MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY – REMEDIATION DIVISION
PO BOX 30426, LANSING, MICHIGAN 48909-7926, Phone 517-373-9837, Fax 517-373-2637

Request for DEQ Review of Response Activity Plan

This form is required for submittal of a request for the DEQ to review a Response Activity Plan, under Section 20114b, Part 201, Environmental Remediation, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended.

Type of Response Activity Plan being Submitted:

Remedial Investigation	☐	Site Specific Criteria	☐
Evaluation Plan	☐	Mixing Zone	☐
Feasibility Study	☐	Section 20118(5) and (6) Request	☐
Remedial Action Plan	☐	Institutional Controls	☐
Interim Response Plan	☐	Due Care Plan	☐
Other, Specify: 2013 Post Corrective Action Activities Update Memorandum			

Facility Information:

Facility Name: Employee Development Center Site

Physical Address of Property: 65 E University Drive

City: Pontiac State: Michigan Zip: 48342

Property Tax ID (include all applicable IDs): 14-29-428-002, 14-29-284-008, 14-29-284-007

Submitter Information:

Entity/person requesting review: Revitalizing Auto Communities Environment Response Trust (RACER Trust)

Contact Person (name and title): David Favero, Deputy Cleanup Manager - Michigan

Submitter Address: RACER Trust, 500 Woodward Ave, Suite 1510

City: Detroit State: Michigan Zip: 48226

Telephone: 217.741.6235 E-Mail: dfavero@racertrust.org

Relationship of contact person to the submitter: Deputy Cleanup Manager - Michigan

Submitter is Owner of the Property	☐	Submitter is Operator of the Property	☒
Submitter is Not Owner of the Property	☒	Submitter is Not Operator of the Property	☐

Owner Name: RACER Properties LLC Company: RACER Trust

Address: 500 Woodward Ave, Suite 1510 City: Detroit State: Michigan Zip: 48226

Telephone: 217.741.6235 E-Mail: dfavero@racertrust.org

Submitter's Consultant Information:

Name: Jason Lagowski, P.G.

Title: Principal Geologist

Organization/Company: ARCADIS G&M of Michigan, LLC

Consultant Address: 10559 Citation Drive, Suite 100 City: Brighton State: Michigan Zip: 48116

Telephone: 810.225.1962 E-Mail: jason.lagowski@arcadis-us.com

Locational Data:

County: Oakland City/Village/Township: Pontiac

Town: 28 North Range: 5 East Section: 29 Quarter: Southeast Quarter-Quarter:

Decimal Degrees Latitude: 42° 38' 26.70" Decimal Degrees Longitude: -83° 17' 24.97"

Reference Point for Latitude and Longitude:
Center of site ☒ Main/front door ☐ Front gate/main entrance ☐ Other ☐

Collection Method:
Survey ☐ GPS ☐ Interpolation ☒

Request for DEQ Review of Response Activity Plan

The following questions assist DEQ in evaluating the Response Activity Plan Submittal:

Known or Suspected Contaminant(s) Type (Check all that apply):

Petroleum ☒ Volatile Organic Compounds ☒ Metals ☒ Other ☐

Current Site Status (Check all that apply):

Undergoing property transfer ☐ Active operations ☐ Inactive operation ☒

Current Property Use:

Residential/Institutional (including schools, nursing homes, hospitals, etc.) ☐
Non-residential ☒

Anticipated Property Use:

Residential/Institutional (including schools, nursing homes, hospitals, etc.) ☐
Non-residential ☒

Estimated Area of Contamination Addressed in Response Action Plan (Cumulative):

Currently undetermined ☐ < 0.5 acre ☒ > 0.5 acre ☐

Migration:

	Yes	No	Unknown
Has contamination migrated beyond the property boundaries?	☒	☐	☐
Has the Notice of Migration been submitted?	☒	☐	☐

Facility Investigation Status:

Ongoing ☒ Complete ☐

Facility Response Activity Status (Check all that apply):

None ☐ IR Implemented ☐ Response Activity Ongoing ☐ Response Activity Completed ☒

Drinking Water Supply for Facility (Check all that apply):

Municipal ☐ Private Well(s) ☐ No Current Water Supply ☐ Municipal Available ☒

On-site Well(s) (Check all that apply):

Drinking Water ☐ Industrial/Commercial Production ☐ Agricultural/Irrigation ☐ No well on-site ☒
Approximate Depth of Well(s):

Local Drinking Water Supply:

Is facility in a designated Wellhead Protection Area? Yes ☐ No ☒
Distance to nearest off-site drinking water well: Private (~2.0 miles SW) ☐ Municipal (~5.0 miles ENE) ☐

Surface Water Bodies on or Adjacent to Facility (Check all that apply):

Wetlands ☐ Ditch ☐ Stream/River (on-site underground enclosed in two pipes: Augusta Relief Drain) ☒ Lake/Pond ☐

Local Surface Water Bodies:

Distance to nearest wetland: Ditch: Stream/River: Augusta Relief Drain underground within enclosed piping on-site, emerges ~200 ft SE - Clinton River Lake/Pond:

Have other plans been submitted for this facility?

Facility Name, if different than this submittal: Former GM Employee Development Center Site
Date and Name of most recent submittal: December 6, 2011 – Part 201 Excavation and Monitoring Work Plan; September 10, 2013 - Post Part 201 Corrective Action Activities Summary Report

Facility/Property Subject to (Check all that apply):

Consent Agreement or other legal agreement with DEQ	☒
Corrective Action under Part 111 or RCRA (Hazardous Waste)	☐
Part 115 (Solid Waste)	☐
Part 615 (Oil & Gas)	☐
Part 201 (Environmental Remediation)	☒
Part 213 (Leaking Underground Storage Tanks)	☐

Request for DEQ Review of Response Activity Plan

Are/were the following present at the facility (Check all that apply):	Current	Previous	Unknown
Free product	☐	☒	☐
Free phase liquid	☐	☒	☐
Soil contamination above any residential criteria	☒	☐	☐
Soil contamination above any non-residential criteria	☒	☐	☐
Soil aesthetic impacts	☐	☒	☐
Groundwater contamination above any residential criteria	☒	☐	☐
Groundwater contamination above any non-residential criteria	☒	☐	☐
Groundwater contamination above the Acute Inhalation Screening Level	☐	☒	☐
Groundwater aesthetic impacts	☐	☐	☐
Soil Gas contamination above residential screening levels	☐	☐	☐
Soil Gas contamination above non-residential screening levels	☐	☐	☐
Conditions immediately dangerous to life or health (IDLH)	☐	☐	☐
Fire & Explosion hazards related to releases	☐	☐	☐
Contamination existing in drinking water supply	☐	☐	☐
Imminent threat to drinking water supply	☐	☐	☐
Environmental Media Known to be Affected			
Soil	☒	☐	☐
Groundwater	☒	☐	☐
Soil Vapor	☐	☐	☐
Surface Water	☐	☐	☐
Surface Water Sediments	☐	☐	☐

Environmental Professional Signature:

With my signature below, I certify that this plan and all related materials are true, accurate, and complete to the best of my knowledge and belief. I understand that intentionally submitting false information in a plan is a felony and may result in fines of up to $25,000 for each violation.

Signature: [signature] Date: 11-12-13

Printed Name: Jason Lagowski, P.G.

Company of Environmental Professional: ARCADIS G&M of Michigan, LLC

Address: 10559 Citation Drive, Suite 100

City: Brighton State: Michigan Zip: 48116

Telephone: 810.225.1962E-mail address: jason.lagowski@arcadis-us.com

Submitter Signature:

With my signature below, I certify that this plan and all related materials are true, accurate, and complete to the best of my knowledge and belief and I am legally authorized to sign for the submitter. I understand that intentionally submitting false information in a plan is a felony and may result in fines of up to $25,000 for each violation.

Signature: David Favero Date: 12 Nov 2013

Printed name: David Favero

Title/Relationship of signatory to submitter: Deputy Cleanup Manager - Michigan

Address: 500 Woodward Ave, Suite 1510

City: Detroit State: Michigan Zip: 48226

Telephone: 217.741.6235 E-Mail address: dfavero@racertrust.org

This form and the response activity plan should be submitted to the DEQ Remediation Division District Office unless the response activity is related to a facility that is regulated by another DEQ Division. If regulated by another division, contact should be made with that division for information on where to submit the form and plan.

ARCADIS G&M of Michigan, LLC
10559 Citation Drive
Suite 100
Brighton
Michigan 48116
Tel 810 229 8594
Fax 810 229 8837

MEMO

To:
Richard Berak
MDEQ – Remediation Division
Southeast Michigan District Office
27700 Donald Court
Warren, MI 48092

Copies:
Dave Favero, RACER
Brighton File

From:
Brad Saunders

Date:
November 12, 2013

ARCADIS Project No.:
B0064486.2013.00003

Subject:
Employee Development Center Site - 2013 Post Corrective Action Activities Update Memorandum

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ARCADIS G&M of Michigan, LLC (ARCADIS) has prepared this memorandum on behalf of Revitalizing Auto Communities Environmental Response Trust (RACER) for Part 201 Corrective Action activities being completed at the Employee Development Center (EDC) located at 65 East University Drive in Pontiac, Michigan (Site) (see **Figure 1**). The purpose of this memorandum is to transmit scaled cross sectional drawings and 3rd quarter groundwater sampling results which were previously provided to MDEQ during the October 17, 2013 meeting between the MDEQ, RACER, and ARCADIS. It is also request approval for proposed 1st quarter 2014 groundwater and storm sewer sampling activities.

Scaled Cross Sectional Diagrams

Following the post-corrective action activities, ARCADIS updated the cross sections to depict the current conditions at the Site. The locations of the cross-sections are depicted on **Figure 2a** and the cross sections are presented as **Figures 2b** through **2d**.

2013 3rd Quarter Groundwater Monitoring

On September 17 through September 20, 2013, ARCADIS collected groundwater samples from all the monitoring wells located at the Site. Sampling methods, techniques and analytical parameters were identical to the 1st and 2nd groundwater sampling events completed in 2013. Locations of the groundwater monitoring wells are shown on **Figure 1**. Updated groundwater elevations are shown on **Table 1,** while approximate groundwater flow direction for September 2013 is shown on **Figure 3**. Groundwater

analytical results are included as **Table 2** and depicted on **Figure 4**. Laboratory analytical reports are included as **Appendix A.**

Gauging data indicate that groundwater flow remains radial from a mound in the vicinity of the former gasoline UST area. The groundwater analytical results indicate the following:

- MW-24D: GW exceeds Part 201 Non-Residential Drinking Water (NRDW), Groundwater Surface Water Interface (GSI), and Groundwater Contact (GC) Criteria for benzene. Additionally, concentrations of one or more analytes exceed Part 201 NRDW and/or GSI for groundwater.
- MW-5, MW-12, and MW-27: GW exceeds NRDW Criteria for trichloroethene only.
- MW-8 and MW-26: GW exceeds the Part 201 NRDW and GSI Criteria for one or more analytes.
- MW-2, MW-4, MW-9, MW-10, MW-11, MW-13, MW-14, MW-16, MW-17, MW-18, MW-19, MW-20, MW-21, MW-22, MW-23, MW-24S, MW-25, MW-28, MW-29, MW-30, and MW-31: GW below Part 201 Generic Cleanup Criteria and/or laboratory method detection limits.

2014 1st Quarter Proposed Activities

On behalf of RACER and consistent with correspondence during our October 17, 2013 meeting with MDEQ, ARCADIS proposes to conduct an additional groundwater sampling event and a storm sewer sampling event during the first quarter of 2014.

The proposed 1st quarter 2014 groundwater sampling event will be identical in scope and methods to the three quarterly groundwater sampling events completed in 2013 and will include sampling all existing on-site and off-site monitoring wells (**Figure 1**). The purpose of the event will be to further evaluate the extent to which groundwater impacts are non-detect, stable or decreasing.

To evaluate the GSI pathway and potential for site contaminants to be migrating into the storm sewer system, ARCADIS is proposing to grab samples from four storm sewer manhole locations (highlighted green in **Figure 1**). Manhole locations were selected based manholes existing closest to the impacted area at the Site (this is within the Mill Street right-of-way), as well as upgradient and downgradient locations. The closest storm sewer manhole to the impacted area is located approximately 275 feet of MW-26. ARCADIS is in the process of obtaining maps from the City of Pontiac to confirm the locations and depths of the storm sewers in the area of the Site. ARCADIS will notify MEDQ in the event that feedback from the City results in a change to proposed sampling/manhole locations. Storm sewer grab samples will be analyzed for VOCs via USEPA Method 8260.

Enclosures:

Table 1: Groundwater Level & Elevation Data
Table 2: Groundwater Analytical Data
Figure 1: Site Map
Figure 2a: Cross Section Location Map
Figure 2b: Geologic Cross Section A-A' (North-South)
Figure 2c: Geologic Cross Section B-B' (West-East)
Figure 2d: Geologic Cross Section C-C' (West-East)
Figure 3: Groundwater Elevation and Flow Map (September 2013)
Figure 4: Groundwater Analytical Map
Attachment 1: Laboratory Analytical Reports

ARCADIS

Tables

TABLE 1

FORMER GM EMPLOYEE DEVELOPMENT CENTER
65 EAST UNIVERSITY
PONTIAC, MICHIGAN

GROUNDWATER LEVEL AND ELEVATION DATA

Monitoring/Extraction Well ID	Top of Casing Elevation	Date	Depth to Product (feet bgs)	Depth to Groundwater (feet bgs)	Product Thickness (feet)	Groundwater Elevation (feet bgs)*
EW-1 (3-13')	916.91	12/11/2006	NP	3.76	NP	913.15
	916.91	1/5/2007	NP	3.21	NP	913.70
	916.91	9/25/2007	NP	4.02	NP	912.89
	916.91	7/28/2008	NP	3.37	NP	913.54
	916.91	10/20/2008	NP	3.63	NP	913.28
	916.91	11/1/2010	Well was destroyed during building demolition activities			
EW-2 (4-14')	916.63	9/25/2007	NP	4.77	NP	911.86
	916.63	7/28/2008	3.92	4.22	0.30	912.94
	916.63	9/18/2008	4.62	4.82	0.20	912.16
	916.63	10/20/2008	4.31	4.54	0.23	912.49
	916.63	11/19/2008	4.31	4.34	0.03	912.34
	916.63	12/4/2008	4.40	4.43	0.03	912.25
	916.63	12/17/2008	NP	4.03	NP	912.60
	916.63	11/1/2010	3.86	3.90	0.04	912.80
	916.63	2/28/2011	NP	2.28	NP	914.35
	916.63	1/28/2013	Well was abandoned prior to the June 2012 excavation activities			
MW-2 (3-13')	917.46	12/11/2006	NP	6.07	NP	911.39
	917.46	1/5/2007	NP	5.36	NP	912.10
	917.46	9/25/2007	NP	7.20	NP	910.26
	917.46	2/8/2008	NM	NM	NM	NM
	917.46	7/28/2008	NP	6.66	NP	910.80
	917.46	11/1/2010	NP	7.73	NP	909.73
	917.46	12/2/2010	NP	7.35	NP	910.11
	917.46	1/28/2013	NP	7.22	NP	910.24
	917.46	6/24/2013	NP	5.95	NP	911.51
	917.46	9/17/2013	NP	7.34	NP	910.12
MW-3 (5-15')	916.90	12/11/2006	NP	5.01	NP	911.89
	916.90	1/5/2007	NP	4.96	NP	911.94
	916.90	9/25/2007	NP	5.48	NP	911.42
	916.90	2/8/2008	NP	4.32	NP	912.58
	916.90	7/28/2008	NP	4.95	NP	911.95
	916.90	11/1/2010	NP	4.89	NP	912.01
	916.90	12/2/2010	NP	4.35	NP	912.55
	916.90	1/28/2013	Well was abandoned prior to the June 2012 excavation activities			
MW-4 (3-13')	912.78	12/11/2006	NP	2.57	NP	910.21
	912.78	1/5/2007	NP	1.95	NP	910.83
	912.78	9/25/2007	NP	3.64	NP	909.14
	912.78	2/8/2008	NP	1.75	NP	911.03
	912.78	7/28/2008	NP	2.71	NP	910.07
	912.78	11/1/2010	NP	4.35	NP	908.43
	912.78	12/2/2010	NP	2.85	NP	909.93
	912.78	1/28/2013	NP	3.35	NP	909.43
	912.78	6/24/2013	NP	2.65	NP	910.13
	912.78	9/17/2013	NP	3.92	NP	908.86

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FORMER GM EMPLOYEE DEVELOPMENT CENTER
65 EAST UNIVERSITY
PONTIAC, MICHIGAN

GROUNDWATER LEVEL AND ELEVATION DATA

Monitoring/Extraction Well ID	Top of Casing Elevation	Date	Depth to Product (feet bgs)	Depth to Groundwater (feet bgs)	Product Thickness (feet)	Groundwater Elevation (feet bgs)*
MW-5 (7-17')	916.14	12/11/2006	NP	10.35	NP	905.79
	916.14	1/5/2007	NP	10.23	NP	905.91
	916.14	9/25/2007	NP	9.51	NP	906.63
	916.14	2/8/2008	NP	8.84	NP	907.30
	916.14	7/28/2008	NP	9.83	NP	906.31
	916.14	11/1/2010	NP	6.83	NP	909.31
	916.14	12/2/2010	NP	5.40	NP	910.74
	916.14	1/28/2013	NP	5.12	NP	911.02
	916.14	6/24/2013	NP	4.01	NP	912.13
	916.14	9/17/2013	NP	4.68	NP	911.46
MW-6 (3-13')	916.66	9/25/2007	NP	2.76	NP	913.90
	916.66	2/8/2008	NP	2.46	NP	914.20
	916.66	7/28/2008	NP	2.29	NP	914.37
	916.66	11/1/2010	NP	2.62	NP	914.04
	916.66	12/2/2010	NP	2.45	NP	914.21
	916.66	1/28/2013	Well was abandoned prior to the June 2012 excavation activities			
MW-7 (5-15')	916.48	9/25/2007	NP	5.80	NP	910.68
	916.48	2/8/2008	NP	5.36	NP	911.12
	916.48	7/28/2008	NP	4.83	NP	911.65
	916.48	11/1/2010	NP	4.11	NP	912.37
	916.48	12/2/2010	NP	4.00	NP	912.48
	916.48	1/28/2013	Well was abandoned prior to the June 2012 excavation activities			
MW-8 (8-18')	916.66	9/25/2007	NP	9.31	NP	907.35
	916.66	2/8/2008	NP	9.13	NP	907.53
	916.66	7/28/2008	NP	9.03	NP	907.63
	916.66	11/1/2010	NP	6.28	NP	910.38
	916.66	12/2/2010	NP	5.40	NP	911.26
	916.66	1/28/2013	NP	3.95	NP	912.71
	916.66	6/24/2013	NP	3.22	NP	913.44
	916.66	9/17/2013	NP	3.64	NP	913.02
MW-9 (3-13')	915.19	9/25/2007	NP	7.13	NP	908.06
	915.19	2/8/2008	NP	NM	NP	NM
	915.19	7/28/2008	NP	6.55	NP	908.64
	915.19	11/1/2010	NP	6.35	NP	908.84
	915.19	12/2/2010	NP	5.15	NP	910.04
	915.19	1/28/2013	NP	5.02	NP	910.17
	915.19	6/24/2013	NP	4.43	NP	910.76
	915.19	9/17/2013	NP	5.20	NP	909.99

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FORMER GM EMPLOYEE DEVELOPMENT CENTER
65 EAST UNIVERSITY
PONTIAC, MICHIGAN

GROUNDWATER LEVEL AND ELEVATION DATA

Monitoring/Extraction Well ID	Top of Casing Elevation	Date	Depth to Product (feet bgs)	Depth to Groundwater (feet bgs)	Product Thickness (feet)	Groundwater Elevation (feet bgs)*
MW-10 (6-16')	918.71	9/25/2007	NP	10.56	NP	908.15
	918.71	2/8/2008	NM	NM	NM	NM
	918.71	7/28/2008	NP	10.19	NP	908.52
	918.71	11/1/2010	NP	11.62	NP	907.09
	918.71	12/2/2010	NP	11.00	NP	907.71
	918.71	1/28/2013	NP	10.59	NP	908.12
	918.71	6/24/2013	NP	8.45	NP	910.26
	918.71	9/17/2013	NP	10.04	NP	908.67
MW-11 (9-19')	916.50	9/25/2007	NP	12.03	NP	904.47
	916.50	2/8/2008	NP	12.65	NP	903.85
	916.50	7/28/2008	NP	11.79	NP	904.71
	916.50	11/1/2010	NP	7.00	NP	909.50
	916.50	12/2/2010	NP	5.85	NP	910.65
	916.50	1/28/2013	NP	4.80	NP	911.70
	916.50	6/24/2013	NP	4.05	NP	912.45
	916.50	9/17/2013	NP	4.04	NP	912.46
MW-12 (9-19')	916.10	9/25/2007	10.02	10.03	0.01	906.09
	916.10	2/8/2008	NP	9.33	NP	906.77
	916.10	7/28/2008	NP	10.43	NP	905.67
	916.10	11/1/2010	NP	6.40	NP	909.70
	916.10	12/2/2010	NP	4.65	NP	911.45
	916.10	1/28/2013	NP	4.24	NP	911.86
	916.10	6/24/2013	NP	3.30	NP	912.80
	916.10	9/17/2013	NP	3.93	NP	912.17
MW-13 (8-18')	915.12	2/8/2008	NP	4.76	NP	910.36
	915.12	7/28/2008	NP	4.85	NP	910.27
	915.12	11/1/2010	NP	5.91	NP	909.21
	915.12	12/2/2010	NP	5.25	NP	909.87
	915.12	1/28/2013	NP	5.25	NP	909.87
	915.12	6/24/2013	NP	4.46	NP	910.66
	915.12	9/17/2013	NP	5.58	NP	909.54
MW-14 (5-15')	915.34	2/8/2008	NP	4.96	NP	910.38
	915.34	7/28/2008	NP	4.98	NP	910.36
	915.34	11/1/2010	NP	5.97	NP	909.37
	915.34	12/2/2010	NP	5.60	NP	909.74
	915.34	1/28/2013	NP	5.25	NP	910.09
	915.34	6/24/2013	NP	4.62	NP	910.72
	915.34	9/17/2013	NP	5.88	NP	909.46

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FORMER GM EMPLOYEE DEVELOPMENT CENTER
65 EAST UNIVERSITY
PONTIAC, MICHIGAN

GROUNDWATER LEVEL AND ELEVATION DATA

Monitoring/Extraction Well ID	Top of Casing Elevation	Date	Depth to Product (feet bgs)	Depth to Groundwater (feet bgs)	Product Thickness (feet)	Groundwater Elevation (feet bgs)*
MW-15 (4-14')	916.78	2/8/2008	NP	2.47	NP	914.31
	916.78	7/28/2008	NP	1.52	NP	915.26
	916.78	11/1/2010	NP	3.26	NP	913.52
	916.78	12/2/2010	NP	1.45	NP	915.33
	916.78	1/28/2013	Well was abandoned prior to the June 2012 excavation activities			
MW-16 (4-9')	918.37	2/8/2008	NP	8.99	NP	909.38
	918.37	7/28/2008	NP	2.41	NP	915.96
	918.37	11/1/2010	NP	3.33	NP	915.04
	918.37	12/2/2010	NP	7.23	NP	911.14
	918.37	1/28/2013	NP	2.77	NP	915.60
	918.37	6/24/2013	NP	1.93	NP	916.44
	918.37	9/17/2013	NP	2.54	NP	915.83
MW-17 (2-7')	916.99	2/8/2008	NM	NM	NM	NM
	916.99	7/28/2008	NP	1.92	NP	915.07
	916.99	11/1/2010	NP	3.36	NP	913.63
	916.99	12/2/2010	NP	1.53	NP	915.46
	916.99	1/28/2013	NP	3.48	NP	913.51
	916.99	6/24/2013	NP	2.12	NP	914.87
	916.99	9/17/2013	NP	2.11	NP	914.88
MW-18 (4-14')	916.43	2/8/2008	NP	6.12	NP	910.31
	916.43	7/28/2008	NP	5.85	NP	910.58
	916.43	11/1/2010	NP	6.81	NP	909.62
	916.43	12/2/2010	NP	7.43	NP	909.00
	916.43	1/28/2013	NP	6.09	NP	910.34
	916.43	6/24/2013	NP	5.26	NP	911.17
	916.43	9/17/2013	NP	6.40	NP	910.03
MW-19 (3-13')	917.38	12/2/2010	NP	4.21	NP	913.17
	917.38	1/28/2013	NP	5.63	NP	911.75
	917.38	6/24/2013	NP	4.87	NP	912.51
	917.38	9/17/2013	NP	6.02	NP	911.36
MW-20 (3-13')	917.44	12/2/2010	NP	7.15	NP	910.29
	917.44	1/28/2013	NP	7.05	NP	910.39
	917.44	6/24/2013	NP	6.67	NP	910.77
	917.44	9/17/2013	NP	7.51	NP	909.93
MW-21 (5.5-10.5')	917.42	1/28/2013	NP	3.77	NP	913.65
	917.42	6/24/2013	NP	2.75	NP	914.67
	917.42	9/17/2013	NP	3.81	NP	913.61

TABLE 1

FORMER GM EMPLOYEE DEVELOPMENT CENTER
65 EAST UNIVERSITY
PONTIAC, MICHIGAN

GROUNDWATER LEVEL AND ELEVATION DATA

Monitoring/Extraction Well ID	Top of Casing Elevation	Date	Depth to Product (feet bgs)	Depth to Groundwater (feet bgs)	Product Thickness (feet)	Groundwater Elevation (feet bgs)*
MW-22 (4-14')	917.44	1/28/2013	NP	4.12	NP	913.32
	917.44	6/24/2013	NP	2.71	NP	914.73
	917.44	9/17/2013	NP	3.97	NP	913.47
MW-23 (3-13')	916.7	1/28/2013	NP	2.78	NP	913.92
	916.7	6/24/2013	NP	2.10	NP	914.60
	916.7	9/17/2013	NP	3.14	NP	913.56
MW-24S (4-9')	916.56	1/28/2013	NP	3.67	NP	912.89
	916.56	6/24/2013	NP	2.82	NP	913.74
	916.56	9/17/2013	NP	3.50	NP	913.06
MW-24D (15-20')	917.37	1/28/2013	NP	4.25	NP	913.12
	917.37	6/24/2013	NP	3.44	NP	913.93
	917.37	9/17/2013	NP	3.95	NP	913.42
MW-25 (4-14')	915.68	1/28/2013	NP	5.25	NP	910.43
	915.68	6/24/2013	NP	4.71	NP	910.97
	915.68	9/17/2013	NP	5.91	NP	909.77
MW-26 (3-13')	916.67	1/28/2013	NP	3.49	NP	913.18
	916.67	6/24/2013	NP	3.43	NP	913.24
	916.67	9/17/2013	NP	3.64	NP	913.03
MW-27 (6.5-16.5')	916.75	1/28/2013	NP	8.11	NP	908.64
	916.75	6/24/2013	NP	6.83	NP	909.92
	916.75	9/17/2013	NP	6.67	NP	910.08
MW-28 (4-9')	917.01	1/28/2013	NP	3.19	NP	913.82
	917.01	6/24/2013	NP	2.65	NP	914.36
	917.01	9/17/2013	NP	3.40	NP	913.61
MW-29 (4.5-9.5')	918.48	1/28/2013	NP	6.67	NP	911.81
	918.48	6/24/2013	NP	5.11	NP	913.37
	918.48	9/17/2013	NP	6.56	NP	911.92
MW-30 (3-13')	917.38	1/28/2013	NP	5.15	NP	912.23
	917.38	6/24/2013	NP	3.35	NP	914.03
	917.38	9/17/2013	NP	4.28	NP	913.10
MW-31 (3-8')	915.11	1/28/2013	NP	6.11	NP	909.00
	915.11	6/24/2013	NP	5.47	NP	909.64
	915.11	9/17/2013	NP	5.97	NP	909.14

Notes:
1. Elevations are based on feet above the North American Vertical Datum of 1988 (NAVD88).
2. Coordinates are on the Michigan State Plane Coordinate System.

3. Elevations and coordinates were determined during surveys completed on December 11, 2006, February 12, 2008, and November 1, 2010 .

NM = Well was not measured
NP = No product
* = Groundwater elevation was corrected for the presence of free product where applicable.

TABLE 2

FORMER GM EMPLOYEE DEVELOPMENT CENTER
65 EAST UNIVERSITY
PONTIAC, MICHIGAN

GROUNDWATER ANALYTICAL DATA

Sample ID:	Units	Michigan Groundwater Cleanup Criteria and Risk Based Screening Levels					B-1 Outside SE of Building in Paved Lot	B-2 Outside East-SE Corner of Building - Boiler Room Sump Area	B-3 Outside East-SE Side of Building - Boiler Room Sump & Elevator Lift Area	B-4 Outside East Side of Building - Elevator Lift Area	B-5 Outside East-NE Side of Building - Former Service / Hydraulic Lift Area	B-6 Inside Northeast Portion of Building Near Hydraulic Lift South of Dispenser Area	B-7 Inside Northeast Portion of Building Near Hydraulic Lift Further South	B-8 Inside Northwest Portion of Building Near Hydraulic Lift	B-9 Inside Northwest Portion of Building Near Hydraulic Lift Further South	B-10 Outside West Side of Building - Vicinity of Hydraulic Lift	B-11 Outside West Side of Building - Vicinity of Hydraulic Lift	B-12 Outside West-NW Side of Building - Oil-Sand Separator
		Non-Residential Drinking Water Protection Criteria & RBSLs	Groundwater Surface Water Interface Criteria & RBSLs	Non-Residential Groundwater Volatilization to Indoor Air Inhalation Criteria & RBSLs	Groundwater Contact Criteria & RBSLs	Flammability and Explosivity Screening Level												
Date Collected:							11/8/2006	11/8/2006	11/8/2006	11/8/2006	11/8/2006	NS***	11/30/2006	11/30/2006	11/30/2006	11/8/2006	11/8/2006	11/8/2006
Screened Interval (feet bgl):							NA	10-15	NA	5-10	NA	NA	3-8	7-12	7-12	NA	NA	10-15
Analytical Parameter																		
TPH (EPA Method 418.1)	mg/L	none	none	none	none	none	NS **	0.9	NS **	0.9	NS *	NS***	**8.3**	NS****	**7.7**	NS *	NS **	< 0.5
Semivolatile Hydrocarbons (EPA Method 8015B)																		
Gasoline Range Organics	mg/L	none	none	none	none	none	NS **	NS	NS**	NS	NS*	NS***	NS	NS****	NS	NS*	NS**	NS
Diesel Range Organics	mg/L	none	none	none	none	none	NS **	NS	NS**	NS	NS*	NS***	NS	NS****	NS	NS*	NS**	NS
Fuel Oil	mg/L	none	none	none	none	none	NS **	NS	NS**	NS	NS*	NS***	NS	NS****	NS	NS*	NS**	NS
Hydraulic Fluid	mg/L	none	none	none	none	none	NS **	NS	NS**	NS	NS*	NS***	NS	NS****	NS	NS*	NS**	NS
Kerosene	mg/L	none	none	none	none	none	NS **	NS	NS**	NS	NS*	NS***	NS	NS****	NS	NS*	NS**	NS
Mineral Spirits	mg/L	none	none	none	none	none	NS **	NS	NS**	NS	NS*	NS***	NS	NS****	NS	NS*	NS**	NS
Motor Oil	mg/L	none	none	none	none	none	NS **	NS	NS**	NS	NS*	NS***	NS	NS****	NS	NS*	NS**	NS
PAH (EPA Method 8310)																		
1-Methylnaphthalene	ug/L	none	none	none	none	none	NS **	NA	NS **	NA	NS *	NS***	20	NS****	14	NS *	NS **	NA
2-Methylnaphthalene	ug/L	750	19	25,000 (S)	25,000 (S)	ID	NS **	NA	NS **	NA	NS *	NS***	**35**	NS****	**23**	NS *	NS **	NA
Acenaphthene	ug/L	3,800	38	4,200 (S)	4,200 (S)	ID	NS **	NA	NS **	NA	NS *	NS***	0.48	NS****	0.16	NS *	NS **	NA
Acenapthylene	ug/L	150	ID	3,900 (S)	3,900 (S)	ID	NS **	NA	NS **	NA	NS *	NS***	0.87	NS****	0.15	NS *	NS **	NA
Anthracene	ug/L	43 (S)	ID	43 (S)	43 (S)	ID	NS **	NA	NS **	NA	NS *	NS***	<0.17	NS****	<0.14	NS *	NS **	NA
Benz(a)anthracene	ug/L	8.5	ID	NLV	9.4 (S,AA)	ID	NS **	NA	NS **	NA	NS *	NS***	<0.17	NS****	0.28	NS *	NS **	NA
Benzo(a)pyrene	ug/L	5.0 (A)	ID	NLV	1.0 (M,AA); 0.64	ID	NS **	NA	NS **	NA	NS *	NS***	<0.17	NS****	<0.14	NS *	NS **	NA
Benzo(b)fluoranthene	ug/L	1.5 (S, AA)	ID	ID	1.5 (S,AA)	ID	NS **	NA	NS **	NA	NS *	NS***	<0.17	NS****	<0.14	NS *	NS **	NA
Benzo(g,h,i)perylene	ug/L	1.0 (M); 0.26 (S)	NA	NLV	1.0 (M,AA); 0.26 (S)	ID	NS **	NA	NS **	NA	NS *	NS***	<0.17	NS****	<0.14	NS *	NS **	NA
Benzo(k)fluoranthene	ug/L	1.0 (M); 0.8 (S)	NA	NLV	1.0 (M,AA); 0.8 (S)	ID	NS **	NA	NS **	NA	NS *	NS***	<0.17	NS****	<0.14	NS *	NS **	NA
Chrysene	ug/L	1.6 (S)	ID	ID	1.6 (S,AA)	ID	NS **	NA	NS **	NA	NS *	NS***	<0.17	NS****	<0.14	NS *	NS **	NA
Dibenzo(a,h)anthracene	ug/L	2.0 (M); 0.85	ID	NLV	2.0 (M,AA); 0.31	ID	NS **	NA	NS **	NA	NS *	NS***	<0.17	NS****	<0.14	NS *	NS **	NA
Fluoranthene	ug/L	210 (S)	1.6	210 (S)	210 (S)	ID	NS **	NA	NS **	NA	NS *	NS***	<0.17	NS****	<0.14	NS *	NS **	NA
Fluorene	ug/L	2,000 (S)	12	2,000 (S)	2,000 (S)	ID	NS **	NA	NS **	NA	NS *	NS***	<0.17	NS****	<0.14	NS *	NS **	NA
Indeno(1,2,3-cd)pyrene	ug/L	2.0 (M); 0.022 (S)	ID	NLV	2.0 (M, AA); 0.022 (S)	ID	NS **	NA	NS **	NA	NS *	NS***	<0.17	NS****	<0.14	NS *	NS **	NA
Naphthalene	ug/L	1,500	11	31,000 (S)	31,000 (S)	NA	NS **	NA	NS **	NA	NS *	NS***	**100**	NS****	**36**	NS *	NS **	NA
Phenanthrene	ug/L	150	2.0 (M); 1.4	1,000 (S)	1,000 (S)	ID	NS **	NA	NS **	NA	NS *	NS***	0.46	NS****	0.29	NS *	NS **	NA
Pyrene	ug/L	140 (S)	ID	140 (S)	140 (S)	ID	NS **	NA	NS **	NA	NS *	NS***	0.31	NS****	<0.14	NS *	NS **	NA
Other Target PAHs	ug/L	various	various	various	various	various	NS **	NA	NS **	NA	NS *	NS***	ND	NS****	ND	NS *	NS **	NA
VOCs (EPA Method 8260)																		
1,1,1-Trichloroethane	ug/L	200 (A)	200	1.3E+06 (S)	1.3E+06 (S)	ID	NS **	<5	NS **	<5	NS *	NS***	<5	<5	<5	NS *	NS **	<5
1,1,2,2-Tetrachloroethane	ug/L	35	78 (X)	77,000	4,700	ID	NS **	<5	NS **	<5	NS *	NS***	<5	<5	<5	NS *	NS **	<5
1,1,2-Trichloroethane	ug/L	5.0 (A)	330 (X)	1.10E+05	21,000	NA	NS **	<5	NS **	<5	NS *	NS***	<5	<5	<5	NS *	NS **	<5
1,1-Dichloroethane	ug/L	2,500	740	2.30E+06	2.40E+06	3.80E+05	NS **	<5	NS **	<5	NS *	NS***	<5	<5	<5	NS *	NS **	<5
1,1-Dichloroethene	ug/L	7.0 (A)	65 (X)	1,300	11,000	97,000	NS **	<5	NS **	<5	NS *	NS***	<5	<5	<5	NS *	NS **	<5
1,2,4-Trimethylbenzene	ug/L	63 (E)	17	56,000 (S)	56,000 (S)	56,000 (S)	NS**	NA	NS**	NA	NS*	NS***	**970**	<5	**1200**	NS*	NS**	NA
1,2-Dichloroethane	ug/L	5.0 (A)	360 (X)	59,000	19,000	2.50E+06	NS **	< 5	NS **	< 5	NS *	NS***	5	< 5	<5	NS *	NS **	< 5
1,2-Dichloropropane	ug/L	5.0 (A)	290 (X)	36,000	16,000	5.50E+05	NS **	<5	NS **	<5	NS *	NS***	<5	<5	<5	NS *	NS **	<5
1,3,5-Trimethylbenzene	ug/L	72 (E)	45	61,000 (S)	61,000 (S)	ID	NS**	NA	NS**	NA	NS*	NS***	**310**	<5	**370 J**	NS*	NS**	NA
2-Butanone	ug/L	38,000	2,200	2.4E+08 (S)	2.4E+08 (S)	ID	NS **	<20	NS **	<20	NS *	NS***	<20	<20	<20	NS *	NS **	<20
2-Hexanone	ug/L	2,900	NA	8.70E+06	5.20E+06	NA	NS **	<10	NS **	<10	NS *	NS***	<10	<10	<10	NS *	NS **	<10
4-Methyl-2-pentanone	ug/L	5,200	ID	2.0E+07 (S)	1.30E+07	ID	NS **	<10	NS **	<10	NS *	NS***	<10	<10	<10	NS *	NS **	<10
Acetone	ug/L	2,100	1,700	1.0E+09 (D,S)	3.10E+07	1.50E+07	NS **	<100	NS **	<100	NS *	NS***	<100	<100	<100	NS *	NS **	<100
Benzene	ug/L	5.0 (A)	200 (X)	35,000	11,000	68,000	NS **	< 5	NS **	< 5	NS *	NS***	**420**	< 5	**7200**	NS *	NS **	< 5
Bromochloromethane	ug/L	none	none	none	none	none	NS **	<5	NS **	<5	NS *	NS***	<5	<5	<5	NS *	NS **	<5
Bromoform	ug/L	80 (A,W)	ID	3.10E+06	1.40E+05	ID	NS **	<5	NS **	<5	NS *	NS***	<5	<5	<5	NS *	NS **	<5
Bromomethane	ug/L	29	35	9,000	70,000	ID	NS **	<10	NS **	<10	NS *	NS***	<10	<10	<10	NS *	NS **	<10
n-Butylbenzene	ug/L	230	ID	ID	5,900	ID	NS**	NA	NS **	NA	NS *	NS***	NA	NA	NA	NS *	NS **	NA
Carbon disulfide	ug/L	2,300	ID	5.50E+05	1.2E+06 (S)	13,000	NS **	<5	NS **	<5	NS *	NS***	<5	<5	<5	NS *	NS **	<5
Carbon tetrachloride	ug/L	5.0 (A)	45 (X)	2,400	4,600	ID	NS **	<5	NS **	<5	NS *	NS***	<5	<5	<5	NS *	NS **	<5
Chlorobenzene	ug/L	100 (A)	47	4.70E+05	86,000	1.60E+05	NS **	<5	NS **	<5	NS *	NS***	<5	<5	<5	NS *	NS **	<5
Chloroethane	ug/L	1,700	ID	5.7E+06 (S)	4.40E+05	1.10E+05	NS **	< 10	NS **	< 10	NS *	NS***	< 10	< 10	<10	NS *	NS **	< 10
Chloroform	ug/L	80 (A, W)	170 (X)	1.80E+05	1.50E+05	ID	NS **	<5	NS **	<5	NS *	NS***	<5	<5	<5	NS *	NS **	<5
Chloromethane	ug/L	1,100	ID	45,000	4.90E+05	36,000	NS **	<10	NS **	<10	NS *	NS***	<10	<10	<10	NS *	NS **	<10
Dibromochloromethane	ug/L	80 (A, W)	ID	1.10E+05	18,000	ID	NS **	<5	NS **	<5	NS *	NS***	<5	<5	<5	NS *	NS **	<5
Ethylbenzene	ug/L	74 (E)	18	1.7E+05 (S)	1.7E+05 (S)	43,000	NS **	< 5	NS **	< 5	NS *	NS***	**1400**	< 5	**860**	NS *	NS **	< 5
Methylene chloride	ug/L	5.0 (A)	940 (X)	1.40E+06	2.20E+05	ID	NS **	<5	NS **	<5	NS *	NS***	<5	<5	<5	NS *	NS **	<5
n-Propylbenzene	ug/L	230	ID	ID	15,000	ID	NS **	NA	NS **	NA	NS *	NS***	NA	NA	NA	NS *	NS **	NA
Styrene	ug/L	100 (A)	80	3.1E+05 (S)	9,700	1.40E+05	NS **	<5	NS **	<5	NS *	NS***	<5	<5	<5	NS *	NS **	<5
Tetrachloroethylene	ug/L	5.0 (A)	60 (X)	1.70E+05	12,000	ID	NS **	< 5	NS **	< 5	NS *	NS***	< 5	< 5	<5	NS *	NS **	< 5
Toluene	ug/L	790 (E)	140	5.3E+05 (S)	5.3E+05 (S)	61,000	NS **	< 5	NS **	< 5	NS *	NS***	**3000**	< 5	**560**	NS *	NS **	< 5
Trichloroethene	ug/L	5.0 (A)	200 (X)	4,900	22,000	ID	NS **	**100**	NS **	**8**	NS *	NS***	<5	< 5	<5	NS *	NS **	**17**
Vinyl chloride	ug/L	2.0 (A)	15	13,000	1,000	33,000	NS **	< 10	NS **	< 10	NS *	NS***	<10	< 10	<10	NS *	NS **	< 10
cis-1,2-Dichloroethene	ug/L	70 (A)	620	2.10E+05	2.00E+05	5.30E+05	NS **	16	NS **	< 5	NS *	NS***	8	< 5	<5	NS *	NS **	< 5
cis-1,3-Dichloropropene	ug/L	none	none	none	none	none	NS **	<5	NS **	<5	NS *	NS***	<5	<5	<5	NS *	NS **	<5
m,p-Xylene	ug/L	none	none	none	none	none	NS **	< 5	NS **	< 5	NS *	NS***	3800	< 5	2900	NS *	NS **	< 5
o-Xylene	ug/L	none	none	none	none	none	NS **	< 5	NS **	< 5	NS *	NS***	1700	< 5	120	NS *	NS **	< 5
Xylenes, Total	ug/L	280 (E)	35	1.9E+05 (S)	1.9E+05 (S)	70,000	NS **	< 5	NS **	< 5	NS *	NS***	**5500**	< 5	**3020**	NS *	NS **	< 5
trans-1,2-Dichloroethene	ug/L	100 (A)	1,500	2.0E+05 (S)	2.20E+05	2.3E+05 (S)	NS **	<5	NS **	<5	NS *	NS***	<5	<5	<5	NS *	NS **	<5
trans-1,3-Dichloropropene	ug/L	none	none	none	none	none	NS **	<5	NS **	<5	NS *	NS***	<5	<5	<5	NS *	NS **	<5
1,2-Dichloroethene (total)	ug/L	none	none	none	none	none	NS **	16	NS **	< 5	NS *	NS***	8	< 5	<5	NS *	NS **	< 5
1,2,3-Trimethylbenzene	ug/L	none	none	none	none	none	NS **	NA	NS **	NA	NS *	NS***	NA	NA	NA	NS *	NS **	NA
Other Target VOCs	ug/L	various	various	various	various	various	NS **	ND	NS **	ND	NS *	NS***	ND	ND	ND	NS *	NS **	ND
MTBE (EPA Method 8021B)	ug/L	40 (E)	730 (X)	4.7E+07 (S)	6.10E+05	ID	NS **	NA	NS **	NA	NS *	NS***	<5	<1	<10	NS *	NS **	NA
Dissolved Metals (Method 6020)																		
Lead	mg/L	0.004 (L)	(G,X)	NLV	ID	ID	NS **	NA	NS **	NA	NS *	NS***	NS	NS	NS	NS *	NS **	NA

