.
- Prepare Quarterly Report for submittal to the EPA.

Task 13 Outfall 002/005 Oil Minimization & Investigation

- Continue inspections of booms placed in Outfall 002, 004 and 005 manholes.
- Continue quarterly P-trap inspections.

Task 14 Address 15 Areas of Subsurface LNAPL

- Complete full-scale MPE system design for AOI 09-B.
- Issue bid documents to contractors and select contractors to perform construction of AOI-9B LNAPL remediation system.
- Begin construction of the AOI-9B LNAPL remediation system.

- Finalize and submit the air permit application for AOI-9B to the MDEQ.
- Finalize and submit the permit application for discharge of effluent to sanitary sewer to the City of Flint.
- Prepare schedule for AOI 09-B system installation activities.

If you have any questions, please call me.

Sincerely,

ARCADIS



Christopher S. Peters, P.G.
Vice President

Copies:

Peter Quackenbush (Michigan Department of Environmental Quality)
William Yocum (Michigan Department of Environmental Quality)
Flint Public Library
Grant Trigger (RACER Trust)
Dave Favero (RACER Trust)

Attachments:

Attachment 1– Sample Summary

ATTACHMENT 1

REVITALIZING AUTO COMMUNITIES ENVIRONMENTAL RESPONSE TRUST
 BUICK CITY SITE (formerly known as GM NAO FLINT OPERATIONS SITE)
 SAMPLE SUMMARY FOR APRIL 1, 2011 TO JUNE 30, 2011

Matrix: Wipe Samples (Factory 36 - Waste Management Unit [WMU] #1)						
Location-ID	Field Sample ID	Date Sampled	Analyses	Comments	Date EDD Received	Date Validated
WMU#1	F36-Sump(040411)-WS	4/4/2011	Total PCBs	NA	4/27/2011	NA
WMU#1	F36-Floor(040411)-WS	4/4/2011	Total PCBs	NA	4/27/2011	NA
Matrix: Solid (Factory 36 - Waste Management Unit #1)						
Location-ID	Field Sample ID	Date Sampled	Analyses	Comments	Date EDD Received	Date Validated
WMU#1	F36-Paint(040411)-SD	4/4/2011	Total PCBs	NA	4/27/2011	NA
Matrix: Solid (AOI 09-B MPE System)						
Location-ID	Field Sample ID	Date Sampled	Analyses	Comments	Date EDD Received	Date Validated
MPE-12	MPE-12-AOI9B-04132011	4/13/2011	TCLP Lead, Total Lead	NA	NA	NA
MPE-14	MPE-14-AOI9B-04132011	4/13/2011	TCLP Lead, Total Lead	NA	NA	NA
Matrix: Storm Sewer Water (Monthly "NPDES Plus" Monitoring Program [NPMP] Sampling)						
Location-ID	Field Sample ID	Date Sampled	Analyses	Comments	Date EDD Received	Date Validated
MH 5-6	Outfall 005(042911)	4/29/2011	PCB	NA	5/17/2011	NA
MH 2-19	MP002_04292011	4/29/2011	Low Level Total Mercury, Dissolved Mercury, Total Metals*, Dissolved Metals, TSS, VOCs, Cyanide	NA	5/17/2011 & 6/14/11	NA
MH 2-19	MP002_04292011 MS	4/29/2011	Low Level Total Mercury, Dissolved Mercury, Total Metals*, Dissolved Metals, TSS, VOCs, Cyanide	NA	5/17/2011 & 6/14/11	NA
MH 2-19	MP002_04292011 MSD	4/29/2011	Low Level Total Mercury, Dissolved Mercury, Total Metals*, Dissolved Metals, TSS, VOCs, Cyanide	NA	5/17/2011 & 6/14/11	NA
MH 3-3	MP003_04292011	4/29/2011	Low Level Total Mercury, Dissolved Mercury, Total Metals*, Dissolved Metals, TSS, VOCs, Cyanide	NA	5/17/2011 & 6/14/11	NA
MH 5-6	MP005_04292011	4/29/2011	Low Level Total Mercury, Dissolved Mercury, Total Metals*, Dissolved Metals, TSS, Cyanide	NA	5/17/2011 & 6/14/11	NA
MH 6-2	MP006_04292011	4/29/2011	Low Level Total Mercury, Dissolved Mercury, Total Metals*, Dissolved Metals, TSS, VOCs, Cyanide	NA	5/17/2011 & 6/14/11	NA
Outfall 007	MP007_04292011	4/29/2011	Low Level Total Mercury, Dissolved Mercury, Total Metals*, Dissolved Metals, TSS, VOCs, Cyanide	NA	5/17/2011 & 6/14/11	NA
MH 10-5	MP010_04292011	4/29/2011	Low Level Total Mercury, Dissolved Mercury, Total Metals*, Dissolved Metals, TSS, VOCs, Cyanide	NA	5/17/2011 & 6/14/11	NA
MH 13-6	MP013_04292011	4/29/2011	Low Level Total Mercury, Dissolved Mercury, Total Metals*, Dissolved Metals, TSS, Cyanide	NA	5/17/2011 & 6/14/11	NA
MH 6-2	DUP-01_04292011	4/29/2011	Low Level Total Mercury, Dissolved Mercury, Total Metals*, Dissolved Metals, TSS, VOCs, Cyanide	NA	5/17/2011 & 6/14/11	NA
Field Blank	FB_04292011	4/29/2011	Low Level Total Mercury, Dissolved Mercury, Total Metals*, Dissolved Metals, TSS, VOCs, Cyanide	NA	5/17/2011 & 6/14/11	NA
Equipment Blank	EQB_04292011	4/29/2011	Low Level Total Mercury, Dissolved Mercury, Total Metals*, Dissolved Metals, TSS, VOCs, Cyanide	NA	5/17/2011 & 6/14/11	NA
MH 3-3	MP003_Dry_Weather (5-17-2011)	5/17/2011	PCB	NA	6/14/2011	NA
MH 5-6	Outfall 005(051811)	5/18/2011	PCB	NA	6/14/2011	NA
MH 1-3	MP001_05312011	5/31/2011	Low Level Total Mercury, Dissolved Mercury, Total Metals*, Dissolved Metals, TSS, VOCs, Cyanide	6/8/11: The lab was contacted due to the duplicate mercury analytical results having a Relative Percent Difference (RPD) of 73%, when compared to the parent sample (MP010_05312011), which was above the project upper control limit (35%). The ARCADIS QA/QC team was also contacted to discuss appropriate actions. The QA/QC team determined that the parent and duplicate mercury data should be qualified as estimated (J flag), and that the data would still be usable. 6/9/11: The lab provided additional QA/QC information on the samples and did not discover any QA/QC deficiencies for the samples.	6/16/2011	NA
MH 2-19	MP002_05312011	5/31/2011	Low Level Total Mercury, Dissolved Mercury, Total Metals*, Dissolved Metals, TSS, VOCs, Cyanide		6/16/2011	NA
MH 2-19	MP002_05312011 MS	5/31/2011	Low Level Total Mercury, Dissolved Mercury, Total Metals*, Dissolved Metals, TSS, VOCs, Cyanide		6/16/2011	NA
MH 2-19	MP002_05312011 MSD	5/31/2011	Low Level Total Mercury, Dissolved Mercury, Total Metals*, Dissolved Metals, TSS, VOCs, Cyanide		6/16/2011	NA
MH 3-3	MP003_05312011	5/31/2011	Low Level Total Mercury, Dissolved Mercury, Total Metals*, Dissolved Metals, TSS, VOCs, Cyanide		6/16/2011	NA
MH 5-6	MP005_05312011	5/31/2011	Low Level Total Mercury, Dissolved Mercury, Total Metals*, Dissolved Metals, TSS, Cyanide		6/16/2011	NA
MH 6-2	MP006_05312011	5/31/2011	Low Level Total Mercury, Dissolved Mercury, Total Metals*, Dissolved Metals, TSS, VOCs, Cyanide		6/16/2011	NA
Outfall 007	MP007_05312011	5/31/2011	Low Level Total Mercury, Dissolved Mercury, Total Metals*, Dissolved Metals, TSS, VOCs, Cyanide		6/16/2011	NA
MH 10-5	MP010_05312011	5/31/2011	Low Level Total Mercury, Dissolved Mercury, Total Metals*, Dissolved Metals, TSS, VOCs, Cyanide		6/16/2011	NA
MH 13-6	MP013_05312011	5/31/2011	Low Level Total Mercury, Dissolved Mercury, Total Metals*, Dissolved Metals, TSS, Cyanide		6/16/2011	NA
MH 10-5	DUP001_05312011	5/31/2011	Low Level Total Mercury, Dissolved Mercury, Total Metals*, Dissolved Metals, TSS, VOCs, Cyanide		6/16/2011	NA
Field Blank	FB_05312011	5/31/2011	Low Level Total Mercury, Dissolved Mercury, Total Metals*, Dissolved Metals, TSS, VOCs, Cyanide		6/16/2011	NA
Equipment Blank	EB_05312011	5/31/2011	Low Level Total Mercury, Dissolved Mercury, Total Metals*, Dissolved Metals, TSS, VOCs, Cyanide		6/16/2011	NA

ATTACHMENT 1

REVITALIZING AUTO COMMUNITIES ENVIRONMENTAL RESPONSE TRUST
 BUICK CITY SITE (formerly known as GM NAO FLINT OPERATIONS SITE)
 SAMPLE SUMMARY FOR APRIL 1, 2011 TO JUNE 30, 2011

Matrix: Storm Sewer Water (Monthly "NPDES Plus" Monitoring Program [NPMP] Sampling)						
Location-ID	Field Sample ID	Date Sampled	Analyses	Comments	Date EDD Received	Date Validated
MH 5-6	Outfall 005(062711)	6/27/2011	PCB	NA	NA	NA
MH 1-3	MP001_062711	6/27/2011	Low Level Total Mercury, Dissolved Mercury, Total Metals*, Dissolved Metals, TSS, VOCs, Cyanide	NA	NA	NA
MH 2-19	MP002_062711	6/27/2011	Low Level Total Mercury, Dissolved Mercury, Total Metals*, Dissolved Metals, TSS, VOCs, Cyanide	NA	NA	NA
MH 3-3	MP003_062711	6/27/2011	Low Level Total Mercury, Dissolved Mercury, Total Metals*, Dissolved Metals, TSS, VOCs, Cyanide	NA	NA	NA
MH 5-6	MP005_062711	6/27/2011	Low Level Total Mercury, Dissolved Mercury, Total Metals*, Dissolved Metals, TSS, Cyanide	NA	NA	NA
MH 6-2	MP006_062711	6/27/2011	Low Level Total Mercury, Dissolved Mercury, Total Metals*, Dissolved Metals, TSS, VOCs, Cyanide	NA	NA	NA
Outfall 007	MP007_062711	6/27/2011	Low Level Total Mercury, Dissolved Mercury, Total Metals*, Dissolved Metals, TSS, VOCs, Cyanide	NA	NA	NA
MH-11-7	MP009_062711	6/27/2011	Low Level Total Mercury, Dissolved Mercury, Total Metals*, Dissolved Metals, TSS, VOCs, Cyanide	NA	NA	NA
MH 10-5	MP010_062711	6/27/2011	Low Level Total Mercury, Dissolved Mercury, Total Metals*, Dissolved Metals, TSS, VOCs, Cyanide	NA	NA	NA
MH 10-5	MP010_062711 MS	6/27/2011	Low Level Total Mercury, Dissolved Mercury, Total Metals*, Dissolved Metals, TSS, VOCs, Cyanide	NA	NA	NA
MH 10-5	MP010_062711 MSD	6/27/2011	Low Level Total Mercury, Dissolved Mercury, Total Metals*, Dissolved Metals, TSS, VOCs, Cyanide	NA	NA	NA
MH 13-6	MP013_062711	6/27/2011	Low Level Total Mercury, Dissolved Mercury, Total Metals*, Dissolved Metals, TSS, Cyanide	NA	NA	NA
MH 10-5	DUP01_062711	6/27/2011	Low Level Total Mercury, Dissolved Mercury, Total Metals*, Dissolved Metals, TSS, VOCs, Cyanide	NA	NA	NA
Equipment Blank	Equip_Blank_062711	6/27/2011	Low Level Total Mercury, Dissolved Mercury, Total Metals*, Dissolved Metals, VOCs, Cyanide	NA	NA	NA
Field Blank	Field_Blank_062711	6/27/2011	Low Level Total Mercury, Dissolved Mercury, Total Metals*, Dissolved Metals, VOCs, Cyanide	NA	NA	NA
Matrix: Storm Sewer Water (NPDES Sampling)						
Location-ID	Field Sample ID	Date Sampled	Analyses	Comments	Date EDD Received	Date Validated
MH 3-3	Outfall 003A (040611)	4/6/2011	Total PCBs	NA	4/27/2011	NA
MH 3-3	Outfall 003A (041311)	4/13/2011	Total PCBs	NA	4/27/2011	NA
MH 3-3	Outfall 003A (042211)	4/22/2011	Total PCBs	NA	4/28/2011	NA
MH 3-3	Outfall 003A(042611)	4/26/2011	Total PCBs	NA	6/14/2011	NA
MH 3-3	Outfall 003A(050611)	5/6/2011	Total PCBs	NA	6/14/2011	NA
MH 3-3	Outfall 003A(051211)	5/12/2011	Total PCBs	NA	6/14/2011	NA
MH 3-3	Outfall 003A(051711)	5/17/2011	Total PCBs	NA	6/14/2011	NA
MH 3-3	Outfall 003A(052511)	5/25/2011	Total PCBs	NA	6/14/2011	NA
MH 3-3	Outfall 003A(060211)	6/2/2011	Total PCBs	NA	NA	NA
MH 3-3	Outfall 003A(060911)	6/9/2011	Total PCBs	NA	NA	NA
MH 3-3	Outfall 003A(061411)	6/14/2011	Total PCBs	NA	NA	NA
MH 3-3	Outfall 003A(062111)	6/21/2011	Total PCBs	NA	NA	NA
MH 3-3	Outfall 003A(062811)	6/28/2011	Total PCBs	NA	NA	NA
Matrix: Liquid (AOI 09-B Groundwater)						
Location-ID	Field Sample ID	Date Sampled	Analyses	Comments	Date EDD Received	Date Validated
MPE-12	MPE-12-AOI9B-04132011	4/13/2011	TCLP Lead, Total Lead	NA	NA	NA
Matrix: Oil (Oil Interceptor #2)						
Location-ID	Field Sample ID	Date Sampled	Analyses	Comments	Date EDD Received	Date Validated
Oil Interceptor # 2	BOB2-OIL-050611	5/6/2011	Total PCBs	NA	NA	NA

Notes:

- NA Not Available
- * Metals analyzed for include: Ag, As, Ba, Be, Cd, Co, Cr, Cu, Fe, Mn, Ni, Pb, Sb, Se, Ti, V, and Zn.
- VOCs Volatile Organic Compounds
- SVOCs Semi-Volatile Organic Compounds
- PCBs Polychlorinated Biphenyls
- TSS Total Suspended Solids

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Transmitted via Electronic Mail

Mr. Chris Black
U.S. Environmental Protection Agency – Region 5
Waste, Pesticides, and Toxics Division
77 W. Jackson Blvd. DE-97
Chicago, IL 60604-3590

ENVIRONMENT

Subject:
Quarterly Progress Report No. 1
Revitalizing Auto Communities Environmental Response (RACER) Trust
Buick City Site
Flint, Michigan

Date:
October 14, 2011

Contact:
Christopher S. Peters,
P.G.

Phone:
810.225.1905

Email:
[chris.peters@arcadis-us.c](mailto:chris.peters@arcadis-us.com)

Dear Mr. Black:

On behalf of Revitalizing Auto Communities Environmental Response (RACER) Trust, ARCADIS is submitting this Quarterly Progress Report No. 1 in accordance with Section VI (18b) of the RACER Trust's Administrative Order on Consent (Consent Order), Docket Number RCRA-05-2011-0024 for the Buick City Site located in Flint, Michigan (the Site), which was effective on September 29, 2011.

Our ref:
B0064410.2011 #5

Please note that in accordance with General Motors Corporation's Administrative Order on Consent Number R8H-5-00-02 for the North American Operations [NAO] Flint Operations Site (also known as Buick City) Quarterly Progress Reports No. 1 through 46 were submitted to the United States Environmental Protection Agency (EPA) documenting Site activities from January 1, 2000 through June 30, 2011.

This Quarterly Progress Report No. 1 covers the period of July 1, 2011 through September 30, 2011.

The following briefly summarizes the work performed and data collected, problems encountered, project schedule, and estimated percent complete for a list of activities.

1. Data Collected This Quarter

Attachment 1 provides sample locations, sampling dates, and associated analytes for each of the samples collected during this quarter. This data will be presented to the EPA in the 2011 Annual CMI Report, except as noted below.

