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ENVIRONMENT

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

Date:
January 13, 2011

Contact:
Christopher S. Peters, P.G.

Phone:
810.225.1905

Email:
chris.peters@arcadis-us.c

Our ref:
B0064410.2011 #5

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.

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 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

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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

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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

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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