Notes: See Last Page

TABLE 2

FORMER GM EMPLOYEE DEVELOPMENT CENTER
65 EAST UNIVERSITY
PONTIAC, MICHIGAN

GROUNDWATER ANALYTICAL DATA

Sample ID:	Units	Michigan Groundwater Cleanup Criteria and Risk Based Screening Levels					B-13 Outside NW Corner of Building - Dyno Pit / Oil-Sand Separator	B-14 Outside NW Corner of Building - Trench & Dyno Pit	B-15 Outside North Side of Building - Trench	B-16 Outside North-NE Corner of Building - Former Gas Dispenser	B-17 Outside Further North of North Side of Building - Release Delineation	B-18 Outside NE of NW Corner of Building - Release Delineation	B-19 Outside Further North of NE Corner of Building - Release Delineation	B-20 Outside Further North of B-17 & Sewer Line - Release Delineation	B-21 Inside Northwest Portion of Building - South of B-15 - Release Delineation	TW-26	TW-27	TW-28	TW-29	TW-30	TW-31
		Non-Residential Drinking Water Protection Criteria & RBSLs	Groundwater Surface Water Interface Criteria & RBSLs	Non-Residential Groundwater Volatilization to Indoor Air Inhalation Criteria & RBSLs	Groundwater Contact Criteria & RBSLs	Flammability and Explosivity Screening Level															
Date Collected:							11/8/2006	11/8/2006	11/8/2006	11/8/2006	11/8/2006	11/8/2006	11/8/2006	11/8/2006	11/30/2006	9/17/2007	9/14/2007	9/14/2007	9/17/2007	9/13/2007	9/14/2007
Screened Interval (feet bgl):							NA	5-10	5-10	5-10	5-10	5-10	5-10	10-15	7-12	10-15	7-12	10-15	5-10	4-9	5-10
Analytical Parameter																					
TPH (EPA Method 418.1)	mg/L	none	none	none	none	none	NS *	**1.5**	**4.9**	**71**	**3.1**	**1.9**	< 0.5	0.9	NS****	NA	NA	NA	NA	NA	NA
Semivolatile Hydrocarbons (EPA Method 8015B)																					
Gasoline Range Organics	mg/L	none	none	none	none	none	NS*	NS	NS	NS	NS	NS	NS	NS	NS****	NA	NA	NA	NA	NA	NA
Diesel Range Organics	mg/L	none	none	none	none	none	NS*	NS	NS	NS	NS	NS	NS	NS	NS****	NA	NA	NA	NA	NA	NA
Fuel Oil	mg/L	none	none	none	none	none	NS*	NS	NS	NS	NS	NS	NS	NS	NS****	NA	NA	NA	NA	NA	NA
Hydraulic Fluid	mg/L	none	none	none	none	none	NS*	NS	NS	NS	NS	NS	NS	NS	NS****	NA	NA	NA	NA	NA	NA
Kerosene	mg/L	none	none	none	none	none	NS*	NS	NS	NS	NS	NS	NS	NS	NS****	NA	NA	NA	NA	NA	NA
Mineral Spirits	mg/L	none	none	none	none	none	NS*	NS	NS	NS	NS	NS	NS	NS	NS****	NA	NA	NA	NA	NA	NA
Motor Oil	mg/L	none	none	none	none	none	NS*	NS	NS	NS	NS	NS	NS	NS	NS****	NA	NA	NA	NA	NA	NA
PAH (EPA Method 8310)																					
1-Methylnaphthalene	ug/L	none	none	none	none	none	NS *	26	27	210	< 0.13	1.1	NA	NA	NS****	71	17	11	<5	<5	<5
2-Methylnaphthalene	ug/L	750	19	25,000 (S)	25,000 (S)	ID	NS *	**19**	**24**	**270**	< 0.13	1.1	NA	NA	NS****	**164**	**36**	**22**	<5	<5	<5
Acenaphthene	ug/L	3,800	38	4,200 (S)	4,200 (S)	ID	NS *	0.14	0.22	1.5	< 0.13	< 0.1	NA	NA	NS****	<5	<5	<5	<5	<5	<5
Acenapthylene	ug/L	150	ID	3,900 (S)	3,900 (S)	ID	NS *	< 0.11	< 0.1	< 0.12	< 0.13	< 0.1	NA	NA	NS****	<5	<5	<5	<5	<5	<5
Anthracene	ug/L	43 (S)	ID	43 (S)	43 (S)	ID	NS *	< 0.11	< 0.1	< 0.12	< 0.13	< 0.1	NA	NA	NS****	<5	<5	<5	<5	<5	<5
Benz(a)anthracene	ug/L	8.5	ID	NLV	9.4 (S,AA)	ID	NS *	< 0.11	< 0.1	< 0.12	< 0.13	< 0.1	NA	NA	NS****	<5	<5	<5	<5	<5	<5
Benzo(a)pyrene	ug/L	5.0 (A)	ID	NLV	1.0 (M,AA); 0.64	ID	NS *	< 0.11	< 0.1	< 0.12	< 0.13	< 0.1	NA	NA	NS****	<5	<5	<5	<5	<5	<5
Benzo(b)fluoranthene	ug/L	1.5 (S, AA)	ID	ID	1.5 (S,AA)	ID	NS *	< 0.11	< 0.1	< 0.12	< 0.13	< 0.1	NA	NA	NS****	<5	<5	<5	<5	<5	<5
Benzo(g,h,i)perylene	ug/L	1.0 (M); 0.26 (S)	NA	NLV	1.0 (M,AA); 0.26 (S)	ID	NS *	< 0.11	< 0.1	< 0.12	< 0.13	< 0.1	NA	NA	NS****	<5	<5	<5	<5	<5	<5
Benzo(k)fluoranthene	ug/L	1.0 (M); 0.8 (S)	NA	NLV	1.0 (M,AA); 0.8 (S)	ID	NS *	< 0.11	< 0.1	< 0.12	< 0.13	< 0.1	NA	NA	NS****	<5	<5	<5	<5	<5	<5
Chrysene	ug/L	1.6 (S)	ID	ID	1.6 (S,AA)	ID	NS *	< 0.11	< 0.1	< 0.12	< 0.13	< 0.1	NA	NA	NS****	<5	<5	<5	<5	<5	<5
Dibenzo(a,h)anthracene	ug/L	2.0 (M); 0.85	ID	NLV	2.0 (M,AA); 0.31	ID	NS *	< 0.11	< 0.1	< 0.12	< 0.13	< 0.1	NA	NA	NS****	<5	<5	<5	<5	<5	<5
Fluoranthene	ug/L	210 (S)	1.6	210 (S)	210 (S)	ID	NS *	< 0.11	< 0.1	< 0.12	< 0.13	< 0.1	NA	NA	NS****	<5	<5	<5	<5	<5	<5
Fluorene	ug/L	2,000 (S)	12	2,000 (S)	2,000 (S)	ID	NS *	< 0.11	< 0.1	< 0.12	< 0.13	< 0.1	NA	NA	NS****	<5	<5	<5	<5	<5	<5
Indeno(1,2,3-cd)pyrene	ug/L	2.0 (M); 0.022 (S)	ID	NLV	2.0 (M, AA); 0.022 (S)	ID	NS *	< 0.11	< 0.1	< 0.12	< 0.13	< 0.1	NA	NA	NS****	<5	<5	<5	<5	<5	<5
Naphthalene	ug/L	1,500	11	31,000 (S)	31,000 (S)	NA	NS *	**27**	**34**	**320**	**45**	< 0.1	NA	NA	NS****	**219**	**117**	**47**	<5	<5	<5
Phenanthrene	ug/L	150	2.0 (M); 1.4	1,000 (S)	1,000 (S)	ID	NS *	< 0.11	< 0.1	< 0.12	< 0.13	< 0.1	NA	NA	NS****	<5	<5	<5	<5	<5	<5
Pyrene	ug/L	140 (S)	ID	140 (S)	140 (S)	ID	NS *	< 0.11	< 0.1	< 0.12	< 0.13	< 0.1	NA	NA	NS****	<5	<5	<5	<5	<5	<5
Other Target PAHs	ug/L	various	various	various	various	various	NS *	ND	ND	ND	ND	ND	NA	NA	NS****	NA	NA	NA	NA	NA	NA
VOCs (EPA Method 8260)																					
1,1,1-Trichloroethane	ug/L	200 (A)	200	1.3E+06 (S)	1.3E+06 (S)	ID	NS *	<5	<5	<5	<5	<5	<5	<5	<5	<50	<30	<10	<1	<1	<1
1,1,2,2-Tetrachloroethane	ug/L	35	78 (X)	77,000	4,700	ID	NS *	<5	<5	<5	<5	<5	<5	<5	<5	<50	<30	<10	<1	<1	<1
1,1,2-Trichloroethane	ug/L	5.0 (A)	330 (X)	1.10E+05	21,000	NA	NS *	<5	<5	<5	<5	<5	<5	<5	<5	<50	<30	<10	<1	<1	<1
1,1-Dichloroethane	ug/L	2,500	740	2.30E+06	2.40E+06	3.80E+05	NS *	<5	<5	<5	<5	<5	<5	<5	<5	<50	<30	<10	<1	3	<1
1,1-Dichloroethene	ug/L	7.0 (A)	65 (X)	1,300	11,000	97,000	NS *	<5	<5	<5	<5	<5	<5	<5	<5	<50	<30	<10	<1	<1	<1
1,2,4-Trimethylbenzene	ug/L	63 (E)	17	56,000 (S)	56,000 (S)	56,000 (S)	NS*	NA	NA	NA	NA	NA	NA	NA	**2,800**	**1,120**	**900**	**520**	<1	<1	<1
1,2-Dichloroethane	ug/L	5.0 (A)	360 (X)	59,000	19,000	2.50E+06	NS *	< 5	< 5	**39**	**8**	< 5	< 5	< 5	<5	<50	<30	<10	<1	**7**	2
1,2-Dichloropropane	ug/L	5.0 (A)	290 (X)	36,000	16,000	5.50E+05	NS *	<5	<5	<5	<5	<5	<5	<5	<5	<50	<30	<10	<1	**29**	<1
1,3,5-Trimethylbenzene	ug/L	72 (E)	45	61,000 (S)	61,000 (S)	ID	NS*	NA	NA	NA	NA	NA	NA	NA	**750 J**	**370**	**270**	**200**	<1	<1	<1
2-Butanone	ug/L	38,000	2,200	2.4E+08 (S)	2.4E+08 (S)	ID	NS *	<20	<20	<20	<20	<20	<20	<20	<20	<1,000	<600	<300	<30	<30	<30
2-Hexanone	ug/L	2,900	NA	8.70E+06	5.20E+06	NA	NS *	<10	<10	<10	<10	<10	<10	<10	<10	<3,000	<1,000	<500	<50	<50	<50
4-Methyl-2-pentanone	ug/L	5,200	ID	2.0E+07 (S)	1.30E+07	ID	NS *	<10	<10	<10	<10	<10	<10	<10	<10	<3,000	<1,000	<500	<50	<50	<50
Acetone	ug/L	2,100	1,700	1.0E+09 (D,S)	3.10E+07	1.50E+07	NS *	<100	<100	<100	<100	<100	<100	<100	<100	<3,000	<1,000	<500	<50	<50	<50
Benzene	ug/L	5.0 (A)	200 (X)	35,000	11,000	68,000	NS *	**37**	**180**	**730**	**1,400**	< 5	< 5	**20**	**4,600**	**980**	**850**	**560**	<1	**74**	<1
Bromochloromethane	ug/L	none	none	none	none	none	NS *	<5	<5	<5	<5	<5	<5	<5	<5	<50	<30	<10	<1	<1	<1
Bromoform	ug/L	80 (A,W)	ID	3.10E+06	1.40E+05	ID	NS *	<5	<5	<5	<5	<5	<5	<5	<5	<50	<30	<10	<1	<1	<1
Bromomethane	ug/L	29	35	9,000	70,000	ID	NS *	<10	<10	<10	<10	<10	<10	<10	<10	<300	<100	<50	<5	<5	<5
n-Butylbenzene	ug/L	230	ID	ID	5,900	ID	NS *	NA	NA	NA	NA	NA	NA	NA	NA	110	50	30	<1	<1	<1
Carbon disulfide	ug/L	2,300	ID	5.50E+05	1.2E+06 (S)	13,000	NS *	<5	<5	<5	<5	<5	<5	<5	<5	<300	<100	<50	<5	<5	<5
Carbon tetrachloride	ug/L	5.0 (A)	45 (X)	2,400	4,600	ID	NS *	<5	<5	<5	<5	<5	<5	<5	<5	<50	<30	<10	<1	<1	<1
Chlorobenzene	ug/L	100 (A)	47	4.70E+05	86,000	1.60E+05	NS *	<5	<5	<5	<5	<5	<5	<5	<5	<50	<30	<10	<1	<1	<1
Chloroethane	ug/L	1,700	ID	5.7E+06 (S)	4.40E+05	1.10E+05	NS *	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	<300	<100	<50	<5	<5	<5
Chloroform	ug/L	80 (A, W)	170 (X)	1.80E+05	1.50E+05	ID	NS *	<5	<5	<5	<5	<5	<5	<5	<5	<50	<30	<10	<1	<1	<1
Chloromethane	ug/L	1,100	ID	45,000	4.90E+05	36,000	NS *	<10	<10	<10	<10	<10	<10	<10	<10	<300	<100	<50	<5	<5	<5
Dibromochloromethane	ug/L	80 (A, W)	ID	1.10E+05	18,000	ID	NS *	<5	<5	<5	<5	<5	<5	<5	<5	<300	<100	<50	<5	<5	<5
Ethylbenzene	ug/L	74 (E)	18	1.7E+05 (S)	1.7E+05 (S)	43,000	NS *	**130**	**1,100**	**1,300**	**1,200**	< 5	< 5	< 5	**4,100**	**3,170**	**1,580**	**370**	<1	<1	<1
Methylene chloride	ug/L	5.0 (A)	940 (X)	1.40E+06	2.20E+05	ID	NS *	<5	<5	<5	<5	<5	<5	<5	<5	<300	<100	<50	<5	<5	<5
n-Propylbenzene	ug/L	230	ID	ID	15,000	ID	NS *	NA	NA	NA	NA	NA	NA	NA	NA	**250**	150	50	<1	<1	<1
Styrene	ug/L	100 (A)	80	3.1E+05 (S)	9,700	1.40E+05	NS *	<5	<5	<5	<5	<5	<5	<5	<5	<50	<70	<30	<1	<1	<1
Tetrachloroethylene	ug/L	5.0 (A)	60 (X)	1.70E+05	12,000	ID	NS *	**8**	< 5	< 5	< 5	< 5	< 5	< 5	<5	<50	<30	<10	<1	3	<1
Toluene	ug/L	790 (E)	140	5.3E+05 (S)	5.3E+05 (S)	61,000	NS *	30	**2,600**	**350**	**1,400**	< 5	< 5	< 5	**20,000**	**1,490**	**620**	**550**	<1	1	<1
Trichloroethene	ug/L	5.0 (A)	200 (X)	4,900	22,000	ID	NS *	< 5	**5**	< 5	< 5	< 5	< 5	< 5	<5	<50	<30	<10	<1	<1	<1
Vinyl chloride	ug/L	2.0 (A)	15	13,000	1,000	33,000	NS *	< 10	< 10	**270 J**	< 10	< 10	< 10	< 10	<10	<50	<30	<10	<1	<1	<1
cis-1,2-Dichloroethene	ug/L	70 (A)	620	2.10E+05	2.00E+05	5.30E+05	NS *	< 5	5	**170**	< 5	< 5	< 5	< 5	61	<50	<30	<10	<1	3	<1
cis-1,3-Dichloropropene	ug/L	none	none	none	none	none	NS *	<5	<5	<5	<5	<5	<5	<5	<5	<50	<30	<10	<1	<1	<1
m,p-Xylene	ug/L	none	none	none	none	none	NS *	230	3,900	3,100	4,000	< 5	< 5	< 5	13,000	7,000	4,670	1,770	<2	<2	<2
o-Xylene	ug/L	none	none	none	none	none	NS *	37	1,200	530	990	< 5	< 5	< 5	5,900	770	2,070	610	<1	<1	<1
Xylenes, Total	ug/L	280 (E)	35	1.9E+05 (S)	1.9E+05 (S)	70,000	NS *	**267**	**5,100**	**3,630**	**4,990**	< 5	< 5	< 5	**18,900**	**7,770**	**6,740**	**2,380**	<3	<3	<3
trans-1,2-Dichloroethene	ug/L	100 (A)	1,500	2.0E+05 (S)	2.20E+05	2.3E+05 (S)	NS *	<5	<5	<5	<5	<5	<5	<5	<5	<50	<30	<10	<1	<1	<1
trans-1,3-Dichloropropene	ug/L	none	none	none	none	none	NS *	<5	<5	<5	<5	<5	<5	<5	<5	<50	<30	<10	<1	<1	<1
1,2-Dichloroethene (total)	ug/L	none	none	none	none	none	NS *	< 5	5	170	< 5	< 5	< 5	< 5	61	<50	<30	<10	<1	3	<1
1,2,3-Trimethylbenzene	ug/L	none	none	none	none	none	NS *	NA	NA	NA	NA	NA	NA	NA	NA	360	270	160	<1	<1	<1
Other Target VOCs	ug/L	various	various	various	various	various	NS *	ND	ND	ND	ND	ND	ND	ND	ND	ND	400	90	ND	ND	ND
MTBE (EPA Method 8021B)	ug/L	40 (E)	730 (X)	4.7E+07 (S)	6.10E+05	ID	NS *	< 1	**60**	**87**	NA	NA	NA	NA	<25	<300	<100	<50	<5	<5	<5
Dissolved Metals (Method 6020)																					
Lead	mg/L	0.004 (L)	(G,X)	NLV	ID	ID	NS *	NS	0.00211	0.00392	NA	NA	NA	NA	NS	**0.045**	**0.005**	**0.106**	**0.005**	<0.003	**0.005**

Notes: See Last Page

TABLE 2

FORMER GM EMPLOYEE DEVELOPMENT CENTER
65 EAST UNIVERSITY
PONTIAC, MICHIGAN

GROUNDWATER ANALYTICAL DATA

Sample ID:	Units	Michigan Groundwater Cleanup Criteria and Risk Based Screening Levels					TW-34	TW-35	TW-37	TW-44	TW-44	TW-45	EW-1 Outside North-NE Corner of Building - Former Gas Dispenser	MW-2 Northwest Portion of Site - Release Delineation Monitoring Well	MW-2 Northwest Portion of Site - Release Delineation Monitoring Well	MW-2 Northwest Portion of Site - Release Delineation Monitoring Well	MW-2 Northwest Portion of Site - Release Delineation Monitoring Well	MW-2 Northwest Portion of Site - Release Delineation Monitoring Well	MW-2 Northwest Portion of Site - Release Delineation Monitoring Well	MW-3 Outside NW Corner of Building - Trench & Dyno Pit	MW-3 Outside NW Corner of Building - Trench & Dyno Pit
		Non-Residential Drinking Water Protection Criteria & RBSLs	Groundwater Surface Water Interface Criteria & RBSLs	Non-Residential Groundwater Volatilization to Indoor Air Inhalation Criteria & RBSLs	Groundwater Contact Criteria & RBSLs	Flammability and Explosivity Screening Level															
Date Collected:							9/17/2007	9/14/2007	9/18/2007	9/26/2007	10/4/2007	9/25/2007	12/11/2006	12/11/2006	7/28/2008	11/1/2010	1/29/2013	6/26/2013	9/18/2013	12/11/2006	2/11/2008
Screened Interval (feet bgl):							5-10	7-14	10-15	10-15	10-15	10-15	3-13	3-13	3-13	3-13	3-13	3-13	3-13	5-15	5-15
Analytical Parameter																					
TPH (EPA Method 418.1)	mg/L	none	none	none	none	none	NA	NA	NA	NA	NA	NA	NS	NS	NS	NA	NA	NA	NA	NS	NA
Semivolatile Hydrocarbons (EPA Method 8015B)																					
Gasoline Range Organics	mg/L	none	none	none	none	none	NA	NA	NA	NA	NA	NA	29	<0.1	NA	NA	NA	NA	NA	12	NA
Diesel Range Organics	mg/L	none	none	none	none	none	NA	NA	NA	NA	NA	NA	<0.5	<0.1	NA	NA	NA	NA	NA	<0.1	NA
Fuel Oil	mg/L	none	none	none	none	none	NA	NA	NA	NA	NA	NA	12	<0.1	NA	NA	NA	NA	NA	1.9	NA
Hydraulic Fluid	mg/L	none	none	none	none	none	NA	NA	NA	NA	NA	NA	<0.5	<0.1	NA	NA	NA	NA	NA	<0.1	NA
Kerosene	mg/L	none	none	none	none	none	NA	NA	NA	NA	NA	NA	<0.5	<0.1	NA	NA	NA	NA	NA	<0.1	NA
Mineral Spirits	mg/L	none	none	none	none	none	NA	NA	NA	NA	NA	NA	<0.5	<0.1	NA	NA	NA	NA	NA	<0.1	NA
Motor Oil	mg/L	none	none	none	none	none	NA	NA	NA	NA	NA	NA	<0.5	0.26	NA	NA	NA	NA	NA	<0.1	NA
PAH (EPA Method 8310)																					
1-Methylnaphthalene	ug/L	none	none	none	none	none	<10	<5	<5	NA	NA	NA	56	<0.1	NA	NA	<5	<5	<5	0.55	<5
2-Methylnaphthalene	ug/L	750	19	25,000 (S)	25,000 (S)	ID	<10	<5	<5	NA	NA	NA	**98**	<0.1	<5	<5	<5	<5	<5	0.41	<5
Acenaphthene	ug/L	3,800	38	4,200 (S)	4,200 (S)	ID	<10	<5	<5	NA	NA	<5	<1.5	<0.1	<5	<5	<5	<5	<5	<0.1	<5
Acenapthylene	ug/L	150	ID	3,900 (S)	3,900 (S)	ID	<10	<5	<5	NA	NA	<5	8.2	<0.1	<5	<5	<5	<5	<5	<0.1	<5
Anthracene	ug/L	43 (S)	ID	43 (S)	43 (S)	ID	<10	<5	<5	NA	NA	<5	<1.5	<0.1	<5	<5	<5	<5	<5	<0.1	<5
Benz(a)anthracene	ug/L	8.5	ID	NLV	9.4 (S,AA)	ID	<10	<5	<5	NA	NA	<1	<1.5	<0.1	<1	<1	<1	<1	<1	<0.1	<5
Benzo(a)pyrene	ug/L	5.0 (A)	ID	NLV	1.0 (M,AA); 0.64	ID	<10	<5	<5	NA	NA	<1	<1.5	<0.1	<1	<1	<1	<1	<1	<0.1	<5
Benzo(b)fluoranthene	ug/L	1.5 (S, AA)	ID	ID	1.5 (S,AA)	ID	<10	<5	<5	NA	NA	<1	<1.5	<0.1	<1	<1	<1	<1	<1	<0.1	<5
Benzo(g,h,i)perylene	ug/L	1.0 (M); 0.26 (S)	NA	NLV	1.0 (M,AA); 0.26 (S)	ID	<10	<5	<5	NA	NA	<1	<1.5	<0.1	<1	<1	<1	<1	<1	<0.1	<5
Benzo(k)fluoranthene	ug/L	1.0 (M); 0.8 (S)	NA	NLV	1.0 (M,AA); 0.8 (S)	ID	<10	<5	<5	NA	NA	<1	<1.5	<0.1	<1	<1	<1	<1	<1	<0.1	<5
Chrysene	ug/L	1.6 (S)	ID	ID	1.6 (S,AA)	ID	<10	<5	<5	NA	NA	<1	<1.5	<0.1	<1	<1	<1	<1	<1	<0.1	<5
Dibenzo(a,h)anthracene	ug/L	2.0 (M); 0.85	ID	NLV	2.0 (M,AA); 0.31	ID	<10	<5	<5	NA	NA	<2	<1.5	<0.1	<2	<2	<2	<2	<2	<0.1	<5
Fluoranthene	ug/L	210 (S)	1.6	210 (S)	210 (S)	ID	<10	<5	<5	NA	NA	<1	<1.5	<0.1	<1	<1	<1	<1	<1	<0.1	<5
Fluorene	ug/L	2,000 (S)	12	2,000 (S)	2,000 (S)	ID	<10	<5	<5	NA	NA	<5	<1.5	<0.1	<5	<5	<5	<5	<5	<0.1	<5
Indeno(1,2,3-cd)pyrene	ug/L	2.0 (M); 0.022 (S)	ID	NLV	2.0 (M, AA); 0.022 (S)	ID	<10	<5	<5	NA	NA	<2	<0.19	<0.1	<2	<2	<2	<2	<2	<0.1	<5
Naphthalene	ug/L	1,500	11	31,000 (S)	31,000 (S)	NA	<10	<5	<5	NA	NA	<5	**280**	<0.1	<5	<5	<5	<5	<5	2.4	6
Phenanthrene	ug/L	150	2.0 (M); 1.4	1,000 (S)	1,000 (S)	ID	<10	<5	<5	NA	NA	<2	<1.5	<0.1	<2	<2	<2	<2	<2	0.13	<5
Pyrene	ug/L	140 (S)	ID	140 (S)	140 (S)	ID	<10	<5	<5	NA	NA	<5	<1.5	<0.1	<5	<5	<5	<5	<5	<0.1	<5
Other Target PAHs	ug/L	various	various	various	various	various	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
VOCs (EPA Method 8260)																					
1,1,1-Trichloroethane	ug/L	200 (A)	200	1.3E+06 (S)	1.3E+06 (S)	ID	<30	<10	<1	<1	<1	<1	<5	<5	<1	<1	<1	<1	<1	<5	<30
1,1,2,2-Tetrachloroethane	ug/L	35	78 (X)	77,000	4,700	ID	<30	<10	<1	<1	<1	<1	<5	<5	<1	<1	<1	<1	<1	<5	<30
1,1,2-Trichloroethane	ug/L	5.0 (A)	330 (X)	1.10E+05	21,000	NA	<30	<10	<1	<1	<1	<1	<5	<5	<1	<1	<1	<1	<1	<5	<30
1,1-Dichloroethane	ug/L	2,500	740	2.30E+06	2.40E+06	3.80E+05	<30	<10	6	<1	<1	<1	<5	<5	<1	<1	<1	<1	<1	<5	<30
1,1-Dichloroethene	ug/L	7.0 (A)	65 (X)	1,300	11,000	97,000	<30	<10	<1	<1	<1	<1	<5	<5	<1	<1	<1	<1	<1	7	<30
1,2,4-Trimethylbenzene	ug/L	63 (E)	17	56,000 (S)	56,000 (S)	56,000 (S)	<30	<10	<1	<1	<1	<1	**790**	<5	<1	<1	<1	<1	<1	**40**	**80**
1,2-Dichloroethane	ug/L	5.0 (A)	360 (X)	59,000	19,000	2.50E+06	<30	<10	2	<1	<1	<1	**13**	<5	<1	<1	<1	<1	<1	**14**	<30
1,2-Dichloropropane	ug/L	5.0 (A)	290 (X)	36,000	16,000	5.50E+05	<30	**110**	<1	<1	<1	<1	<5	<5	<1	<1	<1	<1	<1	**140**	**200**
1,3,5-Trimethylbenzene	ug/L	72 (E)	45	61,000 (S)	61,000 (S)	ID	<30	<10	<1	<1	<1	<1	**190**	<5	<1	<1	<1	<1	<1	13	<30
2-Butanone	ug/L	38,000	2,200	2.4E+08 (S)	2.4E+08 (S)	ID	<600	<300	<30	<30	<30	<30	<20	<20	<30	<30	<25	<25	<25	21	<600
2-Hexanone	ug/L	2,900	NA	8.70E+06	5.20E+06	NA	<1,000	<500	<50	<50	<50	<50	11	<10	<50	<50	<50	<50	<50	<10	<1,000
4-Methyl-2-pentanone	ug/L	5,200	ID	2.0E+07 (S)	1.30E+07	ID	<1,000	<500	<50	<50	<50	<50	<10	<10	<50	<50	<50	<50	<50	<10	<1,000
Acetone	ug/L	2,100	1,700	1.0E+09 (D,S)	3.10E+07	1.50E+07	<1,000	<500	<50	190	<50	<50	<100	<100	<50	<50	<50	<50	<50	<100	<1,000
Benzene	ug/L	5.0 (A)	200 (X)	35,000	11,000	68,000	<30	**1,040**	**133**	<1	<1	1	**930**	<5	<1	<1	<1	<1	<1	**3,000**	**2,530**
Bromochloromethane	ug/L	none	none	none	none	none	<30	<10	<1	<1	<1	<1	<5	<5	<1	<1	<1	<1	<1	<5	<30
Bromoform	ug/L	80 (A,W)	ID	3.10E+06	1.40E+05	ID	<30	<10	<1	<1	<1	<1	<5	<5	<1	<1	<1	<1	<1	<5	<30
Bromomethane	ug/L	29	35	9,000	70,000	ID	<100	<50	<5	<50	<50	<50	<10	<10	<5	<5	<5	<5	<5	<10	<100
n-Butylbenzene	ug/L	230	ID	ID	5,900	ID	<30	<10	<1	<1	<1	<1	NA	NA	<1	<1	<1	<1	<1	NA	<30
Carbon disulfide	ug/L	2,300	ID	5.50E+05	1.2E+06 (S)	13,000	<100	<50	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<100
Carbon tetrachloride	ug/L	5.0 (A)	45 (X)	2,400	4,600	ID	<30	<10	<1	<1	<1	<1	<5	<5	<1	<1	<1	<1	<1	<5	<30
Chlorobenzene	ug/L	100 (A)	47	4.70E+05	86,000	1.60E+05	<30	<10	<1	<1	<1	<1	<5	<5	<1	<1	<1	<1	<1	<5	<30
Chloroethane	ug/L	1,700	ID	5.7E+06 (S)	4.40E+05	1.10E+05	<100	<50	<5	<5	<5	<5	<10	<10	<5	<5	<5	<5	<5	<10	<100
Chloroform	ug/L	80 (A, W)	170 (X)	1.80E+05	1.50E+05	ID	<30	<10	<1	<1	<1	<1	<5	<5	<1	<1	<1	<1	<1	<5	<30
Chloromethane	ug/L	1,100	ID	45,000	4.90E+05	36,000	<100	<50	<5	<5	<5	<5	<10	<10	<5	<5	<5	<5	<5	<10	<100
Dibromochloromethane	ug/L	80 (A, W)	ID	1.10E+05	18,000	ID	<100	<50	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<100
Ethylbenzene	ug/L	74 (E)	18	1.7E+05 (S)	1.7E+05 (S)	43,000	<30	<10	<1	<1	<1	<1	**1,500**	<5	<1	<1	<1	<1	<1	**54**	**150**
Methylene chloride	ug/L	5.0 (A)	940 (X)	1.40E+06	2.20E+05	ID	<100	<50	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<100
n-Propylbenzene	ug/L	230	ID	ID	15,000	ID	<30	<10	<1	<1	<1	<1	NA	NA	<1	<1	<1	<1	<1	NA	<30
Styrene	ug/L	100 (A)	80	3.1E+05 (S)	9,700	1.40E+05	<30	<10	<1	<1	<1	<1	<5	<5	<1	<1	<1	<1	<1	<5	<30
Tetrachloroethylene	ug/L	5.0 (A)	60 (X)	1.70E+05	12,000	ID	<30	<10	<1	<1	<1	<1	<5	<5	<1	<1	<1	<1	<1	<5	<30
Toluene	ug/L	790 (E)	140	5.3E+05 (S)	5.3E+05 (S)	61,000	<30	<10	2	<1	<1	1	**520**	<5	<1	<1	<1	<1	<1	140 J	**740**
Trichloroethene	ug/L	5.0 (A)	200 (X)	4,900	22,000	ID	**200**	<10	<1	<1	<1	2	<5	<5	<1	<1	<1	<1	<1	<5	<30
Vinyl chloride	ug/L	2.0 (A)	15	13,000	1,000	33,000	<30	<10	**10**	<1	<1	<1	<2	<2	<1	<1	<1	<1	<1	<2	<30
cis-1,2-Dichloroethene	ug/L	70 (A)	620	2.10E+05	2.00E+05	5.30E+05	**780**	<10	9	<1	<1	<1	<5	<5	<1	<1	<1	<1	<1	19	<30
cis-1,3-Dichloropropene	ug/L	none	none	none	none	none	<30	<10	<1	<1	<1	<1	<5	<5	<1	<1	<1	<1	<1	<5	<30
m,p-Xylene	ug/L	none	none	none	none	none	<50	<20	<2	<2	<2	<2	4,400	<5	<2	<2	<1	<1	<1	240	260
o-Xylene	ug/L	none	none	none	none	none	<30	<10	<1	<1	<1	<1	1,200	<5	<1	<1	<2	<2	<2	87	40
Xylenes, Total	ug/L	280 (E)	35	1.9E+05 (S)	1.9E+05 (S)	70,000	<80	<30	<3	<3	<3	<3	**5,600**	<5	<3	NA	<3	<3	<3	**327**	**300**
trans-1,2-Dichloroethene	ug/L	100 (A)	1,500	2.0E+05 (S)	2.20E+05	2.3E+05 (S)	<30	<10	<1	<1	<1	<1	<5	<5	<1	<1	<1	<1	<1	<5	<30
trans-1,3-Dichloropropene	ug/L	none	none	none	none	none	<30	<10	<1	<1	<1	<1	<5	<5	<1	<1	<1	<1	<1	<5	<30
1,2-Dichloroethene (total)	ug/L	none	none	none	none	none	<30	<10	<1	<1	<1	<1	<5	<5	<2	NA	NA	NA	NA	19	<30
1,2,3-Trimethylbenzene	ug/L	none	none	none	none	none	<30	<10	<1	<1	<1	<1	NA	NA	<5	<1	<1	<1	<1	NA	<30
Other Target VOCs	ug/L	various	various	various	various	various	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MTBE (EPA Method 8021B)	ug/L	40 (E)	730 (X)	4.7E+07 (S)	6.10E+05	ID	<100	<5	<5	<5	<5	<5	**85**	<1	<5	<5	<5	<5	<5	<10	<100
Dissolved Metals (Method 6020)																					
Lead	mg/L	0.004 (L)	(G,X)	NLV	ID	ID	<0.003	<0.003	<0.003	NA	<0.003	**0.007**	**0.00734**	<0.005	<0.003	<0.003	<0.003	<0.003	<0.003	<0.005	**0.019**