1.1 Solid Samples

On September 12, 2011 sixteen soil samples were collected to further refine the vertical and horizontal extent of lead soil impacts identified at RFI -09-56. The samples were submitted for analysis of total lead.

1.2 Storm Sewer Water Samples

In July, August and September ARCADIS conducted the "NPDES Plus" Monitoring Program (NPMP) as described in the Corrective Measures Implementation (CMI) Work Plan. The NPMP consists of collecting monthly samples from the 11 Site storm sewers to monitor groundwater infiltrating into the Site storm sewers. The following 11 monitoring points were sampled as access allowed: MP001, MP002, MP003, MP004, MP005, MP006, MP007, MP009, MP010, MP011, and MP013. In addition during the August event samples were also collected from upgradient manholes MH 1-7, MH 3-51, MH 3-31, MH 4-21 and MH 13-14. The samples were submitted for analysis of metals, TSS, VOCs, low level mercury, cyanide, and/or PCBs.

From July to September 2011, as required per Part 1, Section A 2 in the current National Pollution Discharge Elimination System (NPDES) Permit No. MI0001597, weekly composite samples were collected from Monitoring Point 003A. The samples were submitted to the laboratory for analysis of total PCBs. This data will be included in the 2011 Yearly Pollutant Minimization Plan (PMP) for PCBs report, which will be submitted to the MDEQ as required in the NPDES permit.

1.3 Liquid Samples

On August 3, 2011 and September 21, 2011 samples were collected from the secondary containment at waste management units (WMU) # 4 and 5 to characterize the water for off Site disposal. This data will be included in WMU 4 and 5 Closure Report, which will be prepared and submitted to the MDEQ after the completion of closure activities.

August 31, 2011 groundwater was collected from AOI 09-B. In order to aid in the AOI 09-B system design for metals removal the groundwater was aerated and passed through a bag filter and samples of the water were submitted for laboratory analysis of select metals.

1.4 Oil Samples

On July 15, 2011 a sample was collected from the Outfall 003/004 BaySeparator to characterize the oil for disposal. The sample was submitted for PCB analysis.

On September 8, 2011 samples of the oil within the containment booms were collected from Outfalls 002, 003, and 005. The samples were submitted for PCB analysis. This data will be included in the 2011 Yearly PMP for PCBs report, which will be submitted to the MDEQ as required in the NPDES permit.

2. Work Performed This Quarter

2.1 Routine Work

Task 1 Outfall 003/004 Oil Removal Systems

- Continued operations, maintenance, and monitoring (OMM) activities on the 003/004 system. Inspections are being performed 2 times per week to ensure that the system is running properly and to determine if any system modifications are warranted to optimize system performance.
- Performed cleanout of HDPE piping connecting vaults 3-6/4-6 to the BaySeparator system. Task was performed using a jet vacuum system.
- Coordinated field activities including cleanout of the BaySeparator component of the 003/004 treatment system.

Task 7 Enhanced Groundwater Monitoring

- Prepared for October 2011 Annual Groundwater Monitoring event.

Task 8 NPDES PLUS Monitoring

- Completed the monthly NPDES Plus Monitoring events for July, August, and September. Samples collected as part of this program are listed in Attachment 1.

Task 10 Maintain Select Surface Covers

- Performed the quarterly inspection of surface cover areas in September 2011.

Task 11 Lead Soil Removal

- Continued to coordinate with CSX to complete an access agreement needed to complete remediation activities.

Task 12 Agency Coordination/Negotiation, Reporting, Project Management

- Participated in regulatory agency calls and meetings.
- Submitted Quarterly Progress Report No. 46 to the EPA on July 15, 2011.

Task 13 Outfall 002/005 Oil Minimization & Investigation

- Continued inspections of booms placed in Outfall 005.
- Performed quarterly inspections of the P-traps.

General Regulatory Compliance Tasks

- Conducted inspections of Outfalls 002, 003, 004, and 005.
- Completed inspections and weekly NPDES sampling at MP003A. Samples collected are listed in Attachment 1.
- Completed inspections of Oil Interceptor #2.

2.2 Non - Routine Work

Task 1 Outfall 003/004 Oil Removal Systems

- Performed Site restoration activities (grading and seeding) for a second time to ensure full vegetation growth in the area. Seeding/grading was originally performed in May 2011 but sufficient vegetation growth was not achieved.
- Coordinated field activities including installation of safety railings at the 3-6 and 4-6 vaults and replacement of the manhole at 4-6 with vault doors.

Task 2 LNAPL Investigation

- Developed/Finalized LIF Investigation Work Plan for 2011 scope of work.
- Coordinated LIF investigation field event for October 2011.
- Developed NSZD work plan and began coordinating field event for implementation of NSZD work plan.
- Began planning transmissivity testing for select monitoring wells at the Site.

Task 3 LNAPL Recovery Bench and Field-Scale Testing

- Coordinated with bench-scale testing and treatability laboratories for analysis of LNAPL and groundwater samples.

Task 4 Operate Factory 10 LNAPL/GW System

- Completed system decommissioning.
- Coordinated final disposal of system waste.

Task 5 Operate Factory 36 LNAPL/GW System

- Completed system decommissioning.
- Coordinated final disposal of system waste.

Task 7 Enhanced Groundwater Monitoring

- Evaluated offsite access agreements for October 2011 annual sampling event.
- Coordinated the repair/replacement of Site monitoring wells in preparation for October 2011 annual sampling event.

Task 9 RCRA Closures, Well Abandonment, Restrictive Covenants, Resolve UST Issues

- Received Closure from the MDEQ for the Factory 36 WMU #1.
- Coordinated field events to implement the closure work plan for WMU 4 and 5.
- Submitted Southend WMU Closure work plan to MDEQ for review.

- Reviewed results of FOIA request submitted to the MDEQ last quarter. Prepared letter to MDEQ requesting that open LUST issues be transferred to RCRA corrective action for closure.

Task 10 Maintain Select Surface Covers

- Continued evaluation of surface cover options in regards to cost, effectiveness, and longevity of each cover options

Task 11 Lead Soil Removal

- Development of scope of work for lead soil remedial activities at AOI-9A
- Coordinated and performed field activities associated with lead soil delineation at AOI 09-B (former AC spark plug property).

Task 13 Outfall 002/005 Oil Minimization & Investigation

- Conducted boom study at Outfalls 002 and 004.

Task 14 Address 15 Areas of Subsurface LNAPL

- Completed system design for AOI 09-B MPE system.
- Coordinated construction effort to install AOI 09-B system including the development of bid package and review of qualified installation contactors.
- Completed draft air permit for AOI 09-B system.
- Completed draft permit application for water discharge of the AOI 09-B system to the City of Flint sanitary sewer.
- Installed well seals at each MPE well associated with the AOI-09 system.
- Performed metal analysis testing for MPE wells associated with the AOI-09 system.

3. Problems Encountered

Hydro seeding of the construction area surrounding the Outfall 003/004 treatment system was performed last quarter but sufficient vegetation did not take due to lack in rainfall over the summer months. The area was hydro seeded again in September to establish a sufficient amount of vegetation.

4. Project Schedule – Near-Term Milestone Activities Anticipated During the Next Quarter

4.1 Routine Work

Task 1 Outfall 003/004 Oil Removal Systems

- Continue OMM inspections of system.
- Perform cleanout of Bay Separator component of the treatment system and dispose of waste associated with the cleanout.

Task 4 Operate Factory 10 LNAPL/GW System

- This task has been completed. No additional activities are planned.

Task 5 Operate Factory 36 LNAPL/GW System

- This task has been completed. No additional activities are planned.

Task 7 Enhanced Groundwater Monitoring

- Perform annual groundwater monitoring event in October 2011
- Begin evaluation of analytical data associated with the October 2011 sampling event

Task 8 NPDES PLUS Monitoring

- Perform NPMP monitoring in October, November and December.

Task 10 Maintain Select Surface Covers

- Perform quarterly inspection of surface cover.

Task 11 Lead Soil Removal

- Continue to pursue access agreement with CSX to enable soil removal to occur.

Task 12 Agency Coordination/Negotiation, Reporting, Project Management

- Continue to participate in regulatory agency calls.
- Prepare Quarterly Report for submittal to the EPA.

Task 13 Outfall 002/005 Oil Minimization & Investigation

- Continue inspections of booms placed in Outfall 005 manholes.
- Continue quarterly P-trap inspections.

4.2 Non-Routine Work

Task 1 Outfall 003/004 Oil Removal Systems

- Perform installation of aluminum vault hatch door at manhole 4-6 component of the treatment system. Perform installation of safety railings

Task 2 LNAPL Investigation

- Perform Sitewide LIF investigation beginning in October 2011.
- Begin Outfall 003 boom investigation to identify sources of LNAPL infiltration into network.
- Install monitoring points and perform first quarter of NSZD study.
- Perform first quarter of transmissivity testing.

Task 3 LNAPL Recovery Bench and Field-Scale Testing

- Complete bench-scale testing.
- Begin evaluation of bench-scale data and report preparation.

Task 7 Enhanced Groundwater Monitoring

- Complete monitoring well repair and replacements.

Task 8 NPDES PLUS Monitoring

- Evaluate NPMP data and make recommendations regarding future sampling.

Task 9 RCRA Closures, Well Abandonment, Restrictive Covenants, Resolve UST Issues

- Continue closure activities at the Northend WMUs
- Begin closure activities at the Southend WMUs
- Finalize and record restrictive covenants for the Southend of the Site.
- Coordinate with MDEQ to transfer open LUST issues to RCRA Corrective Action.

Task 10 Maintain Select Surface Covers

- Select and install additional cover as required in the Southend of the Site.

Task 13 Outfall 002/005 Oil Minimization & Investigation

- Complete boom study at Outfalls 002 and 004.
- Evaluate final measures for Outfall 002 system.

Task 14 Address 15 Areas of Subsurface LNAPL

- Prepare schedule for AOI 09-B system installation activities.
- Begin construction of the AOI-9B LNAPL remediation system.
- Finalize and submit the air permit application for AOI-9B to the MDEQ.
- Finalize and submit the permit application for discharge of effluent to sanitary sewer to the City of Flint.

5. Estimated Percent Complete

Task 1 Outfall 003/004 Oil Removal Systems

- Outfall 003/004 Oil Removal System Installation – 100%
- Outfall 003/004 Oil removal System OM&M - Ongoing

Task 2 LNAPL Investigation

- LNAPL LIF Investigations – 30%
- Natural Source Zone Depletion Study – 5%

- Transmissivity Testing – 5%

Task 3 LNAPL Recovery Bench and Field-Scale Testing

- LNAPL Bench Scale Testing – 65%
- LNAPL Pilot Scale Testing – 33%

Task 4 Operate Factory 10 LNAPL/GW System

- Operate Factory 10 LNAPL/GW System Operation – 100%

Task 5 Operate Factory 36 LNAPL/GW System

- Operate Factory 36 LNAPL/GW System Operation – 100%

Task 7 Enhanced Groundwater Monitoring

- Groundwater Monitoring – Ongoing

Task 8 NPDES PLUS Monitoring

- NPDES PLUS Monitoring – Ongoing

Task 9 RCRA Closures, Well Abandonment, Restrictive Covenants, Resolve UST Issues

- Northend RCRA WMU Closures – 25%
- Southend RCRA WMU Closures – 5%
- Northend Restrictive Covenant – 0%
- Southend Restrictive Covenant – 80%
- Monitoring Well Abandonments – 0%
- UST Issue Resolution – Pending MDEQ review and approval of transfer

Task 10 Maintain Select Surface Covers

- Maintain Select Surface Covers – Ongoing
- Installation of Additional Surface Cover – Southend – 5%

Task 11 Lead Soil Removal

- Lead Soil Removal – 5%

Task 12 Agency Coordination/Negotiation, Reporting, Project Management

- RFI Phase I Report - 100%
- RFI Phase II Report - 100%
- Human Health Exposure Control EI Report - 100%
- CA 750 Report - 100%
- Revised Corrective Measures Proposal (CMP), May 1, 2008 – 100%
- Revised CMP Addendum No. 1 – 100%
- Southend Corrective Measures Implementation (CMI) Work Plan– 100%
- Revised CMP Addendum No.2 – Northend and Sitewide Groundwater-100%
- Revised CMP Addendum No. 2-1 – Response to EPA Comments - 100%

Task 13 Outfall 002/005 Oil Minimization & Investigation

- Outfall 002 Evaluation - 55%
- Outfall 005 Evaluation – 65%
- Outfall 002 Final Measure Implementation– 0%
- Outfall 005 Final Measure Implementation – 0%

Task 14 Address 15 Areas of Subsurface LNAPL

- Address 15 Areas of LNAPL – 3%

Task 15 LNAPL Recovery OM&M Followed by Secondary LNAPL Remediation

- LNAPL Recovery OM&M – 0%
- Secondary LNAPL Remediation – 0%

If you have any questions, please call me.

Sincerely,
ARCADIS

A handwritten signature in black ink, appearing to read "Chris S. Peters".

Christopher S. Peters, P.G.
Vice President

Copies:

Peter Quackenbush, Michigan Department of Environmental Quality, (via email)
William Yocum, Michigan Department of Environmental Quality (via email)
Flint Public Library
Grant Trigger, RACER Trust (via email)
Dave Favero, RACER Trust (via email)

Attachments:

Attachment 1 – Sample Summary for July 1, 2011 to September 30, 2011

ATTACHMENT 1

REVITALIZING AUTO COMMUNITIES ENVIRONMENTAL RESPONSE TRUST
BUICK CITY SITE
SAMPLE SUMMARY FOR JULY 1, 2011 TO SEPTEMBER 30, 2011