Notes: See Last Page

TABLE 2

FORMER GM EMPLOYEE DEVELOPMENT CENTER
65 EAST UNIVERSITY
PONTIAC, MICHIGAN

GROUNDWATER ANALYTICAL DATA

Sample ID:	Units	Michigan Groundwater Cleanup Criteria and Risk Based Screening Levels					MW-3 Outside NW Corner of Building - Trench & Dyno Pit	MW-4 Eastern Corner of Site	MW-4 Eastern Corner of Site	MW-4 Eastern Corner of Site	MW-4 Eastern Corner of Site	MW-4 Eastern Corner of Site	MW-4 Eastern Corner of Site	Sump in Basement	MW-5 Outside East-SE Corner of Building - Boiler Room Sump Area	MW-5 Outside East-SE Corner of Building - Boiler Room Sump Area	MW-5 Outside East-SE Corner of Building - Boiler Room Sump Area	MW-5 Outside East-SE Corner of Building - Boiler Room Sump Area	MW-5 Outside East-SE Corner of Building - Boiler Room Sump Area	MW-5 Outside East-SE Corner of Building - Boiler Room Sump Area
		Non-Residential Drinking Water Protection Criteria & RBSLs	Groundwater Surface Water Interface Criteria & RBSLs	Non-Residential Groundwater Volatilization to Indoor Air Inhalation Criteria & RBSLs	Groundwater Contact Criteria & RBSLs	Flammability and Explosivity Screening Level														
Date Collected:							11/3/2010	12/11/2006	2/13/2008	11/2/2010	2/1/2013	6/26/2013	9/17/2013	12/11/2006	12/11/2006	2/13/2008	11/3/2010	2/1/2013	6/25/2013	9/19/2013
Screened Interval (feet bgl):							5-15	3-13	3-13	3-13	3-13	3-13	3-13		7-17	7-17	7-17	7-17	7-17	7-17
Analytical Parameter																				
TPH (EPA Method 418.1)	mg/L	none	none	none	none	none	NA	NS	NA	NA	NA	NA	NA	NS	NS	NA	NA	NA	NA	NA
Semivolatile Hydrocarbons (EPA Method 8015B)																				
Gasoline Range Organics	mg/L	none	none	none	none	none	NA	<0.1	NA	NA	NA	NA	NA	<0.1	<0.1	NA	NA	NA	NA	NA
Diesel Range Organics	mg/L	none	none	none	none	none	NA	<0.11	NA	NA	NA	NA	NA	<0.1	<0.1	NA	NA	NA	NA	NA
Fuel Oil	mg/L	none	none	none	none	none	NA	0.79	NA	NA	NA	NA	NA	<0.1	<0.1	NA	NA	NA	NA	NA
Hydraulic Fluid	mg/L	none	none	none	none	none	NA	<0.11	NA	NA	NA	NA	NA	1.2	<0.1	NA	NA	NA	NA	NA
Kerosene	mg/L	none	none	none	none	none	NA	<0.11	NA	NA	NA	NA	NA	<0.1	<0.1	NA	NA	NA	NA	NA
Mineral Spirits	mg/L	none	none	none	none	none	NA	<0.11	NA	NA	NA	NA	NA	<0.1	<0.1	NA	NA	NA	NA	NA
Motor Oil	mg/L	none	none	none	none	none	NA	<0.11	NA	NA	NA	NA	NA	<0.1	0.19	NA	NA	NA	NA	NA
PAH (EPA Method 8310)																				
1-Methylnaphthalene	ug/L	none	none	none	none	none	NA	<0.1	<5	NA	<5	<5	<5	<0.1	<0.1	<5	NA	<5	<5	<5
2-Methylnaphthalene	ug/L	750	19	25,000 (S)	25,000 (S)	ID	12	<0.1	<5	<5	<5	<5	<5	<0.1	<0.1	<5	<5	<5	<5	<5
Acenaphthene	ug/L	3,800	38	4,200 (S)	4,200 (S)	ID	<5	<0.1	<5	<5	<5	<5	<5	<0.1	<0.1	<5	<5	<5	<5	<5
Acenapthylene	ug/L	150	ID	3,900 (S)	3,900 (S)	ID	<5	<0.1	<5	<5	<5	<5	<5	<0.1	<0.1	<5	<5	<5	<5	<5
Anthracene	ug/L	43 (S)	ID	43 (S)	43 (S)	ID	<5	<0.1	<5	<5	<5	<5	<5	<0.1	<0.1	<5	<5	<5	<5	<5
Benz(a)anthracene	ug/L	8.5	ID	NLV	9.4 (S,AA)	ID	<1	<0.1	<5	<1	<1	<1	<1	<0.1	<0.1	<5	<1	<1	<1	<1
Benzo(a)pyrene	ug/L	5.0 (A)	ID	NLV	1.0 (M,AA); 0.64	ID	<1	<0.1	<5	<1	<1	<1	<1	<0.1	<0.1	<5	<1	<1	<1	<1
Benzo(b)fluoranthene	ug/L	1.5 (S, AA)	ID	ID	1.5 (S,AA)	ID	<1	<0.1	<5	<1	<1	<1	<1	<0.1	<0.1	<5	<1	<1	<1	<1
Benzo(g,h,i)perylene	ug/L	1.0 (M); 0.26 (S)	NA	NLV	1.0 (M,AA); 0.26 (S)	ID	<1	<0.1	<5	<1	<1	<1	<1	<0.1	<0.1	<5	<1	<1	<1	<1
Benzo(k)fluoranthene	ug/L	1.0 (M); 0.8 (S)	NA	NLV	1.0 (M,AA); 0.8 (S)	ID	<1	<0.1	<5	<1	<1	<1	<1	<0.1	<0.1	<5	<1	<1	<1	<1
Chrysene	ug/L	1.6 (S)	ID	ID	1.6 (S,AA)	ID	<1	<0.1	<5	<1	<1	<1	<1	<0.1	<0.1	<5	<1	<1	<1	<1
Dibenzo(a,h)anthracene	ug/L	2.0 (M); 0.85	ID	NLV	2.0 (M,AA); 0.31	ID	<2	<0.1	<5	<2	<2	<2	<2	<0.1	<0.1	<5	<2	<2	<2	<2
Fluoranthene	ug/L	210 (S)	1.6	210 (S)	210 (S)	ID	<1	<0.1	<5	<1	<1	<1	<1	<0.1	<0.1	<5	<1	<1	<1	<1
Fluorene	ug/L	2,000 (S)	12	2,000 (S)	2,000 (S)	ID	<5	<0.1	<5	<5	<5	<5	<5	<0.1	<0.1	<5	<5	<5	<5	<5
Indeno(1,2,3-cd)pyrene	ug/L	2.0 (M); 0.022 (S)	ID	NLV	2.0 (M, AA); 0.022 (S)	ID	<2	<0.1	<5	<2	<2	<2	<2	<0.015	<0.1	<5	<2	<2	<2	<2
Naphthalene	ug/L	1,500	11	31,000 (S)	31,000 (S)	NA	**31**	<0.1	<5	<5	<5	<5	<5	<0.1	<0.1	<5	<5	<5	<5	<5
Phenanthrene	ug/L	150	2.0 (M); 1.4	1,000 (S)	1,000 (S)	ID	<2	0.12	<5	<2	<2	<2	<2	<0.1	<0.1	<5	<2	<2	<2	<2
Pyrene	ug/L	140 (S)	ID	140 (S)	140 (S)	ID	<5	0.15	<5	<5	<5	<5	<5	0.15	<0.1	<5	<5	<5	<5	<5
Other Target PAHs	ug/L	various	various	various	various	various	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
VOCs (EPA Method 8260)																				
1,1,1-Trichloroethane	ug/L	200 (A)	200	1.3E+06 (S)	1.3E+06 (S)	ID	<50	<5	<1	<1	<1	<1	<1	<5	<5	<1	<1	<1	<1	<1
1,1,2,2-Tetrachloroethane	ug/L	35	78 (X)	77,000	4,700	ID	<50	<5	<1	<1	<1	<1	<1	<5	<5	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	ug/L	5.0 (A)	330 (X)	1.10E+05	21,000	NA	<50	<5	<1	<1	<1	<1	<1	<5	<5	<1	<1	<1	<1	<1
1,1-Dichloroethane	ug/L	2,500	740	2.30E+06	2.40E+06	3.80E+05	<50	<5	<1	<1	<1	<1	<1	<5	<5	<1	<1	<1	<1	<1
1,1-Dichloroethene	ug/L	7.0 (A)	65 (X)	1,300	11,000	97,000	<50	<5	<1	<1	<1	<1	<1	<5	<5	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene	ug/L	63 (E)	17	56,000 (S)	56,000 (S)	56,000 (S)	**450 Y**	<5	<1	<1	<1	<1	<1	<5	<5	<1	<1	<1	<1	<1
1,2-Dichloroethane	ug/L	5.0 (A)	360 (X)	59,000	19,000	2.50E+06	<160	<5	<1	<1	<1	<1	<1	<5	<5	<1	<1	<1	<1	<1
1,2-Dichloropropane	ug/L	5.0 (A)	290 (X)	36,000	16,000	5.50E+05	<50	<5	<1	<1	<1	<1	<1	<5	<5	<1	<1	<1	<1	<1
1,3,5-Trimethylbenzene	ug/L	72 (E)	45	61,000 (S)	61,000 (S)	ID	**150 Y**	<5	<1	<1	<1	<1	<1	<5	<5	<1	<1	<1	<1	<1
2-Butanone	ug/L	38,000	2,200	2.4E+08 (S)	2.4E+08 (S)	ID	<1000	<20	<30	<30	<25	<25	<25	<20	<20	<30	<30	<25	<25	<25
2-Hexanone	ug/L	2,900	NA	8.70E+06	5.20E+06	NA	<3000	<10	<50	<50	<50	<50	<50	<10	<10	<50	<50	<50	<50	<50
4-Methyl-2-pentanone	ug/L	5,200	ID	2.0E+07 (S)	1.30E+07	ID	<3000	<10	<50	<50	<50	<50	<50	<10	<10	<50	<50	<50	<50	<50
Acetone	ug/L	2,100	1,700	1.0E+09 (D,S)	3.10E+07	1.50E+07	<3000	<100	<50	<50	<50	<50	<50	<100	<100	<50	<50	<50	<50	<50
Benzene	ug/L	5.0 (A)	200 (X)	35,000	11,000	68,000	**4470 Y**	<5	<1	<1	<1	<1	<1	**8**	<5	<1	<1	<1	<1	<1
Bromochloromethane	ug/L	none	none	none	none	none	<50	<5	<1	<1	<1	<1	<1	<5	<5	<1	<1	<1	<1	<1
Bromoform	ug/L	80 (A,W)	ID	3.10E+06	1.40E+05	ID	<50	<5	<1	<1	<1	<1	<1	<5	<5	<1	<1	<1	<1	<1
Bromomethane	ug/L	29	35	9,000	70,000	ID	<300	<10	<5	<5	<5	<5	<5	<10	<10	<5	<5	<5	<5	<5
n-Butylbenzene	ug/L	230	ID	ID	5,900	ID	<50	NA	<1	<1	<1	<1	<1		NA	<1	<1	<1	<1	<1
Carbon disulfide	ug/L	2,300	ID	5.50E+05	1.2E+06 (S)	13,000	<300	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Carbon tetrachloride	ug/L	5.0 (A)	45 (X)	2,400	4,600	ID	<50	<5	<1	<1	<1	<1	<1	<5	<5	<1	<1	<1	<1	<1
Chlorobenzene	ug/L	100 (A)	47	4.70E+05	86,000	1.60E+05	<50	<5	<1	<1	<1	<1	<1	<5	<5	<1	<1	<1	<1	<1
Chloroethane	ug/L	1,700	ID	5.7E+06 (S)	4.40E+05	1.10E+05	<300	<10	<5	<5	<5	<5	<5	<10	<10	<5	<5	<5	<5	<5
Chloroform	ug/L	80 (A, W)	170 (X)	1.80E+05	1.50E+05	ID	<50	<5	<1	<1	<1	<1	<1	<5	<5	<1	<1	<1	<1	<1
Chloromethane	ug/L	1,100	ID	45,000	4.90E+05	36,000	<300	<10	<5	<5	<5	<5	<5	<10	<10	<5	<5	<5	<5	<5
Dibromochloromethane	ug/L	80 (A, W)	ID	1.10E+05	18,000	ID	<300	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Ethylbenzene	ug/L	74 (E)	18	1.7E+05 (S)	1.7E+05 (S)	43,000	**650 Y**	<5	<1	<1	<1	<1	<1	<5	<5	<1	<1	<1	<1	<1
Methylene chloride	ug/L	5.0 (A)	940 (X)	1.40E+06	2.20E+05	ID	<300	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
n-Propylbenzene	ug/L	230	ID	ID	15,000	ID	100 Y	NA	<1	<1	<1	<1	<1		NA	<1	<1	<1	<1	<1
Styrene	ug/L	100 (A)	80	3.1E+05 (S)	9,700	1.40E+05	<50	<5	<1	<1	<1	<1	<1	<5	<5	<1	<1	<1	<1	<1
Tetrachloroethylene	ug/L	5.0 (A)	60 (X)	1.70E+05	12,000	ID	<50	<5	<1	<1	<1	<1	<1	<5	<5	<1	<1	<1	<1	<1
Toluene	ug/L	790 (E)	140	5.3E+05 (S)	5.3E+05 (S)	61,000	70 Y	<5	<1	<1	<1	<1	<1	<5	<5	<1	<1	<1	<1	<1
Trichloroethene	ug/L	5.0 (A)	200 (X)	4,900	22,000	ID	<50	<5	<1	<1	<1	<1	<1	<5	**11**	**14**	**23**	**59**	**62**	**65**
Vinyl chloride	ug/L	2.0 (A)	15	13,000	1,000	33,000	<50	<2	<1	<1	<1	<1	<1	<2	<2	<1	<1	<1	<1	<1
cis-1,2-Dichloroethene	ug/L	70 (A)	620	2.10E+05	2.00E+05	5.30E+05	<50	<5	<1	<1	<1	<1	<1	<5	<5	<1	2	8	9	10
cis-1,3-Dichloropropene	ug/L	none	none	none	none	none	<50	<5	<1	<1	<1	<1	<1	<5	<5	<1	<1	<1	<1	<1
m,p-Xylene	ug/L	none	none	none	none	none	600 Y	<5	<2	<2	<1	<1	<1	<5	<5	<2	<2	<1	<1	<1
o-Xylene	ug/L	none	none	none	none	none	60 Y	<5	<1	<1	<2	<2	<2	<5	<5	<1	<1	<2	<2	<2
Xylenes, Total	ug/L	280 (E)	35	1.9E+05 (S)	1.9E+05 (S)	70,000	NA	<5	<3	NA	<3	<3	<3	<5	<5	<3	NA	<3	<3	<3
trans-1,2-Dichloroethene	ug/L	100 (A)	1,500	2.0E+05 (S)	2.20E+05	2.3E+05 (S)	<50	<5	<1	<1	<1	<1	<1	<5	<5	<1	<1	<1	<1	<1
trans-1,3-Dichloropropene	ug/L	none	none	none	none	none	<50	<5	<1	<1	<1	<1	<1	<5	<5	<1	<1	<1	<1	<1
1,2-Dichloroethene (total)	ug/L	none	none	none	none	none	NA	<5	<1	NA	NA	NA	NA	<5	<5	<1	NA	NA	NA	NA
1,2,3-Trimethylbenzene	ug/L	none	none	none	none	none	<50	NA	<1	<1	<1	<1	<1		NA	<1	<1	<1	<1	<1
Other Target VOCs	ug/L	various	various	various	various	various	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MTBE (EPA Method 8021B)	ug/L	40 (E)	730 (X)	4.7E+07 (S)	6.10E+05	ID	<300	<1	<5	<5	<5	<5	<5	<1	<1	<5	<5	<5	<5	<5
Dissolved Metals (Method 6020)																				
Lead	mg/L	0.004 (L)	(G,X)	NLV	ID	ID	<0.003	<0.005	<0.001	<0.003	<0.003	<0.003	<0.003	<0.005	<0.005	<0.001	<0.003	<0.003	<0.003	<0.003

Notes: See Last Page

TABLE 2

FORMER GM EMPLOYEE DEVELOPMENT CENTER
65 EAST UNIVERSITY
PONTIAC, MICHIGAN

GROUNDWATER ANALYTICAL DATA

Sample ID:	Units	Michigan Groundwater Cleanup Criteria and Risk Based Screening Levels					MW-6 Northeast Corner of Building - Classroom	MW-6 Northeast Corner of Building - Classroom	MW-7 Southern Portion of East Garage	MW-7 Southern Portion of East Garage	MW-8 Southern Portion of West Garage	MW-8 Southern Portion of West Garage	MW-8 Southern Portion of West Garage	MW-8 Southern Portion of West Garage	MW-8 Southern Portion of West Garage	MW-9 South of Building on Sidewalk	MW-9 South of Building on Sidewalk	MW-9 South of Building on Sidewalk	MW-9 South of Building on Sidewalk	MW-9 South of Building on Sidewalk	MW-10 East-Northeast of Building
		Non-Residential Drinking Water Protection Criteria & RBSLs	Groundwater Surface Water Interface Criteria & RBSLs	Non-Residential Groundwater Volatilization to Indoor Air Inhalation Criteria & RBSLs	Groundwater Contact Criteria & RBSLs	Flammability and Explosivity Screening Level															
Date Collected:							2/13/2008	11/3/2010	2/11/2008	11/3/2010	2/11/2008	11/3/2010	1/31/2013	6/27/2013	9/20/2013	7/28/2008	11/3/2010	2/1/2013	6/27/2013	9/19/2013	2/12/2008
Screened Interval (feet bgl):							3-13	3-13	5-15	5-15	8-18	8-18	8-18	8-18	8-18	3-13	3-13	3-13	3-13	3-13	6-16
Analytical Parameter																					
TPH (EPA Method 418.1)	mg/L	none	none	none	none	none	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Semivolatile Hydrocarbons (EPA Method 8015B)																					
Gasoline Range Organics	mg/L	none	none	none	none	none	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Diesel Range Organics	mg/L	none	none	none	none	none	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fuel Oil	mg/L	none	none	none	none	none	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hydraulic Fluid	mg/L	none	none	none	none	none	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Kerosene	mg/L	none	none	none	none	none	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mineral Spirits	mg/L	none	none	none	none	none	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Motor Oil	mg/L	none	none	none	none	none	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PAH (EPA Method 8310)																					
1-Methylnaphthalene	ug/L	none	none	none	none	none	31	NA	31	NA	8	NA	<5	<5	<5	NA	NA	<5	<5	<5	<5
2-Methylnaphthalene	ug/L	750	19	25,000 (S)	25,000 (S)	ID	**51**	**21**	**52**	**52**	17	**21**	<5	5	8	<5	<5	<5	<5	<5	<5
Acenaphthene	ug/L	3,800	38	4,200 (S)	4,200 (S)	ID	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Acenapthylene	ug/L	150	ID	3,900 (S)	3,900 (S)	ID	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Anthracene	ug/L	43 (S)	ID	43 (S)	43 (S)	ID	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Benz(a)anthracene	ug/L	8.5	ID	NLV	9.4 (S,AA)	ID	<5	<2	<5	<2	<5	<2	<1	<1	<1	<1	<1	<1	<1	<1	<5
Benzo(a)pyrene	ug/L	5.0 (A)	ID	NLV	1.0 (M,AA); 0.64	ID	<5	<2	<5	<2	<5	<2	<1	<1	<1	<1	<1	<1	<1	<1	<5
Benzo(b)fluoranthene	ug/L	1.5 (S, AA)	ID	ID	1.5 (S,AA)	ID	<5	<2	<5	<2	<5	<2	<1	<1	<1	<1	<1	<1	<1	<1	<5
Benzo(g,h,i)perylene	ug/L	1.0 (M); 0.26 (S)	NA	NLV	1.0 (M,AA); 0.26 (S)	ID	<5	<2	<5	<2	<5	<2	<1	<1	<1	<1	<1	<1	<1	<1	<5
Benzo(k)fluoranthene	ug/L	1.0 (M); 0.8 (S)	NA	NLV	1.0 (M,AA); 0.8 (S)	ID	<5	<2	<5	<2	<5	<2	<1	<1	<1	<1	<1	<1	<1	<1	<5
Chrysene	ug/L	1.6 (S)	ID	ID	1.6 (S,AA)	ID	<5	<2	<5	<2	<5	<2	<1	<1	<1	<1	<1	<1	<1	<1	<5
Dibenzo(a,h)anthracene	ug/L	2.0 (M); 0.85	ID	NLV	2.0 (M,AA); 0.31	ID	<5	<2	<5	<2	<5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<5
Fluoranthene	ug/L	210 (S)	1.6	210 (S)	210 (S)	ID	<5	<2	<5	<2	<5	<2	<1	<1	<1	<1	<1	<1	<1	<1	<5
Fluorene	ug/L	2,000 (S)	12	2,000 (S)	2,000 (S)	ID	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Indeno(1,2,3-cd)pyrene	ug/L	2.0 (M); 0.022 (S)	ID	NLV	2.0 (M, AA); 0.022 (S)	ID	<5	<2	<5	<2	<5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<5
Naphthalene	ug/L	1,500	11	31,000 (S)	31,000 (S)	NA	**135**	**72**	**142**	**156**	**109**	**134**	**21**	**39**	**43**	<5	<5	<5	<5	<5	<5
Phenanthrene	ug/L	150	2.0 (M); 1.4	1,000 (S)	1,000 (S)	ID	<5	<2	<5	<2	<5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<5
Pyrene	ug/L	140 (S)	ID	140 (S)	140 (S)	ID	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Other Target PAHs	ug/L	various	various	various	various	various	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
VOCs (EPA Method 8260)																					
1,1,1-Trichloroethane	ug/L	200 (A)	200	1.3E+06 (S)	1.3E+06 (S)	ID	<300	<50	<50	<100	<200	<100	<20	<20	<20	<1	<1	<1	<1	<1	<1
1,1,2,2-Tetrachloroethane	ug/L	35	78 (X)	77,000	4,700	ID	<300	<50	<50	<100	<200	<100	<20	<20	<20	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	ug/L	5.0 (A)	330 (X)	1.10E+05	21,000	NA	<300	<50	<50	<100	<200	<100	<20	<20	<20	<1	<1	<1	<1	<1	<1
1,1-Dichloroethane	ug/L	2,500	740	2.30E+06	2.40E+06	3.80E+05	<300	<50	<50	<100	<200	<100	<20	<20	<20	<1	<1	<1	<1	<1	<1
1,1-Dichloroethene	ug/L	7.0 (A)	65 (X)	1,300	11,000	97,000	<300	<50	<50	<100	<200	<100	<20	<20	<20	<1	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene	ug/L	63 (E)	17	56,000 (S)	56,000 (S)	56,000 (S)	**500**	**610 Y**	**1,150**	**500 Y**	**900**	**400 Y**	**280**	**450**	**450**	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	ug/L	5.0 (A)	360 (X)	59,000	19,000	2.50E+06	<300	<230	<50	<100	<200	<210	<20	<20	<20	<1	<1	<1	<1	<1	<1
1,2-Dichloropropane	ug/L	5.0 (A)	290 (X)	36,000	16,000	5.50E+05	<300	<50	<50	<100	<200	<100	<20	<20	<20	<1	<1	<1	<1	<1	<1
1,3,5-Trimethylbenzene	ug/L	72 (E)	45	61,000 (S)	61,000 (S)	ID	<300	**80 Y**	**310**	**200 Y**	**300**	**100 Y**	**50**	**70**	**100**	<1	<1	<1	<1	<1	<1
2-Butanone	ug/L	38,000	2,200	2.4E+08 (S)	2.4E+08 (S)	ID	<6,000	<1000	<1,000	<3000	<5,000	<3000	<500	<500	<500	<30	<30	<25	<25	<25	<30
2-Hexanone	ug/L	2,900	NA	8.70E+06	5.20E+06	NA	<10,000	<3000	<3,000	<5000	<10,000	<5000	<1,000	<1,000	<1,000	<50	<50	<50	<50	<50	<50
4-Methyl-2-pentanone	ug/L	5,200	ID	2.0E+07 (S)	1.30E+07	ID	<10,000	<3000	<3,000	<5000	<10,000	<5000	<1,000	<1,000	<1,000	<50	<50	<50	<50	<50	<50
Acetone	ug/L	2,100	1,700	1.0E+09 (D,S)	3.10E+07	1.50E+07	<10,000	<3000	<3,000	<5000	<10,000	<5000	<1,000	<1,000	<1,000	<50	<50	<50	<50	<50	<50
Benzene	ug/L	5.0 (A)	200 (X)	35,000	11,000	68,000	**13,200**	**5930 Y**	**1,240**	**1700 Y**	**7,900**	**5800 Y**	**1,530**	**2,100**	**2,350**	<1	<1	<1	<1	<1	<1
Bromochloromethane	ug/L	none	none	none	none	none	<300	<50	<50	<100	<200	<100	<20	<20	<20	<1	<1	<1	<1	<1	<1
Bromoform	ug/L	80 (A,W)	ID	3.10E+06	1.40E+05	ID	<300	<50	<50	<100	<200	<100	<20	<20	<20	<1	<1	<1	<1	<1	<1
Bromomethane	ug/L	29	35	9,000	70,000	ID	<1,000	<300	<300	<500	<1,000	<500	<100	<100	<100	<5	<5	<5	<5	<5	<5
n-Butylbenzene	ug/L	230	ID	ID	5,900	ID	<300	<50	<50	<100	<200	<100	<20	<20	<20	<1	<1	<1	<1	<1	<1
Carbon disulfide	ug/L	2,300	ID	5.50E+05	1.2E+06 (S)	13,000	<1,000	<300	<300	<500	<1,000	<500	<100	<100	<100	<5	<5	<5	<5	<5	<5
Carbon tetrachloride	ug/L	5.0 (A)	45 (X)	2,400	4,600	ID	<300	<50	<50	<100	<200	<100	<20	<20	<20	<1	<1	<1	<1	<1	<1
Chlorobenzene	ug/L	100 (A)	47	4.70E+05	86,000	1.60E+05	<300	<50	<50	<100	<200	<100	<20	<20	<20	<1	<1	<1	<1	<1	<1
Chloroethane	ug/L	1,700	ID	5.7E+06 (S)	4.40E+05	1.10E+05	<1,000	<300	<300	<500	<1,000	<500	<100	<100	<100	<5	<5	<5	<5	<5	<5
Chloroform	ug/L	80 (A, W)	170 (X)	1.80E+05	1.50E+05	ID	<300	<50	<50	<100	<200	<100	<20	<20	<20	<1	<1	<1	<1	<1	<1
Chloromethane	ug/L	1,100	ID	45,000	4.90E+05	36,000	<1,000	<300	<300	<500	<1,000	<500	<100	<100	<100	<5	<5	<5	<5	<5	<5
Dibromochloromethane	ug/L	80 (A, W)	ID	1.10E+05	18,000	ID	<1,000	<300	<300	<500	<1,000	<500	<100	<100	<100	<5	<5	<5	<5	<5	<5
Ethylbenzene	ug/L	74 (E)	18	1.7E+05 (S)	1.7E+05 (S)	43,000	**1,000**	**1020 Y**	**2,980**	**2000 Y**	**2,000**	**1400 Y**	**460**	**770**	**910**	<1	<1	<1	<1	<1	<1
Methylene chloride	ug/L	5.0 (A)	940 (X)	1.40E+06	2.20E+05	ID	<1,000	<300	<300	<500	<1,000	<500	<100	<100	<100	<5	<5	<5	<5	<5	<5
n-Propylbenzene	ug/L	230	ID	ID	15,000	ID	<300	90	170	<100	<200	<100	40	80	80	<1	<1	<1	<1	<1	<1
Styrene	ug/L	100 (A)	80	3.1E+05 (S)	9,700	1.40E+05	<300	<50	<70	<100	<200	<100	<20	<20	<20	<1	<1	<1	<1	<1	<1
Tetrachloroethylene	ug/L	5.0 (A)	60 (X)	1.70E+05	12,000	ID	<300	<50	<50	<100	<200	<100	<20	<20	<20	<1	<1	<1	<1	<1	<1
Toluene	ug/L	790 (E)	140	5.3E+05 (S)	5.3E+05 (S)	61,000	**6,600**	**1890 Y**	**7,560**	**3800 Y**	**6,800**	**7900 Y**	40	130	130	<1	<1	<1	<1	<1	<1
Trichloroethene	ug/L	5.0 (A)	200 (X)	4,900	22,000	ID	<300	<50	<50	<100	<200	<100	<20	<20	<20	<1	<1	<1	<1	<1	<1
Vinyl chloride	ug/L	2.0 (A)	15	13,000	1,000	33,000	**1,500**	**170 Y**	<50	<100	<200	<100	<20	<20	<20	<1	<1	<1	<1	<1	<1
cis-1,2-Dichloroethene	ug/L	70 (A)	620	2.10E+05	2.00E+05	5.30E+05	**2,200**	**480 Y**	<50	<100	<200	<100	<20	<20	<20	<1	<1	<1	<1	<1	<1
cis-1,3-Dichloropropene	ug/L	none	none	none	none	none	<300	<50	<50	<100	<200	<100	<20	<20	<20	<1	<1	<1	<1	<1	<1
m,p-Xylene	ug/L	none	none	none	none	none	2,600	1500 Y	9,000	5500 Y	7,000	4800 Y	900	1,340	590	<2	<2	<1	<1	<1	<2
o-Xylene	ug/L	none	none	none	none	none	700	350 Y	1,990	1300 Y	1,600	2000 Y	270	430	1,920	<1	<1	<2	<2	<2	<1
Xylenes, Total	ug/L	280 (E)	35	1.9E+05 (S)	1.9E+05 (S)	70,000	**3,300**	**1850 Y**	**10,990**	**6800 Y**	**8,600**	**6800 Y**	**1,170**	**1,770**	**2,510**	<3	<3	<3	<3	<3	<3
trans-1,2-Dichloroethene	ug/L	100 (A)	1,500	2.0E+05 (S)	2.20E+05	2.3E+05 (S)	<300	<50	<50	<100	<200	<100	<20	<20	<20	<1	<1	<1	<1	<1	<1
trans-1,3-Dichloropropene	ug/L	none	none	none	none	none	<300	<50	<50	<100	<200	<100	<20	<20	<20	<1	<1	<1	<1	<1	<1
1,2-Dichloroethene (total)	ug/L	none	none	none	none	none	<300	NA	<50	NA	<200	NA	NA	NA	NA	<2	NA	NA	NA	NA	<1
1,2,3-Trimethylbenzene	ug/L	none	none	none	none	none	<300	170 Y	310	200 Y	300	100 Y	60	110	140	<5	<1	<1	<1	<1	<1
Other Target VOCs	ug/L	various	various	various	various	various	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MTBE (EPA Method 8021B)	ug/L	40 (E)	730 (X)	4.7E+07 (S)	6.10E+05	ID	<1	<300	<300	<500	<1,000	<500	<100	<100	<100	<5	<5	<5	<5	<5	<5
Dissolved Metals (Method 6020)																					
Lead	mg/L	0.004 (L)	(G,X)	NLV	ID	ID	0.004	<0.003	**0.034**	0.004	**0.010**	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.001

Notes: See Last Page

TABLE 2

FORMER GM EMPLOYEE DEVELOPMENT CENTER
65 EAST UNIVERSITY
PONTIAC, MICHIGAN

GROUNDWATER ANALYTICAL DATA

Sample ID:	Units	Michigan Groundwater Cleanup Criteria and Risk Based Screening Levels					MW-10	MW-10	MW-10	MW-10	MW-10	MW-11	MW-11	MW-11	MW-11	MW-11	MW-12	MW-12	MW-12	MW-12	MW-12	MW-13
		Non-Residential Drinking Water Protection Criteria & RBSLs	Groundwater Surface Water Interface Criteria & RBSLs	Non-Residential Groundwater Volatilization to Indoor Air Inhalation Criteria & RBSLs	Groundwater Contact Criteria & RBSLs	Flammability and Explosivity Screening Level	East-Northeast of Building	East-Northeast of Building	East-Northeast of Building	East-Northeast of Building	East-Northeast of Building	West of Building on Sidewalk	West of Building on Sidewalk	West of Building on Sidewalk	West of Building on Sidewalk	West of Building on Sidewalk	Outside East of the Building - Northeast of Freight Elevator	Outside East of the Building - Northeast of Freight Elevator	Outside East of the Building - Northeast of Freight Elevator	Outside East of the Building - Northeast of Freight Elevator	Outside East of the Building - Northeast of Freight Elevator	North of Building Along Mill Street Fence
Date Collected:							7/28/2008	11/2/2010	1/29/2013	6/25/2013	9/17/2013	2/13/2008	11/2/2010	1/30/2013	6/27/2013	9/19/2013	2/12/2008	11/3/2010	1/31/2013	6/27/2013	9/19/2013	2/12/2008
Screened Interval (feet bgl):							6-16	6-16	6-16	6-16	6-16	9-19	9-19	9-19	9-19	9-19	9-19	9-19	9-19	9-19	9-19	8-18
Analytical Parameter																						
TPH (EPA Method 418.1)	mg/L	none	none	none	none	none	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Semivolatile Hydrocarbons (EPA Method 8015B)																						
Gasoline Range Organics	mg/L	none	none	none	none	none	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Diesel Range Organics	mg/L	none	none	none	none	none	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fuel Oil	mg/L	none	none	none	none	none	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hydraulic Fluid	mg/L	none	none	none	none	none	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Kerosene	mg/L	none	none	none	none	none	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mineral Spirits	mg/L	none	none	none	none	none	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Motor Oil	mg/L	none	none	none	none	none	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PAH (EPA Method 8310)																						
1-Methylnaphthalene	ug/L	none	none	none	none	none	NA	NA	<5	<5	<5	<5	NA	<5	<5	<5	<5	NA	<5	<5	<5	<5
2-Methylnaphthalene	ug/L	750	19	25,000 (S)	25,000 (S)	ID	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Acenaphthene	ug/L	3,800	38	4,200 (S)	4,200 (S)	ID	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Acenapthylene	ug/L	150	ID	3,900 (S)	3,900 (S)	ID	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Anthracene	ug/L	43 (S)	ID	43 (S)	43 (S)	ID	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Benz(a)anthracene	ug/L	8.5	ID	NLV	9.4 (S,AA)	ID	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<5	<1	<1	<1	<1	<5
Benzo(a)pyrene	ug/L	5.0 (A)	ID	NLV	1.0 (M,AA); 0.64	ID	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<5	<1	<1	<1	<1	<5
Benzo(b)fluoranthene	ug/L	1.5 (S, AA)	ID	ID	1.5 (S,AA)	ID	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<5	<1	<1	<1	<1	<5
Benzo(g,h,i)perylene	ug/L	1.0 (M); 0.26 (S)	NA	NLV	1.0 (M,AA); 0.26 (S)	ID	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<5	<1	<1	<1	<1	<5
Benzo(k)fluoranthene	ug/L	1.0 (M); 0.8 (S)	NA	NLV	1.0 (M,AA); 0.8 (S)	ID	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<5	<1	<1	<1	<1	<5
Chrysene	ug/L	1.6 (S)	ID	ID	1.6 (S,AA)	ID	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<5	<1	<1	<1	<1	<5
Dibenzo(a,h)anthracene	ug/L	2.0 (M); 0.85	ID	NLV	2.0 (M,AA); 0.31	ID	<2	<2	<2	<2	<2	<5	<2	<2	<2	<2	<5	<2	<2	<2	<2	<5
Fluoranthene	ug/L	210 (S)	1.6	210 (S)	210 (S)	ID	<1	<1	<1	<1	<1	<5	<1	<2	<1	<1	<5	<1	<1	<1	<1	<5
Fluorene	ug/L	2,000 (S)	12	2,000 (S)	2,000 (S)	ID	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Indeno(1,2,3-cd)pyrene	ug/L	2.0 (M); 0.022 (S)	ID	NLV	2.0 (M, AA); 0.022 (S)	ID	<2	<2	<2	<2	<2	<5	<2	<2	<2	<2	<5	<2	<2	<2	<2	<5
Naphthalene	ug/L	1,500	11	31,000 (S)	31,000 (S)	NA	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Phenanthrene	ug/L	150	2.0 (M); 1.4	1,000 (S)	1,000 (S)	ID	<2	<2	<2	<2	<2	<5	<2	<2	<2	<2	<5	<2	<2	<2	<2	<5
Pyrene	ug/L	140 (S)	ID	140 (S)	140 (S)	ID	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Other Target PAHs	ug/L	various	various	various	various	various	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
VOCs (EPA Method 8260)																						
1,1,1-Trichloroethane	ug/L	200 (A)	200	1.3E+06 (S)	1.3E+06 (S)	ID	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-Tetrachloroethane	ug/L	35	78 (X)	77,000	4,700	ID	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	ug/L	5.0 (A)	330 (X)	1.10E+05	21,000	NA	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-Dichloroethane	ug/L	2,500	740	2.30E+06	2.40E+06	3.80E+05	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-Dichloroethene	ug/L	7.0 (A)	65 (X)	1,300	11,000	97,000	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene	ug/L	63 (E)	17	56,000 (S)	56,000 (S)	56,000 (S)	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	ug/L	5.0 (A)	360 (X)	59,000	19,000	2.50E+06	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloropropane	ug/L	5.0 (A)	290 (X)	36,000	16,000	5.50E+05	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,3,5-Trimethylbenzene	ug/L	72 (E)	45	61,000 (S)	61,000 (S)	ID	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
2-Butanone	ug/L	38,000	2,200	2.4E+08 (S)	2.4E+08 (S)	ID	<30	<30	<25	<25	<25	<30	<30	<25	<25	<25	<30	<30	<25	<25	<25	<30
2-Hexanone	ug/L	2,900	NA	8.70E+06	5.20E+06	NA	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
4-Methyl-2-pentanone	ug/L	5,200	ID	2.0E+07 (S)	1.30E+07	ID	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
Acetone	ug/L	2,100	1,700	1.0E+09 (D,S)	3.10E+07	1.50E+07	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
Benzene	ug/L	5.0 (A)	200 (X)	35,000	11,000	68,000	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromochloromethane	ug/L	none	none	none	none	none	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromoform	ug/L	80 (A,W)	ID	3.10E+06	1.40E+05	ID	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromomethane	ug/L	29	35	9,000	70,000	ID	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
n-Butylbenzene	ug/L	230	ID	ID	5,900	ID	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbon disulfide	ug/L	2,300	ID	5.50E+05	1.2E+06 (S)	13,000	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Carbon tetrachloride	ug/L	5.0 (A)	45 (X)	2,400	4,600	ID	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlorobenzene	ug/L	100 (A)	47	4.70E+05	86,000	1.60E+05	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroethane	ug/L	1,700	ID	5.7E+06 (S)	4.40E+05	1.10E+05	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Chloroform	ug/L	80 (A, W)	170 (X)	1.80E+05	1.50E+05	ID	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloromethane	ug/L	1,100	ID	45,000	4.90E+05	36,000	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Dibromochloromethane	ug/L	80 (A, W)	ID	1.10E+05	18,000	ID	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Ethylbenzene	ug/L	74 (E)	18	1.7E+05 (S)	1.7E+05 (S)	43,000	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methylene chloride	ug/L	5.0 (A)	940 (X)	1.40E+06	2.20E+05	ID	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
n-Propylbenzene	ug/L	230	ID	ID	15,000	ID	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Styrene	ug/L	100 (A)	80	3.1E+05 (S)	9,700	1.40E+05	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethylene	ug/L	5.0 (A)	60 (X)	1.70E+05	12,000	ID	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	ug/L	790 (E)	140	5.3E+05 (S)	5.3E+05 (S)	61,000	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethene	ug/L	5.0 (A)	200 (X)	4,900	22,000	ID	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	5	**9**	**8**	**7**	**8**	<1
Vinyl chloride	ug/L	2.0 (A)	15	13,000	1,000	33,000	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
cis-1,2-Dichloroethene	ug/L	70 (A)	620	2.10E+05	2.00E+05	5.30E+05	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
cis-1,3-Dichloropropene	ug/L	none	none	none	none	none	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
m,p-Xylene	ug/L	none	none	none	none	none	<2	<2	<1	<1	<1	<2	<2	<1	<1	<1	<2	<2	<1	<1	<1	<2
o-Xylene	ug/L	none	none	none	none	none	<1	<1	<2	<2	<2	<1	<1	<2	<2	<2	<1	<1	<2	<2	<2	<1
Xylenes, Total	ug/L	280 (E)	35	1.9E+05 (S)	1.9E+05 (S)	70,000	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
trans-1,2-Dichloroethene	ug/L	100 (A)	1,500	2.0E+05 (S)	2.20E+05	2.3E+05 (S)	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
trans-1,3-Dichloropropene	ug/L	none	none	none	none	none	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethene (total)	ug/L	none	none	none	none	none	<2	NA	NA	NA	NA	<1	NA	NA	NA	NA	<1	NA	NA	NA	NA	<1
1,2,3-Trimethylbenzene	ug/L	none	none	none	none	none	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Other Target VOCs	ug/L	various	various	various	various	various	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MTBE (EPA Method 8021B)	ug/L	40 (E)	730 (X)	4.7E+07 (S)	6.10E+05	ID	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Dissolved Metals (Method 6020)																						
Lead	mg/L	0.004 (L)	(G,X)	NLV	ID	ID	<0.003	<0.003	<0.003	<0.003	<0.003	<0.001	<0.003	<0.003	<0.003	<0.003	<0.001	<0.003	<0.003	<0.003	<0.003	<0.001