Matrix: Liquid Samples (RCRA Water Samples - Waste Management Units [WMU] #4 and #5)						
Location-ID	Field Sample ID	Date Sampled	Analyses	Comments	Date EDD Received	Date Validated
WMU #4/5	RACER-WMU4&5-CotainW(080311)	8/3/2011	PCBs, TCLP metals, TCLP VOCs, TCLP SVOCs, RCI (Reacti	NA	NA	NA
WMU #4/5	WMU4&5-Containment Water (092111)	9/21/2011	VOCs, F-Scan VOCs, F-Scan SVOCs, method 8015 (Isobutanol, methanol, and n-butyl alcohol	NA	NA	NA
Matrix: Liquid Sample (Groundwater Sample collected from AOI 09-B for metals analysis)						
Location-ID	Field Sample ID	Date Sampled	Analyses	Comments	Date EDD Received	Date Validated
AOI - 9B	AOI 09-B-metals-pretreat(083111)	8/31/2011	T-Arsenic (method 200.8), T- Lead (method 200.8)	NA	NA	NA
AOI - 9B	AOI 09-B-metals-serate(083111)	8/31/2011	T-Arsenic (method 200.8), T- Lead (method 200.8)	NA	NA	NA
AOI - 9B	AOI 09-B-metals-treat(083111)	8/31/2011	T-Arsenic (method 200.8), T- Lead (method 200.8)	NA	NA	NA
Matrix: Oil (Outfall 003/004 Stormwater Treatment System - BaySeparator Oil)						
Location-ID	Field Sample ID	Date Sampled	Analyses	Comments	Date EDD Received	Date Validated
BaySeparator	003/004 Separator Oil (071511)	7/15/2011	Total PCBs	NA	NA	NA
Matrix: Soil (Samples surrounding RFI-09-56)						
Location-ID	Field Sample ID	Date Sampled	Analyses	Comments	Date EDD Received	Date Validated
RFI -09-56 Area	SB-09-68(0-2)	9/12/2011	Total Lead	NA	NA	NA
RFI -09-56 Area	SB-09-68(3-5)	9/12/2011	Total Lead	NA	NA	NA
RFI -09-56 Area	SB-09-56(0-2)	9/12/2011	Total Lead	NA	NA	NA
RFI -09-56 Area	SB-09-61(0-2)	9/12/2011	Total Lead	NA	NA	NA
RFI -09-56 Area	SB-09-62(0-2)	9/12/2011	Total Lead	NA	NA	NA
RFI -09-56 Area	SB-09-62(3-5)	9/12/2011	Total Lead	NA	NA	NA
RFI -09-56 Area	SB-09-63(0-2)	9/12/2011	Total Lead	NA	NA	NA
RFI -09-56 Area	SB-09-63(3-5)	9/12/2011	Total Lead	NA	NA	NA
RFI -09-56 Area	SB-09-64(0-2)	9/12/2011	Total Lead	NA	NA	NA
RFI -09-56 Area	SB-09-64(3-5)	9/12/2011	Total Lead	NA	NA	NA
RFI -09-56 Area	SB-09-65(0-2)	9/12/2011	Total Lead	NA	NA	NA
RFI -09-56 Area	SB-09-65(3-5)	9/12/2011	Total Lead	NA	NA	NA
RFI -09-56 Area	SB-09-66(0-2)	9/12/2011	Total Lead	NA	NA	NA
RFI -09-56 Area	SB-09-66(3-5)	9/12/2011	Total Lead	NA	NA	NA
RFI -09-56 Area	SB-09-67(0-2)	9/12/2011	Total Lead	NA	NA	NA
RFI -09-56 Area	SB-09-67(3-5)	9/12/2011	Total Lead	NA	NA	NA
Matrix: Storm Sewer Water (Monthly "NPDES Plus" Monitoring Program [NPMP] Sampling)						
Location-ID	Field Sample ID	Date Sampled	Analyses	Comments	Date EDD Received	Date Validated
MH 1-3	MP001_07142011	7/14/2011	Low Level Total Mercury, Total Metals*, TSS, VOCs, Cyanide	NA	NA	NA
MH 2-19	MP002_07142011	7/14/2011	Low Level Total Mercury, Total Metals*, TSS, VOCs, Cyanide	NA	NA	NA
MH 2-19	MP002_07142011 MS	7/14/2011	Low Level Total Mercury, Total Metals*, TSS, VOCs, Cyanide	NA	NA	NA
MH 2-19	MP002_07142011 MSD	7/14/2011	Low Level Total Mercury, Total Metals*, TSS, VOCs, Cyanide	NA	NA	NA
MH 3-3	MP003_07142011	7/14/2011	Low Level Total Mercury, Total Metals*, TSS, VOCs, Cyanide	NA	NA	NA
MH 5-6	MP005_07142011	7/14/2011	Low Level Total Mercury, Total Metals*, TSS, VOCs, Cyanide	NA	NA	NA
MH 6-2	MP006_07142011	7/14/2011	Low Level Total Mercury, Total Metals*, TSS, VOCs, Cyanide	NA	NA	NA
Outfall 007	MP007_07142011	7/14/2011	Low Level Total Mercury, Total Metals*, TSS, VOCs, Cyanide	NA	NA	NA
MH11-7	MP009_071411	7/14/2011	Low Level Total Mercury, Total Metals*, TSS, VOCs, Cyanide	NA	NA	NA
MH 10-5	MP010_07142011	7/14/2011	Low Level Total Mercury, Total Metals*, TSS, VOCs, Cyanide	NA	NA	NA
Outfall 011	MP011_07142011	7/14/2011	Low Level Total Mercury, Total Metals*, TSS, VOCs, Cyanide	NA	NA	NA
MH 13-6	MP013_07142011	7/14/2011	Low Level Total Mercury, Total Metals*, TSS, VOCs, Cyanide	NA	NA	NA
MH 10-5	Duplicate-01_07142011	7/14/2011	Low Level Total Mercury, Total Metals*, TSS, VOCs, Cyanide	NA	NA	NA
Equipment Blank	Equip_Blan1_07142011	7/14/2011	Low Level Total Mercury, Total Metals*, TSS, VOCs, Cyanide	NA	NA	NA
Equipment Blank	Equip_Blan2_07142011	7/14/2011	Low Level Total Mercury, Total Metals*, TSS, VOCs, Cyanide	NA	NA	NA
Trip Blank	Trip_Blank_07142011	7/14/2011	Low Level Total Mercury, Total Metals*, TSS, VOCs, Cyanide	NA	NA	NA
Field Blank	Field_Blank_07142011	7/14/2011	Low Level Total Mercury, Total Metals*, TSS, VOCs, Cyanide	NA	NA	NA
MH 5-6	Outfall 005(072211)	7/22/2011	PCB	NA	NA	NA
Equipment Blank	ISCO_Blan_07222011	7/22/2011	PCB	NA	NA	NA
MH 1-3	MP001_08152011	8/15/2011	Low Level Total Mercury, Total Metals*, TSS, VOCs, Cyanide	NA	NA	NA
MH 2-19	MP002_0815011	8/15/2011	Low Level Total Mercury, Total Metals*, TSS, VOCs, Cyanide	NA	NA	NA
MH 3-3	MP003_08152011	8/15/2011	Low Level Total Mercury, Total Metals*, TSS, VOCs, Cyanide	NA	NA	NA
MH 5-6	MP005_08152011	8/15/2011	Low Level Total Mercury, Total Metals*, TSS, VOCs, Cyanide	NA	NA	NA
MH 6-2	MP006_08152011	8/15/2011	Low Level Total Mercury, Total Metals*, TSS, VOCs, Cyanide	NA	NA	NA

ATTACHMENT 1

REVITALIZING AUTO COMMUNITIES ENVIRONMENTAL RESPONSE TRUST
BUICK CITY SITE
SAMPLE SUMMARY FOR JULY 1, 2011 TO SEPTEMBER 30, 2011

Matrix: Storm Sewer Water (Monthly "NPDES Plus" Monitoring Program [NPMP] Sampling)						
Location-ID	Field Sample ID	Date Sampled	Analyses	Comments	Date EDD Received	Date Validated
Outfall 007	MP007_08152011	8/15/2011	Low Level Total Mercury, Total Metals*, TSS, VOCs, Cyanide	NA	NA	NA
MH 11-7	MP009_08152011	8/15/2011	Low Level Total Mercury, Total Metals*, TSS, VOCs, Cyanide	NA	NA	NA
MH 11-7	MP009_08152011 MS	8/15/2011	Total Metals*, TSS, VOCs, Cyanide	NA	NA	NA
MH 11-7	MP009_08152011 MSD	8/15/2011	Total Metals*, TSS, VOCs, Cyanide	NA	NA	NA
MH 10-5	MP010_08152011	8/15/2011	Low Level Total Mercury, Total Metals*, TSS, VOCs, Cyanide	NA	NA	NA
MH 13-6	MP013_08152011	8/15/2011	Low Level Total Mercury, Total Metals*, TSS, VOCs, Cyanide	NA	NA	NA
MH 10-5	DUP001_08152011	8/15/2011	Total Metals*, TSS, VOCs, Cyanide	NA	NA	NA
Equipment Blank	Equip_Blank_08152011	8/15/2011	Low Level Total Mercury, Total Metals*, TSS, VOCs, Cyanide	NA	NA	NA
Trip Blank	Trip_Blank_08152011	8/15/2011	Low Level Total Mercury, Total Metals*, TSS, VOCs, Cyanide	NA	NA	NA
Field Blank	Field_Blank_08152011	8/15/2011	Low Level Total Mercury, Total Metals*, TSS, VOCs, Cyanide	NA	NA	NA
MH 1-7	MH-1-7-Outfall001(08152011)	8/15/2011	Low Level Total Mercury, Total Metals*, TSS, VOCs, Cyanide	NA	NA	NA
MH 3-51	MH-3-51-Outfall003 (08152011)	8/15/2011	Low Level Total Mercury, Total Metals*, TSS, VOCs, Cyanide	NA	NA	NA
MH 4-21	MH-4-21-Outfall004 (08152011)	8/15/2011	Low Level Total Mercury, Total Metals*, TSS, VOCs, Cyanide	NA	NA	NA
MH 13-14	MH-13-14-Outfall0013 (08152011)	8/15/2011	Low Level Total Mercury, Total Metals*, TSS, VOCs, Cyanide	NA	NA	NA
MH 3-31	MH-3-31-Outfall003 (08152011)	8/15/2011	Low Level Total Mercury, Total Metals*, TSS, VOCs, Cyanide	NA	NA	NA
Equipment Blank	ISCO_Blank_08172011	8/17/2011	PCB	NA	NA	NA
MH 5-6	Outfall_005_08182011	8/18/2011	PCB	NA	NA	NA
Equipment Blank	ISCO_Blank_08182011	8/18/2011	PCB	NA	NA	NA
MH 1-3	MP001_0914011	9/14/2011	Low Level Total Mercury, Total Metals*, TSS, VOCs, Cyanide	NA	NA	NA
MH 2-19	MP002_0914011	9/14/2011	Low Level Total Mercury, Total Metals*, TSS, VOCs, Cyanide	NA	NA	NA
MH 3-3	MP003_09142011	9/14/2011	Low Level Total Mercury, Total Metals*, TSS, VOCs, Cyanide	NA	NA	NA
MH 5-6	MP005_09142011	9/14/2011	Low Level Total Mercury, Total Metals*, TSS, VOCs, Cyanide	NA	NA	NA
MH 6-2	MP006_09142011	9/14/2011	Low Level Total Mercury, Total Metals*, TSS, VOCs, Cyanide	NA	NA	NA
MH 11-7	MP009_09142011	9/14/2011	Low Level Total Mercury, Total Metals*, TSS, VOCs, Cyanide	NA	NA	NA
MH 10-5	MP010_09142011	9/14/2011	Low Level Total Mercury, Total Metals*, TSS, VOCs, Cyanide	NA	NA	NA
MH 10-5	MP010_09142011 MS	9/14/2011	Low Level Total Mercury, Total Metals*, TSS, VOCs, Cyanide	NA	NA	NA
MH 10-5	MP010_09142011 MSD	9/14/2011	Low Level Total Mercury, Total Metals*, TSS, VOCs, Cyanide	NA	NA	NA
Outfall 011	MP011_09142011	9/14/2011	Low Level Total Mercury, Total Metals*, TSS, VOCs, Cyanide	NA	NA	NA
MH 13-6	MP013_09142011	9/14/2011	Low Level Total Mercury, Total Metals*, TSS, VOCs, Cyanide	NA	NA	NA
MH 10-5	DUP001_09142011	9/14/2011	Total Metals*, TSS, VOCs, Cyanide	NA	NA	NA
Equipment Blank	Equip_Blank_09142011	9/14/2011	Low Level Total Mercury, Total Metals*, TSS, VOCs, Cyanide	NA	NA	NA
Trip Blank	Trip_Blank_09142011	9/14/2011	Low Level Total Mercury, Total Metals*, TSS, VOCs, Cyanide	NA	NA	NA
Field Blank	Field_Blank_09142011	9/14/2011	Low Level Total Mercury, Total Metals*, TSS, VOCs, Cyanide	NA	NA	NA
Equipment Blank	ISCO_Blank_09142011	9/14/2011	PCB	NA	NA	NA
MH 5-6	Outfall_005_09142011	9/14/2011	PCB	NA	NA	NA
Matrix: Storm Sewer Water (NPDES Sampling)						
Location-ID	Field Sample ID	Date Sampled	Analyses	Comments	Date EDD Received	Date Validated
MH 3-3	Outfall_003A (070611)	7/6/2011	Total PCBs	NA	NA	NA
MH 3-3	Outfall_003A (071311)	7/13/2011	Total PCBs	NA	NA	NA
Equipment Blank	ISCO_Blank_07132011	7/22/2011	Total PCBs	NA	NA	NA
MH 3-3	Outfall_003A (072411)	7/24/2011	Total PCBs	NA	NA	NA
MH 3-3	Outfall_003A(072611)	7/26/2011	Total PCBs	NA	NA	NA
MH 3-3	Outfall_003A(080211)	8/2/2011	Total PCBs	NA	NA	NA
MH 3-3	Outfall_003A(081211)	8/12/2011	Total PCBs	NA	NA	NA
MH 3-3	Outfall_003A(081611)	8/16/2011	Total PCBs	NA	NA	NA
MH 3-3	Outfall_003A(082611)	8/26/2011	Total PCBs	NA	NA	NA
MH 3-3	Outfall_003A(083111)	8/31/2011	Total PCBs	NA	NA	NA
MH 3-3	Outfall_003A(090711)	9/7/2011	Total PCBs	NA	NA	NA
MH 3-3	Outfall_003A(091311)	9/13/2011	Total PCBs	NA	NA	NA
Equipment Blank	ISCO Blank (09132011)	9/13/2011	Total PCBs	NA	NA	NA

Notes:

- NA Not Available
- * Metals analyzed for include: Ag, As, Ba, Be, Cd, Co, Cr, Cu, Fe, Mn, Ni, Pb, Sb, Se, Ti, V, and Zn.
- VOCs Volatile Organic Compounds
- SVOCs Semi-Volatile Organic Compounds
- PCBs Polychlorinated Biphenyls
- TSS Total Suspended Solids
- RCl Reactivity, Corrosivity, Ignitability

Transmitted via Electronic Mail

Mr. Chris Black
U.S. Environmental Protection Agency – Region 5
Land and Chemicals Division
77 W. Jackson Blvd. DE-97
Chicago, IL 60604-3590

Subject:

Quarterly Progress Report No. 2
Revitalizing Auto Communities Environmental Response (RACER) Trust
Buick City Site, Flint, Michigan

Dear Mr. Black:

On behalf of Revitalizing Auto Communities Environmental Response (RACER) Trust, ARCADIS is submitting this Quarterly Progress Report No. 2 in accordance with Section VI (18b) of the RACER Trust's Administrative Order on Consent (Consent Order), Docket Number RCRA-05-2011-0024 for the Buick City Site located in Flint, Michigan (the Site), which was effective on September 29, 2011.

Please note that in accordance with General Motors Corporation's Administrative Order on Consent Number R8H-5-00-02 for the North American Operations [NAO] Flint Operations Site (also known as Buick City) Quarterly Progress Reports No. 1 through 46 were submitted to the United States Environmental Protection Agency (EPA) documenting Site activities from January 1, 2000 through June 30, 2011.

This Quarterly Progress Report No. 2 covers the period of October 1, 2011 through December 31, 2011.

The following briefly summarizes the work performed and data collected, problems encountered, project schedule, and estimated percent complete for a list of activities.

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ENVIRONMENT

Date:

January 13, 2011

Contact:

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P.G.

Phone:

810.225.1905

Email:

[chris.peters@arcadis-us.c](mailto:chris.peters@arcadis-us.com)

Our ref:

B0064410.2011 #5

1. Data Collected This Quarter

Attachment 1 provides sample locations, sampling dates, and associated analytes for each of the samples collected during this quarter. This data will be presented to the EPA in the 2011 Annual CMI Report, except as noted below.

1.1 Solid Samples

On October 7, 2011 various waste characterization solid samples were taken from waste management units (WMU's) #4 and #5. These solids were containerized and sampled as part of the WMU cleaning process. Samples were submitted for analysis of select volatile organic compounds (VOCs), F-scan VOCs, alcohols, F-scan semi-volatile compounds (SVOCs), reactivity, toxicity characteristic leaching procedure (TCLP) VOCs, TCLP SVOCs, TCLP Metals, and polychlorinated biphenyls (PCBs).

On December 7, 2011 a composite concrete sample was taken from vault 4-6 ceiling of the 003/004 storm water treatment system while installing an aluminum hatch door. The ceiling was cut out of the vault thus creating a slab of concrete. The sample was submitted for analysis of select metals, VOCs, SVOCs, and PCBs to characterize the slab for use as potential fill for Site demolition activities.

On December 15, 2011 soil samples were taken from WMU #4 and #5 to characterize the soil. These soil samples were submitted for analysis of F-Scan VOCs, F-Scan SVOCs, 1,1,2 Trichloroethane, 1,2,2, Trichloroethane, Dichlorofluoromethane, Total Solids, and Methanol. All waste generated from soil boring activities was analyzed for TCLP VOCs, TCLP SVOCs, TCLP metals, PCBs, and total solids.

On December 15, 2011 a soil boring sample was taken from WMU #6 to characterize the soil. A soil sample was submitted for TCL VOCs, TCL SVOCs, and total solids.

Solid sample data for WMUs activities will be included in a Closure Report, which will be prepared and submitted to the MDEQ after the completion of closure activities.

1.2 Storm Sewer Water Samples

In October, November and December ARCADIS conducted the “NPDES Plus” Monitoring Program (NPMP) as described in the Corrective Measures Implementation (CMI) Work Plan. The NPMP consists of collecting monthly samples from the 11 Site storm sewers to monitor groundwater infiltrating into the Site storm sewers. The following 11 monitoring points were sampled as access allowed: MP001, MP002, MP003, MP004, MP005, MP006, MP007, MP009, MP010, MP011, and MP013. In addition during the August event samples were also collected from upgradient manholes MH 1-7, MH 3-51, MH 3-31, MH 4-21 and MH 13-14. The samples were submitted for analysis of metals, TSS, VOCs, low level mercury, cyanide, and/or PCBs.

From October to December 2011, as required per Part 1, Section A 2 in the current National Pollution Discharge Elimination System (NPDES) Permit No. MI0001597, weekly composite samples were collected from Monitoring Point 003A. The samples were submitted to the laboratory for analysis of total PCBs. This data will be included in the 2011 Yearly Pollutant Minimization Plan (PMP) for PCBs report, which will be submitted to the MDEQ as required in the NPDES permit.

In December 2011, as required per Part 1, Section A 7 in the current National Pollution Discharge Elimination System (NPDES) Permit No. MI0001597, yearly trend monitoring samples were collected from Outfalls 003, 010, 011, and 012. Outfall 003 was submitted for analysis of PCBs, Outfall 010 for total mercury, Outfall 011 for total copper, and Outfall 012 for total copper. Outfall 008 sample location was not collected due to a permanent sewer bulkhead installed upstream of the outfall.

1.3 Liquid Samples

On October 7, 2011, liquid waste characterization samples were taken from WMUs #4 and #5 to characterize rinse water and decontamination water generated from the cleaning of various tanks and secondary containments associated with each WMU. Samples were submitted for analysis of select VOCs, F-Scan VOCs, alcohols, F-Scan SVOCs, and reactivity, TCLP VOCs, TCLP SVOCs, TCLP metals, and PCBs. Liquid sample data for WMU activities will be included in a Closure Report, which will be prepared and submitted to the MDEQ after the completion of closure activities.

On October 20, 2011 through October 28, 2011, groundwater samples were collected as part of the annual Site groundwater sampling event. Samples were submitted for analysis of VOCs, total metals, cyanide, PCBs, and/or inorganics.

2. Work Performed This Quarter

2.1 Routine Work

Task 1 Outfall 003/004 Oil Removal Systems

- Continued operations, maintenance, and monitoring (OMM) activities on the 003/004 system. Inspections are being performed 2 times per week to ensure that the system is running properly and to determine if any system modifications are warranted to optimize system performance.
- Performed cleanout of the BaySeparator component of the 003/004 treatment system and shipped associated waste (oil/solids) offsite for disposal.

Task 7 Enhanced Groundwater Monitoring

- Performed October 2011 Annual Groundwater Monitoring event.
- Began compiling and analyzing data associated with the October 2011 sampling event.

Task 8 NPDES PLUS Monitoring

- Completed the monthly NPDES Plus Monitoring events for October, November, and December. Samples collected as part of this program are listed in Attachment 1.

Task 10 Maintain Select Surface Covers

- Performed the quarterly inspection of surface cover areas in December 2011.

Task 11 Lead Soil Removal

- Continued to coordinate with CSX to complete an access agreement needed to complete remediation activities.

Task 12 Agency Coordination/Negotiation, Reporting, Project Management

- Participated in regulatory agency calls and meetings.
- Submitted RACER Quarterly Progress Report No. 1 to the EPA on October 14, 2011.

Task 13 Outfall 002/005 Oil Minimization & Investigation

- Continued inspections of booms placed in Outfall 005.
- Performed quarterly inspections of the P-traps.

General Regulatory Compliance Tasks

- Conducted inspections of Outfalls 002, 003, 004, and 005.
- Completed inspections and weekly NPDES sampling at MP003A. Samples collected are listed in Attachment 1.
- Completed inspections of Oil Interceptor #2.

2.2 Non - Routine Work

Task 1 Outfall 003/004 Oil Removal Systems

- Performed stabilization of roadway near the 003/004 system in order to fulfill the requirements of the soil erosion and sedimentation control permit issued by the county.
- Installed an aluminum hatch door and safety railing at vault 4-6 at the south end of the 003/004 treatment system to improve safety during routine system maintenance inspections. Safety railing was also installed at vault 3-6 in the north end of the system.

Task 2 LNAPL Investigation

- Coordinated and performed LIF investigation field event in October/November 2011. Reviewed results of LIF investigation and began development of LIF investigation report.
- Coordinated and began outfall 003 boom study investigation starting at manholes upstream of the Site.
- Began installing sampling ports for NSZD field work in December 2011.

- Coordinated and performed first quarter of transmissivity testing at select monitoring wells.

Task 3 LNAPL Recovery Bench and Field-Scale Testing

- Continued coordination with bench-scale testing and treatability laboratories for analysis of LNAPL and groundwater samples.
- Performed injectability testing on select monitoring wells.

Task 7 Enhanced Groundwater Monitoring

- Performed annual groundwater sampling event in October 2011.
- Coordinated disposal of purge water generated from October 2011 sampling event.
- Began evaluating groundwater data from October 2011 sampling event and development of groundwater report.

Task 9 RCRA Closures, Well Abandonment, Restrictive Covenants, Resolve UST Issues

- Southend WMU Closure work plan was approved by MDEQ.
- Coordinated field events to implement the closure work plan for Northend WMUs (WMU #2, WMU #4, WMU #5, and WMU #6).
- Attempted to locate 3 monitoring wells in Factory 10 basement to perform well abandonment activities.

Task 10 Maintain Select Surface Covers

- Continued evaluation of surface cover options in regards to cost, effectiveness, and longevity of each cover options.

Task 11 Lead Soil Removal

- Continued development of scope of work for lead soil remedial activities at AOI-9A.
- Reviewed/Validated laboratory analytical results associated with lead soil delineation at AOI 09-B (former AC spark plug property). Prepared draft summary memo to describe findings of the soil delineation.

Task 13 Outfall 002/005 Oil Minimization & Investigation

- Conducted boom study at Outfalls 002 and 004.

Task 14 Address 15 Areas of Subsurface LNAPL

- Coordinated construction effort to install AOI 09-B system including the selection of the lowest bidding contractor and negotiated with the contractor to implement construction.
- Completed air permit application for AOI 09-B system and submitted to MDEQ for approval.
- Completed sanitary sewer discharge permit application for water discharge of the AOI 09-B system and submitted to the City of Flint for approval.

3. Problems Encountered

Hydro seeding of the construction area surrounding the Outfall 003/004 treatment system was performed in Spring 2011 but sufficient vegetation did not take due to lack in rainfall over the summer months. The area was hydro seeded again in September to establish a sufficient amount of vegetation. Sufficient vegetation growth was observed in November 2011. After the stabilization of roadway in the construction area in December 2011, a written letter was issued by the Genesee County Drain Commission stating that the erosion and sedimentation control permit governing the construction area was released

On December 19, 2011, well abandonment activities were attempted in the basement of Factory 10 on the Northend of the Site. A project team inspected the areas where the wells were believed to be located but was unsuccessful in locating the wells due to two feet of turbid, standing water present in the basement.

4. Project Schedule – Near-Term Milestone Activities Anticipated During the Next Quarter

4.1 Routine Work

Task 1 Outfall 003/004 Oil Removal Systems

- Continue OMM inspections of system.

Task 7 Enhanced Groundwater Monitoring

- Continue evaluation of analytical data associated with the October 2011 sampling event. Prepare report for October 2011 sampling event.

Task 8 NPDES PLUS Monitoring

- Perform NPMP monitoring in January, February, and March.

Task 10 Maintain Select Surface Covers

- Perform quarterly inspection of surface cover.

Task 11 Lead Soil Removal

- Continue to pursue access agreement with CSX to enable soil removal to occur.

Task 12 Agency Coordination/Negotiation, Reporting, Project Management

- Continue to participate in regulatory agency calls.
- Prepare Quarterly Report for submittal to EPA.
- Prepare 2010 Annual CMI Report for submittal to EPA.

Task 13 Outfall 002/005 Oil Minimization & Investigation

- Continue inspections of booms placed in Outfall 005 manholes.
- Continue quarterly P-trap inspections.

4.2 Non-Routine Work

Task 2 LNAPL Investigation

- Continue Outfall 003 boom investigation to identify sources of LNAPL infiltration into network.
- Install NSZD monitoring points and perform first quarter of study.
- Perform second quarter of transmissivity testing.

Task 3 LNAPL Recovery Bench and Field-Scale Testing

- Complete bench-scale testing.

- Evaluate bench-scale data and prepare report.
- Select technologies and locations for pilot testing.

Task 8 NPDES PLUS Monitoring

- Evaluate NPMP data and make recommendations regarding future sampling.

Task 9 RCRA Closures, Well Abandonment, Restrictive Covenants, Resolve UST Issues

- Continue closure activities at the Northend WMUs.
- Begin closure activities at the Southend WMUs.
- Finalize and record restrictive covenants for the Southend of the Site.
- Coordinate with MDEQ to transfer open LUST issues to RCRA Corrective Action.

Task 10 Maintain Select Surface Covers

- Select and install additional cover as required in the Southend of the Site.

Task 13 Outfall 002/005 Oil Minimization & Investigation

- Complete boom study at Outfalls 002 and 004.
- Evaluate final measures for Outfall 002 system.

Task 14 Address 15 Areas of Subsurface LNAPL

- Complete construction and installation of AOI 09-B LNAPL remediation system.
- Begin startup and shakedown of AOI-9B LNAPL remediation system.

5. Estimated Percent Complete

Task 1 Outfall 003/004 Oil Removal Systems

- Outfall 003/004 Oil removal System OM&M - Ongoing

Task 2 LNAPL Investigation

- LNAPL LIF Investigations – 50%
- Outfall 003 boom study – 5%
- Natural Source Zone Depletion Study – 5%
- Transmissivity Testing – 5%

Task 3 LNAPL Recovery Bench and Field-Scale Testing

- LNAPL Bench Scale Testing – 90%
- LNAPL Pilot Scale Testing – 33%

Task 7 Enhanced Groundwater Monitoring

- Groundwater Monitoring – Ongoing

Task 8 NPDES PLUS Monitoring

- NPDES PLUS Monitoring – Ongoing

Task 9 RCRA Closures, Well Abandonment, Restrictive Covenants, Resolve UST Issues

- Northend RCRA WMU Closures – 50%
- Southend RCRA WMU Closures – 5%
- Northend Restrictive Covenant – 0%
- Southend Restrictive Covenant – 80%
- Monitoring Well Abandonments – 0%
- UST Issue Resolution – Pending MDEQ review and approval of transfer to RCRA Corrective Action process

Task 10 Maintain Select Surface Covers

- Maintain Select Surface Covers – Ongoing
- Installation of Additional Surface Cover – Southend – 5%

Task 11 Lead Soil Removal

- Lead Soil Removal – 5%

Task 12 Agency Coordination/Negotiation, Reporting, Project Management

- RFI Phase I Report - 100%
- RFI Phase II Report - 100%
- Human Health Exposure Control EI Report - 100%
- CA 750 Report - 100%
- Revised Corrective Measures Proposal (CMP), May 1, 2008 – 100%
- Revised CMP Addendum No. 1 – 100%
- Southend Corrective Measures Implementation (CMI) Work Plan – 100%
- Revised CMP Addendum No. 2 – Northend and Sitewide Groundwater - 100%
- Revised CMP Addendum No. 2-1 – Response to EPA Comments - 100%

Task 13 Outfall 002/005 Oil Minimization & Investigation

- Outfall 002 Evaluation - 55%
- Outfall 005 Evaluation – 65%
- Outfall 002 Final Measure Implementation– 0%
- Outfall 005 Final Measure Implementation – 0%

Task 14 Address 15 Areas of Subsurface LNAPL

- Address 15 Areas of LNAPL – 3%
 - AOI 09-B System Design – 100%
 - AOI 09-B Permitting – 85%
 - AOI 09-B System Construction – 20%

Task 15 LNAPL Recovery OM&M Followed by Secondary LNAPL Remediation

- LNAPL Recovery OM&M – 0%
- Secondary LNAPL Remediation – 0%

If you have any questions, please call me.

Sincerely,
ARCADIS



Christopher S. Peters, P.G.
Vice President

Copies:

Peter Quackenbush, Michigan Department of Environmental Quality, (via email)
William Yocum, Michigan Department of Environmental Quality (via email)
Flint Public Library
Grant Trigger, RACER Trust (via email)
Dave Favero, RACER Trust (via email)

Attachments:

Attachment 1 – Sample Summary for October 1, 2011 to December 31, 2011

ATTACHMENT 1

REVITALIZING AUTO COMMUNITIES ENVIRONMENTAL RESPONSE TRUST
BUICK CITY SITE
SAMPLE SUMMARY FOR October 1, 2011 TO December 31, 2011

Matrix: Solid Sample (Concrete sample taken from concrete slab removed from 003/004 treatment system vault)					
Location-ID	Field Sample ID	Date Sampled	Analyses	Date EDD Received	Date Validated
Vault 4-6	4-6 Valut Concrete	12/7/2011	Total MI 10 metals, PCBs, VOCs, SVOCs	NA	NA
Matrix: Liquid Sample (groundwater samples taken from annual sampling event)					
Location-ID	Field Sample ID	Date Sampled	Analyses	Date EDD Received	Date Validated
RFI-09-04R	RFI-09-04R (10-20-11)	10/20/2011	VOCs	11/15/2011	12/2/2011
20-500R 20-500R	(10-20-11)	10/20/2011	VOCs	11/15/2011	12/2/2011
04-3	04-3 (10-21-11)	10/21/2011	Cyanide	11/15/2011	12/2/2011
RFI-44-05	RFI-44-05 (10-21-11)	10/21/2011	Cyanide	11/15/2011	12/2/2011
04-4	04-4 (10-21-11)	10/21/2011	Cyanide	11/15/2011	12/2/2011
RFI-84-09S RFI-84-09S	(10-21-11)	10/21/2011	VOCs	11/15/2011	12/2/2011
RFI-17-02D	RFI-17-02D (10-21-11)	10/21/2011	VOCs, Total Metals	11/15/2011	12/2/2011
RFI-84-09D RFI-84-09D	(10-21-11)	10/21/2011	VOCs	11/15/2011	12/2/2011
RFI-17-02	RFI-17-02 (10-21-11)	10/21/2011	VOCs, Total Metals	11/15/2011	12/2/2011
RFI-84-12	RFI-84-12 (10-21-11)	10/21/2011	VOCs, Total Metals	11/15/2011	12/2/2011
RFI-84-06R	RFI-84-06R (10-21-11)	10/21/2011	Total Metals, Cyanide	11/15/2011	12/2/2011
RFI-84-11S RFI-84-11S	(10-21-11)	10/21/2011	VOCs	11/15/2011	12/2/2011
RFI-84-06RD	RFI-84-06RD (10-21-11)	10/21/2011	Cyanide	11/15/2011	12/2/2011
RFI-86-16R RFI-86-16R	(10-24-11)	10/24/2011	VOCs	11/15/2011	12/2/2011
07-01	07-01 (10-24-11)	10/24/2011	VOCs	11/15/2011	12/2/2011
RFI-81-51 RFI-81-51	(10-24-11)	10/24/2011	VOCs	11/15/2011	12/2/2011
70-165 70-165	(10-24-11)	10/24/2011	VOCs	11/15/2011	12/2/2011
20-FP10R 20-FP10R	(10-24-11)	10/24/2011	VOCs	11/15/2011	12/2/2011
RFI-81-50	RFI-81-50 (10-24-11)	10/24/2011	Total Metals	11/15/2011	12/2/2011
RFI-10-26 RFI-10-26	(10-24-11)	10/24/2011	VOCs	11/15/2011	12/2/2011
RFI-10-29 RFI-10-29	(10-24-11)	10/24/2011	VOCs	11/15/2011	12/2/2011
RFI-10-33	RFI-10-33 (10-24-11)	10/24/2011	VOCs	11/15/2011	12/2/2011
RFI-10-24 RFI-10-24	(10-24-11)	10/24/2011	VOCs	11/15/2011	12/2/2011
RFI-10-35 RFI-10-35	(10-24-11)	10/24/2011	VOCs	11/15/2011	12/2/2011
RFI-36-56 RFI-36-56	(10-24-11)	10/24/2011	VOCs	11/15/2011	12/2/2011
Trip Blank	Trip Blank (10-24-11)	10/24/2011	VOCs	11/15/2011	12/2/2011
RFI-09-46 RFI-09-46	(10-25-11)	10/25/2011	VOCs	11/15/2011	12/2/2011
RFI-09-48	DUP-01 (10-25-11)	10/25/2011	VOCs, Cyanide	11/15/2011	12/2/2011
RFI-09-48	RFI-09-48 (10-25-11)	10/25/2011	VOCs, Cyanide	11/15/2011	12/2/2011
RFI-36-19 RFI-36-19	(10-25-11)	10/25/2011	VOCs	11/15/2011	12/2/2011
RFI-94-10	RFI-94-10 (10-25-11)	10/25/2011	VOCs	11/15/2011	12/2/2011
RFI-02-22 RFI-02-22	(10-25-11)	10/25/2011	VOCs	11/15/2011	12/2/2011
40-304	40-304 (10-25-11)	10/25/2011	VOCs, PCBs	11/15/2011	12/2/2011
40-304	DUP-2 (10-25-11)	10/25/2011	VOCs, PCBs	11/15/2011	12/2/2011
RFI-86-01R	RFI-86-01R (10-25-11)	10/25/2011	VOCs, Total Metals	11/15/2011	12/2/2011
40-304	40-304 (10-25-11) MS	10/25/2011	VOCs, PCBs	11/15/2011	12/2/2011
40-304	40-304 (10-25-11) MSD	10/25/2011	VOCs, PCBs	11/15/2011	12/2/2011
Trip Blank	Trip Blank (10-26-11)	10/26/2011	VOCs	11/15/2011	12/2/2011
RFI-36-48 RFI-36-48	(10-26-11)	10/26/2011	VOCs	11/15/2011	12/2/2011
RFI-36-03 RFI-36-03	(10-27-11)	10/27/2011	Inorganics	11/15/2011	12/2/2011
RFI-36-03	RFI-36-03 (10-27-11) MS	10/27/2011	Inorganics	11/15/2011	12/2/2011
RFI-36-03	RFI-36-03 (10-27-11) MSD	10/27/2011	Inorganics	11/15/2011	12/2/2011
36-FP1 36-FP1	(10-27-11)	10/27/2011	Inorganics	11/15/2011	12/2/2011
36-FP1 Dup-03	(10-27-11)	10/27/2011	Inorganics	11/15/2011	12/2/2011
RFI-36-14 RFI-36-14	(10-27-11)	10/27/2011	VOCs	11/15/2011	12/2/2011
RFI-36-55R RFI-36-55R	(10-27-11)	10/27/2011	VOCs	11/15/2011	12/2/2011
RFI-12-42 RFI-12-42	(10-27-11)	10/27/2011	VOCs	11/15/2011	12/2/2011
RFI-02-05R RFI-02-05R	(10-27-11)	10/27/2011	VOCs	11/15/2011	12/2/2011
RFI-36-04	RFI-36-04 (10-27-11)	10/27/2011	VOCs, Total Metals	11/15/2011	12/2/2011
Trip Blank	Trip Blank (10-28-11)	10/28/2011	VOCs	11/15/2011	12/2/2011