Notes: See Last Page

TABLE 2

FORMER GM EMPLOYEE DEVELOPMENT CENTER
65 EAST UNIVERSITY
PONTIAC, MICHIGAN

GROUNDWATER ANALYTICAL DATA

Sample ID:	Units	Michigan Groundwater Cleanup Criteria and Risk Based Screening Levels					MW-13 North of Building Along Mill Street Fence	MW-13 North of Building Along Mill Street Fence	MW-13 North of Building Along Mill Street Fence	MW-13 North of Building Along Mill Street Fence	MW-14 North of Building Along Mill Street Fence	MW-14 North of Building Along Mill Street Fence	MW-14 North of Building Along Mill Street Fence	MW-14 North of Building Along Mill Street Fence	MW-14 North of Building Along Mill Street Fence	MW-15 East-Northeast of Building	MW-15 East-Northeast of Building	MW-16 East-Northeast of Building	MW-16 East-Northeast of Building	MW-16 East-Northeast of Building	MW-16 East-Northeast o f Building
		Non-Residential Drinking Water Protection Criteria & RBSLs	Groundwater Surface Water Interface Criteria & RBSLs	Non-Residential Groundwater Volatilization to Indoor Air Inhalation Criteria & RBSLs	Groundwater Contact Criteria & RBSLs	Flammability and Explosivity Screening Level															
Date Collected:							11/1/2010	1/29/2013	6/26/2013	9/18/2013	2/12/2008	11/1/2010	1/29/2013	6/26/2013	9/19/2013	2/12/2008	11/3/2010	2/12/2008	11/2/2010	2/1/2013	6/25/2013
Screened Interval (feet bgl):							8-18	8-18	8-18	8-18	5-15	5-15	5-15	5-15	5-15	4-14	4-14	4-9	4-9	4-9	4-9
Analytical Parameter																					
TPH (EPA Method 418.1)	mg/L	none	none	none	none	none	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Semivolatile Hydrocarbons (EPA Method 8015B)																					
Gasoline Range Organics	mg/L	none	none	none	none	none	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Diesel Range Organics	mg/L	none	none	none	none	none	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fuel Oil	mg/L	none	none	none	none	none	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hydraulic Fluid	mg/L	none	none	none	none	none	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Kerosene	mg/L	none	none	none	none	none	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mineral Spirits	mg/L	none	none	none	none	none	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Motor Oil	mg/L	none	none	none	none	none	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PAH (EPA Method 8310)																					
1-Methylnaphthalene	ug/L	none	none	none	none	none	NA	<5	<5	<5	<5	NA	<5	<5	<5	11	NA	<5	NA	<5	<5
2-Methylnaphthalene	ug/L	750	19	25,000 (S)	25,000 (S)	ID	<5	<5	<5	<5	<5	<5	<5	<5	<5	16	**59**	<5	<5	<5	<5
Acenaphthene	ug/L	3,800	38	4,200 (S)	4,200 (S)	ID	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Acenapthylene	ug/L	150	ID	3,900 (S)	3,900 (S)	ID	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Anthracene	ug/L	43 (S)	ID	43 (S)	43 (S)	ID	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Benz(a)anthracene	ug/L	8.5	ID	NLV	9.4 (S,AA)	ID	<1	<1	<1	<1	<5	<1	<1	<1	<1	<5	<1	<5	<1	<1	<1
Benzo(a)pyrene	ug/L	5.0 (A)	ID	NLV	1.0 (M,AA); 0.64	ID	<1	<1	<1	<1	<5	<1	<1	<1	<1	<5	<1	<5	<1	<1	<1
Benzo(b)fluoranthene	ug/L	1.5 (S, AA)	ID	ID	1.5 (S,AA)	ID	<1	<1	<1	<1	<5	<1	<1	<1	<1	<5	<1	<5	<1	<1	<1
Benzo(g,h,i)perylene	ug/L	1.0 (M); 0.26 (S)	NA	NLV	1.0 (M,AA); 0.26 (S)	ID	<1	<1	<1	<1	<5	<1	<1	<1	<1	<5	<1	<5	<1	<1	<1
Benzo(k)fluoranthene	ug/L	1.0 (M); 0.8 (S)	NA	NLV	1.0 (M,AA); 0.8 (S)	ID	<1	<1	<1	<1	<5	<1	<1	<1	<1	<5	<1	<5	<1	<1	<1
Chrysene	ug/L	1.6 (S)	ID	ID	1.6 (S,AA)	ID	<1	<1	<1	<1	<5	<1	<1	<1	<1	<5	<1	<5	<1	<1	<1
Dibenzo(a,h)anthracene	ug/L	2.0 (M); 0.85	ID	NLV	2.0 (M,AA); 0.31	ID	<2	<2	<2	<2	<5	<2	<2	<2	<2	<5	<2	<5	<2	<2	<2
Fluoranthene	ug/L	210 (S)	1.6	210 (S)	210 (S)	ID	<1	<1	<1	<1	<5	<1	<1	<1	<1	<5	<1	<5	<1	<1	<1
Fluorene	ug/L	2,000 (S)	12	2,000 (S)	2,000 (S)	ID	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Indeno(1,2,3-cd)pyrene	ug/L	2.0 (M); 0.022 (S)	ID	NLV	2.0 (M, AA); 0.022 (S)	ID	<2	<2	<2	<2	<5	<2	<2	<2	<2	<5	<2	<5	<2	<2	<2
Naphthalene	ug/L	1,500	11	31,000 (S)	31,000 (S)	NA	<5	<5	<5	<5	<5	<5	<5	<5	<5	**50**	**137**	<5	<5	<5	<5
Phenanthrene	ug/L	150	2.0 (M); 1.4	1,000 (S)	1,000 (S)	ID	<2	<2	<2	<2	<5	<2	<2	<2	<2	<5	<2	<5	<2	<2	<2
Pyrene	ug/L	140 (S)	ID	140 (S)	140 (S)	ID	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Other Target PAHs	ug/L	various	various	various	various	various	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
VOCs (EPA Method 8260)																					
1,1,1-Trichloroethane	ug/L	200 (A)	200	1.3E+06 (S)	1.3E+06 (S)	ID	<1	<1	<1	<1	<1	<1	<1	<1	<1	<30	<20	<1	<1	<1	<1
1,1,2,2-Tetrachloroethane	ug/L	35	78 (X)	77,000	4,700	ID	<1	<1	<1	<1	<1	<1	<1	<1	<1	<30	<20	<1	<1	<1	<1
1,1,2-Trichloroethane	ug/L	5.0 (A)	330 (X)	1.10E+05	21,000	NA	<1	<1	<1	<1	<1	<1	<1	<1	<1	<30	<20	<1	<1	<1	<1
1,1-Dichloroethane	ug/L	2,500	740	2.30E+06	2.40E+06	3.80E+05	<1	<1	<1	<1	<1	<1	<1	<1	<1	<30	<20	<1	<1	<1	<1
1,1-Dichloroethene	ug/L	7.0 (A)	65 (X)	1,300	11,000	97,000	<1	<1	<1	<1	<1	<1	<1	<1	<1	<30	<20	<1	<1	<1	<1
1,2,4-Trimethylbenzene	ug/L	63 (E)	17	56,000 (S)	56,000 (S)	56,000 (S)	<1	<1	<1	<1	<1	<1	<1	<1	<1	**270**	**810 Y**	<1	<1	<1	<1
1,2-Dichloroethane	ug/L	5.0 (A)	360 (X)	59,000	19,000	2.50E+06	<1	<1	<1	<1	<1	<1	<1	<1	<1	<30	<40	<1	<1	<1	<1
1,2-Dichloropropane	ug/L	5.0 (A)	290 (X)	36,000	16,000	5.50E+05	<1	<1	<1	<1	<1	<1	<1	<1	<1	<30	<20	<1	<1	<1	<1
1,3,5-Trimethylbenzene	ug/L	72 (E)	45	61,000 (S)	61,000 (S)	ID	<1	<1	<1	<1	<1	<1	<1	<1	<1	**80**	**250 Y**	<1	<1	<1	<1
2-Butanone	ug/L	38,000	2,200	2.4E+08 (S)	2.4E+08 (S)	ID	<30	<25	<25	<25	<30	<30	<25	<25	<25	<600	<500	<30	<30	<25	<25
2-Hexanone	ug/L	2,900	NA	8.70E+06	5.20E+06	NA	<50	<50	<50	<50	<50	<50	<50	<50	<50	<1,000	<1000	<50	<50	<50	<50
4-Methyl-2-pentanone	ug/L	5,200	ID	2.0E+07 (S)	1.30E+07	ID	<50	<50	<50	<50	<50	<50	<50	<50	<50	<1,000	<1000	<50	<50	<50	<50
Acetone	ug/L	2,100	1,700	1.0E+09 (D,S)	3.10E+07	1.50E+07	<50	<50	<50	<50	<50	<50	<50	<50	<50	<1,000	<1000	<50	<50	<50	<50
Benzene	ug/L	5.0 (A)	200 (X)	35,000	11,000	68,000	<1	<1	<1	<1	<1	<1	<1	<1	<1	**1,460**	**1000 Y**	<1	<1	<1	<1
Bromochloromethane	ug/L	none	none	none	none	none	<1	<1	<1	<1	<1	<1	<1	<1	<1	<30	<20	<1	<1	<1	<1
Bromoform	ug/L	80 (A,W)	ID	3.10E+06	1.40E+05	ID	<1	<1	<1	<1	<1	<1	<1	<1	<1	<30	<20	<1	<1	<1	<1
Bromomethane	ug/L	29	35	9,000	70,000	ID	<5	<5	<5	<5	<5	<5	<5	<5	<5	<100	<100	<5	<5	<5	<5
n-Butylbenzene	ug/L	230	ID	ID	5,900	ID	<1	<1	<1	<1	<1	<1	<1	<1	<1	<30	<20	<1	<1	<1	<1
Carbon disulfide	ug/L	2,300	ID	5.50E+05	1.2E+06 (S)	13,000	<5	<5	<5	<5	<5	<5	<5	<5	<5	<100	<100	<5	<5	<5	<5
Carbon tetrachloride	ug/L	5.0 (A)	45 (X)	2,400	4,600	ID	<1	<1	<1	<1	<1	<1	<1	<1	<1	<30	<20	<1	<1	<1	<1
Chlorobenzene	ug/L	100 (A)	47	4.70E+05	86,000	1.60E+05	<1	<1	<1	<1	<1	<1	<1	<1	<1	<30	<20	<1	<1	<1	<1
Chloroethane	ug/L	1,700	ID	5.7E+06 (S)	4.40E+05	1.10E+05	<5	<5	<5	<5	<5	<5	<5	<5	<5	<100	<100	<5	<5	<5	<5
Chloroform	ug/L	80 (A, W)	170 (X)	1.80E+05	1.50E+05	ID	<1	<1	<1	<1	<1	<1	<1	<1	<1	<30	<20	<1	<1	<1	<1
Chloromethane	ug/L	1,100	ID	45,000	4.90E+05	36,000	<5	<5	<5	<5	<5	<5	<5	<5	<5	<100	<100	<5	<5	<5	<5
Dibromochloromethane	ug/L	80 (A, W)	ID	1.10E+05	18,000	ID	<5	<5	<5	<5	<5	<5	<5	<5	<5	<100	<100	<5	<5	<5	<5
Ethylbenzene	ug/L	74 (E)	18	1.7E+05 (S)	1.7E+05 (S)	43,000	<1	<1	<1	<1	<1	<1	<1	<1	<1	**640**	**1320 Y**	<1	<1	<1	<1
Methylene chloride	ug/L	5.0 (A)	940 (X)	1.40E+06	2.20E+05	ID	<5	<5	<5	<5	<5	<5	<5	<5	<5	<100	<100	<5	<5	<5	<5
n-Propylbenzene	ug/L	230	ID	ID	15,000	ID	<1	<1	<1	<1	<1	<1	<1	<1	<1	40	100 Y	<1	<1	<1	<1
Styrene	ug/L	100 (A)	80	3.1E+05 (S)	9,700	1.40E+05	<1	<1	<1	<1	<1	<1	<1	<1	<1	<30	<20	<1	<1	<1	<1
Tetrachloroethylene	ug/L	5.0 (A)	60 (X)	1.70E+05	12,000	ID	<1	<1	<1	<1	<1	<1	<1	<1	<1	<30	<20	<1	<1	<1	<1
Toluene	ug/L	790 (E)	140	5.3E+05 (S)	5.3E+05 (S)	61,000	<1	<1	<1	<1	<1	<1	<1	<1	<1	**2,760**	**1410 Y**	<1	<1	<1	<1
Trichloroethene	ug/L	5.0 (A)	200 (X)	4,900	22,000	ID	<1	<1	<1	<1	<1	<1	<1	<1	<1	<30	<20	<1	<1	<1	<1
Vinyl chloride	ug/L	2.0 (A)	15	13,000	1,000	33,000	<1	<1	<1	<1	<1	<1	<1	<1	<1	<30	<20	<1	<1	<1	<1
cis-1,2-Dichloroethene	ug/L	70 (A)	620	2.10E+05	2.00E+05	5.30E+05	<1	<1	<1	<1	<1	<1	<1	<1	<1	**80**	20 Y	<1	<1	<1	<1
cis-1,3-Dichloropropene	ug/L	none	none	none	none	none	<1	<1	<1	<1	<1	<1	<1	<1	<1	<30	<20	<1	<1	<1	<1
m,p-Xylene	ug/L	none	none	none	none	none	<2	<1	<1	<1	<2	<2	<1	<1	<1	1,410	3020 Y	<2	<2	<1	<1
o-Xylene	ug/L	none	none	none	none	none	<1	<2	<2	<2	<1	<1	<2	<2	<2	350	580 Y	<1	<1	<2	<2
Xylenes, Total	ug/L	280 (E)	35	1.9E+05 (S)	1.9E+05 (S)	70,000	<3	<3	<3	<3	<3	<3	<3	<3	<3	**1,710**	**3600 Y**	NA	<3	<3	<3
trans-1,2-Dichloroethene	ug/L	100 (A)	1,500	2.0E+05 (S)	2.20E+05	2.3E+05 (S)	<1	<1	<1	<1	<1	<1	<1	<1	<1	<30	<20	<1	<1	<1	<1
trans-1,3-Dichloropropene	ug/L	none	none	none	none	none	<1	<1	<1	<1	<1	<1	<1	<1	<1	<30	<20	<1	<1	<1	<1
1,2-Dichloroethene (total)	ug/L	none	none	none	none	none	NA	NA	NA	NA	<1	NA	NA	NA	NA	<30	NA	NA	NA	NA	NA
1,2,3-Trimethylbenzene	ug/L	none	none	none	none	none	<1	<1	<1	<1	<1	<1	<1	<1	<1	80	270 Y	<1	<1	<1	<1
Other Target VOCs	ug/L	various	various	various	various	various	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MTBE (EPA Method 8021B)	ug/L	40 (E)	730 (X)	4.7E+07 (S)	6.10E+05	ID	<5	<5	<5	<5	<5	<5	<5	<5	<5	<100	<5	<5	<5	<5	<5
Dissolved Metals (Method 6020)																					
Lead	mg/L	0.004 (L)	(G,X)	NLV	ID	ID	<0.003	<0.003	<0.003	<0.003	<0.001	<0.003	<0.003	<0.003	<0.003	0.001	<0.003	0.001	<0.003	<0.003	<0.003

Notes: See Last Page

TABLE 2

FORMER GM EMPLOYEE DEVELOPMENT CENTER
65 EAST UNIVERSITY
PONTIAC, MICHIGAN

GROUNDWATER ANALYTICAL DATA

Sample ID:	Units	Michigan Groundwater Cleanup Criteria and Risk Based Screening Levels					MW-16	MW-17		MW-17	MW-17	MW-17	MW-17	MW-17	MW-18	MW-18	MW-18	MW-18	MW-18	MW-19	MW-19	MW-19	MW-19	MW-20
		Non-Residential Drinking Water Protection Criteria & RBSLs	Groundwater Surface Water Interface Criteria & RBSLs	Non-Residential Groundwater Volatilization to Indoor Air Inhalation Criteria & RBSLs	Groundwater Contact Criteria & RBSLs	Flammability and Explosivity Screening Level	East-Northeast of Building	East of Building - Auditorium		East of Building - Auditorium	East of Building - Auditorium	East of Building - Auditorium	East of Building - Auditorium	East of Building - Auditorium	East of Building - Auditorium	East of Building - Auditorium	East of Building - Auditorium	East of Building - Auditorium	East of Building - Auditorium	Off-site - City of Pontiac Property West of the Site	Off-site - City of Pontiac Property West of the Site	Off-site - City of Pontiac Property West of the Site	Off-site - City of Pontiac Property West of the Site	Off-site - City of Pontiac Property West of the Site
Date Collected:							9/17/2013	7/28/2008		11/2/2010	2/1/2013	6/26/2013	9/17/2013	2/13/2008	11/2/2010	2/1/2013	6/26/2013	9/17/2013	12/2/2010	1/30/2013	6/27/2013	9/19/2013	12/2/2010
Screened Interval (feet bgl):							4-9	2-7		2-7	2-7	2-7	2-7	4-14	4-14	4-14	4-14	4-14	3-13'	3-13'	3-13'	3-13'	3-13'
Analytical Parameter																								
TPH (EPA Method 418.1)	mg/L	none	none	none	none	none	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Semivolatile Hydrocarbons (EPA Method 8015B)																								
Gasoline Range Organics	mg/L	none	none	none	none	none	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Diesel Range Organics	mg/L	none	none	none	none	none	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fuel Oil	mg/L	none	none	none	none	none	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hydraulic Fluid	mg/L	none	none	none	none	none	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Kerosene	mg/L	none	none	none	none	none	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mineral Spirits	mg/L	none	none	none	none	none	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Motor Oil	mg/L	none	none	none	none	none	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PAH (EPA Method 8310)																								
1-Methylnaphthalene	ug/L	none	none	none	none	none	<5	NA	NA	<5	NA	NA	<5	<5	NA	<5	<5	<5	NA	<5	<5	<5	NA
2-Methylnaphthalene	ug/L	750	19	25,000 (S)	25,000 (S)	ID	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Acenaphthene	ug/L	3,800	38	4,200 (S)	4,200 (S)	ID	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Acenapthylene	ug/L	150	ID	3,900 (S)	3,900 (S)	ID	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Anthracene	ug/L	43 (S)	ID	43 (S)	43 (S)	ID	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<1	<5	<5	<5	<5
Benz(a)anthracene	ug/L	8.5	ID	NLV	9.4 (S,AA)	ID	<1	<1	<1	<1	<1	<1	<1	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1
Benzo(a)pyrene	ug/L	5.0 (A)	ID	NLV	1.0 (M,AA); 0.64	ID	<1	<1	<1	<1	<1	<1	<1	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1
Benzo(b)fluoranthene	ug/L	1.5 (S, AA)	ID	ID	1.5 (S,AA)	ID	<1	<1	<1	<1	<1	<1	<1	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1
Benzo(g,h,i)perylene	ug/L	1.0 (M); 0.26 (S)	NA	NLV	1.0 (M,AA); 0.26 (S)	ID	<1	<1	<1	<1	<1	<1	<1	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1
Benzo(k)fluoranthene	ug/L	1.0 (M); 0.8 (S)	NA	NLV	1.0 (M,AA); 0.8 (S)	ID	<1	<1	<1	<1	<1	<1	<1	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chrysene	ug/L	1.6 (S)	ID	ID	1.6 (S,AA)	ID	<1	<1	<1	<1	<1	<1	<1	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dibenzo(a,h)anthracene	ug/L	2.0 (M); 0.85	ID	NLV	2.0 (M,AA); 0.31	ID	<2	<2	<2	<2	<2	<2	<2	<5	<2	<2	<2	<2	<2	<2	<2	<2	<2
Fluoranthene	ug/L	210 (S)	1.6	210 (S)	210 (S)	ID	<1	<1	<1	<1	<1	<1	<1	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1
Fluorene	ug/L	2,000 (S)	12	2,000 (S)	2,000 (S)	ID	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Indeno(1,2,3-cd)pyrene	ug/L	2.0 (M); 0.022 (S)	ID	NLV	2.0 (M, AA); 0.022 (S)	ID	<2	<2	<2	<2	<2	<2	<2	<5	<2	<2	<2	<2	<2	<2	<2	<2	<2
Naphthalene	ug/L	1,500	11	31,000 (S)	31,000 (S)	NA	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Phenanthrene	ug/L	150	2.0 (M); 1.4	1,000 (S)	1,000 (S)	ID	<2	<2	<2	<2	<2	<2	<2	<5	<2	<2	<2	<2	<2	<2	<2	<2	<2
Pyrene	ug/L	140 (S)	ID	140 (S)	140 (S)	ID	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Other Target PAHs	ug/L	various	various	various	various	various	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
VOCs (EPA Method 8260)																								
1,1,1-Trichloroethane	ug/L	200 (A)	200	1.3E+06 (S)	1.3E+06 (S)	ID	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-Tetrachloroethane	ug/L	35	78 (X)	77,000	4,700	ID	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	ug/L	5.0 (A)	330 (X)	1.10E+05	21,000	NA	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-Dichloroethane	ug/L	2,500	740	2.30E+06	2.40E+06	3.80E+05	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-Dichloroethene	ug/L	7.0 (A)	65 (X)	1,300	11,000	97,000	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene	ug/L	63 (E)	17	56,000 (S)	56,000 (S)	56,000 (S)	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	ug/L	5.0 (A)	360 (X)	59,000	19,000	2.50E+06	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloropropane	ug/L	5.0 (A)	290 (X)	36,000	16,000	5.50E+05	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,3,5-Trimethylbenzene	ug/L	72 (E)	45	61,000 (S)	61,000 (S)	ID	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
2-Butanone	ug/L	38,000	2,200	2.4E+08 (S)	2.4E+08 (S)	ID	<25	<30	<30	<25	<30	<30	<25	<30	<30	<25	<25	<25	<30	<25	<25	<25	<30
2-Hexanone	ug/L	2,900	NA	8.70E+06	5.20E+06	NA	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
4-Methyl-2-pentanone	ug/L	5,200	ID	2.0E+07 (S)	1.30E+07	ID	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
Acetone	ug/L	2,100	1,700	1.0E+09 (D,S)	3.10E+07	1.50E+07	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
Benzene	ug/L	5.0 (A)	200 (X)	35,000	11,000	68,000	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromochloromethane	ug/L	none	none	none	none	none	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromoform	ug/L	80 (A,W)	ID	3.10E+06	1.40E+05	ID	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromomethane	ug/L	29	35	9,000	70,000	ID	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
n-Butylbenzene	ug/L	230	ID	ID	5,900	ID	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbon disulfide	ug/L	2,300	ID	5.50E+05	1.2E+06 (S)	13,000	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Carbon tetrachloride	ug/L	5.0 (A)	45 (X)	2,400	4,600	ID	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlorobenzene	ug/L	100 (A)	47	4.70E+05	86,000	1.60E+05	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroethane	ug/L	1,700	ID	5.7E+06 (S)	4.40E+05	1.10E+05	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Chloroform	ug/L	80 (A, W)	170 (X)	1.80E+05	1.50E+05	ID	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloromethane	ug/L	1,100	ID	45,000	4.90E+05	36,000	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Dibromochloromethane	ug/L	80 (A, W)	ID	1.10E+05	18,000	ID	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Ethylbenzene	ug/L	74 (E)	18	1.7E+05 (S)	1.7E+05 (S)	43,000	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methylene chloride	ug/L	5.0 (A)	940 (X)	1.40E+06	2.20E+05	ID	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
n-Propylbenzene	ug/L	230	ID	ID	15,000	ID	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Styrene	ug/L	100 (A)	80	3.1E+05 (S)	9,700	1.40E+05	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethylene	ug/L	5.0 (A)	60 (X)	1.70E+05	12,000	ID	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	ug/L	790 (E)	140	5.3E+05 (S)	5.3E+05 (S)	61,000	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethene	ug/L	5.0 (A)	200 (X)	4,900	22,000	ID	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vinyl chloride	ug/L	2.0 (A)	15	13,000	1,000	33,000	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
cis-1,2-Dichloroethene	ug/L	70 (A)	620	2.10E+05	2.00E+05	5.30E+05	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
cis-1,3-Dichloropropene	ug/L	none	none	none	none	none	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
m,p-Xylene	ug/L	none	none	none	none	none	<1	<2	<2	<1	<2	<2	<2	<2	<2	<1	<1	<1	<2	<1	<1	<1	<2
o-Xylene	ug/L	none	none	none	none	none	<2	<1	<1	<2	<1	<1	<1	<1	<1	<2	<2	<2	<2	<2	<1	<2	<1
Xylenes, Total	ug/L	280 (E)	35	1.9E+05 (S)	1.9E+05 (S)	70,000	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
trans-1,2-Dichloroethene	ug/L	100 (A)	1,500	2.0E+05 (S)	2.20E+05	2.3E+05 (S)	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
trans-1,3-Dichloropropene	ug/L	none	none	none	none	none	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethene (total)	ug/L	none	none	none	none	none	NA	<2	<2	NA	NA	NA	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,3-Trimethylbenzene	ug/L	none	none	none	none	none	<1	<5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Other Target VOCs	ug/L	various	various	various	various	various	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MTBE (EPA Method 8021B)	ug/L	40 (E)	730 (X)	4.7E+07 (S)	6.10E+05	ID	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Dissolved Metals (Method 6020)																								
Lead	mg/L	0.004 (L)	(G,X)	NLV	ID	ID	<0.003	**0.011**	**0.011**	<0.003	<0.003	<0.003	<0.003	<0.001	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003

Notes: See Last Page

TABLE 2

FORMER GM EMPLOYEE DEVELOPMENT CENTER
65 EAST UNIVERSITY
PONTIAC, MICHIGAN

GROUNDWATER ANALYTICAL DATA

Sample ID:	Units	Michigan Groundwater Cleanup Criteria and Risk Based Screening Levels					MW-20 Off-site - City of Pontiac Property West of the Site	MW-20 Off-site - City of Pontiac Property West of the Site	MW-20 Off-site - City of Pontiac Property West of the Site	MW-21 East-Northeast of Building, Along Augusta Relief Drain	MW-21 East-Northeast of Building, Along Augusta Relief Drain	MW-21 East-Northeast of Building, Along Augusta Relief Drain	MW-22 East-Northeast of Building, Along Augusta Relief Drain	MW-22 East-Northeast of Building, Along Augusta Relief Drain	MW-22 East-Northeast of Building, Along Augusta Relief Drain	MW-23 Inside - Eastern Garage, Within Excavation Area	MW-23 Inside - Eastern Garage, Within Excavation Area	MW-23 Inside - Eastern Garage, Within Excavation Area	MW-24S Southern Portion of West Garage - Within Excavation Area	MW-24S Southern Portion of West Garage - Within Excavation Area	MW-24S Southern Portion of West Gara ge - Within Excavation Area
		Non-Residential Drinking Water Protection Criteria & RBSLs	Groundwater Surface Water Interface Criteria & RBSLs	Non-Residential Groundwater Volatilization to Indoor Air Inhalation Criteria & RBSLs	Groundwater Contact Criteria & RBSLs	Flammability and Explosivity Screening Level															
Date Collected:							1/30/2013	6/27/2013	9/20/2013	1/28/2013	6/25/2013	9/19/2013	1/31/2013	6/25/2013	9/19/2013	1/31/2013	6/26/2013	9/20/2013	1/31/2013	6/28/2013	9/20/2013
Screened Interval (feet bgl):							3-13'	3-13'	3-13'	5.5-10.5'	5.5-10.5'	5.5-10.5'	4-14'	4-14'	4-14'	3-13'	3-13'	3-13'	4-9'	4-9'	4-9'
Analytical Parameter																					
TPH (EPA Method 418.1)	mg/L	none	none	none	none	none	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Semivolatile Hydrocarbons (EPA Method 8015B)																					
Gasoline Range Organics	mg/L	none	none	none	none	none	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Diesel Range Organics	mg/L	none	none	none	none	none	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fuel Oil	mg/L	none	none	none	none	none	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hydraulic Fluid	mg/L	none	none	none	none	none	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Kerosene	mg/L	none	none	none	none	none	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mineral Spirits	mg/L	none	none	none	none	none	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Motor Oil	mg/L	none	none	none	none	none	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PAH (EPA Method 8310)																					
1-Methylnaphthalene	ug/L	none	none	none	none	none	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
2-Methylnaphthalene	ug/L	750	19	25,000 (S)	25,000 (S)	ID	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Acenaphthene	ug/L	3,800	38	4,200 (S)	4,200 (S)	ID	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Acenapthylene	ug/L	150	ID	3,900 (S)	3,900 (S)	ID	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Anthracene	ug/L	43 (S)	ID	43 (S)	43 (S)	ID	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Benz(a)anthracene	ug/L	8.5	ID	NLV	9.4 (S,AA)	ID	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Benzo(a)pyrene	ug/L	5.0 (A)	ID	NLV	1.0 (M,AA); 0.64	ID	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Benzo(b)fluoranthene	ug/L	1.5 (S, AA)	ID	ID	1.5 (S,AA)	ID	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Benzo(g,h,i)perylene	ug/L	1.0 (M); 0.26 (S)	NA	NLV	1.0 (M,AA); 0.26 (S)	ID	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Benzo(k)fluoranthene	ug/L	1.0 (M); 0.8 (S)	NA	NLV	1.0 (M,AA); 0.8 (S)	ID	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chrysene	ug/L	1.6 (S)	ID	ID	1.6 (S,AA)	ID	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dibenzo(a,h)anthracene	ug/L	2.0 (M); 0.85	ID	NLV	2.0 (M,AA); 0.31	ID	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Fluoranthene	ug/L	210 (S)	1.6	210 (S)	210 (S)	ID	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Fluorene	ug/L	2,000 (S)	12	2,000 (S)	2,000 (S)	ID	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Indeno(1,2,3-cd)pyrene	ug/L	2.0 (M); 0.022 (S)	ID	NLV	2.0 (M, AA); 0.022 (S)	ID	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Naphthalene	ug/L	1,500	11	31,000 (S)	31,000 (S)	NA	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Phenanthrene	ug/L	150	2.0 (M); 1.4	1,000 (S)	1,000 (S)	ID	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Pyrene	ug/L	140 (S)	ID	140 (S)	140 (S)	ID	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Other Target PAHs	ug/L	various	various	various	various	various	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
VOCs (EPA Method 8260)																					
1,1,1-Trichloroethane	ug/L	200 (A)	200	1.3E+06 (S)	1.3E+06 (S)	ID	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-Tetrachloroethane	ug/L	35	78 (X)	77,000	4,700	ID	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	ug/L	5.0 (A)	330 (X)	1.10E+05	21,000	NA	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-Dichloroethane	ug/L	2,500	740	2.30E+06	2.40E+06	3.80E+05	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-Dichloroethene	ug/L	7.0 (A)	65 (X)	1,300	11,000	97,000	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene	ug/L	63 (E)	17	56,000 (S)	56,000 (S)	56,000 (S)	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	ug/L	5.0 (A)	360 (X)	59,000	19,000	2.50E+06	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloropropane	ug/L	5.0 (A)	290 (X)	36,000	16,000	5.50E+05	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,3,5-Trimethylbenzene	ug/L	72 (E)	45	61,000 (S)	61,000 (S)	ID	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
2-Butanone	ug/L	38,000	2,200	2.4E+08 (S)	2.4E+08 (S)	ID	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
2-Hexanone	ug/L	2,900	NA	8.70E+06	5.20E+06	NA	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
4-Methyl-2-pentanone	ug/L	5,200	ID	2.0E+07 (S)	1.30E+07	ID	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
Acetone	ug/L	2,100	1,700	1.0E+09 (D,S)	3.10E+07	1.50E+07	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
Benzene	ug/L	5.0 (A)	200 (X)	35,000	11,000	68,000	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromochloromethane	ug/L	none	none	none	none	none	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromoform	ug/L	80 (A,W)	ID	3.10E+06	1.40E+05	ID	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromomethane	ug/L	29	35	9,000	70,000	ID	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
n-Butylbenzene	ug/L	230	ID	ID	5,900	ID	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbon disulfide	ug/L	2,300	ID	5.50E+05	1.2E+06 (S)	13,000	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Carbon tetrachloride	ug/L	5.0 (A)	45 (X)	2,400	4,600	ID	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlorobenzene	ug/L	100 (A)	47	4.70E+05	86,000	1.60E+05	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroethane	ug/L	1,700	ID	5.7E+06 (S)	4.40E+05	1.10E+05	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Chloroform	ug/L	80 (A, W)	170 (X)	1.80E+05	1.50E+05	ID	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloromethane	ug/L	1,100	ID	45,000	4.90E+05	36,000	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Dibromochloromethane	ug/L	80 (A, W)	ID	1.10E+05	18,000	ID	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Ethylbenzene	ug/L	74 (E)	18	1.7E+05 (S)	1.7E+05 (S)	43,000	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methylene chloride	ug/L	5.0 (A)	940 (X)	1.40E+06	2.20E+05	ID	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
n-Propylbenzene	ug/L	230	ID	ID	15,000	ID	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Styrene	ug/L	100 (A)	80	3.1E+05 (S)	9,700	1.40E+05	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethylene	ug/L	5.0 (A)	60 (X)	1.70E+05	12,000	ID	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	ug/L	790 (E)	140	5.3E+05 (S)	5.3E+05 (S)	61,000	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethene	ug/L	5.0 (A)	200 (X)	4,900	22,000	ID	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vinyl chloride	ug/L	2.0 (A)	15	13,000	1,000	33,000	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
cis-1,2-Dichloroethene	ug/L	70 (A)	620	2.10E+05	2.00E+05	5.30E+05	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
cis-1,3-Dichloropropene	ug/L	none	none	none	none	none	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
m,p-Xylene	ug/L	none	none	none	none	none	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
o-Xylene	ug/L	none	none	none	none	none	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Xylenes, Total	ug/L	280 (E)	35	1.9E+05 (S)	1.9E+05 (S)	70,000	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
trans-1,2-Dichloroethene	ug/L	100 (A)	1,500	2.0E+05 (S)	2.20E+05	2.3E+05 (S)	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
trans-1,3-Dichloropropene	ug/L	none	none	none	none	none	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethene (total)	ug/L	none	none	none	none	none	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,3-Trimethylbenzene	ug/L	none	none	none	none	none	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Other Target VOCs	ug/L	various	various	various	various	various	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MTBE (EPA Method 8021B)	ug/L	40 (E)	730 (X)	4.7E+07 (S)	6.10E+05	ID	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Dissolved Metals (Method 6020)																					
Lead	mg/L	0.004 (L)	(G,X)	NLV	ID	ID	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003

Notes: See Last Page

TABLE 2

FORMER GM EMPLOYEE DEVELOPMENT CENTER
65 EAST UNIVERSITY
PONTIAC, MICHIGAN

GROUNDWATER ANALYTICAL DATA

Sample ID:	Units	Michigan Groundwater Cleanup Criteria and Risk Based Screening Levels					MW-24D Southern Portion of West Garage - Within Excavation Area	MW-24D Southern Portion of West Garage - Within Excavation Area	MW-24D Southern Portion of West Garage - Within Excavation Area	MW-25 Off-site - Right-of-Way of Mill Street	MW-25 Off-site - Right-of-Way of Mill Street	MW-25 Off-site - Right-of-Way of Mill Street	MW-26 Off-site - Right-of-Way of Mill Street	MW-26 Off-site - Right-of-Way of Mill Street	MW-26 Off-site - Right-of-Way of Mill Street	MW-27 Off-site - Right-of-Way of Mill Street	MW-27 Off-site - Right-of-Way of Mill Street	MW-27 Off-site - Right-of-Way of Mill Street	MW-28 North of Building, within Excavation Area	MW-28 North of Building, within Excavation Area	MW-28 North of Building, within Excavation Area	MW-29 Northeast of Building, Along Augusta Relief Drain
		Non-Residential Drinking Water Protection Criteria & RBSLs	Groundwater Surface Water Interface Criteria & RBSLs	Non-Residential Groundwater Volatilization to Indoor Air Inhalation Criteria & RBSLs	Groundwater Contact Criteria & RBSLs	Flammability and Explosivity Screening Level																
Date Collected:							1/31/2013	6/28/2013	9/20/2013	1/30/2013	6/24/2013	9/19/2013	1/30/2013	6/24/2013	9/19/2013	1/30/2013	6/24/2013	9/19/2013	1/28/2013	6/27/2013	9/19/2013	1/29/2013
Screened Interval (feet bgl):							15-20'	15-20'	15-20'	4-14'	4-14'	4-14'	3-13'	3-13'	3-13'	6.5-16.5'	6.5-16.5'	6.5-16.5'	4-9'	4-9'	4-9'	4.5-9.5'
Analytical Parameter																						
TPH (EPA Method 418.1)	mg/L	none	none	none	none	none	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Semivolatile Hydrocarbons (EPA Method 8015B)																						
Gasoline Range Organics	mg/L	none	none	none	none	none	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Diesel Range Organics	mg/L	none	none	none	none	none	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fuel Oil	mg/L	none	none	none	none	none	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hydraulic Fluid	mg/L	none	none	none	none	none	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Kerosene	mg/L	none	none	none	none	none	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mineral Spirits	mg/L	none	none	none	none	none	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Motor Oil	mg/L	none	none	none	none	none	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PAH (EPA Method 8310)																						
1-Methylnaphthalene	ug/L	none	none	none	none	none	12	6	10	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
2-Methylnaphthalene	ug/L	750	19	25,000 (S)	25,000 (S)	ID	**23**	13	19	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Acenaphthene	ug/L	3,800	38	4,200 (S)	4,200 (S)	ID	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Acenapthylene	ug/L	150	ID	3,900 (S)	3,900 (S)	ID	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Anthracene	ug/L	43 (S)	ID	43 (S)	43 (S)	ID	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Benz(a)anthracene	ug/L	8.5	ID	NLV	9.4 (S,AA)	ID	<4	<5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Benzo(a)pyrene	ug/L	5.0 (A)	ID	NLV	1.0 (M,AA); 0.64	ID	<4	<5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Benzo(b)fluoranthene	ug/L	1.5 (S, AA)	ID	ID	1.5 (S,AA)	ID	<4	<5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Benzo(g,h,i)perylene	ug/L	1.0 (M); 0.26 (S)	NA	NLV	1.0 (M,AA); 0.26 (S)	ID	<4	<5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Benzo(k)fluoranthene	ug/L	1.0 (M); 0.8 (S)	NA	NLV	1.0 (M,AA); 0.8 (S)	ID	<4	<5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chrysene	ug/L	1.6 (S)	ID	ID	1.6 (S,AA)	ID	<4	<5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dibenzo(a,h)anthracene	ug/L	2.0 (M); 0.85	ID	NLV	2.0 (M,AA); 0.31	ID	<4	<5	<5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Fluoranthene	ug/L	210 (S)	1.6	210 (S)	210 (S)	ID	<4	<5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Fluorene	ug/L	2,000 (S)	12	2,000 (S)	2,000 (S)	ID	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Indeno(1,2,3-cd)pyrene	ug/L	2.0 (M); 0.022 (S)	ID	NLV	2.0 (M, AA); 0.022 (S)	ID	<4	<5	<5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Naphthalene	ug/L	1,500	11	31,000 (S)	31,000 (S)	NA	**133**	**71**	**101**	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Phenanthrene	ug/L	150	2.0 (M); 1.4	1,000 (S)	1,000 (S)	ID	<4	<5	<5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Pyrene	ug/L	140 (S)	ID	140 (S)	140 (S)	ID	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Other Target PAHs	ug/L	various	various	various	various	various	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
VOCs (EPA Method 8260)																						
1,1,1-Trichloroethane	ug/L	200 (A)	200	1.3E+06 (S)	1.3E+06 (S)	ID	<200	<200	<200	<1	<1	<1	<50	<50	<100	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-Tetrachloroethane	ug/L	35	78 (X)	77,000	4,700	ID	<200	<200	<200	<1	<1	<1	<50	<50	<100	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	ug/L	5.0 (A)	330 (X)	1.10E+05	21,000	NA	<200	<200	<200	<1	<1	<1	<50	<50	<100	<1	<1	<1	<1	<1	<1	<1
1,1-Dichloroethane	ug/L	2,500	740	2.30E+06	2.40E+06	3.80E+05	<200	<200	<200	<1	<1	<1	<50	<50	<100	<1	<1	<1	<1	<1	<1	<1
1,1-Dichloroethene	ug/L	7.0 (A)	65 (X)	1,300	11,000	97,000	<200	<200	<200	<1	<1	<1	<50	<50	<100	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene	ug/L	63 (E)	17	56,000 (S)	56,000 (S)	56,000 (S)	**700**	**800**	**600**	<1	<1	<1	<50	<50	<100	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	ug/L	5.0 (A)	360 (X)	59,000	19,000	2.50E+06	<200	<200	<200	<1	<1	<1	<50	<50	<100	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloropropane	ug/L	5.0 (A)	290 (X)	36,000	16,000	5.50E+05	<200	<200	<200	<1	<1	<1	<50	<50	<100	<1	<1	<1	<1	<1	<1	<1
1,3,5-Trimethylbenzene	ug/L	72 (E)	45	61,000 (S)	61,000 (S)	ID	<200	<200	<200	<1	<1	<1	<50	<50	<100	<1	<1	<1	<1	<1	<1	<1
2-Butanone	ug/L	38,000	2,200	2.4E+08 (S)	2.4E+08 (S)	ID	<5,000	<5,000	<500	<25	<25	<25	<1,300	<1,300	<250	<25	<25	<25	<25	<25	<25	<25
2-Hexanone	ug/L	2,900	NA	8.70E+06	5.20E+06	NA	<10,000	<10,000	<10,000	<50	<50	<50	<2,500	<2,500	<500	<50	<50	<50	<50	<50	<50	<50
4-Methyl-2-pentanone	ug/L	5,200	ID	2.0E+07 (S)	1.30E+07	ID	<10,000	<10,000	<10,000	<50	<50	<50	<2,500	<2,500	<500	<50	<50	<50	<50	<50	<50	<50
Acetone	ug/L	2,100	1,700	1.0E+09 (D,S)	3.10E+07	1.50E+07	<10,000	<10,000	<10,000	<50	<50	<50	<2,500	<2,500	<500	<50	<50	<50	<50	<50	<50	<50
Benzene	ug/L	5.0 (A)	200 (X)	35,000	11,000	68,000	**20,900**	**21,300**	**19,700**	<1	<1	<1	**3,360**	**3,020**	**2,600**	<1	<1	<1	<1	<1	<1	<1
Bromochloromethane	ug/L	none	none	none	none	none	<200	<200	<200	<1	<1	<1	<50	<50	<100	<1	<1	<1	<1	<1	<1	<1
Bromoform	ug/L	80 (A,W)	ID	3.10E+06	1.40E+05	ID	<200	<200	<200	<1	<1	<1	<50	<50	<100	<1	<1	<1	<1	<1	<1	<1
Bromomethane	ug/L	29	35	9,000	70,000	ID	<1,000	<1,000	<1,000	<5	<5	<5	<300	<300	<500	<5	<5	<5	<5	<5	<5	<5
n-Butylbenzene	ug/L	230	ID	ID	5,900	ID	<200	<200	<200	<1	<1	<1	<50	<50	<100	<1	<1	<1	<1	<1	<1	<1
Carbon disulfide	ug/L	2,300	ID	5.50E+05	1.2E+06 (S)	13,000	<1,000	<1,000	<1,000	<5	<5	<5	<300	<300	<500	<5	<5	<5	<5	<5	<5	<5
Carbon tetrachloride	ug/L	5.0 (A)	45 (X)	2,400	4,600	ID	<200	<200	<200	<1	<1	<1	<50	<50	<100	<1	<1	<1	<1	<1	<1	<1
Chlorobenzene	ug/L	100 (A)	47	4.70E+05	86,000	1.60E+05	<200	<200	<200	<1	<1	<1	<50	<50	<100	<1	<1	<1	<1	<1	<1	<1
Chloroethane	ug/L	1,700	ID	5.7E+06 (S)	4.40E+05	1.10E+05	<1,000	<1,000	<1,000	<5	<5	<5	<300	<300	<500	<5	<5	<5	<5	<5	<5	<5
Chloroform	ug/L	80 (A, W)	170 (X)	1.80E+05	1.50E+05	ID	<200	<200	<200	<1	<1	<1	<50	<50	<100	<1	<1	<1	<1	<1	<1	<1
Chloromethane	ug/L	1,100	ID	45,000	4.90E+05	36,000	<1,000	<1,000	<1,000	<5	<5	<5	<300	<300	<500	<5	<5	<5	<5	<5	<5	<5
Dibromochloromethane	ug/L	80 (A, W)	ID	1.10E+05	18,000	ID	<1,000	<1,000	<1,000	<5	<5	<5	<300	<300	<500	<5	<5	<5	<5	<5	<5	<5
Ethylbenzene	ug/L	74 (E)	18	1.7E+05 (S)	1.7E+05 (S)	43,000	**1,800**	**2,000**	**1,600**	<1	<1	<1	<50	<50	<100	<1	<1	<1	<1	<1	<1	<1
Methylene chloride	ug/L	5.0 (A)	940 (X)	1.40E+06	2.20E+05	ID	<1,000	<1,000	<1,000	<5	<5	<5	<300	<300	<500	<5	<5	<5	<5	<5	<5	<5
n-Propylbenzene	ug/L	230	ID	ID	15,000	ID	<200	<200	<200	<1	<1	<1	<50	<50	<100	<1	<1	<1	<1	<1	<1	<1
Styrene	ug/L	100 (A)	80	3.1E+05 (S)	9,700	1.40E+05	<200	<200	<200	<1	<1	<1	<50	<50	<100	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethylene	ug/L	5.0 (A)	60 (X)	1.70E+05	12,000	ID	<200	<200	<200	<1	<1	<1	<50	<50	<100	<1	<1	<1	<1	<1	<1	<1
Toluene	ug/L	790 (E)	140	5.3E+05 (S)	5.3E+05 (S)	61,000	**23,300**	**23,100**	**17,500**	<1	<1	<1	<50	50	<100	<1	<1	<1	<1	<1	<1	<1
Trichloroethene	ug/L	5.0 (A)	200 (X)	4,900	22,000	ID	<200	<200	<200	<1	<1	<1	<50	<50	<100	<1	4	**6**	<1	<1	<1	<1
Vinyl chloride	ug/L	2.0 (A)	15	13,000	1,000	33,000	<200	<200	<200	<1	<1	<1	<50	<50	<100	<1	<1	<1	<1	<1	<1	<1
cis-1,2-Dichloroethene	ug/L	70 (A)	620	2.10E+05	2.00E+05	5.30E+05	<200	<200	<200	<1	<1	<1	<50	<50	<100	<1	<1	<1	<1	<1	<1	<1
cis-1,3-Dichloropropene	ug/L	none	none	none	none	none	<200	<200	<200	<1	<1	<1	<50	<50	<100	<1	<1	<1	<1	<1	<1	<1
m,p-Xylene	ug/L	none	none	none	none	none	6,800	7,400	2,600	<1	<1	<1	<50	<50	<100	<1	<1	<1	<1	<1	<1	<1
o-Xylene	ug/L	none	none	none	none	none	3,100	3,500	5,600	<2	<2	<2	<100	<100	<300	<2	<2	<2	<2	<2	<2	<2
Xylenes, Total	ug/L	280 (E)	35	1.9E+05 (S)	1.9E+05 (S)	70,000	**9,900**	**10,900**	**8,200**	<3	<3	<3	<150	<150	<400	<3	<3	<3	<3	<3	<3	<3
trans-1,2-Dichloroethene	ug/L	100 (A)	1,500	2.0E+05 (S)	2.20E+05	2.3E+05 (S)	<200	<200	<200	<1	<1	<1	<50	<50	<100	<1	<1	<1	<1	<1	<1	<1
trans-1,3-Dichloropropene	ug/L	none	none	none	none	none	<200	<200	<200	<1	<1	<1	<50	<50	<100	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethene (total)	ug/L	none	none	none	none	none	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,3-Trimethylbenzene	ug/L	none	none	none	none	none	<200	200	<200	<1	<1	<1	<50	<50	<100	<1	<1	<1	<1	<1	<1	<1
Other Target VOCs	ug/L	various	various	various	various	various	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MTBE (EPA Method 8021B)	ug/L	40 (E)	730 (X)	4.7E+07 (S)	6.10E+05	ID	<1,000	<1,000	<1,000	<5	<5	<5	<300	<300	<500	<5	<5	<5	<5	<5	<5	<5
Dissolved Metals (Method 6020)																						
Lead	mg/L	0.004 (L)	(G,X)	NLV	ID	ID	0.003	0.004	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	0.003	<0.003	<0.003	<0.003	<0.003	<0.003

Notes: See Last Page

TABLE 2

FORMER GM EMPLOYEE DEVELOPMENT CENTER
65 EAST UNIVERSITY
PONTIAC, MICHIGAN

GROUNDWATER ANALYTICAL DATA

Sample ID:	Units	Michigan Groundwater Cleanup Criteria and Risk Based Screening Levels					MW-29 Northeast of Building, Along Augusta Relief Drain	MW-29 Northeast of Building, Along Augusta Relief Drain	MW-30 East of Building, Along Augusta Relief Drain	MW-30 East of Building, Along Augusta Relief Drain	MW-30 East of Building, Along Augusta Relief Drain	MW-31 South of Building - Adjecent to Storm Sewer	MW-31 South of Building - Adjecent to Storm Sewer	MW-31 South of Building - Adjecent to Storm Sewer
		Non-Residential Drinking Water Protection Criteria & RBSLs	Groundwater Surface Water Interface Criteria & RBSLs	Non-Residential Groundwater Volatilization to Indoor Air Inhalation Criteria & RBSLs	Groundwater Contact Criteria & RBSLs	Flammability and Explosivity Screening Level								
Date Collected:							6/26/2013	9/17/2013	1/31/2013	6/25/2013	9/20/2013	2/1/2013	6/25/2013	9/20/2013
Screened Interval (feet bgl):							4.5-9.5'	4.5-9.5'	3-13'	3-13'	3-13'	3-8'	3-8'	3-8'
Analytical Parameter														
TPH (EPA Method 418.1)	mg/L	none	none	none	none	none	NA	NA	NA	NA	NA	NA	NA	NA
Semivolatile Hydrocarbons (EPA Method 8015B)														
Gasoline Range Organics	mg/L	none	none	none	none	none	NA	NA	NA	NA	NA	NA	NA	NA
Diesel Range Organics	mg/L	none	none	none	none	none	NA	NA	NA	NA	NA	NA	NA	NA
Fuel Oil	mg/L	none	none	none	none	none	NA	NA	NA	NA	NA	NA	NA	NA
Hydraulic Fluid	mg/L	none	none	none	none	none	NA	NA	NA	NA	NA	NA	NA	NA
Kerosene	mg/L	none	none	none	none	none	NA	NA	NA	NA	NA	NA	NA	NA
Mineral Spirits	mg/L	none	none	none	none	none	NA	NA	NA	NA	NA	NA	NA	NA
Motor Oil	mg/L	none	none	none	none	none	NA	NA	NA	NA	NA	NA	NA	NA
PAH (EPA Method 8310)														
1-Methylnaphthalene	ug/L	none	none	none	none	none	<5	<5	<5	<5	<5	<5	<5	<5
2-Methylnaphthalene	ug/L	750	19	25,000 (S)	25,000 (S)	ID	<5	<5	<5	<5	<5	<5	<5	<5
Acenaphthene	ug/L	3,800	38	4,200 (S)	4,200 (S)	ID	<5	<5	<5	<5	<5	<5	<5	<5
Acenapthylene	ug/L	150	ID	3,900 (S)	3,900 (S)	ID	<5	<5	<5	<5	<5	<5	<5	<5
Anthracene	ug/L	43 (S)	ID	43 (S)	43 (S)	ID	<5	<5	<5	<5	<5	<5	<5	<5
Benz(a)anthracene	ug/L	8.5	ID	NLV	9.4 (S,AA)	ID	<1	<1	<1	<1	<1	<1	<1	<1
Benzo(a)pyrene	ug/L	5.0 (A)	ID	NLV	1.0 (M,AA); 0.64	ID	<1	<1	<1	<1	<1	<1	<1	<1
Benzo(b)fluoranthene	ug/L	1.5 (S, AA)	ID	ID	1.5 (S,AA)	ID	<1	<1	<1	<1	<1	<1	<1	<1
Benzo(g,h,i)perylene	ug/L	1.0 (M); 0.26 (S)	NA	NLV	1.0 (M,AA); 0.26 (S)	ID	<1	<1	<1	<1	<1	<1	<1	<1
Benzo(k)fluoranthene	ug/L	1.0 (M); 0.8 (S)	NA	NLV	1.0 (M,AA); 0.8 (S)	ID	<1	<1	<1	<1	<1	<1	<1	<1
Chrysene	ug/L	1.6 (S)	ID	ID	1.6 (S,AA)	ID	<1	<1	<1	<1	<1	<1	<1	<1
Dibenzo(a,h)anthracene	ug/L	2.0 (M); 0.85	ID	NLV	2.0 (M,AA); 0.31	ID	<2	<2	<2	<2	<2	<2	<2	<2
Fluoranthene	ug/L	210 (S)	1.6	210 (S)	210 (S)	ID	<1	<1	<1	<1	<1	<1	<1	<1
Fluorene	ug/L	2,000 (S)	12	2,000 (S)	2,000 (S)	ID	<5	<5	<5	<5	<5	<5	<5	<5
Indeno(1,2,3-cd)pyrene	ug/L	2.0 (M); 0.022 (S)	ID	NLV	2.0 (M, AA); 0.022 (S)	ID	<2	<2	<2	<2	<2	<2	<2	<2
Naphthalene	ug/L	1,500	11	31,000 (S)	31,000 (S)	NA	<5	<5	<5	<5	<5	<5	<5	<5
Phenanthrene	ug/L	150	2.0 (M); 1.4	1,000 (S)	1,000 (S)	ID	<2	<2	<2	<2	<2	<2	<2	<2
Pyrene	ug/L	140 (S)	ID	140 (S)	140 (S)	ID	<5	<5	<5	<5	<5	<5	<5	<5
Other Target PAHs	ug/L	various	various	various	various	various	ND	ND	ND	ND	ND	ND	ND	ND
VOCs (EPA Method 8260)														
1,1,1-Trichloroethane	ug/L	200 (A)	200	1.3E+06 (S)	1.3E+06 (S)	ID	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-Tetrachloroethane	ug/L	35	78 (X)	77,000	4,700	ID	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	ug/L	5.0 (A)	330 (X)	1.10E+05	21,000	NA	<1	<1	<1	<1	<1	<1	<1	<1
1,1-Dichloroethane	ug/L	2,500	740	2.30E+06	2.40E+06	3.80E+05	<1	<1	<1	<1	<1	<1	<1	<1
1,1-Dichloroethene	ug/L	7.0 (A)	65 (X)	1,300	11,000	97,000	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene	ug/L	63 (E)	17	56,000 (S)	56,000 (S)	56,000 (S)	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	ug/L	5.0 (A)	360 (X)	59,000	19,000	2.50E+06	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloropropane	ug/L	5.0 (A)	290 (X)	36,000	16,000	5.50E+05	<1	<1	<1	<1	<1	<1	<1	<1
1,3,5-Trimethylbenzene	ug/L	72 (E)	45	61,000 (S)	61,000 (S)	ID	<1	<1	<1	<1	<1	<1	<1	<1
2-Butanone	ug/L	38,000	2,200	2.4E+08 (S)	2.4E+08 (S)	ID	<25	<25	<25	<25	<25	<25	<25	<25
2-Hexanone	ug/L	2,900	NA	8.70E+06	5.20E+06	NA	<50	<50	<50	<50	<50	<50	<50	<50
4-Methyl-2-pentanone	ug/L	5,200	ID	2.0E+07 (S)	1.30E+07	ID	<50	<50	<50	<50	<50	<50	<50	<50
Acetone	ug/L	2,100	1,700	1.0E+09 (D,S)	3.10E+07	1.50E+07	<50	<50	<50	<50	<50	<50	<50	<50
Benzene	ug/L	5.0 (A)	200 (X)	35,000	11,000	68,000	<1	<1	<1	<1	<1	<1	<1	<1
Bromochloromethane	ug/L	none	none	none	none	none	<1	<1	<1	<1	<1	<1	<1	<1
Bromoform	ug/L	80 (A,W)	ID	3.10E+06	1.40E+05	ID	<1	<1	<1	<1	<1	<1	<1	<1
Bromomethane	ug/L	29	35	9,000	70,000	ID	<5	<5	<5	<5	<5	<5	<5	<5
n-Butylbenzene	ug/L	230	ID	ID	5,900	ID	<1	<1	<1	<1	<1	<1	<1	<1
Carbon disulfide	ug/L	2,300	ID	5.50E+05	1.2E+06 (S)	13,000	<5	<5	<5	<5	<5	<5	<5	<5
Carbon tetrachloride	ug/L	5.0 (A)	45 (X)	2,400	4,600	ID	<1	<1	<1	<1	<1	<1	<1	<1
Chlorobenzene	ug/L	100 (A)	47	4.70E+05	86,000	1.60E+05	<1	<1	<1	<1	<1	<1	<1	<1
Chloroethane	ug/L	1,700	ID	5.7E+06 (S)	4.40E+05	1.10E+05	<5	<5	<5	<5	<5	<5	<5	<5
Chloroform	ug/L	80 (A, W)	170 (X)	1.80E+05	1.50E+05	ID	<1	<1	<1	<1	<1	<1	<1	<1
Chloromethane	ug/L	1,100	ID	45,000	4.90E+05	36,000	<5	<5	<5	<5	<5	<5	<5	<5
Dibromochloromethane	ug/L	80 (A, W)	ID	1.10E+05	18,000	ID	<5	<5	<5	<5	<5	<5	<5	<5
Ethylbenzene	ug/L	74 (E)	18	1.7E+05 (S)	1.7E+05 (S)	43,000	<1	<1	<1	<1	<1	<1	<1	<1
Methylene chloride	ug/L	5.0 (A)	940 (X)	1.40E+06	2.20E+05	ID	<5	<5	<5	<5	<5	<5	<5	<5
n-Propylbenzene	ug/L	230	ID	ID	15,000	ID	<1	<1	<1	<1	<1	<1	<1	<1
Styrene	ug/L	100 (A)	80	3.1E+05 (S)	9,700	1.40E+05	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethylene	ug/L	5.0 (A)	60 (X)	1.70E+05	12,000	ID	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	ug/L	790 (E)	140	5.3E+05 (S)	5.3E+05 (S)	61,000	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethene	ug/L	5.0 (A)	200 (X)	4,900	22,000	ID	<1	<1	<1	<1	<1	<1	<1	<1
Vinyl chloride	ug/L	2.0 (A)	15	13,000	1,000	33,000	<1	<1	<1	<1	<1	<1	<1	<1
cis-1,2-Dichloroethene	ug/L	70 (A)	620	2.10E+05	2.00E+05	5.30E+05	<1	<1	<1	<1	<1	<1	<1	<1
cis-1,3-Dichloropropene	ug/L	none	none	none	none	none	<1	<1	<1	<1	<1	<1	<1	<1
m,p-Xylene	ug/L	none	none	none	none	none	<1	<1	<1	<1	<1	<1	<1	<1
o-Xylene	ug/L	none	none	none	none	none	<2	<2	<2	<2	<2	<2	<2	<2
Xylenes, Total	ug/L	280 (E)	35	1.9E+05 (S)	1.9E+05 (S)	70,000	<3	<3	<3	<3	<3	<3	<3	<3
trans-1,2-Dichloroethene	ug/L	100 (A)	1,500	2.0E+05 (S)	2.20E+05	2.3E+05 (S)	<1	<1	<1	<1	<1	<1	<1	<1
trans-1,3-Dichloropropene	ug/L	none	none	none	none	none	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethene (total)	ug/L	none	none	none	none	none	NA	NA	NA	NA	NA	NA	NA	NA
1,2,3-Trimethylbenzene	ug/L	none	none	none	none	none	<1	<1	<1	<1	<1	<1	<1	<1
Other Target VOCs	ug/L	various	various	various	various	various	ND	ND	ND	ND	ND	ND	ND	ND
MTBE (EPA Method 8021B)	ug/L	40 (E)	730 (X)	4.7E+07 (S)	6.10E+05	ID	<5	<5	<5	<5	<5	<5	<5	<5
Dissolved Metals (Method 6020)														
Lead	mg/L	0.004 (L)	(G,X)	NLV	ID	ID	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003

Notes: See Last Page

TABLE 2

EMPLOYEE DEVELOPMENT CENTER
65 EAST UNIVERSITY
PONTIAC, MICHIGAN

GROUNDWATER SAMPLE LABORATORY ANALYTICAL RESULTS

Notes:

Exceedances: Cleanup criteria exceedances are bolded.

NS *: Not sampled. Borehole was dry (tight clay) with no indication of groundwater.

NS **: Not sampled. Groundwater observed in borehole after two-day recovery period, but did not recover enough volume to obtain a sample.

NS***: Not Sampled due to sheen observed in borehole.

NS****: Not sampled. Groundwater did not recover enough volume to obtain a sample within limited time constraints.

NA: Not analyzed.

ND / <: Not detected / <detection limit

Cleanup Criteria: Part 201 (Environmental Remediation) and Part 213 (Leaking Underground Storage Tanks) of the Michigan Natural Resources and Environmental Protection Act (NREPA), 1994 PA 451 (Revised September, 28, 2012). Referenced are Non-Residential Cleanup Criteria and Screening Levels.

No TPH criteria exist; however, additional PAH constituents tested if detected TPH exceeded 1 mg/L.

(A) Criterion is the State of Michigan Drinking Water Standard established pursuant to Section 5 of 1976 PA 399, MCL 325.1005.

(D) Calculated criterion exceeds 100%, hence it is reduced to 100% or 1.0E+9 parts per billion (ppb).

(E) Criterion is the aesthetic drinking water value, as required by section 20120a(5) of the act.

(L) Criteria for lead are derived using a biologically based model, as allowed for under section 20120a(10) of the act, and are not calculated using the algorithms and assumptions specified in pathway-specific rules. The generic residential drinking water criterion of 4 µg/L is linked to the generic soil direct contact criterion of 400 mg/kg. A higher concentrations in the drinking water, up t to the state action level or 15 µg/L, may be allowed as a site-specific remedy, and still allow for drinking water use, under section 20120a(2) of the act if soil concentration are appropriately lower than 400 mg/kg. If a site specific criterion is approved based on this subdivision, a notice shall be filed on the deed for all property where the groundwater concentrations will exceed 4 µg/L to provide notice of the potential for unacceptable risk if soil or groundwater concentrations increase.

(M) Calculated criterion is below the analytical Target Detection Limit (TDL), therefore, the criterion defaults to the TDL.

(S) Criterion defaults to the hazardous substance-specific water solubility limit.

(AA) Comparison to these criteria may take into account an evaluation of whether the hazardous substances are adsorbed to particulates rather than dissolved in water and whether filtered groundwater samples were used to evaluate groundwater.

"ID" means insufficient data to develop criterion

(G) Groundwater surface water interface (GSI) criterion depends on the pH or water hardness, or both, of the receiving surface water. The final chronic value (FCV) for the protection of aquatic life shall be calculated based on the pH or hardness of the receiving surface water. Where water hardness exceeds 400 mg CaCO3/L, use 400 mg CaCO3/L for the FCV calculation. The FCV formula provides values in units of ug/L or ppb. The generic GSI criterion is the lesser of the calculated FCV, the wildlife value (WV), and the surface water human non-drinking water value (HNDV).

(X) The GSI criterion shown in the generic cleanup criteria tables is not protective for surface water that is used as a drinking water source. For a groundwater discharge to the Great Lakes and their connecting waters or discharge in close proximity to a water supply intake in inland surface waters, the generic GSI criterion shall be the surface water human drinking water value (HDV) listed in the table in this footnote, except for those HDV indicated with an asterisk. For HDV with an asterisk, the generic GSI criterion shall be the lowest of the HDV, the WV, and the calculated FCV. see formulas in footnote (G). Soil protection criteria based on the HDV shall be as listed in the table in this footnote, except for those values with an asterisk. Soil GSI protection criteria based on the HDV shall be as listed in the table in this footnote, except for those values with an asterisk. Soil GSI protection criteria for compounds with an asterisk shall be the greater of 20 times the GSI criterion or the GSI soil-water partition values using the GSI criteria developed with the procedure.

(Y) Elevated Reporting Limit due to high target concentration

(W) Concentrations of trihalomethanes in groundwater shall be added together to determine compliance with the Michigan drinking water standard of 80 ug/L. Concentrations of trihalomethanes in soil shall be added together to determine compliance with the drinking water protection criterion of 1,600 ug/kg.

ARCADIS

Figures

CITY:BRIGHTON DIV/GROUP:85 DB:ADF LD:(Opt) PIC:(Opt) PM:(Reqd) TM:(Opt) LYR:(Opt)ON=*;OFF=*REF*
G:\ENVCAD\BRIGHTON\ACTIVITY\80644866\2013\000003\dwg\64486B15.dwg LAYOUT: 2SAVED: 8/12/2013 1:27 PM ACADVER: 18.1S (LMS TECH) PAGESETUP: FOX, AARON
XREFS: IMAGES: PROJECTNAME: ---
10S12152B
64486x04

WOODED AREA

R

R

R

R

MILL STREET

CONCRETE WALK

DIRT ROAD

VACANT PARCEL

GATE

MW-13

MW-14

ASPHALT

MW-2

U.P.

6' TALL FENCE W/ BARBED WIRE

MW-25

8"

4" (5-7' bgs)

8" (10-11' bgs)

MW-29

B-29

AUGUSTA RELIEF DRAIN EASEMENT (APPROXIMATE LOCATION)

MW-10

FORMER 1,000-GALLON GASOLINE UST

ASW-09R

B-23

ASW-07

ASW-08

B-16

MW-16

ASW-17

FORMER FILL PORT

APPROXIMATE LIMIT OF UST EXCAVATION (APPROXIMATELY 14' DEEP)

LOCATION OF FORMER GASOLINE DISPENSER

CB

CONC PAD

MW-22

MW-15

ASW-12

10"

8"

B-37

B-25

ASW-10R

CB

ASW-11

MW-28

AFL-11

AFL-09

AFL-06R

ASW-06

MW-21

FORMER VENT LINE

GATE

ASW-19

AFL-08R

TRENCH DRAIN

CONC PAD

TRENCH DRAIN

AFL-07

MW-23

APPROXIMATE LIMIT OF UST EXCAVATION (APPROXIMATELY 14' DEEP)

AFL-03

ASW-05

FORMER 1,000-GALLON SPILL / WASTE OIL UST

AFL-10R

MW-26

B-38

ASW-18

ASW-13

FORMER TRENCH DRAIN

AFL-04RR

ASW-04

B-5

MW-20

ABANDONED DYNAMOMETER PIT

B-13

B-31

ASW-14

ASW-03

ASPHALT

B-32

AFL-02RR

MH

B-12

B-33

B-8

ASW-16R

AFL-01RR

MW-30

ABANDONED OIL/SAND SEPARATOR

B-9

MW-8

MW-24S

MW-24D

B-44

ASW-02

MW-12

FORMER HYDRAULIC ELEVATOR

ASW-01

B-45

B-4

GATE

MW-18

U.P.

MW-27

B-55

B-11

B-56

ABANDONED TRENCH DRAIN

B-3

MW-17

B-10

B-46

B-47

CB

12"

8" (3-4' bgs)

FORMER TRENCH DRAIN

B-2

MW-5

MH

B-1

8"

15" (7' bgs)

APPROXIMATE LOCATION OF FORMER TRENCH DRAIN WITH FORMER SINGLE CHAMBER OIL/WATER SEPARATOR

MW-31

MH

B-36

TILE AREA

GRASS

MH

MH

MH

MH

12"

12"

12"

6"

6"

15"

4"

8"

8" (10-11' bgs)

4" (5-7' bgs)

8" (10-11' bgs)

4" (5-7' bgs)

8" (10-11' bgs)

NORTH PERRY STREET

RICH SIGN SERVICE

THE LAW AND MEDIATION CENTER

TINY TOTS DAY

ASPHALT

6' TALL FENCE W/ BARBED WIRE

M-59/WOODWARD AVE.

GRASS

ASPHALT

MW-4

CURB DUBDOWN

GRASS

TWO 10.5' DIA. PIPES

10.5"

10.5"

MW-18

MW-17

AUGUSTA RELIEF DRAIN EASEMENT (APPROXIMATE LOCATION)

6' TALL FENCE

CONCRETE WALK

GAS

GRASS

UNIVERSITY DRIVE

0 30' 60'

GRAPHIC SCALE

LEGEND:

- APPROXIMATE PROPERTY BOUNDARY LINE
- FORMER SITE BUILDING
- FENCE
- APPROXIMATE FORMER BASEMENT OUTLINE (FILLED)
- LIGHT POLE
- UTILITY POLE
- AUGUSTA RELIEF DRAIN EASEMENT (2 STORM DRAINS APPROXIMATELY 10 TO 15 FEET BGL)
- STORM SEWER (APPROXIMATELY 2.5 TO 8.2 FEET BGL)
- STORM MANHOLE/CATCH BASIN
- SANITARY SEWER (APPROXIMATELY 10.5 FEET BGL)
- SANITARY MANHOLE
- GAS (APPROXIMATELY 3.5 TO 5.5 FEET BGL)
- WATER (APPROXIMATELY 6 TO 7 FEET BGL)
- GASOLINE FORMER UNDERGROUND PIPING
- SPILL / WASTE OIL FORMER UNDERGROUND PIPING
- SOIL BORING LOCATION (ARCADIS BBL; 11/06-12/06)
- EXCAVATED SOIL BORING LOCATION
- SOIL BORING LOCATION (ARCADIS 01/12)
- MONITORING WELL LOCATION (ARCADIS BBL; 11/06-12/06)
- ABANDONED MONITORING WELL LOCATION (ARCADIS BBL; 11/06-12/06)
- ABANDONED DUAL-POST UNDERGROUND HYDRAULIC LIFT
- FORMER DUAL-POST UNDERGROUND HYDRAULIC LIFT
- FORMER SUMP
- ABANDONED EXTRACTION WELL
- CONCRETE AREA
- TILE AREA
- MONITORING WELL LOCATION (ARCADIS; 9/07-10/07, & 11/10)
- EXCAVATION LIMITS (ARCADIS; 6/12)
- SOIL CONFIRMATION SAMPLE (ARCADIS; 06/12)
- **PROPOSED STORM SEWER SAMPLING LOCATIONS**

NOTES:

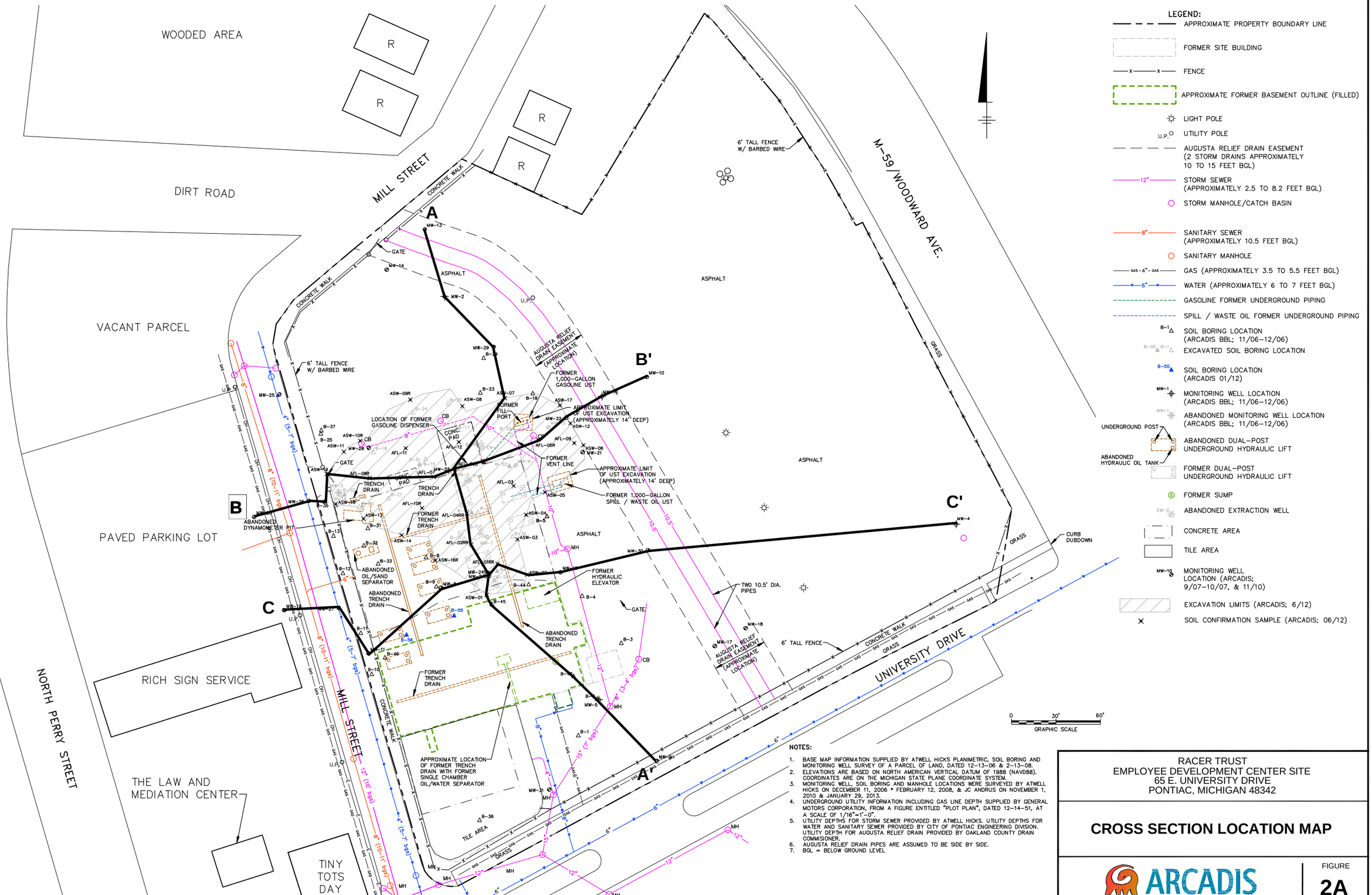
1. BASE MAP INFORMATION SUPPLIED BY ATWELL HICKS PLANIMETRIC, SOIL BORING AND MONITORING WELL SURVEY OF A PARCEL OF LAND, DATED 12-13-06 & 2-13-08.
2. ELEVATIONS ARE BASED ON NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88). COORDINATES ARE ON THE MICHIGAN STATE PLANE COORDINATE SYSTEM.
3. MONITORING WELL, SOIL BORING AND MANHOLE LOCATIONS WERE SURVEYED BY ATWELL HICKS ON DECEMBER 11, 2006 * FEBRUARY 12, 2008, & JC ANDRUS ON NOVEMBER 1, 2010 & JANUARY 29, 2013.
4. UNDERGROUND UTILITY INFORMATION INCLUDING GAS LINE DEPTH SUPPLIED BY GENERAL MOTORS CORPORATION, FROM A FIGURE ENTITLED "PLOT PLAN", DATED 12-14-51, AT A SCALE OF 1/16"=1'-0".
5. UTILITY DEPTHS FOR STORM SEWER PROVIDED BY ATWELL HICKS. UTILITY DEPTHS FOR WATER AND SANITARY SEWER PROVIDED BY CITY OF PONTIAC ENGINEERING DIVISION. UTILITY DEPTH FOR AUGUSTA RELIEF DRAIN PROVIDED BY OAKLAND COUNTY DRAIN COMMISIONER.
6. AUGUSTA RELIEF DRAIN PIPES ARE ASSUMED TO BE SIDE BY SIDE.
7. BGL = BELOW GROUND LEVEL

RACER TRUST
EMPLOYEE DEVELOPMENT CENTER SITE
65 E. UNIVERSITY DRIVE
PONTIAC, MICHIGAN 48342

SITE MAP

ARCADIS

FIGURE
1



LEGEND:

- APPROXIMATE PROPERTY BOUNDARY LINE
- FORMER SITE BUILDING
- FENCE
- APPROXIMATE FORMER BASEMENT OUTLINE (FILLED)
- LIGHT POLE
- UTILITY POLE
- AUGUSTA RELIEF DRAIN EASEMENT (2 STORM DRAINS APPROXIMATELY 10 TO 15 FEET BGL)
- STORM SEWER (APPROXIMATELY 2.5 TO 8.2 FEET BGL)
- STORM MANHOLE/CATCH BASIN
- SANITARY SEWER (APPROXIMATELY 10.5 FEET BGL)
- SANITARY MANHOLE
- GAS (APPROXIMATELY 3.5 TO 5.5 FEET BGL)
- WATER (APPROXIMATELY 6 TO 7 FEET BGL)
- GASOLINE FORMER UNDERGROUND PIPING
- SPILL / WASTE OIL FORMER UNDERGROUND PIPING
- SOIL BORING LOCATION (ARCADIS BBL; 11/06-12/06)
- EXCAVATED SOIL BORING LOCATION
- SOIL BORING LOCATION (ARCADIS 01/12)
- MONITORING WELL LOCATION (ARCADIS BBL; 11/06-12/06)
- ABANDONED MONITORING WELL LOCATION (ARCADIS BBL; 11/06-12/06)
- ABANDONED DUAL-POST UNDERGROUND HYDRAULIC LIFT
- FORMER DUAL-POST UNDERGROUND HYDRAULIC LIFT
- FORMER SUMP
- ABANDONED EXTRACTION WELL
- CONCRETE AREA
- TILE AREA
- MONITORING WELL LOCATION (ARCADIS; 9/07-10/07, & 11/10)
- EXCAVATION LIMITS (ARCADIS; 6/12)
- SOIL CONFIRMATION SAMPLE (ARCADIS; 06/12)

NOTES:

1. BASE MAP INFORMATION SUPPLIED BY ATWELL HICKS PLANIMETRIC, SOIL BORING AND MONITORING WELL SURVEY OF A PARCEL OF LAND, DATED 12-13-06 & 2-13-08.
2. ELEVATIONS ARE BASED ON NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88). COORDINATES ARE ON THE MICHIGAN STATE PLANE COORDINATE SYSTEM.
3. MONITORING WELL, SOIL BORING AND MANHOLE LOCATIONS WERE SURVEYED BY ATWELL HICKS ON DECEMBER 11, 2006 * FEBRUARY 12, 2008, & JC ANDRUS ON NOVEMBER 1, 2010 & JANUARY 29, 2013.
4. UNDERGROUND UTILITY INFORMATION INCLUDING GAS LINE DEPTH SUPPLIED BY GENERAL MOTORS CORPORATION, FROM A FIGURE ENTITLED "PLOT PLAN", DATED 12-14-51, AT A SCALE OF 1/16"=1'-0".
5. UTILITY DEPTHS FOR STORM SEWER PROVIDED BY ATWELL HICKS. UTILITY DEPTHS FOR WATER AND SANITARY SEWER PROVIDED BY CITY OF PONTIAC ENGINEERING DIVISION. UTILITY DEPTH FOR AUGUSTA RELIEF DRAIN PROVIDED BY OAKLAND COUNTY DRAIN COMMISIONER.
6. AUGUSTA RELIEF DRAIN PIPES ARE ASSUMED TO BE SIDE BY SIDE.
7. BGL = BELOW GROUND LEVEL

RACER TRUST
EMPLOYEE DEVELOPMENT CENTER SITE
65 E. UNIVERSITY DRIVE
PONTIAC, MICHIGAN 48342

CROSS SECTION LOCATION MAP

ARCADIS

FIGURE
2A

CITY:BRIGHTON DIV/GROUP:85 DB:ADF LD:(Opt) PIC:(Opt) PM:(Reqd) TM:(Opt) LYR:(Opt)ON=*;OFF=*REF*
G:\ENVCAD\BRIGHTON\ACTIVE\00644866\2013\00003\dwg\64486B15.dwg LAYOUT: 2SAVED: 8/12/2013 1:27 PM ACADVER: 18.1S (LMS TECH) PAGESETUP: ---PLOTSTYLETABLE: PLTFULL.CTB PLOTTED: 8/12/2013 1:28 PM BY: FOX, AARON
XREFS: IMAGES: PROJECTNAME: ---
10s12152B
64486x04

◄ NORTH

SOUTH ►

A

A'

ELEVATION (feet above mean sea level)

AUGUSTA RELIEF DRAIN EASEMENT

EXCAVATION AREA

10" STORM

10.5" STORM

15" STORM

MW-13 MW-2 MW-29 ASW-07 MW-23 AFL-04RR AFL-02RR MW-24S MW-24D ASW-01 B-45 B-47 B-2 MW-5 MW-9

920 915 910 905 900 895 890

MW-13 0 - 2 10/02/2007 NA	
B	<60
E	<60
T	<100
X	<160
M	<200
2-MN	<400
N	<400
1,2,4	<100
1,3,5	<100
TCE	<60
TPH	NA

MW-13 8 - 10 10/02/2007 NA	
B	<80
E	<80
T	<200
X	<280
M	<300
2-MN	<500
N	<500
1,2,4	<200
1,3,5	<200
TCE	<80
TPH	NA

MW-2 0 - 2 12/01/2006 NA	
B	<6.1
E	<6.1
T	<6.1
X	<12.2
M	<1.2
2-MN	NA
N	NA
1,2,4	<6.1
1,3,5	<6.1
TCE	<6.1
TPH	18

MW-2 3 - 5 12/01/2006 NA	
B	<5.6
E	<5.6
T	<5.6
X	<11.2
M	<1.1
2-MN	NA
N	NA
1,2,4	<5.6
1,3,5	<5.6
TCE	<5.6
TPH	17

ASW-07 7 - 8 06/06/2012 N	
B	<60
E	<60
T	<100
X	<160
M	NA
2-MN	<400
N	<400
1,2,4	<100
1,3,5	<100
TCE	<60
TPH	NA

AFL-04RR 16 - 17 06/12/2012 N	
B	<60
E	<60
T	<100
X	<160
M	NA
2-MN	<380
N	<380
1,2,4	<100
1,3,5	<100
TCE	<60
TPH	NA

AFL-02RR 16 - 17 06/12/2012 N	
B	570
E	<60
T	<100
X	<160
M	NA
2-MN	<400
N	<400
1,2,4	<100
1,3,5	<100
TCE	<60
TPH	NA

MW-24D 13 - 14 01/07/2013 NA	
B	12,400
E	16,200
T	63,000
X	82,600
M	<3,000
2-MN	<4,200
N	<4,200
1,2,4	20,000
1,3,5	7,000
TCE	<60
TPH	NA

MW-24D 24 - 25 01/07/2013 NA	
B	390
E	<60
T	<100
X	<160
M	<200
2-MN	<390
N	<390
1,2,4	<100
1,3,5	<100
TCE	<60
TPH	NA

ASW-01 5 - 6 05/30/2012 N	
B	770
E	770
T	<200
X	800
M	NA
2-MN	<500
N	<500
1,2,4	500
1,3,5	<200
TCE	<80
TPH	NA

B-45 0 - 2 09/24/2007 NA	
B	<50
E	<50
T	<100
X	<150
M	<200
2-MN	<400
N	<400
1,2,4	<100
1,3,5	<100
TCE	<50
TPH	NA

B-45 10 - 12 09/24/2007 NA	
B	60
E	60
T	200
X	290
M	<200
2-MN	<400
N	<400
1,2,4	<100
1,3,5	<100
TCE	<50
TPH	NA

B-2 8 - 10 11/06/2006 NA	
B	< 5.5
E	< 5.5
T	< 5.5
X	< 5.5
M	NA
2-MN	<11
N	NA
1,2,4	NA
1,3,5	NA
TCE	18
TPH	55

MW-9 0 - 2 09/19/2007 NA	
B	<60
E	<60
T	<100
X	<160
M	<200
2-MN	<400
N	<400
1,2,4	<100
1,3,5	<100
TCE	<60
TPH	NA

MW-9 3 - 5 09/19/2007 NA	
B	<50
E	<50
T	<100
X	<150
M	<200
2-MN	<300
N	<300
1,2,4	<100
1,3,5	<100
TCE	<50
TPH	NA

Soil Sample ID
Sample Depth (feet below ground surface)
Sample Date
Shake Test Result

B Benzene (µg/kg)
E Ethylbenzene (µg/kg)
T Toluene (µg/kg)
X Total Xylenes (µg/kg)
M Methyl tert-butyl ether (µg/kg)
2-MN 2-Methylnaphthalene (µg/kg)
N Naphthalene (µg/kg)
1,2,4 1,2,4-Trimethylbenzene (µg/kg)
1,3,5 1,3,5-Trimethylbenzene (µg/kg)
TCE Trichloroethene (µg/kg)
TPH (mg/kg)
N Negative Shake Test
SP Slightly Positive Shake Test
P Positive Shake Test
NA Not Analyzed

LEGEND

- Asphalt
- Silty Sand
- Concrete
- Clayey Sand
- Gravel
- Sand
- Clay
- Silty Clay
- Silt
- Gravelly Sand

NOTES:
1. Groundwater elevations include data collected between 2006 and 2013.
2. Ground surface elevations are estimated based on monitoring well ground surface elevations.
3. All elevations are referenced to a mean sea level site datum and are in units of feet above mean sea level.
4. Underground utility size and depth are approximate.