ATTACHMENT 1

**REVITALIZING AUTO COMMUNITIES ENVIRONMENTAL RESPONSE TRUST
BUICK CITY SITE
SAMPLE SUMMARY FOR October 1, 2011 TO December 31, 2011**

Matrix: Liquid Sample (Waste characterization samples of water taken from waste management units #4 and #5)					
Location-ID	Field Sample ID	Date Sampled	Analyses	Date EDD Received	Date Validated
Waste Management Unit #4	WMU#4-TANK1-FR	10/7/2011	Select VOCs (USEPA Method 8260), Select F-Scan VOCs (USEPA Method 8260), Select USEPA Method 8015, Select F-Scan SVOCs (USEPA Method 8270)	10/17/2011	NA
Waste Management Unit #4	WMU#4-TANK2-FR	10/7/2011	Select VOCs (USEPA Method 8260), Select F-Scan VOCs (USEPA Method 8260), Select USEPA Method 8015, Select F-Scan SVOCs (USEPA Method 8270)	10/17/2011	NA
Waste Management Unit #4	WMU#4-TANK3-FR	10/7/2011	Select VOCs (USEPA Method 8260), Select F-Scan VOCs (USEPA Method 8260), Select USEPA Method 8015, Select F-Scan SVOCs (USEPA Method 8270)	10/17/2011	NA
Waste Management Unit #4	WMU#4-TANK4-FR	10/7/2011	Select VOCs (USEPA Method 8260), Select F-Scan VOCs (USEPA Method 8260), Select USEPA Method 8015, Select F-Scan SVOCs (USEPA Method 8270)	10/17/2011	NA
Waste Management Unit #4	WMU#4-TANK5-FR	10/7/2011	Select VOCs (USEPA Method 8260), Select F-Scan VOCs (USEPA Method 8260), Select USEPA Method 8015, Select F-Scan SVOCs (USEPA Method 8270)	10/17/2011	NA
Waste Management Unit #4	WMU#4-TANK6-FR	10/7/2011	Select VOCs (USEPA Method 8260), Select F-Scan VOCs (USEPA Method 8260), Select USEPA Method 8015, Select F-Scan SVOCs (USEPA Method 8270)	10/17/2011	NA
Waste Management Unit #4	WMU#4-TANK1&2SC-FR	10/7/2011	Select VOCs (USEPA Method 8260), Select F-Scan VOCs (USEPA Method 8260), Select USEPA Method 8015, Select F-Scan SVOCs (USEPA Method 8270)	10/17/2011	NA
Waste Management Unit #4	WMU#4-TANK3&4SC-FR	10/7/2011	Select VOCs (USEPA Method 8260), Select F-Scan VOCs (USEPA Method 8260), Select USEPA Method 8015, Select F-Scan SVOCs (USEPA Method 8270)	10/17/2011	NA
Waste Management Unit #4	WMU#4-TANK5&6SC-FR	10/7/2011	Select VOCs (USEPA Method 8260), Select F-Scan VOCs (USEPA Method 8260), Select USEPA Method 8015, Select F-Scan SVOCs (USEPA Method 8270)	10/17/2011	NA
Waste Management Unit #4	WMU#4-TANK-DECONWASH	10/7/2011	Select VOCs (USEPA Method 8260), Select F-Scan VOCs (USEPA Method 8260), Select USEPA Method 8015, Select F-Scan SVOCs (USEPA Method 8270), Reactivity, TCLP VOCs, TCLP SVOCs, TCLP metals, PCBs.	10/17/2011	NA
Waste Management Unit #4	WMU#4-TANKSC-DECONWASH	10/7/2011	Select VOCs (USEPA Method 8260), Select F-Scan VOCs (USEPA Method 8260), Select USEPA Method 8015, Select F-Scan SVOCs (USEPA Method 8270), Reactivity, TCLP VOCs, TCLP SVOCs, TCLP metals, PCBs.	10/17/2011	NA
Waste Management Unit #5	WMU#5-SUMP-FR	10/7/2011	Select VOCs (USEPA Method 8260), Select F-Scan VOCs (USEPA Method 8260), Select USEPA Method 8015, Select F-Scan SVOCs (USEPA Method 8270)	10/17/2011	NA
Waste Management Unit #5	WMU#5-FLOOR-FR	10/7/2011	Select VOCs (USEPA Method 8260), Select F-Scan VOCs (USEPA Method 8260), Select USEPA Method 8015, Select F-Scan SVOCs (USEPA Method 8270)	10/17/2011	NA
Waste Management Unit #5	WMU#5-TOTE-FR	10/7/2011	Select VOCs (USEPA Method 8260), Select F-Scan VOCs (USEPA Method 8260), Select USEPA Method 8015, Select F-Scan SVOCs (USEPA Method 8270)	10/17/2011	NA
Waste Management Unit #5	WMU#5-DECONWASH	10/7/2011	Select VOCs (USEPA Method 8260), Select F-Scan VOCs (USEPA Method 8260), Select USEPA Method 8015, Select F-Scan SVOCs (USEPA Method 8270), Reactivity, TCLP VOCs, TCLP SVOCs, TCLP metals, PCBs.	10/17/2011	NA
Trip Blank	Trip Blank	10/7/2011	VOCs	10/17/2011	NA
Matrix: Solid Sample (Waste characterization samples of solids taken from waste management units #4 and #5)					
Location-ID	Field Sample ID	Date Sampled	Analyses	Date EDD Received	Date Validated
Waste Management Unit #4	WMU#4-SOLID	10/7/2011	Select VOCs (USEPA Method 8260), Select F-Scan VOCs (USEPA Method 8260), Select USEPA Method 8015, Select F-Scan SVOCs (USEPA Method 8270), Reactivity, TCLP VOCs, TCLP SVOCs, TCLP metals, PCBs.	10/17/2011	NA
Waste Management Unit #5	WMU#5-SOLID	10/7/2011	Select VOCs (USEPA Method 8260), Select F-Scan VOCs (USEPA Method 8260), Select USEPA Method 8015, Select F-Scan SVOCs (USEPA Method 8270), Reactivity, TCLP VOCs, TCLP SVOCs, TCLP metals, PCBs.	10/17/2011	NA

ATTACHMENT 1

**REVITALIZING AUTO COMMUNITIES ENVIRONMENTAL RESPONSE TRUST
BUICK CITY SITE
SAMPLE SUMMARY FOR October 1, 2011 TO December 31, 2011**

Matrix: Solid Sample (Soil Boring samples taken from waste management unit areas #4, #5, and #6)					
Location-ID	Field Sample ID	Date Sampled	Analyses	Date EDD Received	Date Validated
Tripblank	Tripblank_12152011	12/15/2011	TCL VOCs, F-scan VOCs	12/27/2011	NA
Waste Management Unit #4	WMU4_SB1_12152011	12/15/2011	F-Scan VOCs, F-Scan SVOCs, 1,1,2 Trichloroethane, 1,2,2 Trichloroethane, Dichlorodifluoromethane, Total Solids, Methanol	12/27/2011	NA
Waste Management Unit #4	WMU4_SB2_12152011	12/15/2011	F-Scan VOCs, F-Scan SVOCs, 1,1,2 Trichloroethane, 1,2,2 Trichloroethane, Dichlorodifluoromethane, Total Solids, Methanol	12/27/2011	NA
Waste Management Unit #4	WMU4_SB3_12152011	12/15/2011	F-Scan VOCs, F-Scan SVOCs, 1,1,2 Trichloroethane, 1,2,2 Trichloroethane, Dichlorodifluoromethane, Total Solids, Methanol	12/27/2011	NA
Waste Management Unit #4	WMU4_SB4_12152011	12/15/2011	F-Scan VOCs, F-Scan SVOCs, 1,1,2 Trichloroethane, 1,2,2 Trichloroethane, Dichlorodifluoromethane, Total Solids, Methanol	12/27/2011	NA
Waste Management Unit #5	WMU5_SB1_12152011	12/15/2011	F-Scan VOCs, F-Scan SVOCs, 1,1,2 Trichloroethane, 1,2,2 Trichloroethane, Dichlorodifluoromethane, Total Solids, Methanol	12/27/2011	NA
Waste Management Unit #5	WMU5_SB2_12152011	12/15/2011	F-Scan VOCs, F-Scan SVOCs, 1,1,2 Trichloroethane, 1,2,2 Trichloroethane, Dichlorodifluoromethane, Total Solids, Methanol	12/27/2011	NA
Waste Management Unit #5	WMU5_SB3_12152011	12/15/2011	F-Scan VOCs, F-Scan SVOCs, 1,1,2 Trichloroethane, 1,2,2 Trichloroethane, Dichlorodifluoromethane, Total Solids, Methanol	12/27/2011	NA
Waste Management Unit #5	WMU5_SB4_12152011	12/15/2011	F-Scan VOCs, F-Scan SVOCs, 1,1,2 Trichloroethane, 1,2,2 Trichloroethane, Dichlorodifluoromethane, Total Solids, Methanol	12/27/2011	NA
Waste Management Unit #5	WMU5_SB5_12152011	12/15/2011	F-Scan VOCs, F-Scan SVOCs, 1,1,2 Trichloroethane, 1,2,2 Trichloroethane, Dichlorodifluoromethane, Total Solids, Methanol	12/27/2011	NA
Waste Management Unit #6	WMU6_SB1_12152011	12/15/2011	TCL VOCs, TCL SVOCs, Total Solids	12/27/2011	NA
Waste Management Units #4 and #5	IDW_12152011	12/15/2011	TCLP VOCs, TCLP SVOCs, TCLP metals, PCBs, total solids	1/4/2012	NA
Matrix: Storm Sewer Water (Monthly "NPDES Plus" Monitoring Program [NPMP] Sampling)					
Location-ID	Field Sample ID	Date Sampled	Analyses	Date EDD Received	Date Validated
MH 1-3	MP001_10122011	10/12/2011	Low Level Total Mercury, Total Metals*, TSS, VOCs, SVOCs, Cyanide	12/12/2011	NA
MH 2-19	MP002_10122011	10/12/2011	Low Level Total Mercury, Total Metals*, TSS, VOCs, SVOCs, Cyanide	12/12/2011	NA
MH 3-3	MP003_10122011	10/12/2011	Low Level Total Mercury, Total Metals*, TSS, VOCs, SVOCs, Cyanide	12/12/2011	NA
MH 5-6	MP005_10122011	10/12/2011	Low Level Total Mercury, Total Metals*, TSS, VOCs, SVOCs, Cyanide	12/12/2011	NA
MH 6-2	MP006_10122011	10/12/2011	Low Level Total Mercury, Total Metals*, TSS, VOCs, Cyanide	12/12/2011	NA
MH11-7	MP009_10122011	10/12/2011	Low Level Total Mercury, Total Metals*, TSS, VOCs, SVOCs, Cyanide	12/12/2011	NA
MH 10-5	MP010_10122011	10/12/2011	Low Level Total Mercury, Total Metals*, TSS, VOCs, SVOCs, Cyanide	12/12/2011	NA
MH 10-5	MP010_10122011 MS	10/12/2011	Total Metals*, TSS, VOCs, SVOCs, Cyanide	12/12/2011	NA
MH 10-5	MP010_10122011 MSD	10/12/2011	Total Metals*, TSS, VOCs, SVOCs, Cyanide	12/12/2011	NA
Outfall 011	MP011_10122011	10/12/2011	Low Level Total Mercury, Total Metals*, TSS, VOCs, SVOCs, Cyanide	12/12/2011	NA
MH 2-19	DUP001_10122011	10/12/2011	Total Metals*, TSS, VOCs, Cyanide	12/12/2011	NA
Field Blank	Field Blank 10122011	10/12/2011	Low Level Total Mercury, Total Metals*, TSS, VOCs, SVOCs, Cyanide	12/12/2011	NA
Equipment Blank	Equip Blank 10122011	10/12/2011	Low Level Total Mercury, Total Metals*, TSS, VOCs, SVOCs, Cyanide	12/12/2011	NA
Trip Blank	Trip Blank 10122011	10/12/2011	VOCs	12/12/2011	NA
Outfall 007	MP007_10122011	10/12/2011	Low Level Total Mercury, Total Metals*, TSS, VOCs, SVOCs, Cyanide	12/12/2011	NA

ATTACHMENT 1

**REVITALIZING AUTO COMMUNITIES ENVIRONMENTAL RESPONSE TRUST
BUICK CITY SITE
SAMPLE SUMMARY FOR October 1, 2011 TO December 31, 2011**

Matrix: Storm Sewer Water (Monthly "NPDES Plus" Monitoring Program [NPMP] Sampling)						
Location-ID	Field Sample ID	Date Sampled	Analyses	Date EDD Received	Date Validated	
MH 1-3	MP001_11022011	11/2/2011	Low Level Total Mercury, Total Metals*, TSS, VOCs, Cyanide	1/12/2012	NA	
MH 2-19	MP002_11022011	11/2/2011	Low Level Total Mercury, Total Metals*, TSS, VOCs, Cyanide	1/12/2012	NA	
MH 3-3	MP003_11022011	11/2/2011	Low Level Total Mercury, Total Metals*, TSS, VOCs, Cyanide	1/12/2012	NA	
MH 5-6	MP005_11022011	11/2/2011	Low Level Total Mercury, Total Metals*, TSS, Cyanide	1/12/2012	NA	
MH 6-2	MP006_11022011	11/2/2011	Low Level Total Mercury, Total Metals*, TSS, VOCs, Cyanide	1/12/2012	NA	
Outfall 007	MP007_11022011	11/2/2011	Low Level Total Mercury, Total Metals*, TSS, VOCs, SVOCs, Cyanide	1/12/2012	NA	
MH 11-7	MP009_11022011	11/2/2011	Low Level Total Mercury, Total Metals*, TSS, VOCs, Cyanide	1/12/2012	NA	
MH 11-7	MP009_11022011 MS	11/2/2011	Total Metals*, TSS, VOCs, Cyanide	1/12/2012	NA	
MH 11-7	MP009_11022011 MSD	11/2/2011	Total Metals*, TSS, VOCs, Cyanide	1/12/2012	NA	
MH 10-5	MP010_11022011	11/2/2011	Low Level Total Mercury, Total Metals*, TSS, VOCs, Cyanide	1/12/2012	NA	
MH 2-19	DUP001_11022011	11/2/2011	Total Metals*, TSS, VOCs, Cyanide	1/12/2012	NA	
Trip Blank	Trip_Blank_11022011	11/2/2011	VOCs	1/12/2012	NA	
Field Blank	Field_Blank_11022011	11/2/2011	Low Level Total Mercury, Total Metals*, VOCs, Cyanide	1/12/2012	NA	
Equipment Blank	Equip_Blank_11022011	11/2/2011	Low Level Total Mercury, Total Metals*, VOCs, Cyanide	1/12/2012	NA	
MH 1-3	MP001_12132011	12/13/2011	Low Level Total Mercury, Total Metals*, TSS, VOCs, Cyanide	1/3/2012	NA	
MH 2-19	MP002_12132011	12/13/2011	Low Level Total Mercury, Total Metals*, TSS, VOCs, Cyanide	1/3/2012	NA	
MH 3-3	MP003_12132011	12/13/2011	Low Level Total Mercury, Total Metals*, TSS, VOCs, Cyanide	1/3/2012	NA	
MH 5-6	MP005_12132011	12/13/2011	Low Level Total Mercury, Total Metals*, TSS, Cyanide	1/3/2012	NA	
MH 6-2	MP006_12132011	12/13/2011	Low Level Total Mercury, Total Metals*, TSS, VOCs, Cyanide	1/3/2012	NA	
Outfall 007	MP007_12132011	12/13/2011	Low Level Total Mercury, Total Metals*, TSS, VOCs, SVOCs, Cyanide	1/3/2012	NA	
MH 11-7	MP009_12132011	12/13/2011	Low Level Total Mercury, Total Metals*, TSS, VOCs, Cyanide	1/3/2012	NA	
MH 10-5	MP010_12132011	12/13/2011	Low Level Total Mercury, Total Metals*, TSS, VOCs, Cyanide	1/3/2012	NA	
MH 10-5	MP010_12132011 MS	12/13/2011	Total Metals*, TSS, VOCs, Cyanide	1/3/2012	NA	
MH 10-5	MP010_12132011 MSD	12/13/2011	Total Metals*, TSS, VOCs, Cyanide	1/3/2012	NA	
MH-13-6	MP013_12132011	12/13/2011	Low Level Total Mercury, Total Metals*, TSS, Cyanide	1/3/2012	NA	
MH 2-19	Dup001_12132011	12/13/2011	Total Metals*, TSS, VOCs, Cyanide	1/3/2012	NA	
Trip Blank	Trip_Blank_12132011	12/13/2011	VOCs	1/3/2012	NA	
Field Blank	Field_Blank_12132011	12/13/2011	Low Level Total Mercury, Total Metals*, VOCs, Cyanide	1/3/2012	NA	
Equipment Blank	Equip_Blank_12132011	12/13/2011	Low Level Total Mercury, Total Metals*, VOCs, Cyanide	1/3/2012	NA	
Matrix: Storm Sewer Water (NPDES Sampling)						
Location-ID	Field Sample ID	Date Sampled	Analyses	Date EDD Received	Date Validated	
MH 3-3	MP003A_10072011	10/7/2011	Total PCBs	NAv	NA	
MH 3-3	MP003A_10112011	10/11/2011	Total PCBs	12/13/2011	NA	
MH 5-6	MP005-C_10132011	10/13/2011	Total PCBs	12/12/2011	NA	
MH 3-3	MP003A_10182011	10/18/2011	Total PCBs	NAv	NA	
Equipment Blank	ISCO_Blank_10112011	10/11/2011	Total PCBs	12/13/2011	NA	
MH 3-3	MP003A_10282011	10/28/2011	Total PCBs	NAv	NA	
MH 3-3	MP003A_11012011	11/1/2011	Total PCBs	1/12/2012	NA	
Equipment Blank	ISCO_Blank_11012011	11/1/2011	Total PCBs	1/12/2012	NA	
MH 5-6	MP005-C_11022011	11/2/2011	Total PCBs	1/12/2012	NA	
Equipment Blank	ISCO_Blank_11022011	11/2/2011	Total PCBs	1/12/2012	NA	
MH 3-3	MP003A_11092011	11/9/2011	Total PCBs	NAv	NA	
MH 3-3	MP003A_11172011	11/17/2011	Total PCBs	NAv	NA	
MH 3-3	MP003A_11222011	11/22/2011	Total PCBs	NAv	NA	
MH 3-3	MP003A_12012011	12/1/2011	Total PCBs	NAv	NA	
MH 3-3	MP003A_12092011	12/9/2011	Total PCBs	NAv	NA	
MH 3-3	MP003A_12132011	12/13/2011	Total PCBs	1/3/2012	NA	
Equipment Blank	ISCO_Blank_12132011	12/13/2011	Total PCBs	1/3/2012	NA	
MH 5-6	MP005-C_12212011	12/21/2011	Total PCBs	1/3/2012	NA	
Equipment Blank	ISCO_Blank_12212011	12/21/2011	Total PCBs	1/3/2012	NA	
MH 3-3	MP003A_12222011	12/22/2011	Total PCBs	NAv	NA	
MH 3-3	MP003A_12282011	12/28/2011	Total PCBs	NAv	NA	