- Soil sample does not exceed most restrictive RBSLs
- Soil sample exceeds Drinking Water Protection RBSLs
- Soil sample exceeds Drinking Water Protection, Groundwater Surface Water Interface Protection, and Volatilization to Indoor Air Inhalation RBSLs

Soil Boring
Sample Interval
PID Measurment (ppm) 0.3
Measured Water Level (High and Low)
Screened Interval
Underground Piping
Approximate Geologic Contact
Approximate Extent of Former Excavation
Approximate Depth Explored
RBSLs Risk Based Screening Levels

Vertical Scale (Feet): 10
Horizontal Scale (Feet): 45
Vertical Exaggeration: 4.5x

RACER Trust Employee Development Center Site
65 E. University Drive, Pontiac, Michigan

**GEOLOGIC CROSS SECTION A-A'
(NORTH - SOUTH)**

ARCADIS

FIGURE
2B

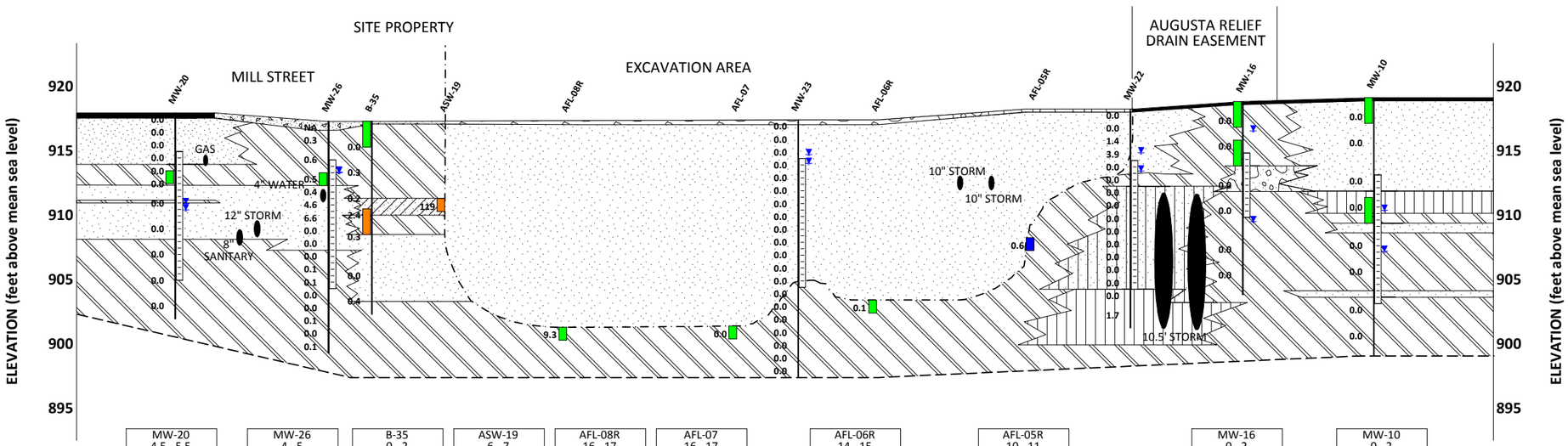
PICC: Peters PM: B. Saunders TM: A. Begnoche PROJECT NUMBER: B0064486.2013.00003
ARCADIS_CROSS SECTIONS (NO LITHOLOGY) C:\USERS\IDROSTI\DESKTOP\CROSS SECTIONS\RACER PNC\RACER PNC BORING LOGS.GPJ FNC AB NWN101 GDT 9/23/13

◄ WEST

EAST ►

B

B'



MW-20 4.5 - 5.5 11/17/2010 NA	
B	<70
E	<70
T	<100
X	<170
M	<300
2-MN	<500
N	<500
1,2,4	<100
1,3,5	<100
TCE	<70
TPH	NA

MW-26 4 - 5 01/08/2013 NA	
B	<70
E	<70
T	<100
X	<170
M	<300
2-MN	<460
N	<460
1,2,4	<100
1,3,5	<100
TCE	<70
TPH	NA

B-35 0 - 2 09/14/2007 NA	
B	<60
E	<60
T	<100
X	<160
M	<200
2-MN	<400
N	<400
1,2,4	<100
1,3,5	<100
TCE	<60
TPH	NA

B-35 6.8 - 8.8 09/14/2007 NA	
B	960
E	1,960
T	6,100
X	8,010
M	<200
2-MN	<400
N	<400
1,2,4	<100
1,3,5	<100
TCE	<50
TPH	NA

ASW-19 6 - 7 06/07/2012 P	
B	<700
E	25,200
T	<1,000
X	91,800
M	NA
2-MN	<4,300
N	4,400
1,2,4	39,000
1,3,5	13,000
TCE	<700
TPH	NA

AFL-08R 16 - 17 06/12/2012 N	
B	<60
E	<60
T	<100
X	<160
M	NA
2-MN	<400
N	<400
1,2,4	<100
1,3,5	<100
TCE	<60
TPH	NA

AFL-07 16 - 17 06/12/2012 N	
B	<60
E	<60
T	<100
X	<160
M	NA
2-MN	<400
N	<400
1,2,4	<100
1,3,5	<100
TCE	<60
TPH	NA

AFL-06R 14 - 15 06/15/2012 NA	
B	<60
E	<60
T	<100
X	<160
M	NA
2-MN	<400
N	<400
1,2,4	<100
1,3,5	<100
TCE	<60
TPH	NA

AFL-05R 10 - 11 06/08/2012 N	
B	<70
E	<70
T	<100
X	<170
M	NA
2-MN	<430
N	<430
1,2,4	<100
1,3,5	<100
TCE	<70
TPH	NA

MW-16 0 - 2 10/03/2007 NA	
B	<50
E	<50
T	<100
X	<150
M	<200
2-MN	<400
N	<400
1,2,4	<100
1,3,5	<100
TCE	<50
TPH	NA

MW-16 3 - 5 10/03/2007 NA	
B	<50
E	<50
T	<100
X	<150
M	<200
2-MN	<400
N	<400
1,2,4	<100
1,3,5	<100
TCE	<50
TPH	NA

MW-10 0 - 2 09/20/2007 NA	
B	<50
E	<50
T	<100
X	<150
M	<200
2-MN	<300
N	<300
1,2,4	<100
1,3,5	<100
TCE	<50
TPH	NA

MW-10 7.75 - 9.75 09/20/2007 NA	
B	<50
E	<50
T	<100
X	<150
M	<200
2-MN	<400
N	<400
1,2,4	<100
1,3,5	<100
TCE	<50
TPH	NA

Soil Sample ID
Sample Depth (feet below ground surface)
Sample Date
Shake Test Result

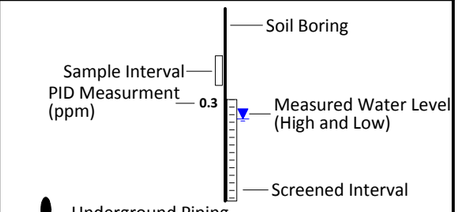
B Benzene (µg/kg)
E Ethylbenzene (µg/kg)
T Toluene (µg/kg)
X Total Xylenes (µg/kg)
M Methyl tert-butyl ether (µg/kg)
2-MN 2-Methylnaphthalene (µg/kg)
N Naphthalene (µg/kg)
1,2,4 1,2,4-Trimethylbenzene (µg/kg)
1,3,5 1,3,5-Trimethylbenzene (µg/kg)
TCE Trichloroethene (µg/kg)
TPH (mg/kg)
N Negative Shake Test
SP Slightly Positive Shake Test
P Positive Shake Test
NA Not Analyzed

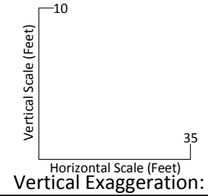
LEGEND

Concrete | Clay | Clayey Sand
Sand | Asphalt | Silt
Gravelly Sand | Silty Sand | Gravel

NOTES:
1. Groundwater elevations include data collected between 2006 and 2013.
2. Ground surface elevations are estimated based on monitoring well ground surface elevations.
3. All elevations are referenced to a mean sea level site datum and are in units of feet above mean sea level.
4. Underground utility size and depth are approximate.

- Soil sample does not exceed most restrictive RBSLs
- Soil sample exceeds Drinking Water Protection RBSLs
- Soil sample exceeds Drinking Water Protection and/or Groundwater Surface Water Interface Protection RBSLs





Vertical Exaggeration: 3.5x

RACER Trust Employee Development Center Site
65 E. University Drive, Pontiac, Michigan

**GEOLOGIC CROSS SECTION B-B'
(WEST - EAST)**

ARCADIS

FIGURE
2C

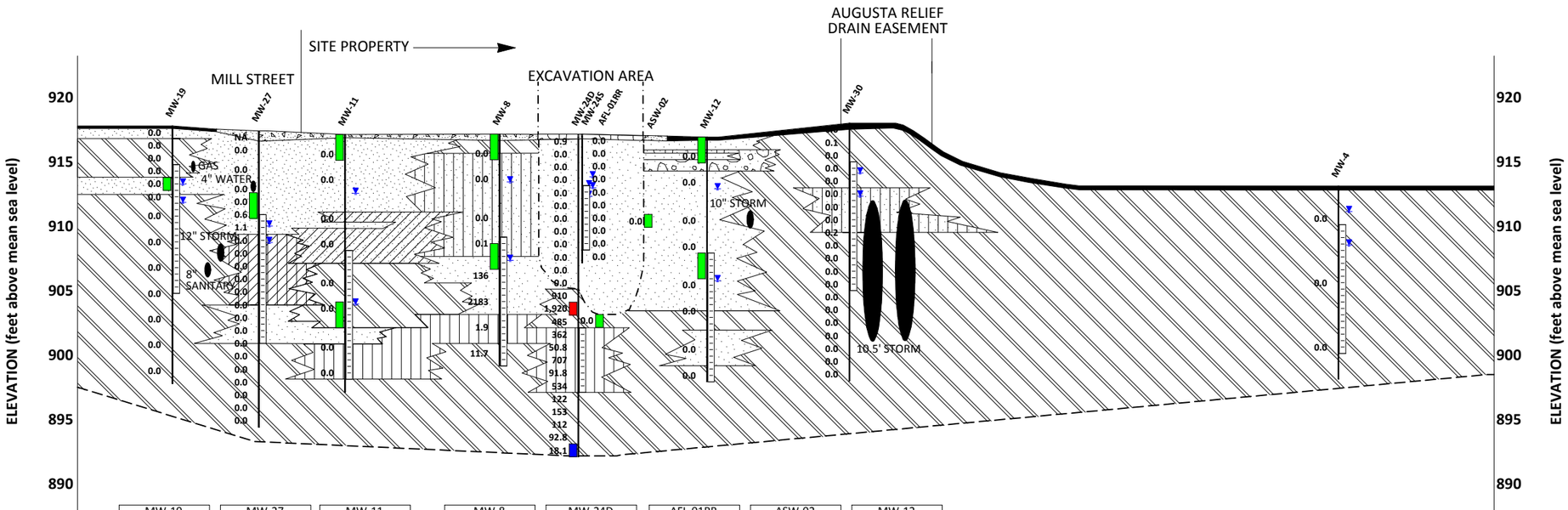
PIC:C. Peters PM:B. Saunders TM:A. Begnoche PROJECT NUMBER:80064486.2013.00003
ARCADIS_CROSS SECTIONS (NO LITHOLOGY) C:\USERS\JDROSTI\DESKTOP\CROSS SECTIONS\RACER PNC\RACER PNC BORING LOGS.GPJ FNC AB NWN.LOT GDT 9/23/13

◄ WEST

EAST ►

C

C'



MW-19 4 - 5 11/17/2010 NA	
B	<70
E	<70
T	<100
X	<170
M	<300
2-MN	<500
N	<500
1,2,4	<100
1,3,5	<100
TCE	<70
TPH	NA

MW-27 6 - 8 01/08/2013 NA	
B	<60
E	<60
T	<100
X	<160
M	<300
2-MN	<410
N	<410
1,2,4	<100
1,3,5	<100
TCE	<60
TPH	NA

MW-11 0 - 2 09/21/2007 NA	
B	<50
E	<50
T	<100
X	<150
M	<200
2-MN	<400
N	<400
1,2,4	<100
1,3,5	<100
TCE	<50
TPH	NA

MW-11 13 - 15 09/21/2007 NA	
B	<50
E	<50
T	<100
X	<150
M	<200
2-MN	<400
N	<400
1,2,4	<100
1,3,5	<100
TCE	<50
TPH	NA

MW-8 0 - 2 09/17/2007 NA	
B	<60
E	<60
T	<100
X	<160
M	<200
2-MN	<400
N	<400
1,2,4	<100
1,3,5	<100
TCE	<60
TPH	NA

MW-8 8.5 - 10.5 09/17/2007 NA	
B	<50
E	<50
T	<100
X	<150
M	<200
2-MN	<300
N	<300
1,2,4	<100
1,3,5	<100
TCE	<50
TPH	NA

MW-24D 13 - 14 01/07/2013 NA	
B	12,400
E	16,200
T	63,000
X	82,600
M	<3,000
2-MN	<4,200
N	<4,200
1,2,4	20,000
1,3,5	7,000
TCE	<60
TPH	NA

MW-24D 24 - 25 01/07/2013 NA	
B	390
E	<60
T	<100
X	<160
M	<200
2-MN	<390
N	<390
1,2,4	<100
1,3,5	<100
TCE	<60
TPH	NA

AFL-01RR 14 - 15 06/08/2012 N	
B	<60
E	<60
T	<100
X	<160
M	NA
2-MN	<380
N	<380
1,2,4	<100
1,3,5	<100
TCE	<60
TPH	NA

ASW-02 6 - 7 05/30/2012 N	
B	<60
E	<60
T	<100
X	<160
M	NA
2-MN	<390
N	<390
1,2,4	<100
1,3,5	<100
TCE	<60
TPH	NA

MW-12 0 - 2 09/21/2007 NA	
B	<50
E	<50
T	<100
X	<150
M	<200
2-MN	<400
N	<400
1,2,4	<100
1,3,5	<100
TCE	<50
TPH	NA

MW-12 9 - 11 09/21/2007 NA	
B	<50
E	<50
T	<100
X	<150
M	<200
2-MN	<400
N	<400
1,2,4	<100
1,3,5	<100
TCE	<50
TPH	NA

Soil Sample ID
Sample Depth (feet below ground surface)
Sample Date
Shake Test Result

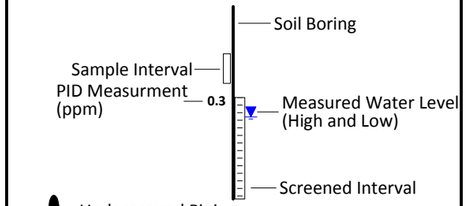
B Benzene (µg/kg)
E Ethylbenzene (µg/kg)
T Toluene (µg/kg)
X Total Xylenes (µg/kg)
M Methyl tert-butyl ether (µg/kg)
2-MN 2-Methylnaphthalene (µg/kg)
N Naphthalene (µg/kg)
1,2,4 1,2,4-Trimethylbenzene (µg/kg)
1,3,5 1,3,5-Trimethylbenzene (µg/kg)
TCE Trichloroethene (µg/kg)
TPH (mg/kg)
N Negative Shake Test
SP Slightly Positive Shake Test
P Positive Shake Test
NA Not Analyzed

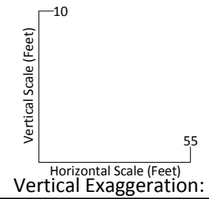
LEGEND

- Concrete
- Sand
- Clayey Sand
- Asphalt
- Gravelly Sand
- Silty Sand
- Silty Clay
- Clay
- Silt
- Gravel

NOTES:
1. Groundwater elevations include data collected between 2006 and 2013.
2. Ground surface elevations are estimated based on monitoring well ground surface elevations.
3. All elevations are referenced to a mean sea level site datum and are in units of feet above mean sea level.
4. Underground utility size and depth are approximate.

- Soil sample does not exceed most restrictive RBSLs
- Soil sample exceeds Drinking Water Protection RBSLs
- Soil sample exceeds Drinking Water Protection, Groundwater Surface Water Interface Protection, and Volatilization to Indoor Air Inhalation RBSLs





Vertical Exaggeration: 5.5x

RACER Trust Employee Development Center Site
65 E. University Drive, Pontiac, Michigan

**GEOLOGIC CROSS SECTION C-C'
(WEST - EAST)**

ARCADIS

FIGURE
2D

PIC:C. Peters PM:B. Saunders TM:A. Begnoche PROJECT NUMBER:B0064486.2013.00003
ARCADIS_CROSS SECTIONS (NO LITHOLOGY) C:\USERS\DROST\DESKTOP\CROSS SECTIONS\RACER PNC\RACER PNC BORING LOGS.GPJ FNC:AB NWNL01.GDT 9/23/13

CITY:BRIGHTON DIV/GROUP:85 DB:ADF LD:(Opt) PIC:(Opt) PM:(Reqd) TM:(Opt) LYR:(Opt)ON=*;OFF=*REF*
G:\ENVCAD\BRIGHTON\ACTIB0\64486\2013\0003d\wg\64486W06.dwg LAYOUT: 2SAVED: 10/16/2013 10:41 AM ACADVER: 18.1S (LMS TECH) PAGESETUP: ---PLOTSTYLETABLE: PLTFULL.CTB PLOTTED: 10/16/2013 10:43 AM BY: FOX, AARON
XREFS: IMAGES: PROJECTNAME: ---
10S12152B SM03P0113101413480.tiff
64486x04

WOODED AREA
R
R
R
R
DIRT ROAD
MILL STREET
CONCRETE WALK
6' TALL FENCE W/ BARBED WIRE
M-59/WOODWARD AVE.
ASPHALT
GRASS
VACANT PARCEL
GATE
MW-13 (909.54)
MW-14 (909.48)
MW-2 (910.12)
U.P.
MW-25 (909.77)
(911.92) MW-29
B-29
AUGUSTA RELIEF DRAIN EASEMENT (APPROXIMATE LOCATION)
FORMER 1,000-GALLON GASOLINE UST
MW-10 (908.67)
MW-17 (915.83)
APPROXIMATE LIMIT OF UST EXCAVATION (APPROXIMATELY 14' DEEP)
LOCATION OF FORMER GASOLINE DISPENSER
CB
CONC PAD
FORMER FILL PORT
MW-22 (913.47)
FORMER VENT LINE
MW-21 (913.61)
FORMER 1,000-GALLON SPILL / WASTE OIL UST
915
914
913
912
911
910
MW-4 (908.86)
CURB DUBDOWN
MW-26 (913.03)
MW-28 (913.61)
(913.56)
MW-23
ABANDONED DYNAMOMETER PIT
MW-30 (913.10)
TRENCH DRAIN
FORMER TRENCH DRAIN
ABANDONED OIL/SAND SEPARATOR
ABANDONED TRENCH DRAIN
MW-8 (913.02)
MW-24S (913.06)
MW-24D
MW-12 (912.17)
FORMER HYDRAULIC ELEVATOR
TWO 10.5' DIA. PIPES
MW-27 (910.08)
(911.36) MW-18
MW-11 (912.46)
(910.03) MW-16
MW-17 AUGUSTA RELIEF DRAIN EASEMENT (APPROXIMATE LOCATION)
6' TALL FENCE
UNIVERSITY DRIVE
PAVED PARKING LOT
NORTH PERRY STREET
RICH SIGN SERVICE
THE LAW AND MEDIATION CENTER
TINY TOTS DAY
MILL STREET
APPROXIMATE LOCATION OF FORMER TRENCH DRAIN WITH FORMER SINGLE CHAMBER OIL/WATER SEPARATOR
TILE AREA
MW-5 (911.46)
MW-31 (909.14)
MW-32 (909.99)
MH
4" (5' bgs)
8" (10' bgs)
12" (10' bgs)
4" (6-7' bgs)
8" (10-11' bgs)
6" (3-4' bgs)
6" (7' bgs)

0 30' 60'
GRAPHIC SCALE

LEGEND:

- APPROXIMATE PROPERTY BOUNDARY LINE
- FORMER SITE BUILDING
- FENCE
- APPROXIMATE FORMER BASEMENT OUTLINE (FILLED)
- LIGHT POLE
- UTILITY POLE
- AUGUSTA RELIEF DRAIN EASEMENT (2 STORM DRAINS APPROXIMATELY 10 TO 15 FEET BGL)
- STORM SEWER (APPROXIMATELY 2.5 TO 8.2 FEET BGL)
- STORM MANHOLE/CATCH BASIN
- SANITARY SEWER (APPROXIMATELY 10.5 FEET BGL)
- SANITARY MANHOLE
- GAS (APPROXIMATELY 3.5 TO 5.5 FEET BGL)
- WATER (APPROXIMATELY 6 TO 7 FEET BGL)
- GASOLINE FORMER UNDERGROUND PIPING
- SPILL / WASTE OIL FORMER UNDERGROUND PIPING
- SOIL BORING LOCATION (ARCADIS BBL; 11/06-12/06)
- EXCAVATED SOIL BORING LOCATION
- SOIL BORING LOCATION (ARCADIS 01/12)
- MONITORING WELL LOCATION (ARCADIS BBL; 11/06-12/06)
- ABANDONED MONITORING WELL LOCATION (ARCADIS BBL; 11/06-12/06)
- ABANDONED DUAL-POST UNDERGROUND HYDRAULIC LIFT
- FORMER DUAL-POST UNDERGROUND HYDRAULIC LIFT
- FORMER SUMP
- ABANDONED EXTRACTION WELL
- CONCRETE AREA
- TILE AREA
- MONITORING WELL LOCATION (ARCADIS; 9/07-10/07, & 11/10)
- EXCAVATION LIMITS (ARCADIS; 6/12)
- SOIL CONFIRMATION SAMPLE (ARCADIS; 06/12)
- GROUNDWATER ELEVATION
- APPROXIMATE GROUNDWATER CONTOUR (DASHED WHERE INFERRED)
- APPARENT GROUNDWATER FLOW DIRECTION

NOTES:

1. BASE MAP INFORMATION SUPPLIED BY ATWELL HICKS PLANIMETRIC, SOIL BORING AND MONITORING WELL SURVEY OF A PARCEL OF LAND, DATED 12-13-06 & 2-13-08.
2. ELEVATIONS ARE BASED ON NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88). COORDINATES ARE ON THE MICHIGAN STATE PLANE COORDINATE SYSTEM.
3. MONITORING WELL, SOIL BORING AND MANHOLE LOCATIONS WERE SURVEYED BY ATWELL HICKS ON DECEMBER 11, 2006 * FEBRUARY 12, 2008, & JC ANDRUS ON NOVEMBER 1, 2010 & JANUARY 29, 2013.
4. UNDERGROUND UTILITY INFORMATION INCLUDING GAS LINE DEPTH SUPPLIED BY GENERAL MOTORS CORPORATION, FROM A FIGURE ENTITLED "PLOT PLAN", DATED 12-14-51, AT A SCALE OF 1/16"=1'-0".
5. UTILITY DEPTHS FOR STORM SEWER PROVIDED BY ATWELL HICKS. UTILITY DEPTHS FOR WATER AND SANITARY SEWER PROVIDED BY CITY OF PONTIAC ENGINEERING DIVISION. UTILITY DEPTH FOR AUGUSTA RELIEF DRAIN PROVIDED BY OAKLAND COUNTY DRAIN COMMISIONER.
6. AUGUSTA RELIEF DRAIN PIPES ARE ASSUMED TO BE SIDE BY SIDE.
7. BGL = BELOW GROUND LEVEL.
8. MW-17 & MW-24D NOT USED TO CONTOUR.

RACER TRUST
EMPLOYEE DEVELOPMENT CENTER SITE
65 E. UNIVERSITY DRIVE
PONTIAC, MICHIGAN 48342

GROUNDWATER ELEVATION & CONTOUR MAP SEPTEMBER 17, 2013

ARCADIS

FIGURE 3

CITY:BRIGHTON DIV/GROUP:ES DB:ADF LD:(Opt) PIC:(Opt) PM:(Read) TM:(Opt) LYR:(Opt)ON=*;OFF=*REF*
G:\ENVCAD\BRIGHTON\ACTIB\0064486\2013\000030\dwg\64486C12.dwg LAYOUT: 4 SAVED: 10/14/2013 3:30 PM ACADVER: 18.1S (LMS TECH) PAGESETUP: C-LD2B-PDF-GMS PLOTSTYLETABLE: PLTFULL.CTB PLOTTED: 10/14/2013 3:30 PM BY: FOX, AARON
XREFS:
IMAGES:
PROJECTNAME: ---
64486x04

WOODED AREA

MILL STREET

CONCRETE WALK

ASPHALT

M-59 / WOODWARD AVE.

6' TALL FENCE W/ BARBED WIRE

GATE

U.P.

AUGUSTA RELIEF DRAIN EASEMENT (APPROXIMATE LOCATION)

FORMER 1,000-GALLON GASOLINE UST

APPROXIMATE LIMIT OF UST EXCAVATION (APPROXIMATELY 14' DEEP)

LOCATION OF FORMER GASOLINE DISPENSER

FORMER FILL PORT

FORMER VENT LINE

CONC. PAD

TRENCH DRAIN

FORMER 1,000-GALLON SPILL / WASTE OIL UST

ABANDONED DYNAMOMETER PIT

ABANDONED OIL/SAND SEPARATOR

ABANDONED TRENCH DRAIN

FORMER TRENCH DRAIN

FORMER HYDRAULIC ELEVATOR

TWO 10.5' DIA. PIPES

ABANDONED TRENCH DRAIN

APPROXIMATE LOCATION OF FORMER TRENCH DRAIN WITH FORMER SINGLE CHAMBER OIL/WATER SEPARATOR

RICH SIGN SERVICE

TINY TOTS DAY

UNDERGROUND POST

ABANDONED HYDRAULIC OIL TANK

MW-14			
DATE	1/29/2013	6/26/2013	9/19/2013
PAHs			
1-Methylnaphthalene	<5	<5	<5
2-Methylnaphthalene	<5	<5	<5
Naphthalene	<5	<5	<5
Other Target PAHs	ND	ND	ND
VOCs			
Benzene	<1	<1	<1
Toluene	<1	<1	<1
Ethylbenzene	<1	<1	<1
Xylenes, Total	<3	<3	<3
MTBE	<5	<5	<5
cis-1,2-Dichloroethene	<1	<1	<1
n-Propylbenzene	<1	<1	<1
Trichloroethene	<1	<1	<1
1,2,3-Trimethylbenzene	<1	<1	<1
1,2,4-Trimethylbenzene	<1	<1	<1
1,3,5-Trimethylbenzene	<1	<1	<1
Other Target VOCs	ND	ND	ND
Dissolved Metals			
Lead	<0.003	<0.003	<0.003

MW-13			
DATE	1/29/2013	6/26/2013	9/18/2013
PAHs			
1-Methylnaphthalene	<5	<5	<5
2-Methylnaphthalene	<5	<5	<5
Naphthalene	<5	<5	<5
Other Target PAHs	ND	ND	ND
VOCs			
Benzene	<1	<1	<1
Toluene	<1	<1	<1
Ethylbenzene	<1	<1	<1
Xylenes, Total	<3	<3	<3
MTBE	<5	<5	<5
cis-1,2-Dichloroethene	<1	<1	<1
n-Propylbenzene	<1	<1	<1
Trichloroethene	<1	<1	<1
1,2,3-Trimethylbenzene	<1	<1	<1
1,2,4-Trimethylbenzene	<1	<1	<1
1,3,5-Trimethylbenzene	<1	<1	<1
Other Target VOCs	ND	ND	ND
Dissolved Metals			
Lead	<0.003	<0.003	<0.003

MW-2			
DATE	1/20/2013	6/26/2013	9/18/2013
PAHs			
1-Methylnaphthalene	<5	<5	<5
2-Methylnaphthalene	<5	<5	<5
Naphthalene	<5	<5	<5
Other Target PAHs	ND	ND	ND
VOCs			
Benzene	<1	<1	<1
Toluene	<1	<1	<1
Ethylbenzene	<1	<1	<1
Xylenes, Total	<3	<3	<3
MTBE	<5	<5	<5
cis-1,2-Dichloroethene	<1	<1	<1
n-Propylbenzene	<1	<1	<1
Trichloroethene	<1	<1	<1
1,2,3-Trimethylbenzene	<1	<1	<1
1,2,4-Trimethylbenzene	<1	<1	<1
1,3,5-Trimethylbenzene	<1	<1	<1
Other Target VOCs	ND	ND	ND
Dissolved Metals			
Lead	<0.003	<0.003	<0.003

MW-29			
DATE	1/20/2013	6/26/2013	9/17/2013
PAHs			
1-Methylnaphthalene	<5	<5	<5
2-Methylnaphthalene	<5	<5	<5
Naphthalene	<5	<5	<5
Other Target PAHs	ND	ND	ND
VOCs			
Benzene	<1	<1	<1
Toluene	<1	<1	<1
Ethylbenzene	<1	<1	<1
Xylenes, Total	<3	<3	<3
MTBE	<5	<5	<5
cis-1,2-Dichloroethene	<1	<1	<1
n-Propylbenzene	<1	<1	<1
Trichloroethene	<1	<1	<1
1,2,3-Trimethylbenzene	<1	<1	<1
1,2,4-Trimethylbenzene	<1	<1	<1
1,3,5-Trimethylbenzene	<1	<1	<1
Other Target VOCs	ND	ND	ND
Dissolved Metals			
Lead	<0.003	<0.003	<0.003

MW-22			
DATE	1/31/2013	6/25/2013	9/19/2013
PAHs			
1-Methylnaphthalene	<5	<5	<5
2-Methylnaphthalene	<5	<5	<5
Naphthalene	<5	<5	<5
Other Target PAHs	ND	ND	ND
VOCs			
Benzene	<1	<1	<1
Toluene	<1	<1	<1
Ethylbenzene	<1	<1	<1
Xylenes, Total	<3	<3	<3
MTBE	<5	<5	<5
cis-1,2-Dichloroethene	<1	<1	<1
n-Propylbenzene	<1	<1	<1
Trichloroethene	<1	<1	<1
1,2,3-Trimethylbenzene	<1	<1	<1
1,2,4-Trimethylbenzene	<1	<1	<1
1,3,5-Trimethylbenzene	<1	<1	<1
Other Target VOCs	ND	ND	ND
Dissolved Metals			
Lead	<0.003	<0.003	<0.003

MW-16			
DATE	2/1/2013	6/25/2013	9/17/2013
PAHs			
1-Methylnaphthalene	<5	<5	<5
2-Methylnaphthalene	<5	<5	<5
Naphthalene	<5	<5	<5
Other Target PAHs	ND	ND	ND
VOCs			
Benzene	<1	<1	<1
Toluene	<1	<1	<1
Ethylbenzene	<1	<1	<1
Xylenes, Total	<3	<3	<3
MTBE	<5	<5	<5
cis-1,2-Dichloroethene	<1	<1	<1
n-Propylbenzene	<1	<1	<1
Trichloroethene	<1	<1	<1
1,2,3-Trimethylbenzene	<1	<1	<1
1,2,4-Trimethylbenzene	<1	<1	<1
1,3,5-Trimethylbenzene	<1	<1	<1
Other Target VOCs	ND	ND	ND
Dissolved Metals			
Lead	<0.003	<0.003	<0.003

MW-10			
DATE	1/29/2013	6/25/2013	9/17/2013
PAHs			
1-Methylnaphthalene	<5	<5	<5
2-Methylnaphthalene	<5	<5	<5
Naphthalene	<5	<5	<5
Other Target PAHs	ND	ND	ND
VOCs			
Benzene	<1	<1	<1
Toluene	<1	<1	<1
Ethylbenzene	<1	<1	<1
Xylenes, Total	<3	<3	<3
MTBE	<5	<5	<5
cis-1,2-Dichloroethene	<1	<1	<1
n-Propylbenzene	<1	<1	<1
Trichloroethene	<1	<1	<1
1,2,3-Trimethylbenzene	<1	<1	<1
1,2,4-Trimethylbenzene	<1	<1	<1
1,3,5-Trimethylbenzene	<1	<1	<1
Other Target VOCs	ND	ND	ND
Dissolved Metals			
Lead	<0.003	<0.003	<0.003

MW-28			
DATE	1/28/2013	6/27/2013	9/19/2013
PAHs			
1-Methylnaphthalene	<5	<5	<5
2-Methylnaphthalene	<5	<5	<5
Naphthalene	<5	<5	<5
Other Target PAHs	ND	ND	ND
VOCs			
Benzene	<1	<1	<1
Toluene	<1	<1	<1
Ethylbenzene	<1	<1	<1
Xylenes, Total	<3	<3	<3
MTBE	<5	<5	<5
cis-1,2-Dichloroethene	<1	<1	<1
n-Propylbenzene	<1	<1	<1
Trichloroethene	<1	<1	<1
1,2,3-Trimethylbenzene	<1	<1	<1
1,2,4-Trimethylbenzene	<1	<1	<1
1,3,5-Trimethylbenzene	<1	<1	<1
Other Target VOCs	ND	ND	ND
Dissolved Metals			
Lead	<0.003	<0.003	<0.003

MW-25			
DATE	1/30/2013	6/24/2013	9/19/2013
PAHs			
1-Methylnaphthalene	<5	<5	<5
2-Methylnaphthalene	<5	<5	<5
Naphthalene	<5	<5	<5
Other Target PAHs	ND	ND	ND
VOCs			
Benzene	<1	<1	<1
Toluene	<1	<1	<1
Ethylbenzene	<1	<1	<1
Xylenes, Total	<3	<3	<3
MTBE	<5	<5	<5
cis-1,2-Dichloroethene	<1	<1	<1
n-Propylbenzene	<1	<1	<1
Trichloroethene	<1	<1	<1
1,2,3-Trimethylbenzene	<1	<1	<1
1,2,4-Trimethylbenzene	<1	<1	<1
1,3,5-Trimethylbenzene	<1	<1	<1
Other Target VOCs	ND	ND	ND
Dissolved Metals			
Lead	<0.003	<0.003	<0.003

MW-26			
DATE	1/30/2013	6/24/2013	9/19/2013
PAHs			
1-Methylnaphthalene	<5	<5	<5
2-Methylnaphthalene	<5	<5	<5
Naphthalene	<5	<5	<5
Other Target PAHs	ND	ND	ND
VOCs			
Benzene	3,360 [DW,GSI]	3,020 [DW,GSI]	2,600 [DW,GSI]
Toluene	<50	50	<100
Ethylbenzene	<50	<50	<100
Xylenes, Total	<150	<150	<300
MTBE	<300	<300	<500
cis-1,2-Dichloroethene	<50	<50	<100
n-Propylbenzene	<50	<50	<100
Trichloroethene	<50	<50	<100
1,2,3-Trimethylbenzene	<50	<50	<100
1,2,4-Trimethylbenzene	<50	<50	<100
1,3,5-Trimethylbenzene	<50	<50	<100
Other Target VOCs	ND	ND	ND
Dissolved Metals			
Lead	<0.003	<0.003	<0.003

MW-23			
DATE	1/31/2013	6/26/2013	9/20/2013
PAHs			
1-Methylnaphthalene	<5	<5	<5
2-Methylnaphthalene	<5	<5	<5
Naphthalene	<5	<5	<5
Other Target PAHs	ND	ND	ND
VOCs			
Benzene	<1	<1	<1
Toluene	<1	<1	<1
Ethylbenzene	<1	<1	<1
Xylenes, Total	<3	<3	<3
MTBE	<5	<5	<5
cis-1,2-Dichloroethene	<1	<1	<1
n-Propylbenzene	<1	<1	<1
Trichloroethene	<1	<1	<1
1,2,3-Trimethylbenzene	<1	<1	<1
1,2,4-Trimethylbenzene	<1	<1	<1
1,3,5-Trimethylbenzene	<1	<1	<1
Other Target VOCs	ND	ND	ND
Dissolved Metals			
Lead	<0.003	<0.003	<0.003

MW-24S			
DATE	1/31/2013	6/28/2013	9/20/2013
PAHs			
1-Methylnaphthalene	<5	<5	<5
2-Methylnaphthalene	<5	<5	<5
Naphthalene	<5	<5	<5
Other Target PAHs	ND	ND	ND
VOCs			
Benzene	<1	<1	<1
Toluene	<1	<1	<1
Ethylbenzene	<1	<1	<1
Xylenes, Total	<3	<3	<3
MTBE	<5	<5	<5
cis-1,2-Dichloroethene	<1	<1	<1
n-Propylbenzene	<1	<1	<1
Trichloroethene	<1	<1	<1
1,2,3-Trimethylbenzene	<1	<1	<1
1,2,4-Trimethylbenzene	<1	<1	<1
1,3,5-Trimethylbenzene	<1	<1	<1
Other Target VOCs	ND	ND	ND
Dissolved Metals			
Lead	<0.003	<0.003	<0.003

MW-21			
DATE	1/28/2013	6/25/2013	9/19/2013
PAHs			
1-Methylnaphthalene	<5	<5	<5
2-Methylnaphthalene	<5	<5	<5
Naphthalene	<5	<5	<5
Other Target PAHs	ND	ND	ND
VOCs			
Benzene	<1	<1	<1
Toluene	<1	<1	<1
Ethylbenzene	<1	<1	<1
Xylenes, Total	<3	<3	<3
MTBE	<5	<5	<5
cis-1,2-Dichloroethene	<1	<1	<1
n-Propylbenzene	<1	<1	<1
Trichloroethene	<1	<1	<1
1,2,3-Trimethylbenzene	<1	<1	<1
1,2,4-Trimethylbenzene	<1	<1	<1
1,3,5-Trimethylbenzene	<1	<1	<1
Other Target VOCs	ND	ND	ND
Dissolved Metals			
Lead	<0.003	<0.003	<0.003

MW-24D			
DATE	1/31/2013	6/28/2013	9/20/2013
PAHs			
1-Methylnaphthalene	12	6	10
2-Methylnaphthalene	23 [DW]	13	19
Naphthalene	133 [GSI]	71 [GSI]	101 [GSI]
Other Target PAHs	ND	ND	ND
VOCs			
Benzene	20,000 [DW,GSI,GC]	21,300 [DW,GSI,GC]	19,700 [DW,GSI,GC]
Toluene	23,500 [DW,GSI]	23,100 [DW,GSI]	17,500 [DW,GSI]
Ethylbenzene	1,800 [DW,GSI]	2,000 [DW,GSI]	1,600 [DW,GSI]
Xylenes, Total	9,800 [DW,GSI]	10,900 [DW,GSI]	8,200 [DW,GSI]
MTBE	<1,000	<1,000	<1,000
cis-1,2-Dichloroethene	<200	<200	<200
n-Propylbenzene	<200	<200	<200
Trichloroethene	<200	<200	<200
1,2,3-Trimethylbenzene	<200	200	<200
1,2,4-Trimethylbenzene	700 [DW,GSI]	800 [DW,GSI]	600 [DW,GSI]
1,3,5-Trimethylbenzene	<200	200 [DW, GSI]	<200
Other Target VOCs	ND	ND	ND
Dissolved Metals			
Lead	0.003	0.004	<0.003

MW-12			
DATE	1/31/2013	6/27/2013	9/19/2013
PAHs			
1-Methylnaphthalene	<5	<5	<5
2-Methylnaphthalene	<5	<5	<5
Naphthalene	<5	<5	<5
Other Target PAHs	ND	ND	ND
VOCs			
Benzene	<1	<1	<1
Toluene	<1	<1	<1
Ethylbenzene	<1	<1	<1
Xylenes, Total	<3	<3	<3
MTBE	<5	<5	<5
cis-1,2-Dichloroethene	<1	<1	<1
n-Propylbenzene	<1	<1	<1
Trichloroethene	8 [DW]	7 [DW]	8 [DW]
1,2,3-Trimethylbenzene	<1	<1	<1
1,2,4-Trimethylbenzene	<1	<1	<1
1,3,5-Trimethylbenzene	<1	<1	<1
Other Target VOCs	ND	ND	ND
Dissolved Metals			
Lead	<0.003	<0.003	<0.003

MW-30			
DATE	1/31/2013	6/25/2013	9/20/2013
PAHs			
1-Methylnaphthalene	<5	<5	<5
2-Methylnaphthalene	<5	<5	<5
Naphthalene	<5	<5	<5
Other Target PAHs	ND	ND	ND
VOCs			
Benzene	<1	<1	<1
Toluene	<1	<1	<1
Ethylbenzene	<1	<1	<1
Xylenes, Total	<3	<3	<3
MTBE	<5	<5	<5
cis-1,2-Dichloroethene	<1	<1	<1
n-Propylbenzene	<1	<1	<1
Trichloroethene	<1	<1	<1
1,2,3-Trimethylbenzene	<1	<1	<1
1,2,4-Trimethylbenzene	<1	<1	<1
1,3,5-Trimethylbenzene	<1	<1	<1
Other Target VOCs	ND	ND	ND
Dissolved Metals			
Lead	<0.003	<0.003	<0.003

MW-18			
DATE	2/1/2013	6/26/2013	9/17/2013
PAHs			
1-Methylnaphthalene	<5	<5	<5
2-Methylnaphthalene	<5	<5	<5
Naphthalene	<5	<5	<5
Other Target PAHs	ND	ND	ND
VOCs			
Benzene	<1	<1	<1
Toluene	<1	<1	<1
Ethylbenzene	<1	<1	<1
Xylenes, Total	<3	<3	<3
MTBE	<5	<5	<5
cis-1,2-Dichloroethene	<1	<1	<1
n-Propylbenzene	<1	<1	<1
Trichloroethene	<1	<1	<1
1,2,3-Trimethylbenzene	<1	<1	<1
1,2,4-Trimethylbenzene	<1	<1	<1
1,3,5-Trimethylbenzene	<1	<1	<1
Other Target VOCs	ND	ND	ND
Dissolved Metals			
Lead	<0.003	<0.003	<0.003

MW-4			
DATE	2/1/2013	6/26/2013	9/17/2013
PAHs			
1-Methylnaphthalene	<5	<5	<5
2-Methylnaphthalene	<5	<5	<5
Naphthalene	<5	<5	<5
Other Target PAHs	ND	ND	ND
VOCs			
Benzene	<1	<1	<1
Toluene	<1	<1	<1
Ethylbenzene	<1	<1	<1
Xylenes, Total	<3	<3	<3
MTBE	<5	<5	<5
cis-1,2-Dichloroethene	<1	<1	<1
n-Propylbenzene	<1	<1	<1
Trichloroethene	<1	<1	<1
1,2,3-Trimethylbenzene	<1	<1	<1
1,2,4-Trimethylbenzene	<1	<1	<1
1,3,5-Trimethylbenzene	<1	<1	<1
Other Target VOCs	ND	ND	ND
Dissolved Metals			
Lead	<0.003	<0.003	<0.003

MW-17			
DATE	2/1/2013	6/26/2013	9/17/2013
PAHs			
1-Methylnaphthalene	<5	<5	<5
2-Methylnaphthalene	<5	<5	<5
Naphthalene	<5	<5	<5
Other Target PAHs	ND	ND	ND
VOCs			
Benzene	<1	<1	<1
Toluene	<1	<1	<1
Ethylbenzene	<1	<1	<1
Xylenes, Total	<3	<3	<3
MTBE	<5	<5	<5
cis-1,2-Dichloroethene	<1	<1	<1
n-Propylbenzene	<1	<1	<1
Trichloroethene	<1	<1	<1
1,2,3-Trimethylbenzene	<1	<1	<1
1,2,4-Trimethylbenzene	<1	<1	<1
1,3,5-Trimethylbenzene	<1	<1	<1
Other Target VOCs	ND	ND	ND
Dissolved Metals			
Lead	<0.003	<0.003	<0.003

MW-27			
DATE	1/30/2013	6/24/2013	9/19/2013
PAHs			
1-Methylnaphthalene	<5	<5	<5
2-Methylnaphthalene	<5	<5	<5
Naphthalene	<5	<5	<5
Other Target PAHs	ND	ND	ND
VOCs			
Benzene	<1	<1	<1
Toluene	<1	<1	<1
Ethylbenzene	<1	<1	<1
Xylenes, Total	<3	<3	<3
MTBE	<5	<5	<5
cis-1,2-Dichloroethene	<1	<1	<1
n-Propylbenzene	<1	<1	<1
Trichloroethene	<1	<1	<1
1,2,3-Trimethylbenzene	<1	<1	<1
1,2,4-Trimethylbenzene	<1	<1	<1
1,3,5-Trimethylbenzene	<1	<1	<1
Other Target VOCs	ND	ND	ND
Dissolved Metals			
Lead	<0.003	<0.003	<0.003

MW-20			
DATE	1/30/2013	6/27/2013	9/20/2013
PAHs			
1-Methylnaphthalene	<5	<5	<5
2-Methylnaphthalene	<5	<5	<5
Naphthalene	<5	<5	<5
Other Target PAHs	ND	ND	ND
VOCs			
Benzene	<1	<1	<1
Toluene	<1	<1	<1
Ethylbenzene	<1	<1	<1
Xylenes, Total	<3	<3	<3
MTBE	<5	<5	<5
cis-1,2-Dichloroethene	<1	<1	<1
n-Propylbenzene	<1	<1	<1
Trichloroethene	<1	<1	<1
1,2,3-Trimethylbenzene	<1	<1	<1
1,2,4-Trimethylbenzene	<1	<1	<1
1,3,5-Trimethylbenzene	<1	<1	<1
Other Target VOCs	ND	ND	ND
Dissolved Metals			
Lead	<0.003	<0.003	<0.003

MW-8			
DATE	1/31/2013	6/27/2013	9/20/2013
PAHs			
1-Methylnaphthalene	<5	<5	<5
2-Methylnaphthalene	<5	<5	8
Naphthalene	21 [GSI]	39 [GSI]	43 [GSI]
Other Target PAHs	ND	ND	ND
VOCs			
Benzene	1,630 [DW,GSI]	2,100 [DW,GSI]	2,350 [DW,GSI]
Toluene	40	130	130
Ethylbenzene	460 [DW,GSI]	770 [DW,GSI]	910 [DW,GSI]
Xylenes, Total	1,170 [DW,GSI]	1,770 [DW,GSI]	2,510 [DW,GSI]
MTBE	<100	<100	<100
cis-1,2-Dichloroethene	<20	<20	<20
n-Propylbenzene	40	80	80
Trichloroethene	<20	<20	<20
1,2,3-Trimethylbenzene	60	110	140
1,2,4-Trimethylbenzene	280 [DW,GSI]	450 [DW,GSI]	450 [DW,GSI]
1,3,5-Trimethylbenzene	50 [GSI]	70 [GSI]	100 [GSI]
Other Target VOCs	ND	ND	ND
Dissolved Metals			
Lead	<0.003	<0.003	<0.003

MW-19			
DATE	1/30/2013	6/27/2013	9/19/2013
PAHs			
1-Methylnaphthalene	5	<5	<5
2-Methylnaphthalene	<5	<5	<5
Naphthalene	<5	<5	<5
Other Target PAHs	ND	ND	ND
VOCs			
Benzene	<1	<1	<1
Toluene	<1	<1	<1
Ethylbenzene	<1	<1	<1
Xylenes, Total	<3	<3	<3
MTBE	<5	<5	<5
cis-1,2-Dichloroethene	<1	<1	<1
n-Propylbenzene	<1	<1	<1
Trichloroethene	<1	<1	<1
1,2,3-Trimethylbenzene	<1	<1	<1
1,2,4-Trimethylbenzene	<1	<1	<1
1,3,5-Trimethylbenzene	<1	<1	<1
Other Target VOCs	ND	ND	ND
Dissolved Metals			
Lead	<0.003	<0.003	<0.003

MW-5			
DATE	2/1/2013	6/25/2013	9/19/2013
PAHs			
1-Methylnaphthalene	<5	<5	<5
2-Methylnaphthalene	<5	<5	<5
Naphthalene	<5	<5	<5
Other Target PAHs	ND	ND	ND
VOCs			
Benzene	<1	<1	<1
Toluene	<1	<1	<1
Ethylbenzene	<1	<1	<1
Xylenes, Total	<3	<3	<3
MTBE	<5	<5	<5
cis-1,2-Dichloroethene	9	9	10
n-Propylbenzene	<1	<1	<1
Trichloroethene	59 [DW]	62 [DW]	65 [DW]
1,2,3-Trimethylbenzene	<1	<1	<1
1,2,4-Trimethylbenzene	<1	<1	<1
1,3,5-Trimethylbenzene	<1	<1	<1
Other Target VOCs	ND	ND	ND
Dissolved Metals			
Lead	<0.003	<0.003	<0.003

MW-11			
DATE	1/30/2013	6/27/2013	9/19/2013
PAHs			
1-Methylnaphthalene	<5	<5	<5
2-Methylnaphthalene	<5	<5	<5
Naphthalene	<5	<5	<5
Other Target PAHs	ND	ND	ND
VOCs			
Benzene	<1	<1	<1
Toluene	<1	<1	<1
Ethylbenzene	<1	<1	<1
Xylenes, Total	<3	<3	<3
MTBE	<5	<5	<5
cis-1,2-Dichloroethene	<1	<1	<1
n-Propylbenzene	<1	<1	<1
Trichloroethene	<1	<1	<1
1,2,3-Trimethylbenzene	<1	<1	<1
1,2,4-Trimethylbenzene	<1	<1	<1
1,3,5-Trimethylbenzene	<1	<1	<1
Other Target VOCs	ND	ND	ND
Dissolved Metals			
Lead	<0.003	<0.003	<0.003

MW-31			
DATE	2/1/2013	6/25/2013	9/20/2013
PAHs			
1-Methylnaphthalene	<5	<5	<5
2-Methylnaphthalene	<5	<5	<5
Naphthalene	<5	<5	<5
Other Target PAHs	ND	ND	ND
VOCs			
Benzene	<1	<1	<1
Toluene	<1	<1	<1
Ethylbenzene	<1	<1	<1
Xylenes, Total	<3	<3	<3
MTBE	<5	<5	<5
cis-1,2-Dichloroethene	<1	<1	<1
n-Propylbenzene	<1	<1	<1
Trichloroethene	<1	<1	<1
1,2,3-Trimethylbenzene	<1	<1	<1
1,2,4-Trimethylbenzene	<1	<1	<1
1,3,5-Trimethylbenzene	<1	<1	<1
Other Target VOCs	ND	ND	ND
Dissolved Metals			
Lead	<0.003	<0.003	<0.003

MW-9			
DATE	2/1/2013	6/27/2013	9/19/2013
PAHs			
1-Methylnaphthalene	<5	<5	<5
2-Methylnaphthalene	<5	<5	<5
Naphthalene	<5	<5	<5
Other Target PAHs	ND	ND	ND
VOCs			
Benzene	<1	<1	<1
Toluene	<1	<1	<1
Ethylbenzene	<1	<1	<1
Xylenes, Total	<3	<3	<3
MTBE	<5	<5	<5
cis-1,2-Dichloroethene	<1	<1	<1
n-Propylbenzene	<1	<1	<1
Trichloroethene	<1	<1	<1
1,2,3-Trimethylbenzene	<1	<1	<1
1,2,4-Trimethylbenzene	<1	<1	<1
1,3,5-Trimethylbenzene	<1	<1	<1
Other Target VOCs	ND	ND	ND
Dissolved Metals			
Lead	<0.003	<0.003	<0.003

LEGEND:

- APPROXIMATE PROPERTY BOUNDARY LINE
- FORMER SITE BUILDING
- FENCE
- APPROXIMATE FORMER BASEMENT OUTLINE (FILLED)
- LIGHT POLE
- UTILITY POLE
- AUGUSTA RELIEF DRAIN EASEMENT (2 STORM DRAINS APPROXIMATELY 10 TO 15 FEET BGL)
- STORM SEWER (APPROXIMATELY 2.5 TO 8.2 FEET BGL)
- STORM MANHOLE/CATCH BASIN
- SANITARY SEWER (APPROXIMATELY 10.5 FEET BGL)
- SANITARY MANHOLE
- GAS (APPROXIMATELY 3.5 TO 5.5 FEET BGL)
- WATER (APPROXIMATELY 6 TO 7 FEET BGL)
- GASOLINE FORMER UNDERGROUND PIPING
- SPILL / WASTE OIL FORMER UNDERGROUND PIPING
- SOIL BORING LOCATION (ARCADIS BBL; 11/06–12/06)
- EXCAVATED SOIL BORING LOCATION
- SOIL BORING LOCATION (ARCADIS 01/12)
- MONITORING WELL LOCATION (ARCADIS BBL; 11/06–12/06)
- ABANDONED MONITORING WELL LOCATION (ARCADIS BBL; 11/06–12/06)
- ABANDONED DUAL–POST UNDERGROUND HYDRAULIC LIFT
- FORMER DUAL–POST UNDERGROUND HYDRAULIC LIFT
- FORMER SUMP
- ABANDONED EXTRACTION WELL
- CONCRETE AREA
- TILE AREA
- MONITORING WELL LOCATION (ARCADIS; 9/07–10/07, & 11/10)
- EXCAVATION LIMITS (ARCADIS; 6/12)
- SOIL CONFIRMATION SAMPLE (ARCADIS; 06/12)

0 30' 60'
GRAPHIC SCALE

NOTES:

1. BASE MAP INFORMATION SUPPLIED BY ATWELL HICKS PLANIMETRIC, SOIL BORING AND MONITORING WELL SURVEY OF A PARCEL OF LAND, DATED 12–13–06 & 2–13–08.
2. ELEVATIONS ARE BASED ON NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88). COORDINATES ARE ON THE MICHIGAN STATE PLANE COORDINATE SYSTEM.
3. MONITORING WELL, SOIL BORING AND MANHOLE LOCATIONS WERE SURVEYED BY ATWELL HICKS ON DECEMBER 11, 2006 * FEBRUARY 12, 2008, & JC ANDRUS ON NOVEMBER 1, 2010 & JANUARY 29, 2013.
4. UNDERGROUND UTILITY INFORMATION INCLUDING GAS LINE DEPTH SUPPLIED BY GENERAL MOTORS CORPORATION, FROM A FIGURE ENTITLED "PLOT PLAN", DATED 12–14–51, AT A SCALE OF 1/16"=1'–0".
5. UTILITY DEPTHS FOR STORM SEWER PROVIDED BY ATWELL HICKS. UTILITY DEPTHS FOR WATER AND SANITARY SEWER PROVIDED BY CITY OF PONTIAC ENGINEERING DIVISION. UTILITY DEPTH FOR AUGUSTA RELIEF DRAIN PROVID

Attachment 1

Laboratory Analytical Reports

Analytical Laboratory Report

Report ID: S58163.01(01)
Generated on 10/03/2013

Report to

Attention: Allyn Begnoche
Arcadis
10559 Citation Drive
Suite 100
Brighton, MI 48116

Phone: 810-225-1971 FAX: 810-229-8837
Email: allyn.begnoche@arcadis-us.com

Report produced by

Merit Laboratories, Inc.
2680 East Lansing Drive
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Contacts for report questions:
Tabitha Faust (tfaust@meritlabs.com)
Barbara Ball (bball@meritlabs.com)

Report Summary

Lab Sample ID(s): S58163.01-S58163.15, S58205.01-S58205.21
Project: B0064486.2013.00003 Pontiac EDC Pontiac, MI
Collected Date: 09/17/2013 - 09/20/2013
Submitted Date/Time: 09/19/2013 15:00
Sampled by: J. Bender
P.O. #: B0064486.2013.00003

Sets S58163 and S58205 reported together per client request

Report Notes

Results relate only to items tested as received by the laboratory.
Methods may be modified for improved performance.
Results reported on a dry weight basis where applicable.
'Not detected' indicates that parameter was not found at a level equal to or greater than the reporting limit (RL).
Samples are held by the lab for 30 days from the final report date unless a written request to hold longer is provided by the client.
Report shall not be reproduced except in full, without the written approval of Merit Laboratories, Inc..

Laboratory Certifications:
Michigan DNRE (#9956), DOD/ISO 17025 (#69699), WBENC (#2005110032), Ohio EPA (#CL0002)
IN Drinking Water (#C-MI-07), NELAC NY (#11814), NCDENR (#680), NC Drinking Water (#26702)
Some analytes reported may not be certified. Full certification lists are available upon request.

Violetta F. Murshak
Laboratory Director

Analytical Laboratory Report

Sample Summary (36 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S58163.01	MW-4 (091713)	Groundwater	09/17/2013 10:41
S58163.02	MW-18 (091713)	Groundwater	09/17/2013 11:55
S58163.03	MW-17 (091713)	Groundwater	09/17/2013 13:03
S58163.04	MW-30 (091713)	Groundwater	09/17/2013 14:11
S58163.05	MW-30 (091713) MS	Groundwater	09/17/2013 14:11
S58163.06	MW-30 (091713) MSD	Groundwater	09/17/2013 14:11
S58163.07	MW-10 (091713)	Groundwater	09/17/2013 15:44
S58163.08	MW-16 (091713)	Groundwater	09/17/2013 16:50
S58163.09	MW-29 (091713)	Groundwater	09/17/2013 18:04
S58163.10	MW-2 (091813)	Groundwater	09/18/2013 08:40
S58163.11	MW-13 (091813)	Groundwater	09/18/2013 09:48
S58163.12	MW-13 (091813) MS	Groundwater	09/18/2013 09:48
S58163.13	MW-13 (091813) MSD	Groundwater	09/18/2013 09:48
S58163.14	MW-14 (091913)	Groundwater	09/19/2013 08:55
S58163.15	Trip Blank	Liquid	09/19/2013 00:01
S58205.01	MW-9 (091913)	Groundwater	09/19/2013 09:30
S58205.02	MW-11 (091913)	Groundwater	09/19/2013 11:05
S58205.03	MW-5 (091913)	Groundwater	09/19/2013 11:27
S58205.04	MW-27 (091913)	Groundwater	09/19/2013 12:25
S58205.05	MW-12 (091913)	Groundwater	09/19/2013 12:55
S58205.06	MW-26 (091913)	Groundwater	09/19/2013 13:30
S58205.07	MW-21 (091913)	Groundwater	09/19/2013 14:20
S58205.08	MW-25 (091913)	Groundwater	09/19/2013 14:55
S58205.09	MW-22 (091913)	Groundwater	09/19/2013 15:30
S58205.10	MW-19 (091913)	Groundwater	09/19/2013 16:15
S58205.11	MW-28 (091913)	Groundwater	09/19/2013 16:27
S58205.12	DUP-1 (091913)	Groundwater	09/19/2013 00:01
S58205.13	DUP-2 (091913)	Groundwater	09/19/2013 00:01
S58205.14	DUP-3 (092013)	Groundwater	09/20/2013 00:01
S58205.15	MW-31 (092013)	Groundwater	09/20/2013 06:55
S58205.16	MW-24s (092013)	Groundwater	09/20/2013 08:25
S58205.17	MW-24d (092013)	Groundwater	09/20/2013 09:40
S58205.18	MW-8 (092013)	Groundwater	09/20/2013 11:13
S58205.19	MW-23 (092013)	Groundwater	09/20/2013 12:29
S58205.20	MW-20 (092013)	Groundwater	09/20/2013 13:45
S58205.21	TB-1	Water	09/20/2013 00:01

Analytical Laboratory Report

Lab Sample ID: S58163.01
Sample Tag: MW-4 (091713)
Collected Date/Time: 09/17/2013 10:41
Matrix: Groundwater
COC Reference: B0064486

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	1L Amber	None	Yes	5.0	IR
3	40ml Glass	HCL	Yes	5.0	IR
1	125ml Plastic	HNO3	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			3015A	09/20/13 15:00	PER		
pH check for VOCs	<2	STD Units		N/A	09/26/13 10:19	LBR		
PNA Extraction	Completed			3510C	09/24/13 12:41	EMR		
Metals								
Lead, Dissolved	Not detected	mg/L	0.003	E200.8	09/20/13 15:33	PER	7439-92-1	
Organics - Semi-Volatiles								
Polynuclear Aromatic Hydrocarbon								
Acenaphthene	Not detected	ug/L	5	SW8270C	09/25/13 14:29	PL	83-32-9	
Acenaphthylene	Not detected	ug/L	5	SW8270C	09/25/13 14:29	PL	208-96-8	
Anthracene	Not detected	ug/L	5	SW8270C	09/25/13 14:29	PL	120-12-7	
Benzo(a)anthracene	Not detected	ug/L	1	SW8270C	09/25/13 14:29	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/L	1	SW8270C	09/25/13 14:29	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/L	1	SW8270C	09/25/13 14:29	PL	205-99-2	
Benzo(k)fluoranthene	Not detected	ug/L	1	SW8270C	09/25/13 14:29	PL	207-08-9	
Benzo(ghi)perylene	Not detected	ug/L	1	SW8270C	09/25/13 14:29	PL	191-24-2	
Chrysene	Not detected	ug/L	1	SW8270C	09/25/13 14:29	PL	218-01-9	
Dibenzo(ah)anthracene	Not detected	ug/L	2	SW8270C	09/25/13 14:29	PL	53-70-3	
Fluoranthene	Not detected	ug/L	1	SW8270C	09/25/13 14:29	PL	206-44-0	
Fluorene	Not detected	ug/L	5	SW8270C	09/25/13 14:29	PL	86-73-7	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	2	SW8270C	09/25/13 14:29	PL	193-39-5	
Naphthalene	Not detected	ug/L	5	SW8270C	09/25/13 14:29	PL	91-20-3	
Phenanthrene	Not detected	ug/L	2	SW8270C	09/25/13 14:29	PL	85-01-8	
Pyrene	Not detected	ug/L	5	SW8270C	09/25/13 14:29	PL	129-00-0	
2-Methylnaphthalene	Not detected	ug/L	5	SW8270C	09/25/13 14:29	PL	91-57-6	
1-Methylnaphthalene	Not detected	ug/L	5	SW8270C	09/25/13 14:29	PL	90-12-0	
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	10	SW8260B	09/25/13 15:57	WAT	60-29-7	
Acetone	Not detected	ug/L	50	SW8260B	09/25/13 15:57	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	SW8260B	09/25/13 15:57	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	SW8260B	09/25/13 15:57	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW8260B	09/25/13 15:57	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	SW8260B	09/25/13 15:57	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	SW8260B	09/25/13 15:57	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW8260B	09/25/13 15:57	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	SW8260B	09/25/13 15:57	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW8260B	09/25/13 15:57	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	SW8260B	09/25/13 15:57	WAT	74-83-9	

Lab Sample ID: S58163.01 (continued)
Sample Tag: MW-4 (091713)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Chloroethane	Not detected	ug/L	5	SW8260B	09/25/13 15:57	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260B	09/25/13 15:57	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260B	09/25/13 15:57	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	SW8260B	09/25/13 15:57	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	09/25/13 15:57	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260B	09/25/13 15:57	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	09/25/13 15:57	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	SW8260B	09/25/13 15:57	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	SW8260B	09/25/13 15:57	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	SW8260B	09/25/13 15:57	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260B	09/25/13 15:57	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW8260B	09/25/13 15:57	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	SW8260B	09/25/13 15:57	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW8260B	09/25/13 15:57	WAT	56-23-5	
Benzene	Not detected	ug/L	1	SW8260B	09/25/13 15:57	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260B	09/25/13 15:57	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW8260B	09/25/13 15:57	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260B	09/25/13 15:57	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW8260B	09/25/13 15:57	WAT	75-27-4	
Dibromomethane	Not detected	ug/L	5	SW8260B	09/25/13 15:57	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	09/25/13 15:57	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	SW8260B	09/25/13 15:57	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	09/25/13 15:57	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260B	09/25/13 15:57	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW8260B	09/25/13 15:57	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW8260B	09/25/13 15:57	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	SW8260B	09/25/13 15:57	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260B	09/25/13 15:57	WAT	106-93-4	
Chlorobenzene	Not detected	ug/L	1	SW8260B	09/25/13 15:57	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	09/25/13 15:57	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	SW8260B	09/25/13 15:57	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	SW8260B	09/25/13 15:57	WAT		
o-Xylene	Not detected	ug/L	1	SW8260B	09/25/13 15:57	WAT	95-47-6	
Styrene	Not detected	ug/L	1	SW8260B	09/25/13 15:57	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	SW8260B	09/25/13 15:57	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	SW8260B	09/25/13 15:57	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	09/25/13 15:57	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	SW8260B	09/25/13 15:57	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	SW8260B	09/25/13 15:57	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	SW8260B	09/25/13 15:57	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW8260B	09/25/13 15:57	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	SW8260B	09/25/13 15:57	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW8260B	09/25/13 15:57	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	SW8260B	09/25/13 15:57	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	SW8260B	09/25/13 15:57	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260B	09/25/13 15:57	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260B	09/25/13 15:57	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260B	09/25/13 15:57	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW8260B	09/25/13 15:57	WAT	526-73-8	

Lab Sample ID: S58163.01 (continued)
Sample Tag: MW-4 (091713)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
n-Butylbenzene	Not detected	ug/L	1	SW8260B	09/25/13 15:57	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	SW8260B	09/25/13 15:57	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW8260B	09/25/13 15:57	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW8260B	09/25/13 15:57	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW8260B	09/25/13 15:57	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	SW8260B	09/25/13 15:57	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	SW8260B	09/25/13 15:57	WAT	91-57-6	

Analytical Laboratory Report

Lab Sample ID: S58163.02
Sample Tag: MW-18 (091713)
Collected Date/Time: 09/17/2013 11:55
Matrix: Groundwater
COC Reference: B0064486

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	1L Amber	None	Yes	5.0	IR
3	40ml Glass	HCL	Yes	5.0	IR
1	125ml Plastic	HNO3	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			3015A	09/20/13 15:00	PER		
pH check for VOCs	<2	STD Units		N/A	09/26/13 10:19	LBR		
PNA Extraction	Completed			3510C	09/24/13 12:41	EMR		
Metals								
Lead, Dissolved	Not detected	mg/L	0.003	E200.8	09/20/13 15:34	PER	7439-92-1	
Organics - Semi-Volatiles								
Polynuclear Aromatic Hydrocarbon								
Acenaphthene	Not detected	ug/L	5	SW8270C	09/25/13 14:52	PL	83-32-9	
Acenaphthylene	Not detected	ug/L	5	SW8270C	09/25/13 14:52	PL	208-96-8	
Anthracene	Not detected	ug/L	5	SW8270C	09/25/13 14:52	PL	120-12-7	
Benzo(a)anthracene	Not detected	ug/L	1	SW8270C	09/25/13 14:52	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/L	1	SW8270C	09/25/13 14:52	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/L	1	SW8270C	09/25/13 14:52	PL	205-99-2	
Benzo(k)fluoranthene	Not detected	ug/L	1	SW8270C	09/25/13 14:52	PL	207-08-9	
Benzo(ghi)perylene	Not detected	ug/L	1	SW8270C	09/25/13 14:52	PL	191-24-2	
Chrysene	Not detected	ug/L	1	SW8270C	09/25/13 14:52	PL	218-01-9	
Dibenzo(ah)anthracene	Not detected	ug/L	2	SW8270C	09/25/13 14:52	PL	53-70-3	
Fluoranthene	Not detected	ug/L	1	SW8270C	09/25/13 14:52	PL	206-44-0	
Fluorene	Not detected	ug/L	5	SW8270C	09/25/13 14:52	PL	86-73-7	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	2	SW8270C	09/25/13 14:52	PL	193-39-5	
Naphthalene	Not detected	ug/L	5	SW8270C	09/25/13 14:52	PL	91-20-3	
Phenanthrene	Not detected	ug/L	2	SW8270C	09/25/13 14:52	PL	85-01-8	
Pyrene	Not detected	ug/L	5	SW8270C	09/25/13 14:52	PL	129-00-0	
2-Methylnaphthalene	Not detected	ug/L	5	SW8270C	09/25/13 14:52	PL	91-57-6	
1-Methylnaphthalene	Not detected	ug/L	5	SW8270C	09/25/13 14:52	PL	90-12-0	
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	10	SW8260B	09/25/13 16:18	WAT	60-29-7	
Acetone	Not detected	ug/L	50	SW8260B	09/25/13 16:18	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	SW8260B	09/25/13 16:18	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	SW8260B	09/25/13 16:18	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW8260B	09/25/13 16:18	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	SW8260B	09/25/13 16:18	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	SW8260B	09/25/13 16:18	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW8260B	09/25/13 16:18	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	SW8260B	09/25/13 16:18	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW8260B	09/25/13 16:18	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	SW8260B	09/25/13 16:18	WAT	74-83-9	

Lab Sample ID: S58163.02 (continued)
Sample Tag: MW-18 (091713)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Chloroethane	Not detected	ug/L	5	SW8260B	09/25/13 16:18	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260B	09/25/13 16:18	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260B	09/25/13 16:18	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	SW8260B	09/25/13 16:18	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	09/25/13 16:18	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260B	09/25/13 16:18	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	09/25/13 16:18	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	SW8260B	09/25/13 16:18	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	SW8260B	09/25/13 16:18	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	SW8260B	09/25/13 16:18	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260B	09/25/13 16:18	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW8260B	09/25/13 16:18	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	SW8260B	09/25/13 16:18	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW8260B	09/25/13 16:18	WAT	56-23-5	
Benzene	Not detected	ug/L	1	SW8260B	09/25/13 16:18	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260B	09/25/13 16:18	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW8260B	09/25/13 16:18	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260B	09/25/13 16:18	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW8260B	09/25/13 16:18	WAT	75-27-4	
Dibromomethane	Not detected	ug/L	5	SW8260B	09/25/13 16:18	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	09/25/13 16:18	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	SW8260B	09/25/13 16:18	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	09/25/13 16:18	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260B	09/25/13 16:18	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW8260B	09/25/13 16:18	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW8260B	09/25/13 16:18	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	SW8260B	09/25/13 16:18	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260B	09/25/13 16:18	WAT	106-93-4	
Chlorobenzene	Not detected	ug/L	1	SW8260B	09/25/13 16:18	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	09/25/13 16:18	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	SW8260B	09/25/13 16:18	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	SW8260B	09/25/13 16:18	WAT		
o-Xylene	Not detected	ug/L	1	SW8260B	09/25/13 16:18	WAT	95-47-6	
Styrene	Not detected	ug/L	1	SW8260B	09/25/13 16:18	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	SW8260B	09/25/13 16:18	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	SW8260B	09/25/13 16:18	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	09/25/13 16:18	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	SW8260B	09/25/13 16:18	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	SW8260B	09/25/13 16:18	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	SW8260B	09/25/13 16:18	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW8260B	09/25/13 16:18	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	SW8260B	09/25/13 16:18	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW8260B	09/25/13 16:18	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	SW8260B	09/25/13 16:18	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	SW8260B	09/25/13 16:18	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260B	09/25/13 16:18	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260B	09/25/13 16:18	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260B	09/25/13 16:18	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW8260B	09/25/13 16:18	WAT	526-73-8	

Lab Sample ID: S58163.02 (continued)
Sample Tag: MW-18 (091713)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
n-Butylbenzene	Not detected	ug/L	1	SW8260B	09/25/13 16:18	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	SW8260B	09/25/13 16:18	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW8260B	09/25/13 16:18	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW8260B	09/25/13 16:18	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW8260B	09/25/13 16:18	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	SW8260B	09/25/13 16:18	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	SW8260B	09/25/13 16:18	WAT	91-57-6	

Analytical Laboratory Report

Lab Sample ID: S58163.03
Sample Tag: MW-17 (091713)
Collected Date/Time: 09/17/2013 13:03
Matrix: Groundwater
COC Reference: B0064486

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	1L Amber	None	Yes	5.0	IR
3	40ml Glass	HCL	Yes	5.0	IR
1	125ml Plastic	HNO3	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			3015A	09/20/13 15:00	PER		
pH check for VOCs	<2	STD Units		N/A	09/26/13 10:19	LBR		
PNA Extraction	Completed			3510C	09/24/13 12:41	EMR		
Metals								
Lead, Dissolved	Not detected	mg/L	0.003	E200.8	09/20/13 15:35	PER	7439-92-1	
Organics - Semi-Volatiles								
Polynuclear Aromatic Hydrocarbon								
Acenaphthene	Not detected	ug/L	5	SW8270C	09/25/13 15:14	PL	83-32-9	
Acenaphthylene	Not detected	ug/L	5	SW8270C	09/25/13 15:14	PL	208-96-8	
Anthracene	Not detected	ug/L	5	SW8270C	09/25/13 15:14	PL	120-12-7	
Benzo(a)anthracene	Not detected	ug/L	1	SW8270C	09/25/13 15:14	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/L	1	SW8270C	09/25/13 15:14	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/L	1	SW8270C	09/25/13 15:14	PL	205-99-2	
Benzo(k)fluoranthene	Not detected	ug/L	1	SW8270C	09/25/13 15:14	PL	207-08-9	
Benzo(ghi)perylene	Not detected	ug/L	1	SW8270C	09/25/13 15:14	PL	191-24-2	
Chrysene	Not detected	ug/L	1	SW8270C	09/25/13 15:14	PL	218-01-9	
Dibenzo(ah)anthracene	Not detected	ug/L	2	SW8270C	09/25/13 15:14	PL	53-70-3	
Fluoranthene	Not detected	ug/L	1	SW8270C	09/25/13 15:14	PL	206-44-0	
Fluorene	Not detected	ug/L	5	SW8270C	09/25/13 15:14	PL	86-73-7	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	2	SW8270C	09/25/13 15:14	PL	193-39-5	
Naphthalene	Not detected	ug/L	5	SW8270C	09/25/13 15:14	PL	91-20-3	
Phenanthrene	Not detected	ug/L	2	SW8270C	09/25/13 15:14	PL	85-01-8	
Pyrene	Not detected	ug/L	5	SW8270C	09/25/13 15:14	PL	129-00-0	
2-Methylnaphthalene	Not detected	ug/L	5	SW8270C	09/25/13 15:14	PL	91-57-6	
1-Methylnaphthalene	Not detected	ug/L	5	SW8270C	09/25/13 15:14	PL	90-12-0	
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	10	SW8260B	09/25/13 16:40	WAT	60-29-7	
Acetone	Not detected	ug/L	50	SW8260B	09/25/13 16:40	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	SW8260B	09/25/13 16:40	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	SW8260B	09/25/13 16:40	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW8260B	09/25/13 16:40	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	SW8260B	09/25/13 16:40	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	SW8260B	09/25/13 16:40	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW8260B	09/25/13 16:40	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	SW8260B	09/25/13 16:40	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW8260B	09/25/13 16:40	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	SW8260B	09/25/13 16:40	WAT	74-83-9	

Lab Sample ID: S58163.03 (continued)
Sample Tag: MW-17 (091713)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Chloroethane	Not detected	ug/L	5	SW8260B	09/25/13 16:40	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260B	09/25/13 16:40	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260B	09/25/13 16:40	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	SW8260B	09/25/13 16:40	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	09/25/13 16:40	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260B	09/25/13 16:40	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	09/25/13 16:40	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	SW8260B	09/25/13 16:40	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	SW8260B	09/25/13 16:40	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	SW8260B	09/25/13 16:40	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260B	09/25/13 16:40	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW8260B	09/25/13 16:40	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	SW8260B	09/25/13 16:40	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW8260B	09/25/13 16:40	WAT	56-23-5	
Benzene	Not detected	ug/L	1	SW8260B	09/25/13 16:40	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260B	09/25/13 16:40	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW8260B	09/25/13 16:40	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260B	09/25/13 16:40	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW8260B	09/25/13 16:40	WAT	75-27-4	
Dibromomethane	Not detected	ug/L	5	SW8260B	09/25/13 16:40	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	09/25/13 16:40	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	SW8260B	09/25/13 16:40	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	09/25/13 16:40	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260B	09/25/13 16:40	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW8260B	09/25/13 16:40	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW8260B	09/25/13 16:40	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	SW8260B	09/25/13 16:40	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260B	09/25/13 16:40	WAT	106-93-4	
Chlorobenzene	Not detected	ug/L	1	SW8260B	09/25/13 16:40	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	09/25/13 16:40	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	SW8260B	09/25/13 16:40	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	SW8260B	09/25/13 16:40	WAT		
o-Xylene	Not detected	ug/L	1	SW8260B	09/25/13 16:40	WAT	95-47-6	
Styrene	Not detected	ug/L	1	SW8260B	09/25/13 16:40	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	SW8260B	09/25/13 16:40	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	SW8260B	09/25/13 16:40	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	09/25/13 16:40	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	SW8260B	09/25/13 16:40	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	SW8260B	09/25/13 16:40	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	SW8260B	09/25/13 16:40	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW8260B	09/25/13 16:40	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	SW8260B	09/25/13 16:40	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW8260B	09/25/13 16:40	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	SW8260B	09/25/13 16:40	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	SW8260B	09/25/13 16:40	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260B	09/25/13 16:40	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260B	09/25/13 16:40	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260B	09/25/13 16:40	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW8260B	09/25/13 16:40	WAT	526-73-8	

Lab Sample ID: S58163.03 (continued)
Sample Tag: MW-17 (091713)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
n-Butylbenzene	Not detected	ug/L	1	SW8260B	09/25/13 16:40	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	SW8260B	09/25/13 16:40	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW8260B	09/25/13 16:40	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW8260B	09/25/13 16:40	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW8260B	09/25/13 16:40	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	SW8260B	09/25/13 16:40	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	SW8260B	09/25/13 16:40	WAT	91-57-6	

Analytical Laboratory Report

Lab Sample ID: S58163.04
Sample Tag: MW-30 (091713)
Collected Date/Time: 09/17/2013 14:11
Matrix: Groundwater
COC Reference: B0064486

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	1L Amber	None	Yes	5.0	IR
3	40ml Glass	HCL	Yes	5.0	IR
1	125ml Plastic	HNO3	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			3015A	09/20/13 15:00	PER		
pH check for VOCs	<2	STD Units		N/A	09/26/13 10:19	LBR		
PNA Extraction	Completed			3510C	09/24/13 12:41	EMR		
Metals								
Lead, Dissolved	Not detected	mg/L	0.003	E200.8	09/20/13 15:36	PER	7439-92-1	
Organics - Semi-Volatiles								
Polynuclear Aromatic Hydrocarbon								
Acenaphthene	Not detected	ug/L	5	SW8270C	09/25/13 15:37	PL	83-32-9	
Acenaphthylene	Not detected	ug/L	5	SW8270C	09/25/13 15:37	PL	208-96-8	
Anthracene	Not detected	ug/L	5	SW8270C	09/25/13 15:37	PL	120-12-7	
Benzo(a)anthracene	Not detected	ug/L	1	SW8270C	09/25/13 15:37	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/L	1	SW8270C	09/25/13 15:37	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/L	1	SW8270C	09/25/13 15:37	PL	205-99-2	
Benzo(k)fluoranthene	Not detected	ug/L	1	SW8270C	09/25/13 15:37	PL	207-08-9	
Benzo(ghi)perylene	Not detected	ug/L	1	SW8270C	09/25/13 15:37	PL	191-24-2	
Chrysene	Not detected	ug/L	1	SW8270C	09/25/13 15:37	PL	218-01-9	
Dibenzo(ah)anthracene	Not detected	ug/L	2	SW8270C	09/25/13 15:37	PL	53-70-3	
Fluoranthene	Not detected	ug/L	1	SW8270C	09/25/13 15:37	PL	206-44-0	
Fluorene	Not detected	ug/L	5	SW8270C	09/25/13 15:37	PL	86-73-7	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	2	SW8270C	09/25/13 15:37	PL	193-39-5	
Naphthalene	Not detected	ug/L	5	SW8270C	09/25/13 15:37	PL	91-20-3	
Phenanthrene	Not detected	ug/L	2	SW8270C	09/25/13 15:37	PL	85-01-8	
Pyrene	Not detected	ug/L	5	SW8270C	09/25/13 15:37	PL	129-00-0	
2-Methylnaphthalene	Not detected	ug/L	5	SW8270C	09/25/13 15:37	PL	91-57-6	
1-Methylnaphthalene	Not detected	ug/L	5	SW8270C	09/25/13 15:37	PL	90-12-0	
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	10	SW8260B	09/25/13 15:29	WAT	60-29-7	
Acetone	Not detected	ug/L	50	SW8260B	09/25/13 15:29	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	SW8260B	09/25/13 15:29	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	SW8260B	09/25/13 15:29	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW8260B	09/25/13 15:29	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	SW8260B	09/25/13 15:29	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	SW8260B	09/25/13 15:29	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW8260B	09/25/13 15:29	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	SW8260B	09/25/13 15:29	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW8260B	09/25/13 15:29	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	SW8260B	09/25/13 15:29	WAT	74-83-9	

Lab Sample ID: S58163.04 (continued)
Sample Tag: MW-30 (091713)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Chloroethane	Not detected	ug/L	5	SW8260B	09/25/13 15:29	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260B	09/25/13 15:29	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260B	09/25/13 15:29	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	SW8260B	09/25/13 15:29	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	09/25/13 15:29	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260B	09/25/13 15:29	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	09/25/13 15:29	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	SW8260B	09/25/13 15:29	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	SW8260B	09/25/13 15:29	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	SW8260B	09/25/13 15:29	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260B	09/25/13 15:29	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW8260B	09/25/13 15:29	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	SW8260B	09/25/13 15:29	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW8260B	09/25/13 15:29	WAT	56-23-5	
Benzene	Not detected	ug/L	1	SW8260B	09/25/13 15:29	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260B	09/25/13 15:29	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW8260B	09/25/13 15:29	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260B	09/25/13 15:29	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW8260B	09/25/13 15:29	WAT	75-27-4	
Dibromomethane	Not detected	ug/L	5	SW8260B	09/25/13 15:29	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	09/25/13 15:29	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	SW8260B	09/25/13 15:29	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	09/25/13 15:29	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260B	09/25/13 15:29	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW8260B	09/25/13 15:29	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW8260B	09/25/13 15:29	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	SW8260B	09/25/13 15:29	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260B	09/25/13 15:29	WAT	106-93-4	
Chlorobenzene	Not detected	ug/L	1	SW8260B	09/25/13 15:29	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	09/25/13 15:29	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	SW8260B	09/25/13 15:29	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	SW8260B	09/25/13 15:29	WAT		
o-Xylene	Not detected	ug/L	1	SW8260B	09/25/13 15:29	WAT	95-47-6	
Styrene	Not detected	ug/L	1	SW8260B	09/25/13 15:29	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	SW8260B	09/25/13 15:29	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	SW8260B	09/25/13 15:29	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	09/25/13 15:29	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	SW8260B	09/25/13 15:29	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	SW8260B	09/25/13 15:29	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	SW8260B	09/25/13 15:29	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW8260B	09/25/13 15:29	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	SW8260B	09/25/13 15:29	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW8260B	09/25/13 15:29	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	SW8260B	09/25/13 15:29	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	SW8260B	09/25/13 15:29	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260B	09/25/13 15:29	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260B	09/25/13 15:29	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260B	09/25/13 15:29	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW8260B	09/25/13 15:29	WAT	526-73-8	

Lab Sample ID: S58163.04 (continued)
Sample Tag: MW-30 (091713)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
n-Butylbenzene	Not detected	ug/L	1	SW8260B	09/25/13 15:29	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	SW8260B	09/25/13 15:29	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW8260B	09/25/13 15:29	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW8260B	09/25/13 15:29	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW8260B	09/25/13 15:29	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	SW8260B	09/25/13 15:29	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	SW8260B	09/25/13 15:29	WAT	91-57-6	

Analytical Laboratory Report

Lab Sample ID: S58163.05
Sample Tag: MW-30 (091713) MS
Collected Date/Time: 09/17/2013 14:11
Matrix: Groundwater
COC Reference: B0064486

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	1L Amber	None	Yes	5.0	IR
3	40ml Glass	HCL	Yes	5.0	IR
1	125ml Plastic	HNO3	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			3015A	09/20/13 15:00	PER		
pH check for VOCs	<2	STD Units		N/A	09/26/13 10:19	LBR		
PNA Extraction	Completed			3510C	09/24/13 12:41	EMR		
Metals								
Lead, Dissolved	0.236	mg/L	0.003	E200.8	09/20/13 15:37	PER	7439-92-1	
Organics - Semi-Volatiles								
Polynuclear Aromatic Hydrocarbon								
Acenaphthene	41	ug/L	5	SW8270C	09/25/13 15:59	PL	83-32-9	1
Acenaphthylene	40	ug/L	5	SW8270C	09/25/13 15:59	PL	208-96-8	1
Anthracene	42	ug/L	5	SW8270C	09/25/13 15:59	PL	120-12-7	1
Benzo(a)anthracene	47	ug/L	1	SW8270C	09/25/13 15:59	PL	56-55-3	1
Benzo(a)pyrene	46	ug/L	1	SW8270C	09/25/13 15:59	PL	50-32-8	1
Benzo(b)fluoranthene	49	ug/L	1	SW8270C	09/25/13 15:59	PL	205-99-2	1
Benzo(k)fluoranthene	45	ug/L	1	SW8270C	09/25/13 15:59	PL	207-08-9	1
Benzo(ghi)perylene	53	ug/L	1	SW8270C	09/25/13 15:59	PL	191-24-2	1
Chrysene	45	ug/L	1	SW8270C	09/25/13 15:59	PL	218-01-9	1
Dibenzo(ah)anthracene	52	ug/L	2	SW8270C	09/25/13 15:59	PL	53-70-3	1
Fluoranthene	46	ug/L	1	SW8270C	09/25/13 15:59	PL	206-44-0	1
Fluorene	43	ug/L	5	SW8270C	09/25/13 15:59	PL	86-73-7	1
Indeno(1,2,3-cd)pyrene	53	ug/L	2	SW8270C	09/25/13 15:59	PL	193-39-5	1
Naphthalene	38	ug/L	5	SW8270C	09/25/13 15:59	PL	91-20-3	1
Phenanthrene	43	ug/L	2	SW8270C	09/25/13 15:59	PL	85-01-8	1
Pyrene	42	ug/L	5	SW8270C	09/25/13 15:59	PL	129-00-0	1
2-Methylnaphthalene	38	ug/L	5	SW8270C	09/25/13 15:59	PL	91-57-6	1
1-Methylnaphthalene	36	ug/L	5	SW8270C	09/25/13 15:59	PL	90-12-0	1
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	54	ug/L	10	SW8260B	09/25/13 13:17	WAT	60-29-7	2
Acetone	Not detected	ug/L	50	SW8260B	09/25/13 13:17	WAT	67-64-1	2
Methyl iodide	53	ug/L	1	SW8260B	09/25/13 13:17	WAT	74-88-4	2
Carbon disulfide	50	ug/L	5	SW8260B	09/25/13 13:17	WAT	75-15-0	2
tert-Methyl butyl ether (MTBE)	52	ug/L	5	SW8260B	09/25/13 13:17	WAT	1634-04-4	2
Acrylonitrile	50	ug/L	2	SW8260B	09/25/13 13:17	WAT	107-13-1	2
2-Butanone (MEK)	41	ug/L	25	SW8260B	09/25/13 13:17	WAT	78-93-3	2
Dichlorodifluoromethane	35	ug/L	5	SW8260B	09/25/13 13:17	WAT	75-71-8	2
Chloromethane	46	ug/L	5	SW8260B	09/25/13 13:17	WAT	74-87-3	2