ATTACHMENT 1

REVITALIZING AUTO COMMUNITIES ENVIRONMENTAL RESPONSE TRUST
 BUICK CITY SITE
 SAMPLE SUMMARY FOR October 1, 2011 TO December 31, 2011

Matrix: Storm Sewer Water (NPDES Sampling)					
Location-ID	Field Sample ID	Date Sampled	Analyses	Date EDD Received	Date Validated
Outfall 003	MP003A 09272011	9/27/2011	Total PCBs	NAv	NA
Outfall 010	MP010 09302011 WW	9/30/2011	Low Level Mercury	NAv	NA
Field Blank	Field Blank 09302011	9/30/2011	Low Level Mercury	NAv	NA
Equipment Blank	Equip Blank 09302011	9/30/2011	Low Level Mercury	NAv	NA
Trip Blank	Trip Blank 09302011	9/30/2011	Low Level Mercury	NAv	NA
Outfall 011	MP011 10152011 WW	10/15/2011	Total Copper	NAv	NA
Outfall 012	MP012 09262011	9/26/2011	Total Copper	NAv	NA
Outfall 012	Duplicate 09262011	9/26/2011	Total Copper	NAv	NA
Field Blank	Field Blank 09262011	9/26/2011	Total Copper	NAv	NA
Equipment Blank	Equip Blank 09262011	9/26/2011	Total Copper	NAv	NA

Notes:

NA Not Applicable

NAv Date Not Available at the time of this report.

* Metals analyzed for include: Ag, As, Ba, Be, Cd, Co, Cr, Cu, Fe, Mn, Ni, Pb, Sb, Se, Tl, V, and Zn.

VOCs Volatile Organic Compounds

SVOCs Semi-Volatile Organic Compounds

PCBs Polychlorinated Biphenyls

TSS Total Suspended Solids

RCI Reactivity, Corrosivity, Ignitability

Attachment 2

2011 Outfall 003 Dry and Wet
Weather Storm Water Sampling
Results

2011 Outfall 005 Sampling Results

2011 Outfall 003A Dry Weather Storm Water Sampling Data
2011 Yearly PMP Report
RACER Trust Buick City

Location ID: Date Collected: Outfall:	Units	OUTFALL 003A 01/04/11 003	OUTFALL 003A 01/11/11 003	OUTFALL 003A 01/20/11 003	OUTFALL 003A 01/26/11 003	OUTFALL 003A 02/04/11 003	OUTFALL 003A 02/09/11 003	OUTFALL 003A 02/15/11 003	OUTFALL 003A 02/25/11 003	OUTFALL 003A 03/04/11 003
PCB										
Aroclor-1016 (PCB-1016)	ug/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Aroclor-1221 (PCB-1221)	ug/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Aroclor-1232 (PCB-1232)	ug/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Aroclor-1242 (PCB-1242)	ug/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Aroclor-1248 (PCB-1248)	ug/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Aroclor-1254 (PCB-1254)	ug/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Aroclor-1260 (PCB-1260)	ug/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Total PCBs	ug/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10

Location ID: Date Collected: Outfall:	Units	OUTFALL 003A 03/11/11 003	OUTFALL 003A 03/16/11 003	OUTFALL 003A 03/23/11 003	OUTFALL 003A 03/29/11 003	OUTFALL 003A 04/06/11 003	OUTFALL 003A 04/13/11 003	OUTFALL 003A 04/22/11 003	OUTFALL 003A 04/26/11 003	OUTFALL 003A 05/06/11 003
PCB										
Aroclor-1016 (PCB-1016)	ug/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Aroclor-1221 (PCB-1221)	ug/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Aroclor-1232 (PCB-1232)	ug/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Aroclor-1242 (PCB-1242)	ug/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Aroclor-1248 (PCB-1248)	ug/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Aroclor-1254 (PCB-1254)	ug/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Aroclor-1260 (PCB-1260)	ug/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Total PCBs	ug/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10

Location ID: Date Collected: Outfall:	Units	OUTFALL 003A 05/12/11 003	MH 3-3 05/17/11 003	OUTFALL 003A 05/25/11 003	OUTFALL 003A 06/02/11 003	OUTFALL 003A 06/09/11 003	OUTFALL 003A 06/15/11 003	OUTFALL 003A 06/21/11 003	OUTFALL 003A 06/28/11 003	OUTFALL 003A 07/06/11 003
PCB										
Aroclor-1016 (PCB-1016)	ug/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Aroclor-1221 (PCB-1221)	ug/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Aroclor-1232 (PCB-1232)	ug/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Aroclor-1242 (PCB-1242)	ug/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Aroclor-1248 (PCB-1248)	ug/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Aroclor-1254 (PCB-1254)	ug/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Aroclor-1260 (PCB-1260)	ug/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Total PCBs	ug/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10

2011 Outfall 003A Dry Weather Storm Water Sampling Data
2011 Yearly PMP Report
RACER Trust Buick City

Location ID: Date Collected: Outfall:	Units	OUTFALL 003A 07/13/11 003	OUTFALL 003A 07/23/11 003	OUTFALL 003A 07/26/11 003	OUTFALL 003A 08/02/11 003	OUTFALL 003A 08/12/11 003	OUTFALL 003A 08/16/11 003	OUTFALL 003A 08/26/11 003	OUTFALL 003A 08/31/11 003	OUTFALL 003A 09/07/11 003
PCB										
Aroclor-1016 (PCB-1016)	ug/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Aroclor-1221 (PCB-1221)	ug/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Aroclor-1232 (PCB-1232)	ug/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Aroclor-1242 (PCB-1242)	ug/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Aroclor-1248 (PCB-1248)	ug/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Aroclor-1254 (PCB-1254)	ug/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Aroclor-1260 (PCB-1260)	ug/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Total PCBs	ug/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10

Location ID: Date Collected: Outfall:	Units	OUTFALL 003A 09/13/11 003	OUTFALL 003A 09/22/11 003	OUTFALL 003A 09/27/11 003	OUTFALL 003A 10/07/11 003	OUTFALL 003A 10/11/11 003	OUTFALL 003A 10/18/11 003	OUTFALL 003A 10/28/11 003	OUTFALL 003A 11/01/11 003	OUTFALL 003A 11/09/11 003
PCB										
Aroclor-1016 (PCB-1016)	ug/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Aroclor-1221 (PCB-1221)	ug/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Aroclor-1232 (PCB-1232)	ug/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Aroclor-1242 (PCB-1242)	ug/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Aroclor-1248 (PCB-1248)	ug/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Aroclor-1254 (PCB-1254)	ug/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Aroclor-1260 (PCB-1260)	ug/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Total PCBs	ug/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10

Location ID: Date Collected: Outfall:	Units	OUTFALL 003A 11/17/11 003	OUTFALL 003A 11/22/11 003	OUTFALL 003A 12/01/11 003	OUTFALL 003A 12/09/11 003	OUTFALL 003A 12/13/11 003	OUTFALL 003A 12/22/11 003	OUTFALL 003A 12/28/11 003
PCB								
Aroclor-1016 (PCB-1016)	ug/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Aroclor-1221 (PCB-1221)	ug/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Aroclor-1232 (PCB-1232)	ug/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Aroclor-1242 (PCB-1242)	ug/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Aroclor-1248 (PCB-1248)	ug/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Aroclor-1254 (PCB-1254)	ug/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Aroclor-1260 (PCB-1260)	ug/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Total PCBs	ug/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10

2011 Outfall 005 Sampling Data
 2011 Yearly PMP Report
 RACER Trust Buick City

Location ID: Sample Depth(): Date Collected:	GSI	Units	MH 5-6 01/27/11	MH 5-6 02/26/11	MH 5-6 03/30/11	MH 5-6 04/29/11	MH 5-6 05/18/11	MH 5-6 06/27/11	MH 5-6 07/22/11	MH 5-6 08/18/11	MH 5-6 09/14/11	MH 5-6 10/13/11	MH 5-6 11/02/11	MH 5-6 12/21/11
PCB														
Aroclor-1016	--	ug/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Aroclor-1221	--	ug/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Aroclor-1232	--	ug/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Aroclor-1242	--	ug/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Aroclor-1248	--	ug/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Aroclor-1254	--	ug/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Aroclor-1260	--	ug/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Total PCBs	0.2 {(M)}	ug/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10

2011 Outfall 005 Sampling Data
2011 Yearly PMP Report
RACER Trust Buick City

Qualifier Type	Lab Qualifiers	Definition
Inorganic	U	The compound was analyzed for but not detected. The associated value is the compound quantitation limit.
Organic	U	The compound was analyzed for but not detected. The associated value is the compound quantitation limit.

Attachment 3

2011 Field Inspection Notes – Outfall
003/004 BaySaver Separation
System

2011 Field Inspection Notes
 Outfall 003 004 BaySaver Separation System
 2011 Yearly PMP Report
 RACER Trust Buick City

DATE	WEATHER		OUTFALL 003								
	Temp (°F)	Conditions (rain, etc.)	MH 3-3		MH 3-6						
			Obstructions (Y/N)	Flow (Y/N)	Obstructions (Y/N)	Quantity of Debris	Flow (Y/N)	Depths		Cresting Weir (Y/N)	Pooling Oil (Y/N)
							To Water	To Bottom			
2/16/2011	32	Overcast	No	Yes	No	Medium	Yes	11.33	12.31	No	NA
2/18/2011	48	Sunny	No	Yes	No	Little	Yes	10.35	11.80	Yes	NA
2/23/2011	20	Sunny	No	Yes	No	Medium	No	10.00	12.00	Yes	Sheen
2/25/2011	30	Partly sunny	No	Yes	No	Medium	No	10.70	12.00	No	Yes
2/28/2011	28	Overcast	No	Yes	No	Little	Yes	10.60	12.20	No	No
3/2/2011	31	Sunny	No	Yes	No	Medium	Yes	11.40	12.00	No	No
3/4/2011	30	Overcast	No	Yes	Yes	Medium	Yes	11.44	11.89	No	Yes
3/8/2011	40	Partly sunny	No	Yes	Yes	Little	No	10.60	12.45	Yes	Yes
3/9/2011	35	Light rain	No	Yes	No	Little	Yes	10.44	12.45	Yes	Yes
3/11/2011	38		No	Yes	No	Little	Yes	10.45	12.55	Yes	Sheen
3/15/2011	36	Overcast	No	Yes	No	Little	Yes	10.96	12.50	No	Yes
3/16/2011	46	Sunny	No	Yes	No	Little	Yes	10.80	12.60	No	Yes
3/18/2011	47	Sunny	No	Yes	No	Little	Yes	11.18	12.50	No	Yes
3/21/2011	50	Partly cloudy	No	Yes	Yes	Heavy	No	10.28	12.60	Yes	No
3/24/2011	28	Cloudy	No	Yes	Yes	Heavy	No	9.96	12.60	Yes	No
3/25/2011	23	Sunny	No	Yes	NA	NA	NA	NA	NA	NA	NA
3/28/2011	25	Sunny	No	Yes	Yes	Grate full	No	10.49	12.60	Yes	No
3/29/2011	23	Sunny	No	Yes	No	Grate full	Yes	11.17	12.55	No	No
3/30/2011	30	Overcast	No	Yes	Yes	Grate full	No	10.15	12.55	Yes	No
4/5/2011	35	Partly Cloudy	No	Yes	Yes	Grate full	No	10.08	12.46	Yes	No
4/6/2011	38	Light rain	No	Yes	Yes	Grate full	No	10.06	12.44	Yes	Sheen
4/8/2011	53	Sunny	No	Yes	Yes	Grate full	No	10.07	12.42	Yes	Sheen
4/11/2011	32	Snow	No	Yes	Yes	Grate full	No	10.05	12.44	Yes	Sheen
4/12/2011	32	Overcast	No	Yes	Yes	Grate full	No	10.05	12.40	Yes	Sheen
4/13/2011	53	Light rain	No	Yes	Yes	Grate full	No	10.05	12.42	Yes	Sheen
4/18/2011	50	Light rain	No	Yes	Yes	Grate full	No	10.06	12.44	Yes	Sheen
4/19/2011	50	Light rain	No	Yes	Yes	Grate full	No	10.05	12.40	Yes	Sheen
4/20/2011	40	Light rain	No	Yes	No	Grate full	No	9.81	12.42	Yes	Sheen
4/25/2011	70	Overcast	No	Yes	No	Grate full	No	NA	NA	Yes	Sheen
4/26/2011	60	Rain	No	Yes	Yes	Grate full	No	NA	NA	Yes	Sheen
4/27/2011	70	Cloudy	No	Yes	Yes	Grate full	No	9.81	12.42	Yes	Sheen
5/13/2011	70	Cloudy	No	Yes	Yes	Grate full	No	10.00	12.60	Yes	Sheen
5/19/2011	70	Cloudy	No	Yes	No	None	No	10.04	12.60	Yes	No
5/27/2011	90	Sunny	No	Yes	No	None	Yes	11.21	12.60	No	No
6/2/2011	75	Sunny	No	Yes	NA	NA	NA	NA	NA	NA	NA
6/3/2011	75	Sunny	No	Yes	NA	NA	NA	NA	NA	NA	NA
6/7/2011	65	Rain	No	Yes	NA	NA	NA	NA	NA	NA	NA
6/8/2011	80	Light rain	No	Yes	NA	NA	NA	NA	NA	NA	NA
6/13/2011	70	Cloudy	No	Yes	NA	NA	NA	NA	NA	NA	NA
6/16/2011	75	Overcast	No	Yes	NA	NA	NA	NA	NA	NA	NA
6/21/2011	75	Clear	No	Yes	NA	NA	NA	NA	NA	NA	NA
6/23/2011	80	Clear	No	Yes	NA	NA	NA	NA	NA	NA	NA
6/27/2011	80	Clear	No	Yes	NA	NA	NA	NA	NA	NA	NA
6/29/2011	75	Clear	No	Yes	NA	NA	NA	NA	NA	NA	NA
7/5/2011	80	Clear	No	Yes	NA	NA	NA	NA	NA	NA	NA
7/8/2011	80	Clear	No	Yes	NA	NA	NA	NA	NA	NA	NA
7/11/2011	80	Clear	No	Yes	NA	NA	NA	NA	NA	NA	NA
7/15/2011	85	Clear	No	Yes	NA	NA	NA	NA	NA	NA	NA
7/18/2011	90	Clear	No	Yes	NA	NA	NA	NA	NA	NA	NA
7/22/2011	90	Cloudy	No	Yes	NA	NA	NA	NA	NA	NA	NA
7/25/2011	85	Clear	No	Yes	NA	NA	NA	NA	NA	NA	NA
7/27/2011	85	Overcast	No	Yes	NA	NA	NA	NA	NA	NA	NA
8/2/2011	90	sunny	No	Yes	NA	NA	NA	NA	NA	NA	NA
8/4/2011	85	sun & clouds	No	Yes	NA	NA	NA	NA	NA	NA	NA
8/9/2011	85	cloudy	No	Yes	NA	NA	NA	NA	NA	NA	NA
8/11/2011	75	Cloudy	No	Yes	NA	NA	NA	NA	NA	NA	NA
8/15/2011	75	Cloudy	No	Yes	NA	NA	NA	NA	NA	NA	NA
8/18/2011	80	Clear	No	Yes	NA	NA	NA	NA	NA	NA	NA
8/25/2011	70	Clear	No	Yes	NA	NA	NA	NA	NA	NA	NA
8/26/2011	70	Clear	No	Yes	NA	NA	NA	NA	NA	NA	NA
8/29/2011	75	Cloudy	No	Yes	NA	NA	NA	NA	NA	NA	NA
8/30/2011	75	Clear	No	Yes	NA	NA	NA	NA	NA	NA	NA

Note:
 NA indicates data not applicable
 EO indicates emulsified oil

2011 Field Inspection Notes
 Outfall 003 004 BaySaver Separation System
 2011 Yearly PMP Report
 RACER Trust Buick City

DATE	WEATHER		OUTFALL 003								
	Temp (°F)	Conditions (rain, etc.)	MH 3-3		Obstructions (Y/N)	Quantity of Debris	Flow (Y/N)	MH 3-6		Cresting Weir (Y/N)	Pooling Oil (Y/N)
			Obstructions (Y/N)	Flow (Y/N)				Depths To Water	To Bottom		
9/2/2011	Jetted line into MH 3-6, line was plugged with debris										
9/7/2011	50	Overcast	No	Yes	NA	NA	NA	NA	NA	NA	NA
9/9/2011	65	Overcast	No	Yes	NA	NA	NA	NA	NA	NA	NA
wk of 9/11	see notes	see notes	No	Yes	NA	NA	NA	NA	NA	NA	NA
9/21/2011	66	Overcast	No	Yes	NA	NA	NA	NA	NA	NA	NA
9/23/2011	55	Overcast	No	Yes	NA	NA	NA	NA	NA	NA	NA
9/26/2011	65	Rain	No	Yes	No	None	Yes	NA	NA	Yes	No
10/3/2011	System Cleaning Began (see notes)										
10/7/2011	65	sunny	No	Yes	No	NA	Yes	NA	NA	No	No
10/11/2011	55	Overcast	No	Yes	No	NA	Yes	NA	NA	No	No
10/21/2011	50	Cloudy	No	Yes	No	NA	Yes	NA	NA	No	No
10/25/2011	50	Cloudy	No	Yes	No	NA	Yes	11.15	12.45	No	No
10/28/2011	50	Overcast	No	Yes	No	NA	Yes	11.71	12.36	No	No
10/31/2011	40	Overcast	No	Yes	No	NA	Yes	11.80	12.31	No	No
11/1/2011	50	Clear	No	Yes	No	NA	Yes	11.84	12.39	No	No
11/4/2011	30	Clear	No	Yes	No	NA	Yes	11.81	12.60	No	No
11/7/2011	45	Cloudy	No	Yes	No	NA	Yes	11.80	12.43	No	No
11/14/2011	42	Overcast	No	Yes	No	NA	Yes	11.75	12.45	No	No
11/15/2011	40	Clear	No	Yes	No	NA	Yes	11.77	12.47	No	No
11/22/2011	35	Overcast	No	Yes	No	NA	Yes	11.78	12.43	No	No
11/30/2011											
12/9/2011	30	Overcast	No	Yes	No	NA	Yes	11.76	12.45	No	No
12/12/2011	30	Overcast	No	Yes	No	NA	Yes	11.71	12.47	No	No
12/22/2011	35	Clear	No	Yes	No	NA	Yes	11.78	12.45	No	No
12/28/2011	258	Clear	No	Yes	No	NA	Yes	11.75	12.46	No	No

Note:
 NA indicates data not applicable
 EO indicates emulsified oil

2011 Field Inspection Notes
 Outfall 003 004 BaySaver Separation System
 2011 Yearly PMP Report
 RACER Trust Buick City

DATE	WEATHER		SYSTEM COMPONENTS															
	Temp (*F)	Conditions (rain, etc.)	Bay Saver Primary MH						Bay Saver Storage MH						Oil Water Separator			
			Obstructions (Y/N)	Qty. of Debris	Flow (Y/N)	Depths			Obstructions (Y/N)	Flow (Y/N)	Type of Debris	Depths			Obstructions (Y/N)	Depths		
						To LNAPL	To Water	To Bottom				To LNAPL	To Water	To Bottom		To LNAPL	To Water	
2/16/2011	32	Overcast	No	None	Yes	NA	11.04	19.80	No	Yes	NA	11.34	11.35	19.90	No	NA	NA	9.81
2/18/2011	48	Sunny	No	None	Yes	NA	10.75	19.85	No	Yes	NA	11.00	11.01	19.90	No	NA	NA	9.81
2/23/2011	20	Sunny	No	None	Yes	NA	10.95	20.00	No	Yes	EO	Sheen	11.20	19.85	No	NA	NA	9.64
2/25/2011	30	Partly sunny	No	None	Yes	NA	10.96	20.05	No	Yes	EO	Sheen	11.15	19.90	No	NA	NA	10.6
2/28/2011	28	Overcast	No	None	Yes	NA	10.82	20.00	No	Yes	EO	10.87	10.88	19.92	No	NA	NA	9.4
3/2/2011	31	Sunny	No	None	Yes	NA	10.98	19.18	No	Yes	EO	11.23	11.39	19.91	No	NA	NA	9.11
3/4/2011	30	Overcast	No	None	Yes	NA	11.02	20.00	No	Yes	EO	11.22	11.23	19.90	No	NA	NA	9.75
3/8/2011	40	Partly sunny	No	None	Yes	NA	11.00	19.75	No	Yes	EO	10.93	11.08	20.05	No	NA	NA	9.44
3/9/2011	35	Light rain	No	None	Yes	NA	11.00	19.75	No	Yes	EO	10.55	10.56	19.96	No	NA	NA	9.44
3/11/2011	38		No	None	Yes	NA	10.78	19.90	No	Yes	EO	10.97	10.98	20.05	No	NA	NA	9.24
3/15/2011	36	Overcast	No	None	Yes	NA	11.02	19.90	No	Yes	EO	11.28	11.28	20.04	No	NA	NA	9.76
3/16/2011	46	Sunny	No	None	Yes	NA	10.94	19.85	No	Yes	EO	10.95	10.95	19.95	No	NA	NA	9.5
3/18/2011	47	Sunny	No	None	Yes	NA	11.19	19.95	No	Yes	EO	11.41	11.41	19.95	No	NA	NA	9.83
3/21/2011	50	Partly cloudy	No	None	Yes	NA	11.20	19.88	No	Yes	EO	11.28	11.28	20.00	No	NA	NA	9.72
3/24/2011	28	Cloudy	No	None	Yes	NA	10.95	19.69	No	Yes	EO	11.08	11.08	19.95	No	NA	NA	9.59
3/25/2011	23	Sunny	No	None	Yes	NA	11.09	19.70	No	Yes	EO	11.39	11.39	19.95	No	NA	NA	9.82
3/28/2011	25	Sunny	No	None	Yes	NA	11.13	19.88	No	Yes	EO	11.40	11.40	NA	No	NA	NA	9.86
3/29/2011	23	Sunny	No	None	Yes	NA	11.12	19.94	No	Yes	EO	11.36	11.36	NA	No	NA	NA	9.85
3/30/2011	30	Overcast	No	None	Yes	NA	10.94	19.96	No	Yes	EO	11.17	11.17	NA	No	NA	NA	9.64
4/5/2011	35	Partly Cloudy	No	None	Yes	NA	11.14	19.94	No	Yes	EO	11.41	11.41	NA	No	NA	NA	9.83
4/6/2011	38	Light rain	No	None	Yes	NA	11.02	19.88	No	Yes	EO	11.20	11.20	19.82	No	NA	NA	9.69
4/8/2011	53	Sunny	No	None	Yes	NA	11.19	19.60	No	Yes	EO	11.45	11.45	19.88	No	NA	NA	9.88
4/11/2011	32	Snow	No	None	Yes	NA	11.05	19.96	No	Yes	EO	11.27	11.27	19.90	No	NA	NA	9.75
4/12/2011	32	Overcast	No	None	Yes	NA	11.30	19.96	No	Yes	EO	11.54	11.54	19.82	No	NA	NA	9.93
4/13/2011	53	Light rain	No	None	Yes	NA	11.05	19.96	No	Yes	EO	11.49	11.49	19.82	No	NA	NA	9.83
4/18/2011	50	Light rain	No	None	Yes	NA	11.03	19.86	No	Yes	EO	11.28	11.28	19.84	No	NA	NA	9.61
4/19/2011	50	Light rain	No	None	Yes	NA	11.23	19.82	No	Yes	EO	11.50	11.50	19.86	No	NA	NA	9.89
4/20/2011	40	Light rain	No	None	Yes	NA	10.95	19.82	No	Yes	EO	11.06	11.06	19.84	No	NA	NA	9.5
4/25/2011	70	Overcast	No	None	Yes	NA	11.21	19.82	No	Yes	EO	11.48	11.48	19.78	No	NA	NA	9.93
4/26/2011	60	Rain	No	None	Yes	NA	11.11	19.82	No	Yes	EO	11.35	11.35	19.80	No	NA	NA	9.82
4/27/2011	70	Cloudy	No	None	Yes	NA	10.95	19.82	No	Yes	EO	11.06	11.06	19.84	No	NA	NA	9.5
5/13/2011	70	Cloudy	No	None	Yes	NA	11.25	19.40	No	Yes	EO	11.52	11.52	20.12	No	NA	NA	9.95
5/19/2011	70	Cloudy	No	None	Yes	NA	9.52	19.50	No	Yes	EO	9.19	9.19	NA	No	NA	NA	8.52
5/27/2011	90	Sunny	No	None	Yes	NA	10.98	19.04	No	Yes	EO	11.02	NA	19.93	No	NA	NA	9.59
6/2/2011	75	Sunny	No	None	Yes	NA	11.02	19.04	No	Yes	EO	11.21	11.36	19.93	No	NA	NA	10.09
6/3/2011	75	Sunny	No	None	Yes	NA	10.09	19.04	No	Yes	EO	11.36	11.61	19.93	No	NA	NA	9.98
6/7/2011	65	Rain	No	None	Yes	NA	11.27	19.02	No	Yes	EO	11.54	11.63	19.92	No	NA	NA	NA
6/8/2011	80	Light rain	No	None	Yes	NA	11.27	19.02	No	Yes	EO	11.54	11.63	19.92	No	NA	NA	10.03
6/13/2011	70	Cloudy	No	None	Yes	NA	11.09	19.03	No	Yes	EO	11.60	11.62	19.91	No	NA	NA	9.87
6/16/2011	75	Overcast	No	None	Yes	NA	9.43	19.03	No	Yes	EO	9.39	9.42	19.91	No	NA	NA	9.88
6/21/2011	75	Clear	No	None	Yes	NA	11.09	19.03	No	Yes	EO	11.60	11.62	19.91	No	NA	NA	7.11
6/23/2011	80	Clear	No	None	Yes	NA	11.11	19.03	No	Yes	EO	11.74	11.81	19.91	No	NA	NA	7.05
6/27/2011	80	Clear	No	None	Yes	NA	11.19	19.03	No	Yes	EO	11.72	11.79	19.91	No	NA	NA	7.15
6/29/2011	75	Clear	No	None	Yes	NA	11.43	19.03	No	Yes	EO	11.27	NA	19.90	No	NA	NA	7.01
7/5/2011	80	Clear	No	None	Yes	NA	11.19	19.02	No	Yes	EO	11.50	12.39	19.90	No	NA	NA	9.91
7/8/2011	80	Clear	No	None	Yes	NA	11.27	19.02	No	Yes	EO	11.48	12.40	19.90	No	NA	NA	9.92
7/11/2011	80	Clear	No	None	Yes	NA	11.31	19.00	No	Yes	EO	11.51	12.41	19.89	No	NA	NA	9.91
7/15/2011	85	Clear	No	None	Yes	NA	11.28	19.01	No	Yes	EO	11.51	12.39	19.90	No	NA	NA	9.92
7/18/2011	90	Clear	No	None	Yes	NA	11.30	18.98	No	Yes	EO	11.66	12.36	19.88	No	NA	NA	9.92
7/22/2011	90	Cloudy	No	None	Yes	NA	11.68	19.00	No	Yes	EO	14.81	18.86	19.82	No	NA	NA	9.98
7/25/2011	85	Clear	No	None	Yes	NA	11.55	19.02	No	Yes	EO	13.11	15.89	19.81	No	NA	NA	9.96
7/27/2011	85	Overcast	No	None	Yes	NA	11.45	18.99	No	Yes	EO, Vegetation	12.23	14.17	19.88	No	NA	NA	9.96
8/2/2011	90	sunny	No	None	Yes	NA	11.59	19.01	No	Yes	Vegetation	11.78	12.86	19.86	No	NA	NA	10.02*
8/4/2011	85	sun & clouds	No	None	Yes	NA	11.52	19.00	No	Yes	Vegetation	12.02	12.99	19.82	No	NA	NA	10.00*
8/9/2011	85	cloudy	No	None	Yes	NA	11.49	18.98	No	Yes	Vegetation	11.76	12.9	19.91	No	NA	NA	10.08*
8/11/2011	75	Cloudy	No	None	Yes	NA	11.49	18.99	No	Yes	EO, Vegetation	11.77	12.91	19.89	No	NA	NA	10.1
8/15/2011	75	Cloudy	No	None	Yes	NA	11.52	19.00	No	Yes	Vegetation	11.73	12.88	19.89	No	NA	NA	10.08
8/18/2011	80	Clear	No	None	Yes	NA	11.51	18.87	No	Yes	EO, Vegetation	11.76	12.9	19.78	No	NA	NA	10.07
8/25/2011	70	Clear	No	None	Yes	NA	11.50	17.35	No	Yes	EO, Vegetation	11.87	12.82	19.53	No	NA	NA	10.02
8/26/2011	70	Clear	No	None	Yes	NA	11.51	17.60	No	Yes	Vegetation	11.67	12.73	19.50	No	NA	NA	10.04
8/29/2011	75	Cloudy	No	None	Yes	NA	11.78	18.88	No	Yes	Vegetation	11.79	12.64	19.56	No	NA	NA	10.06
8/30/2011	75	Clear	No	None	Yes	NA	11.79	18.92	No	Yes	EO, Vegetation	11.81	12.69	19.58	No	NA	NA	10.04

Note:
 NA indicates data not applicable
 EO indicates emulsified oil

2011 Field Inspection Notes
 Outfall 003 004 BaySaver Separation System
 2011 Yearly PMP Report
 RACER Trust Buick City

DATE	WEATHER		SYSTEM COMPONENTS															
	Temp (+F)	Conditions (rain, etc.)	Bay Saver Primary MH						Bay Saver Storage MH						Oil Water Separator			
			Obstructions (Y/N)	Qty. of Debris	Flow (Y/N)	Depths			Obstructions (Y/N)	Flow (Y/N)	Type of Debris	Depths			Obstructions (Y/N)	Depths		
To LNAPL	To Water	To Bottom				To LNAPL	To Water	To Bottom				To LNAPL	To Water					
9/2/2011																		
9/7/2011	50	Overcast	No	None	Yes	NA	11.71	18.89	No	Yes	Vegetation	11.62	12.77	19.61	No	NA	9.98	
9/9/2011	65	Overcast	No	None	Yes	NA	11.73	18.91	No	Yes	Vegetation	11.66	12.89	19.44	No	NA	10.02	
wk of 9/11	see notes	see notes	No	None	Yes	NA	see notes	see notes	No	Yes	Vegetation	see notes	see notes	see notes	No	NA	see notes	
9/21/2011	66	Overcast	No	None	Yes	NA	11.77	18.92	No	Yes	EO,	11.71	12.91	19.55	No	NA	10.04	
9/23/2011	55	Overcast	No	None	Yes	NA	11.76	18.89	No	Yes	Vegetation, EO,	11.68	12.79	19.49	No	NA	10.03	
9/26/2011	65	Rain	No	None	Yes	NA	11.62	18.91	No	Yes	Vegetation	11.81	12.92	19.51	No	NA	10.02	
10/3/2011																		
10/7/2011	65	sunny	No	None	Yes	NA	11.47	19.66	No	Yes	EO	NA	11.91	18.98	No	NA	10.12	
10/11/2011	55	Overcast	No	None	Yes	NA	11.63	20.20	No	Yes	EO	NA	11.31	19.98	No	NA	10.11	
10/21/2011	50	Cloudy	No	None	Yes	NA	11.10	19.22	No	Yes	EO	NA	11.36	19.98	No	NA	10.09	
10/25/2011	50	Cloudy	No	None	Yes	NA	11.19	19.55	No	Yes	EO	NA	11.55	19.96	No	NA	10.12	
10/28/2011	50	Overcast	No	None	Yes	NA	11.21	19.72	No	Yes	EO	NA	11.68	19.94	No	NA	10.09	
10/31/2011	40	Overcast	No	None	Yes	NA	11.33	19.68	No	Yes	EO	NA	11.71	19.86	No	NA	10.02	
11/1/2011	50	Clear	No	None	Yes	NA	11.39	19.71	No	Yes	EO	NA	11.70	19.83	No	NA	10.04	
11/4/2011	30	Clear	No	None	Yes	NA	11.37	19.69	No	Yes	EO	NA	11.68	19.87	No	NA	10.01	
11/7/2011	45	Cloudy	No	None	Yes	NA	11.27	19.67	No	Yes	EO	NA	11.72	19.83	No	NA	10.09	
11/14/2011	42	Overcast	No	None	Yes	NA	11.42	19.08	No	Yes	EO	11.71	11.79	19.85	No	NA	9.99	
11/15/2011	40	Clear	No	None	Yes	NA	11.44	19.11	No	Yes	EO	11.70	11.86	19.87	No	NA	9.98	
11/22/2011	35	Overcast	No	None	Yes	NA	11.43	19.08	No	Yes	EO	11.69	11.98	19.83	No	NA	10.01	
11/30/2011																		
12/9/2011	30	Overcast	No	some trash	Yes	NA	11.41	19.06	No	Yes	EO	11.69	11.78	19.81	No	NA	10.00	
12/12/2011	30	Overcast	No	some trash	Yes	NA	11.39	19.07	No	Yes	EO	11.67	11.70	19.8	No	NA	10.02	
12/22/2011	35	Clear	No	some trash	Yes	NA	11.42	19.05	No	Yes	EO	11.7	11.86	19.83	No	NA	10.1	
12/28/2011	258	Clear	No	some trash	Yes	NA	11.45	19.08	No	Yes	EO	11.71	11.88	19.84	No	NA	10.02	

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2011 Field Inspection Notes
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DATE	WEATHER		OUTFALL 004						ADDITIONAL NOTES
	Temp (+F)	Conditions (rain, etc.)	MH 4-6				MH 4-5		
			Obstructions (Y/N)	Debris Quantity	Flow (Y/N)	Depths		Flow (Y/N)	
					To Water	To Bottom			
2/16/2011	32	Overcast	No	Little	Yes	7.21	9.40	No	
2/18/2011	48	Sunny	No	Slight	Yes	6.40	9.35	Yes	
2/23/2011	20	Sunny	No	Little	Yes	7.16	9.30	No	
2/25/2011	30	Partly sunny	No	Little	Yes	7.15	9.35	No	
2/28/2011	28	Overcast	No	Little	Yes	5.43	9.15	Yes	
3/2/2011	31	Sunny	No	Little	Yes	6.90	9.45	Yes	
3/4/2011	30	Overcast	Yes	Little	Yes	6.95	9.15	No	
3/8/2011	40	Partly sunny	No	Little	Yes	6.96	9.50	No	
3/9/2011	35	Light rain	No	Little	Yes	6.04	9.6	No	
3/11/2011	38		No	Little	Yes	5.73	9.5	No	
3/15/2011	36	Overcast	No	Little	Yes	6.99	9.4	No	
3/16/2011	46	Sunny	No	Little	Yes	6.30	9.45	No	
3/18/2011	47	Sunny	No	Medium	Yes	7.01	9.50	No	
3/21/2011	50	Partly cloudy	No	Little	Yes	6.88	9.50	No	
3/24/2011	28	Cloudy	No	Little	Yes	6.03	9.50	No	
3/25/2011	23	Sunny	No	Little	Yes	6.98	9.36	No	
3/28/2011	25	Sunny	No	Little	Yes	7.02	9.50	No	
3/29/2011	23	Sunny	No	Little	Yes	7.02	9.36	No	
3/30/2011	30	Overcast	No	Little	Yes	6.95	9.36	No	
4/5/2011	35	Partly Cloudy	No	Little	Yes	6.85	9.46	No	
4/6/2011	38	Light rain	No	Little	Yes	6.82	9.44	No	
4/8/2011	53	Sunny	No	Little	Yes	6.99	9.46	No	
4/11/2011	32	Snow	No	Medium	Yes	5.74	9.48	No	
4/12/2011	32	Overcast	No	Medium	Yes	7.00	9.46	No	
4/13/2011	53	Light rain	No	Medium	Yes	6.99	9.44	No	
4/18/2011	50	Light rain	No	Medium	Yes	5.98	9.38	No	
4/19/2011	50	Light rain	No	None	Yes	7.03	9.36	No	
4/20/2011	40	Light rain	No	Medium	Yes	4.45	9.30	Yes	
4/25/2011	70	Overcast	No	Medium	Yes	6.64	9.32	No	
4/26/2011	60	Rain	No	None	Yes	6.44	9.32	No	
4/27/2011	70	Cloudy	No	Medium	Yes	4.45	9.30	Yes	
5/13/2011	70	Cloudy	No	Medium	Yes	7.04	9.45	No	
5/19/2011	70	Cloudy	No	None	Yes	4.25	9.20	Yes	
5/27/2011	90	Sunny	No	None	Yes	6.97	9.32	No	Innaccurate reading on bay separator storage water depth
6/2/2011	75	Sunny	No	None	Yes	6.97	9.32	No	Manhole 3-6 not inspected due to safety concerns with vault door not staying open.
6/3/2011	75	Sunny	No	None	Yes	6.99	9.32	No	Manhole 3-6 not inspected due to safety concerns with vault door not staying open.
6/7/2011	65	Rain	No	None	Yes	7.06	9.33	No	No OWS gauging done due to safety concern
6/8/2011	80	Light rain	No	None	Yes	7.06	9.33	No	Manhole 3-6 not inspected due to safety concerns with vault door not staying open.
6/13/2011	70	Cloudy	No	None	Yes	7.11	9.34	No	Manhole 3-6 not inspected due to safety concerns with vault door not staying open.
6/16/2011	75	Overcast	No	None	Yes	4.08	9.34	Yes	Manhole 3-6 not inspected due to safety concerns with vault door not staying open.
6/21/2011	75	Clear	No	None	Yes	7.12	9.34	No	Manhole 3-6 not inspected due to safety concerns with vault door not staying open.
6/23/2011	80	Clear	No	None	Yes	7.05	9.35	No	Manhole 3-6 not inspected due to safety concerns with vault door not staying open.
6/27/2011	80	Clear	No	None	Yes	7.15	9.36	No	Manhole 3-6 not inspected due to safety concerns with vault door not staying open.
6/29/2011	75	Clear	No	None	Yes	7.01	9.34	No	Emulsified oil becoming too viscous, making accurate gauging difficult. Will continue gauging. Data in form as accurate as possible.
7/5/2011	80	Clear	No	None	Yes	7.09	9.32	No	Manhole 3-6 not inspected due to safety concerns with vault door not staying open.
7/8/2011	80	Clear	No	None	Yes	7.11	9.32	No	Manhole 3-6 not inspected due to safety concerns with vault door not staying open.
7/11/2011	80	Clear	No	None	Yes	7.13	9.33	No	Manhole 3-6 not inspected due to safety concerns with vault door not staying open.
7/15/2011	85	Clear	No	None	Yes	7.12	9.32	No	Manhole 3-6 not inspected due to safety concerns with vault door not staying open.
7/18/2011	90	Clear	No	None	Yes	7.88	9.32	No	Manhole 3-6 not inspected due to safety concerns with vault door not staying open.
7/22/2011	90	Cloudy	No	None	Yes	7.17	9.33	No	Manhole 3-6 not inspected due to safety concerns with vault door not staying open.
7/25/2011	85	Clear	No	None	Yes	7.21	9.32	No	Manhole 3-6 not inspected due to safety concerns with vault door not staying open.
7/27/2011	85	Overcast	No	None	Yes	7.14	9.32	No	Manhole 3-6 not inspected due to safety concerns with vault door not staying open. Checked Bay Storage MH LNAPL using bailer, did not give accurate profile due to sludge like thickness and vegetative debris. Approx. 2.5-3' shown in bailer.
8/2/2011	90	sunny	No	None	Yes	7.02	9.33	No	Manhole 3-6 not inspected due to safety concerns with vault door not staying open. OWS pipe showing signs of oil, not measurable. Storage MH LNAPL becoming very thick, difficult to gauge accurate thickness.
8/4/2011	85	sun & clouds	No	None	Yes	7.11	9.33	No	Manhole 3-6 not inspected due to safety concerns with vault door not staying open. OWS pipe showing signs of oil, not measurable. Storage MH LNAPL becoming very thick, difficult to gauge accurate thickness.
8/9/2011	85	cloudy	No	None	Yes	7.13	9.34	No	Manhole 3-6 not inspected due to safety concerns with vault door not staying open. OWS pipe showing signs of oil, not measurable. Storage MH LNAPL becoming very thick, difficult to gauge accurate thickness.
8/11/2011	75	Cloudy	No	None	Yes	7.11	9.35	No	Manhole 3-6 not inspected due to safety concerns with vault door not staying open. OWS pipe showing signs of oil, not measurable. Storage MH LNAPL becoming very thick, difficult to gauge accurate thickness.
8/15/2011	75	Cloudy	No	None	Yes	7.06	9.33	No	Manhole 3-6 not inspected due to safety concerns with vault door not staying open. OWS pipe showing signs of oil, not measurable. Storage MH LNAPL becoming very thick, difficult to gauge accurate thickness.
8/18/2011	80	Clear	No	None	Yes	7.07	9.35	No	Manhole 3-6 not inspected due to safety concerns with vault door not staying open. OWS pipe showing signs of oil, not measurable. Storage MH LNAPL becoming very thick, difficult to gauge accurate thickness.
8/25/2011	70	Clear	No	None	Yes	7.03	9.34	No	Manhole 3-6 not inspected due to safety concerns with vault door not staying open. OWS pipe showing signs of oil, not measurable. Storage MH LNAPL becoming very thick, difficult to gauge accurate thickness.
8/26/2011	70	Clear	No	None	Yes	7.02	9.38	No	Manhole 3-6 not inspected due to safety concerns with vault door not staying open. OWS pipe showing signs of oil, not measurable. Storage MH LNAPL becoming very thick, difficult to gauge accurate thickness.
8/29/2011	75	Cloudy	No	None	Yes	7.1	9.37	No	Manhole 3-6 not inspected due to safety concerns with vault door not staying open. OWS pipe showing signs of oil, not measurable. Storage MH LNAPL becoming very thick, difficult to gauge accurate thickness.
8/30/2011	75	Clear	No	None	Yes	7.09	9.34	No	Manhole 3-6 not inspected due to safety concerns with vault door not staying open. OWS pipe showing signs of oil, not measurable. Storage MH LNAPL becoming very thick, difficult to gauge accurate thickness.

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DATE	WEATHER		OUTFALL 004						ADDITIONAL NOTES
	Temp (+F)	Conditions (rain, etc.)	MH 4-6				MH 4-5		
			Obstructions (Y/N)	Debris Quantity	Flow (Y/N)	Depths		Flow (Y/N)	
					To Water	To Bottom			
9/2/2011									
9/7/2011	50	Overcast	No	None	Yes	7.21	9.36	No	Manhole 3-6 not inspected due to safety concerns with vault door not staying open. OWS pipe showing signs of oil, not measurable. Storage MH LNAPL becoming very thick, difficult to gauge accurate thickness.
9/9/2011	65	Overcast	No	None	Yes	7.19	9.38	No	Manhole 3-6 not inspected due to safety concerns with vault door not staying open. OWS pipe showing signs of oil, not measurable. Storage MH LNAPL becoming very thick, difficult to gauge accurate thickness.
wk of 9/11	see notes	see notes	No	None	Yes	see notes	see notes	No	Manhole 3-6 not inspected due to safety concerns with vault door not staying open. Interface probe not operating, sending in for repair. Will continue inspections with gauging when rental arrives.
9/21/2011	66	Overcast	No	None	Yes	7.21	9.39	No	Manhole 3-6 not inspected due to safety concerns with vault door not staying open. OWS pipe showing signs of oil, not measurable. Storage MH LNAPL becoming very thick, difficult to gauge accurate thickness.
9/23/2011	55	Overcast	No	None	Yes	7.14	9.37	No	Manhole 3-6 not inspected due to safety concerns with vault door not staying open. OWS pipe showing signs of oil, not measurable. Storage MH LNAPL becoming very thick, difficult to gauge accurate thickness.
9/26/2011	65	Rain	No	None	Yes	6.03	9.35	Yes	Manhole 3-6 visually inspected due to safety concerns with vault door not staying open (temp repair). OWS pipe showing signs of oil, not measurable. Storage MH LNAPL becoming very thick, difficult to gauge accurate thickness. Cresting weir at 3-6 due to rain event
10/3/2011									system cleaning began, various problem with blocking lines - will not gauge until after cleaning complete
10/7/2011	65	sunny	No	None	Yes	7.79	9.33	No	No measurements from 3-6 due to safety concerns with vault door
10/11/2011	55	Overcast	No	None	Yes	7.61	9.35	No	No measurements from 3-6 due to safety concerns with vault door
10/21/2011	50	Cloudy	No	None	Yes	7.59	9.33	No	No measurements from 3-6 due to safety concerns with vault door
10/25/2011	50	Cloudy	No	None	Yes*	7.22	9.36	No	Very slow flow if any
10/28/2011	50	Overcast	No	None	Yes*	7.15	9.35	No	Very slow flow if any
10/31/2011	40	Overcast	No	None	Yes*	7.18	9.36	No	EO and trash found in bay separator primary, beginning to get very soft bottom; very slow flow if any in 4-6
11/1/2011	50	Clear	No	None	Yes*	7.17	9.37	No	EO and trash found in bay separator primary, beginning to get very soft bottom; very slow flow if any in 4-6
11/4/2011	30	Clear	No	None	Yes*	7.18	9.35	No	EO and trash found in bay separator primary, beginning to get very soft bottom; very slow flow if any in 4-6
11/7/2011	45	Cloudy	No	None	Yes*	7.18	9.36	No	EO and trash found in bay separator primary, beginning to get very soft bottom; very slow flow if any in 4-6
11/14/2011	42	Overcast	No	None	Yes*	7.09	9.35	No	EO and trash found in bay separator primary, beginning to get very soft bottom; EO in bay saver storage difficult to get accurate tone for gauging; very slow flow if any in 4-6
11/15/2011	40	Clear	No	None	Yes*	7.11	9.35	No	EO and trash found in bay separator primary, beginning to get very soft bottom; EO in bay saver storage difficult to get accurate tone for gauging; very slow flow if any in 4-6
11/22/2011	35	Overcast	No	None	Yes*	7.02	9.37	No	EO and trash found in bay separator primary, beginning to get very soft bottom; EO in bay saver storage difficult to get accurate tone for gauging; very slow flow if any in 4-6
11/30/2011									
12/9/2011	30	Overcast	No	None	Yes*	7.59	9.84	No	EO and trash found in bay separator primary, beginning to get very soft bottom; very slow flow if any in 4-6
12/12/2011	30	Overcast	No	None	Yes*	7.55	9.84	No	EO and trash found in bay separator primary, beginning to get very soft bottom; very slow flow if any in 4-6
12/22/2011	35	Clear	No	None	Yes*	7.58	9.83	No	EO and trash found in bay separator primary, beginning to get very soft bottom; very slow flow if any in 4-6
12/28/2011	258	Clear	No	None	Yes*	7.59			EO and trash found in bay separator primary, beginning to get very soft bottom; very slow flow if any in 4-6

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