1-Sample spiked at 50 mg/l
2-Spiked at 50ug/l

Lab Sample ID: S58163.05 (continued)
Sample Tag: MW-30 (091713) MS

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Vinyl chloride	49	ug/L	1	SW8260B	09/25/13 13:17	WAT	75-01-4	1
Bromomethane	58	ug/L	5	SW8260B	09/25/13 13:17	WAT	74-83-9	1
Chloroethane	56	ug/L	5	SW8260B	09/25/13 13:17	WAT	75-00-3	1
Trichlorofluoromethane	56	ug/L	1	SW8260B	09/25/13 13:17	WAT	75-69-4	1
1,1-Dichloroethene	51	ug/L	1	SW8260B	09/25/13 13:17	WAT	75-35-4	1
Methylene chloride	54	ug/L	5	SW8260B	09/25/13 13:17	WAT	75-09-2	1
trans-1,2-Dichloroethene	52	ug/L	1	SW8260B	09/25/13 13:17	WAT	156-60-5	1
1,1-Dichloroethane	53	ug/L	1	SW8260B	09/25/13 13:17	WAT	75-34-3	1
cis-1,2-Dichloroethene	56	ug/L	1	SW8260B	09/25/13 13:17	WAT	156-59-2	1
Tetrahydrofuran	Not detected	ug/L	90	SW8260B	09/25/13 13:17	WAT	109-99-9	1
Chloroform	56	ug/L	1	SW8260B	09/25/13 13:17	WAT	67-66-3	1
Bromochloromethane	56	ug/L	1	SW8260B	09/25/13 13:17	WAT	74-97-5	1
1,1,1-Trichloroethane	54	ug/L	1	SW8260B	09/25/13 13:17	WAT	71-55-6	1
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW8260B	09/25/13 13:17	WAT	108-10-1	1
2-Hexanone	Not detected	ug/L	50	SW8260B	09/25/13 13:17	WAT	591-78-6	1
Carbon tetrachloride	55	ug/L	1	SW8260B	09/25/13 13:17	WAT	56-23-5	1
Benzene	53	ug/L	1	SW8260B	09/25/13 13:17	WAT	71-43-2	1
1,2-Dichloroethane	51	ug/L	1	SW8260B	09/25/13 13:17	WAT	107-06-2	1
Trichloroethene	53	ug/L	1	SW8260B	09/25/13 13:17	WAT	79-01-6	1
1,2-Dichloropropane	53	ug/L	1	SW8260B	09/25/13 13:17	WAT	78-87-5	1
Bromodichloromethane	55	ug/L	1	SW8260B	09/25/13 13:17	WAT	75-27-4	1
Dibromomethane	53	ug/L	5	SW8260B	09/25/13 13:17	WAT	74-95-3	1
cis-1,3-Dichloropropene	55	ug/L	1	SW8260B	09/25/13 13:17	WAT	10061-01-5	1
Toluene	55	ug/L	1	SW8260B	09/25/13 13:17	WAT	108-88-3	1
trans-1,3-Dichloropropene	53	ug/L	1	SW8260B	09/25/13 13:17	WAT	10061-02-6	1
1,1,2-Trichloroethane	54	ug/L	1	SW8260B	09/25/13 13:17	WAT	79-00-5	1
Tetrachloroethene	49	ug/L	1	SW8260B	09/25/13 13:17	WAT	127-18-4	1
trans-1,4-Dichloro-2-butene	41	ug/L	1	SW8260B	09/25/13 13:17	WAT	110-57-6	1
Dibromochloromethane	53	ug/L	5	SW8260B	09/25/13 13:17	WAT	124-48-1	1
1,2-Dibromoethane	53	ug/L	1	SW8260B	09/25/13 13:17	WAT	106-93-4	1
Chlorobenzene	53	ug/L	1	SW8260B	09/25/13 13:17	WAT	108-90-7	1
1,1,1,2-Tetrachloroethane	54	ug/L	1	SW8260B	09/25/13 13:17	WAT	630-20-6	1
Ethylbenzene	54	ug/L	1	SW8260B	09/25/13 13:17	WAT	100-41-4	1
p,m-Xylene	106	ug/L	2	SW8260B	09/25/13 13:17	WAT		1
o-Xylene	54	ug/L	1	SW8260B	09/25/13 13:17	WAT	95-47-6	1
Styrene	54	ug/L	1	SW8260B	09/25/13 13:17	WAT	100-42-5	1
Isopropylbenzene	54	ug/L	5	SW8260B	09/25/13 13:17	WAT	98-82-8	1
Bromoform	48	ug/L	1	SW8260B	09/25/13 13:17	WAT	75-25-2	1
1,1,2,2-Tetrachloroethane	53	ug/L	1	SW8260B	09/25/13 13:17	WAT	79-34-5	1
1,2,3-Trichloropropane	52	ug/L	1	SW8260B	09/25/13 13:17	WAT	96-18-4	1
n-Propylbenzene	54	ug/L	1	SW8260B	09/25/13 13:17	WAT	103-65-1	1
Bromobenzene	52	ug/L	1	SW8260B	09/25/13 13:17	WAT	108-86-1	1
1,3,5-Trimethylbenzene	53	ug/L	1	SW8260B	09/25/13 13:17	WAT	108-67-8	1
tert-Butylbenzene	53	ug/L	1	SW8260B	09/25/13 13:17	WAT	98-06-6	1
1,2,4-Trimethylbenzene	53	ug/L	1	SW8260B	09/25/13 13:17	WAT	95-63-6	1
sec-Butylbenzene	55	ug/L	1	SW8260B	09/25/13 13:17	WAT	135-98-8	1
p-Isopropyltoluene	55	ug/L	5	SW8260B	09/25/13 13:17	WAT	99-87-6	1
1,3-Dichlorobenzene	54	ug/L	1	SW8260B	09/25/13 13:17	WAT	541-73-1	1

1-Spiked at 50ug/l

Lab Sample ID: S58163.05 (continued)
Sample Tag: MW-30 (091713) MS

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
1,4-Dichlorobenzene	54	ug/L	1	SW8260B	09/25/13 13:17	WAT	106-46-7	1
1,2-Dichlorobenzene	53	ug/L	1	SW8260B	09/25/13 13:17	WAT	95-50-1	1
1,2,3-Trimethylbenzene	56	ug/L	1	SW8260B	09/25/13 13:17	WAT	526-73-8	1
n-Butylbenzene	57	ug/L	1	SW8260B	09/25/13 13:17	WAT	104-51-8	1
Hexachloroethane	49	ug/L	5	SW8260B	09/25/13 13:17	WAT	67-72-1	1
1,2-Dibromo-3-chloropropane	47	ug/L	5	SW8260B	09/25/13 13:17	WAT	96-12-8	1
1,2,4-Trichlorobenzene	52	ug/L	5	SW8260B	09/25/13 13:17	WAT	120-82-1	1
1,2,3-Trichlorobenzene	53	ug/L	5	SW8260B	09/25/13 13:17	WAT	87-61-6	1
Naphthalene	55	ug/L	5	SW8260B	09/25/13 13:17	WAT	91-20-3	1
2-Methylnaphthalene	60	ug/L	5	SW8260B	09/25/13 13:17	WAT	91-57-6	1

1-Spiked at 50ug/l

Analytical Laboratory Report

Lab Sample ID: S58163.06
Sample Tag: MW-30 (091713) MSD
Collected Date/Time: 09/17/2013 14:11
Matrix: Groundwater
COC Reference: B0064486

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	1L Amber	None	Yes	5.0	IR
3	40ml Glass	HCL	Yes	5.0	IR
1	125ml Plastic	HNO3	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			3015A	09/20/13 15:00	PER		
pH check for VOCs	<2	STD Units		N/A	09/26/13 10:19	LBR		
PNA Extraction	Completed			3510C	09/24/13 12:41	EMR		
Metals								
Lead, Dissolved	0.235	mg/L	0.003	E200.8	09/20/13 15:38	PER	7439-92-1	
Organics - Semi-Volatiles								
Polynuclear Aromatic Hydrocarbon								
Acenaphthene	41	ug/L	5	SW8270C	09/25/13 16:22	PL	83-32-9	1
Acenaphthylene	39	ug/L	5	SW8270C	09/25/13 16:22	PL	208-96-8	1
Anthracene	42	ug/L	5	SW8270C	09/25/13 16:22	PL	120-12-7	1
Benzo(a)anthracene	46	ug/L	1	SW8270C	09/25/13 16:22	PL	56-55-3	1
Benzo(a)pyrene	46	ug/L	1	SW8270C	09/25/13 16:22	PL	50-32-8	1
Benzo(b)fluoranthene	47	ug/L	1	SW8270C	09/25/13 16:22	PL	205-99-2	1
Benzo(k)fluoranthene	45	ug/L	1	SW8270C	09/25/13 16:22	PL	207-08-9	1
Benzo(ghi)perylene	51	ug/L	1	SW8270C	09/25/13 16:22	PL	191-24-2	1
Chrysene	44	ug/L	1	SW8270C	09/25/13 16:22	PL	218-01-9	1
Dibenzo(ah)anthracene	51	ug/L	2	SW8270C	09/25/13 16:22	PL	53-70-3	1
Fluoranthene	45	ug/L	1	SW8270C	09/25/13 16:22	PL	206-44-0	1
Fluorene	42	ug/L	5	SW8270C	09/25/13 16:22	PL	86-73-7	1
Indeno(1,2,3-cd)pyrene	52	ug/L	2	SW8270C	09/25/13 16:22	PL	193-39-5	1
Naphthalene	39	ug/L	5	SW8270C	09/25/13 16:22	PL	91-20-3	1
Phenanthrene	43	ug/L	2	SW8270C	09/25/13 16:22	PL	85-01-8	1
Pyrene	41	ug/L	5	SW8270C	09/25/13 16:22	PL	129-00-0	1
2-Methylnaphthalene	38	ug/L	5	SW8270C	09/25/13 16:22	PL	91-57-6	1
1-Methylnaphthalene	37	ug/L	5	SW8270C	09/25/13 16:22	PL	90-12-0	1
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	55	ug/L	10	SW8260B	09/25/13 13:39	WAT	60-29-7	2
Acetone	Not detected	ug/L	50	SW8260B	09/25/13 13:39	WAT	67-64-1	2
Methyl iodide	52	ug/L	1	SW8260B	09/25/13 13:39	WAT	74-88-4	2
Carbon disulfide	49	ug/L	5	SW8260B	09/25/13 13:39	WAT	75-15-0	2
tert-Methyl butyl ether (MTBE)	52	ug/L	5	SW8260B	09/25/13 13:39	WAT	1634-04-4	2
Acrylonitrile	50	ug/L	2	SW8260B	09/25/13 13:39	WAT	107-13-1	2
2-Butanone (MEK)	42	ug/L	25	SW8260B	09/25/13 13:39	WAT	78-93-3	2
Dichlorodifluoromethane	35	ug/L	5	SW8260B	09/25/13 13:39	WAT	75-71-8	2
Chloromethane	46	ug/L	5	SW8260B	09/25/13 13:39	WAT	74-87-3	2

1-Sample spiked at 50 mg/l
2-Spiked at 50ug/l

Lab Sample ID: S58163.06 (continued)
Sample Tag: MW-30 (091713) MSD

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Vinyl chloride	49	ug/L	1	SW8260B	09/25/13 13:39	WAT	75-01-4	1
Bromomethane	58	ug/L	5	SW8260B	09/25/13 13:39	WAT	74-83-9	1
Chloroethane	56	ug/L	5	SW8260B	09/25/13 13:39	WAT	75-00-3	1
Trichlorofluoromethane	56	ug/L	1	SW8260B	09/25/13 13:39	WAT	75-69-4	1
1,1-Dichloroethene	50	ug/L	1	SW8260B	09/25/13 13:39	WAT	75-35-4	1
Methylene chloride	53	ug/L	5	SW8260B	09/25/13 13:39	WAT	75-09-2	1
trans-1,2-Dichloroethene	51	ug/L	1	SW8260B	09/25/13 13:39	WAT	156-60-5	1
1,1-Dichloroethane	52	ug/L	1	SW8260B	09/25/13 13:39	WAT	75-34-3	1
cis-1,2-Dichloroethene	56	ug/L	1	SW8260B	09/25/13 13:39	WAT	156-59-2	1
Tetrahydrofuran	Not detected	ug/L	90	SW8260B	09/25/13 13:39	WAT	109-99-9	1
Chloroform	55	ug/L	1	SW8260B	09/25/13 13:39	WAT	67-66-3	1
Bromochloromethane	55	ug/L	1	SW8260B	09/25/13 13:39	WAT	74-97-5	1
1,1,1-Trichloroethane	54	ug/L	1	SW8260B	09/25/13 13:39	WAT	71-55-6	1
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW8260B	09/25/13 13:39	WAT	108-10-1	1
2-Hexanone	Not detected	ug/L	50	SW8260B	09/25/13 13:39	WAT	591-78-6	1
Carbon tetrachloride	55	ug/L	1	SW8260B	09/25/13 13:39	WAT	56-23-5	1
Benzene	54	ug/L	1	SW8260B	09/25/13 13:39	WAT	71-43-2	1
1,2-Dichloroethane	52	ug/L	1	SW8260B	09/25/13 13:39	WAT	107-06-2	1
Trichloroethene	54	ug/L	1	SW8260B	09/25/13 13:39	WAT	79-01-6	1
1,2-Dichloropropane	53	ug/L	1	SW8260B	09/25/13 13:39	WAT	78-87-5	1
Bromodichloromethane	56	ug/L	1	SW8260B	09/25/13 13:39	WAT	75-27-4	1
Dibromomethane	53	ug/L	5	SW8260B	09/25/13 13:39	WAT	74-95-3	1
cis-1,3-Dichloropropene	56	ug/L	1	SW8260B	09/25/13 13:39	WAT	10061-01-5	1
Toluene	56	ug/L	1	SW8260B	09/25/13 13:39	WAT	108-88-3	1
trans-1,3-Dichloropropene	54	ug/L	1	SW8260B	09/25/13 13:39	WAT	10061-02-6	1
1,1,2-Trichloroethane	55	ug/L	1	SW8260B	09/25/13 13:39	WAT	79-00-5	1
Tetrachloroethene	50	ug/L	1	SW8260B	09/25/13 13:39	WAT	127-18-4	1
trans-1,4-Dichloro-2-butene	40	ug/L	1	SW8260B	09/25/13 13:39	WAT	110-57-6	1
Dibromochloromethane	54	ug/L	5	SW8260B	09/25/13 13:39	WAT	124-48-1	1
1,2-Dibromoethane	53	ug/L	1	SW8260B	09/25/13 13:39	WAT	106-93-4	1
Chlorobenzene	53	ug/L	1	SW8260B	09/25/13 13:39	WAT	108-90-7	1
1,1,1,2-Tetrachloroethane	55	ug/L	1	SW8260B	09/25/13 13:39	WAT	630-20-6	1
Ethylbenzene	54	ug/L	1	SW8260B	09/25/13 13:39	WAT	100-41-4	1
p,m-Xylene	106	ug/L	2	SW8260B	09/25/13 13:39	WAT		1
o-Xylene	54	ug/L	1	SW8260B	09/25/13 13:39	WAT	95-47-6	1
Styrene	54	ug/L	1	SW8260B	09/25/13 13:39	WAT	100-42-5	1
Isopropylbenzene	54	ug/L	5	SW8260B	09/25/13 13:39	WAT	98-82-8	1
Bromoform	49	ug/L	1	SW8260B	09/25/13 13:39	WAT	75-25-2	1
1,1,2,2-Tetrachloroethane	53	ug/L	1	SW8260B	09/25/13 13:39	WAT	79-34-5	1
1,2,3-Trichloropropane	53	ug/L	1	SW8260B	09/25/13 13:39	WAT	96-18-4	1
n-Propylbenzene	54	ug/L	1	SW8260B	09/25/13 13:39	WAT	103-65-1	1
Bromobenzene	52	ug/L	1	SW8260B	09/25/13 13:39	WAT	108-86-1	1
1,3,5-Trimethylbenzene	54	ug/L	1	SW8260B	09/25/13 13:39	WAT	108-67-8	1
tert-Butylbenzene	54	ug/L	1	SW8260B	09/25/13 13:39	WAT	98-06-6	1
1,2,4-Trimethylbenzene	53	ug/L	1	SW8260B	09/25/13 13:39	WAT	95-63-6	1
sec-Butylbenzene	56	ug/L	1	SW8260B	09/25/13 13:39	WAT	135-98-8	1
p-Isopropyltoluene	55	ug/L	5	SW8260B	09/25/13 13:39	WAT	99-87-6	1
1,3-Dichlorobenzene	55	ug/L	1	SW8260B	09/25/13 13:39	WAT	541-73-1	1

1-Spiked at 50ug/l

Lab Sample ID: S58163.06 (continued)
Sample Tag: MW-30 (091713) MSD

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
1,4-Dichlorobenzene	54	ug/L	1	SW8260B	09/25/13 13:39	WAT	106-46-7	1
1,2-Dichlorobenzene	54	ug/L	1	SW8260B	09/25/13 13:39	WAT	95-50-1	1
1,2,3-Trimethylbenzene	57	ug/L	1	SW8260B	09/25/13 13:39	WAT	526-73-8	1
n-Butylbenzene	57	ug/L	1	SW8260B	09/25/13 13:39	WAT	104-51-8	1
Hexachloroethane	50	ug/L	5	SW8260B	09/25/13 13:39	WAT	67-72-1	1
1,2-Dibromo-3-chloropropane	49	ug/L	5	SW8260B	09/25/13 13:39	WAT	96-12-8	1
1,2,4-Trichlorobenzene	53	ug/L	5	SW8260B	09/25/13 13:39	WAT	120-82-1	1
1,2,3-Trichlorobenzene	54	ug/L	5	SW8260B	09/25/13 13:39	WAT	87-61-6	1
Naphthalene	56	ug/L	5	SW8260B	09/25/13 13:39	WAT	91-20-3	1
2-Methylnaphthalene	61	ug/L	5	SW8260B	09/25/13 13:39	WAT	91-57-6	1

1-Spiked at 50ug/l

Analytical Laboratory Report

Lab Sample ID: S58163.07
Sample Tag: MW-10 (091713)
Collected Date/Time: 09/17/2013 15:44
Matrix: Groundwater
COC Reference: B0064486

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	1L Amber	None	Yes	5.0	IR
3	40ml Glass	HCL	Yes	5.0	IR
1	125ml Plastic	HNO3	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			3015A	09/20/13 15:00	PER		
pH check for VOCs	<2	STD Units		N/A	09/26/13 10:19	LBR		
PNA Extraction	Completed			3510C	09/24/13 12:41	EMR		
Metals								
Lead, Dissolved	Not detected	mg/L	0.003	E200.8	09/20/13 15:42	PER	7439-92-1	
Organics - Semi-Volatiles								
Polynuclear Aromatic Hydrocarbon								
Acenaphthene	Not detected	ug/L	5	SW8270C	09/25/13 16:44	PL	83-32-9	
Acenaphthylene	Not detected	ug/L	5	SW8270C	09/25/13 16:44	PL	208-96-8	
Anthracene	Not detected	ug/L	5	SW8270C	09/25/13 16:44	PL	120-12-7	
Benzo(a)anthracene	Not detected	ug/L	1	SW8270C	09/25/13 16:44	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/L	1	SW8270C	09/25/13 16:44	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/L	1	SW8270C	09/25/13 16:44	PL	205-99-2	
Benzo(k)fluoranthene	Not detected	ug/L	1	SW8270C	09/25/13 16:44	PL	207-08-9	
Benzo(ghi)perylene	Not detected	ug/L	1	SW8270C	09/25/13 16:44	PL	191-24-2	
Chrysene	Not detected	ug/L	1	SW8270C	09/25/13 16:44	PL	218-01-9	
Dibenzo(ah)anthracene	Not detected	ug/L	2	SW8270C	09/25/13 16:44	PL	53-70-3	
Fluoranthene	Not detected	ug/L	1	SW8270C	09/25/13 16:44	PL	206-44-0	
Fluorene	Not detected	ug/L	5	SW8270C	09/25/13 16:44	PL	86-73-7	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	2	SW8270C	09/25/13 16:44	PL	193-39-5	
Naphthalene	Not detected	ug/L	5	SW8270C	09/25/13 16:44	PL	91-20-3	
Phenanthrene	Not detected	ug/L	2	SW8270C	09/25/13 16:44	PL	85-01-8	
Pyrene	Not detected	ug/L	5	SW8270C	09/25/13 16:44	PL	129-00-0	
2-Methylnaphthalene	Not detected	ug/L	5	SW8270C	09/25/13 16:44	PL	91-57-6	
1-Methylnaphthalene	Not detected	ug/L	5	SW8270C	09/25/13 16:44	PL	90-12-0	
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	10	SW8260B	09/25/13 18:29	WAT	60-29-7	
Acetone	Not detected	ug/L	50	SW8260B	09/25/13 18:29	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	SW8260B	09/25/13 18:29	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	SW8260B	09/25/13 18:29	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW8260B	09/25/13 18:29	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	SW8260B	09/25/13 18:29	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	SW8260B	09/25/13 18:29	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW8260B	09/25/13 18:29	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	SW8260B	09/25/13 18:29	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW8260B	09/25/13 18:29	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	SW8260B	09/25/13 18:29	WAT	74-83-9	

Lab Sample ID: S58163.07 (continued)
Sample Tag: MW-10 (091713)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Chloroethane	Not detected	ug/L	5	SW8260B	09/25/13 18:29	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260B	09/25/13 18:29	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260B	09/25/13 18:29	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	SW8260B	09/25/13 18:29	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	09/25/13 18:29	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260B	09/25/13 18:29	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	09/25/13 18:29	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	SW8260B	09/25/13 18:29	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	SW8260B	09/25/13 18:29	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	SW8260B	09/25/13 18:29	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260B	09/25/13 18:29	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW8260B	09/25/13 18:29	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	SW8260B	09/25/13 18:29	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW8260B	09/25/13 18:29	WAT	56-23-5	
Benzene	Not detected	ug/L	1	SW8260B	09/25/13 18:29	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260B	09/25/13 18:29	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW8260B	09/25/13 18:29	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260B	09/25/13 18:29	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW8260B	09/25/13 18:29	WAT	75-27-4	
Dibromomethane	Not detected	ug/L	5	SW8260B	09/25/13 18:29	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	09/25/13 18:29	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	SW8260B	09/25/13 18:29	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	09/25/13 18:29	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260B	09/25/13 18:29	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW8260B	09/25/13 18:29	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW8260B	09/25/13 18:29	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	SW8260B	09/25/13 18:29	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260B	09/25/13 18:29	WAT	106-93-4	
Chlorobenzene	Not detected	ug/L	1	SW8260B	09/25/13 18:29	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	09/25/13 18:29	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	SW8260B	09/25/13 18:29	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	SW8260B	09/25/13 18:29	WAT		
o-Xylene	Not detected	ug/L	1	SW8260B	09/25/13 18:29	WAT	95-47-6	
Styrene	Not detected	ug/L	1	SW8260B	09/25/13 18:29	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	SW8260B	09/25/13 18:29	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	SW8260B	09/25/13 18:29	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	09/25/13 18:29	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	SW8260B	09/25/13 18:29	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	SW8260B	09/25/13 18:29	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	SW8260B	09/25/13 18:29	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW8260B	09/25/13 18:29	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	SW8260B	09/25/13 18:29	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW8260B	09/25/13 18:29	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	SW8260B	09/25/13 18:29	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	SW8260B	09/25/13 18:29	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260B	09/25/13 18:29	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260B	09/25/13 18:29	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260B	09/25/13 18:29	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW8260B	09/25/13 18:29	WAT	526-73-8	

Lab Sample ID: S58163.07 (continued)
Sample Tag: MW-10 (091713)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
n-Butylbenzene	Not detected	ug/L	1	SW8260B	09/25/13 18:29	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	SW8260B	09/25/13 18:29	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW8260B	09/25/13 18:29	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW8260B	09/25/13 18:29	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW8260B	09/25/13 18:29	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	SW8260B	09/25/13 18:29	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	SW8260B	09/25/13 18:29	WAT	91-57-6	

Analytical Laboratory Report

Lab Sample ID: S58163.08
Sample Tag: MW-16 (091713)
Collected Date/Time: 09/17/2013 16:50
Matrix: Groundwater
COC Reference: B0064486

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	1L Amber	None	Yes	5.0	IR
3	40ml Glass	HCL	Yes	5.0	IR
1	125ml Plastic	HNO3	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			3015A	09/20/13 15:00	PER		
pH check for VOCs	<2	STD Units		N/A	09/26/13 10:19	LBR		
PNA Extraction	Completed			3510C	09/24/13 12:41	EMR		
Metals								
Lead, Dissolved	Not detected	mg/L	0.003	E200.8	09/20/13 15:43	PER	7439-92-1	
Organics - Semi-Volatiles								
Polynuclear Aromatic Hydrocarbon								
Acenaphthene	Not detected	ug/L	5	SW8270C	09/25/13 17:07	PL	83-32-9	
Acenaphthylene	Not detected	ug/L	5	SW8270C	09/25/13 17:07	PL	208-96-8	
Anthracene	Not detected	ug/L	5	SW8270C	09/25/13 17:07	PL	120-12-7	
Benzo(a)anthracene	Not detected	ug/L	1	SW8270C	09/25/13 17:07	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/L	1	SW8270C	09/25/13 17:07	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/L	1	SW8270C	09/25/13 17:07	PL	205-99-2	
Benzo(k)fluoranthene	Not detected	ug/L	1	SW8270C	09/25/13 17:07	PL	207-08-9	
Benzo(ghi)perylene	Not detected	ug/L	1	SW8270C	09/25/13 17:07	PL	191-24-2	
Chrysene	Not detected	ug/L	1	SW8270C	09/25/13 17:07	PL	218-01-9	
Dibenzo(ah)anthracene	Not detected	ug/L	2	SW8270C	09/25/13 17:07	PL	53-70-3	
Fluoranthene	Not detected	ug/L	1	SW8270C	09/25/13 17:07	PL	206-44-0	
Fluorene	Not detected	ug/L	5	SW8270C	09/25/13 17:07	PL	86-73-7	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	2	SW8270C	09/25/13 17:07	PL	193-39-5	
Naphthalene	Not detected	ug/L	5	SW8270C	09/25/13 17:07	PL	91-20-3	
Phenanthrene	Not detected	ug/L	2	SW8270C	09/25/13 17:07	PL	85-01-8	
Pyrene	Not detected	ug/L	5	SW8270C	09/25/13 17:07	PL	129-00-0	
2-Methylnaphthalene	Not detected	ug/L	5	SW8270C	09/25/13 17:07	PL	91-57-6	
1-Methylnaphthalene	Not detected	ug/L	5	SW8270C	09/25/13 17:07	PL	90-12-0	
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	10	SW8260B	09/25/13 18:51	WAT	60-29-7	
Acetone	Not detected	ug/L	50	SW8260B	09/25/13 18:51	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	SW8260B	09/25/13 18:51	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	SW8260B	09/25/13 18:51	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW8260B	09/25/13 18:51	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	SW8260B	09/25/13 18:51	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	SW8260B	09/25/13 18:51	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW8260B	09/25/13 18:51	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	SW8260B	09/25/13 18:51	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW8260B	09/25/13 18:51	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	SW8260B	09/25/13 18:51	WAT	74-83-9	

Lab Sample ID: S58163.08 (continued)
Sample Tag: MW-16 (091713)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Chloroethane	Not detected	ug/L	5	SW8260B	09/25/13 18:51	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260B	09/25/13 18:51	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260B	09/25/13 18:51	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	SW8260B	09/25/13 18:51	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	09/25/13 18:51	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260B	09/25/13 18:51	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	09/25/13 18:51	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	SW8260B	09/25/13 18:51	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	SW8260B	09/25/13 18:51	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	SW8260B	09/25/13 18:51	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260B	09/25/13 18:51	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW8260B	09/25/13 18:51	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	SW8260B	09/25/13 18:51	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW8260B	09/25/13 18:51	WAT	56-23-5	
Benzene	Not detected	ug/L	1	SW8260B	09/25/13 18:51	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260B	09/25/13 18:51	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW8260B	09/25/13 18:51	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260B	09/25/13 18:51	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW8260B	09/25/13 18:51	WAT	75-27-4	
Dibromomethane	Not detected	ug/L	5	SW8260B	09/25/13 18:51	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	09/25/13 18:51	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	SW8260B	09/25/13 18:51	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	09/25/13 18:51	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260B	09/25/13 18:51	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW8260B	09/25/13 18:51	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW8260B	09/25/13 18:51	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	SW8260B	09/25/13 18:51	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260B	09/25/13 18:51	WAT	106-93-4	
Chlorobenzene	Not detected	ug/L	1	SW8260B	09/25/13 18:51	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	09/25/13 18:51	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	SW8260B	09/25/13 18:51	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	SW8260B	09/25/13 18:51	WAT		
o-Xylene	Not detected	ug/L	1	SW8260B	09/25/13 18:51	WAT	95-47-6	
Styrene	Not detected	ug/L	1	SW8260B	09/25/13 18:51	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	SW8260B	09/25/13 18:51	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	SW8260B	09/25/13 18:51	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	09/25/13 18:51	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	SW8260B	09/25/13 18:51	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	SW8260B	09/25/13 18:51	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	SW8260B	09/25/13 18:51	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW8260B	09/25/13 18:51	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	SW8260B	09/25/13 18:51	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW8260B	09/25/13 18:51	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	SW8260B	09/25/13 18:51	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	SW8260B	09/25/13 18:51	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260B	09/25/13 18:51	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260B	09/25/13 18:51	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260B	09/25/13 18:51	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW8260B	09/25/13 18:51	WAT	526-73-8	

Lab Sample ID: S58163.08 (continued)
Sample Tag: MW-16 (091713)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
n-Butylbenzene	Not detected	ug/L	1	SW8260B	09/25/13 18:51	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	SW8260B	09/25/13 18:51	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW8260B	09/25/13 18:51	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW8260B	09/25/13 18:51	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW8260B	09/25/13 18:51	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	SW8260B	09/25/13 18:51	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	SW8260B	09/25/13 18:51	WAT	91-57-6	

Analytical Laboratory Report

Lab Sample ID: S58163.09
Sample Tag: MW-29 (091713)
Collected Date/Time: 09/17/2013 18:04
Matrix: Groundwater
COC Reference: B0064486

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	1L Amber	None	Yes	5.0	IR
3	40ml Glass	HCL	Yes	5.0	IR
1	125ml Plastic	HNO3	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			3015A	09/20/13 15:00	PER		
pH check for VOCs	<2	STD Units		N/A	09/26/13 10:19	LBR		
PNA Extraction	Completed			3510C	09/24/13 12:41	EMR		
Metals								
Lead, Dissolved	Not detected	mg/L	0.003	E200.8	09/20/13 15:44	PER	7439-92-1	
Organics - Semi-Volatiles								
Polynuclear Aromatic Hydrocarbon								
Acenaphthene	Not detected	ug/L	5	SW8270C	09/25/13 17:29	PL	83-32-9	
Acenaphthylene	Not detected	ug/L	5	SW8270C	09/25/13 17:29	PL	208-96-8	
Anthracene	Not detected	ug/L	5	SW8270C	09/25/13 17:29	PL	120-12-7	
Benzo(a)anthracene	Not detected	ug/L	1	SW8270C	09/25/13 17:29	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/L	1	SW8270C	09/25/13 17:29	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/L	1	SW8270C	09/25/13 17:29	PL	205-99-2	
Benzo(k)fluoranthene	Not detected	ug/L	1	SW8270C	09/25/13 17:29	PL	207-08-9	
Benzo(ghi)perylene	Not detected	ug/L	1	SW8270C	09/25/13 17:29	PL	191-24-2	
Chrysene	Not detected	ug/L	1	SW8270C	09/25/13 17:29	PL	218-01-9	
Dibenzo(ah)anthracene	Not detected	ug/L	2	SW8270C	09/25/13 17:29	PL	53-70-3	
Fluoranthene	Not detected	ug/L	1	SW8270C	09/25/13 17:29	PL	206-44-0	
Fluorene	Not detected	ug/L	5	SW8270C	09/25/13 17:29	PL	86-73-7	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	2	SW8270C	09/25/13 17:29	PL	193-39-5	
Naphthalene	Not detected	ug/L	5	SW8270C	09/25/13 17:29	PL	91-20-3	
Phenanthrene	Not detected	ug/L	2	SW8270C	09/25/13 17:29	PL	85-01-8	
Pyrene	Not detected	ug/L	5	SW8270C	09/25/13 17:29	PL	129-00-0	
2-Methylnaphthalene	Not detected	ug/L	5	SW8270C	09/25/13 17:29	PL	91-57-6	
1-Methylnaphthalene	Not detected	ug/L	5	SW8270C	09/25/13 17:29	PL	90-12-0	
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	10	SW8260B	09/25/13 19:13	WAT	60-29-7	
Acetone	Not detected	ug/L	50	SW8260B	09/25/13 19:13	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	SW8260B	09/25/13 19:13	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	SW8260B	09/25/13 19:13	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW8260B	09/25/13 19:13	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	SW8260B	09/25/13 19:13	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	SW8260B	09/25/13 19:13	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW8260B	09/25/13 19:13	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	SW8260B	09/25/13 19:13	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW8260B	09/25/13 19:13	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	SW8260B	09/25/13 19:13	WAT	74-83-9	

Lab Sample ID: S58163.09 (continued)
Sample Tag: MW-29 (091713)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Chloroethane	Not detected	ug/L	5	SW8260B	09/25/13 19:13	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260B	09/25/13 19:13	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260B	09/25/13 19:13	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	SW8260B	09/25/13 19:13	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	09/25/13 19:13	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260B	09/25/13 19:13	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	09/25/13 19:13	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	SW8260B	09/25/13 19:13	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	SW8260B	09/25/13 19:13	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	SW8260B	09/25/13 19:13	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260B	09/25/13 19:13	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW8260B	09/25/13 19:13	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	SW8260B	09/25/13 19:13	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW8260B	09/25/13 19:13	WAT	56-23-5	
Benzene	Not detected	ug/L	1	SW8260B	09/25/13 19:13	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260B	09/25/13 19:13	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW8260B	09/25/13 19:13	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260B	09/25/13 19:13	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW8260B	09/25/13 19:13	WAT	75-27-4	
Dibromomethane	Not detected	ug/L	5	SW8260B	09/25/13 19:13	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	09/25/13 19:13	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	SW8260B	09/25/13 19:13	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	09/25/13 19:13	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260B	09/25/13 19:13	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW8260B	09/25/13 19:13	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW8260B	09/25/13 19:13	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	SW8260B	09/25/13 19:13	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260B	09/25/13 19:13	WAT	106-93-4	
Chlorobenzene	Not detected	ug/L	1	SW8260B	09/25/13 19:13	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	09/25/13 19:13	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	SW8260B	09/25/13 19:13	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	SW8260B	09/25/13 19:13	WAT		
o-Xylene	Not detected	ug/L	1	SW8260B	09/25/13 19:13	WAT	95-47-6	
Styrene	Not detected	ug/L	1	SW8260B	09/25/13 19:13	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	SW8260B	09/25/13 19:13	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	SW8260B	09/25/13 19:13	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	09/25/13 19:13	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	SW8260B	09/25/13 19:13	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	SW8260B	09/25/13 19:13	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	SW8260B	09/25/13 19:13	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW8260B	09/25/13 19:13	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	SW8260B	09/25/13 19:13	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW8260B	09/25/13 19:13	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	SW8260B	09/25/13 19:13	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	SW8260B	09/25/13 19:13	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260B	09/25/13 19:13	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260B	09/25/13 19:13	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260B	09/25/13 19:13	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW8260B	09/25/13 19:13	WAT	526-73-8	

Lab Sample ID: S58163.09 (continued)
Sample Tag: MW-29 (091713)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
n-Butylbenzene	Not detected	ug/L	1	SW8260B	09/25/13 19:13	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	SW8260B	09/25/13 19:13	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW8260B	09/25/13 19:13	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW8260B	09/25/13 19:13	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW8260B	09/25/13 19:13	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	SW8260B	09/25/13 19:13	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	SW8260B	09/25/13 19:13	WAT	91-57-6	

Analytical Laboratory Report

Lab Sample ID: S58163.10
Sample Tag: MW-2 (091813)
Collected Date/Time: 09/18/2013 08:40
Matrix: Groundwater
COC Reference: B0064486

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	1L Amber	None	Yes	5.0	IR
3	40ml Glass	HCL	Yes	5.0	IR
1	125ml Plastic	HNO3	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			3015A	09/20/13 15:00	PER		
pH check for VOCs	<2	STD Units		N/A	09/26/13 10:19	LBR		
PNA Extraction	Completed			3510C	09/24/13 12:41	EMR		
Metals								
Lead, Dissolved	Not detected	mg/L	0.003	E200.8	09/20/13 15:45	PER	7439-92-1	
Organics - Semi-Volatiles								
Polynuclear Aromatic Hydrocarbon								
Acenaphthene	Not detected	ug/L	5	SW8270C	09/25/13 17:52	PL	83-32-9	
Acenaphthylene	Not detected	ug/L	5	SW8270C	09/25/13 17:52	PL	208-96-8	
Anthracene	Not detected	ug/L	5	SW8270C	09/25/13 17:52	PL	120-12-7	
Benzo(a)anthracene	Not detected	ug/L	1	SW8270C	09/25/13 17:52	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/L	1	SW8270C	09/25/13 17:52	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/L	1	SW8270C	09/25/13 17:52	PL	205-99-2	
Benzo(k)fluoranthene	Not detected	ug/L	1	SW8270C	09/25/13 17:52	PL	207-08-9	
Benzo(ghi)perylene	Not detected	ug/L	1	SW8270C	09/25/13 17:52	PL	191-24-2	
Chrysene	Not detected	ug/L	1	SW8270C	09/25/13 17:52	PL	218-01-9	
Dibenzo(ah)anthracene	Not detected	ug/L	2	SW8270C	09/25/13 17:52	PL	53-70-3	
Fluoranthene	Not detected	ug/L	1	SW8270C	09/25/13 17:52	PL	206-44-0	
Fluorene	Not detected	ug/L	5	SW8270C	09/25/13 17:52	PL	86-73-7	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	2	SW8270C	09/25/13 17:52	PL	193-39-5	
Naphthalene	Not detected	ug/L	5	SW8270C	09/25/13 17:52	PL	91-20-3	
Phenanthrene	Not detected	ug/L	2	SW8270C	09/25/13 17:52	PL	85-01-8	
Pyrene	Not detected	ug/L	5	SW8270C	09/25/13 17:52	PL	129-00-0	
2-Methylnaphthalene	Not detected	ug/L	5	SW8270C	09/25/13 17:52	PL	91-57-6	
1-Methylnaphthalene	Not detected	ug/L	5	SW8270C	09/25/13 17:52	PL	90-12-0	
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	10	SW8260B	09/25/13 19:34	WAT	60-29-7	
Acetone	Not detected	ug/L	50	SW8260B	09/25/13 19:34	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	SW8260B	09/25/13 19:34	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	SW8260B	09/25/13 19:34	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW8260B	09/25/13 19:34	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	SW8260B	09/25/13 19:34	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	SW8260B	09/25/13 19:34	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW8260B	09/25/13 19:34	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	SW8260B	09/25/13 19:34	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW8260B	09/25/13 19:34	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	SW8260B	09/25/13 19:34	WAT	74-83-9	

Lab Sample ID: S58163.10 (continued)
Sample Tag: MW-2 (091813)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Chloroethane	Not detected	ug/L	5	SW8260B	09/25/13 19:34	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260B	09/25/13 19:34	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260B	09/25/13 19:34	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	SW8260B	09/25/13 19:34	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	09/25/13 19:34	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260B	09/25/13 19:34	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	09/25/13 19:34	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	SW8260B	09/25/13 19:34	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	SW8260B	09/25/13 19:34	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	SW8260B	09/25/13 19:34	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260B	09/25/13 19:34	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW8260B	09/25/13 19:34	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	SW8260B	09/25/13 19:34	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW8260B	09/25/13 19:34	WAT	56-23-5	
Benzene	Not detected	ug/L	1	SW8260B	09/25/13 19:34	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260B	09/25/13 19:34	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW8260B	09/25/13 19:34	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260B	09/25/13 19:34	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW8260B	09/25/13 19:34	WAT	75-27-4	
Dibromomethane	Not detected	ug/L	5	SW8260B	09/25/13 19:34	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	09/25/13 19:34	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	SW8260B	09/25/13 19:34	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	09/25/13 19:34	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260B	09/25/13 19:34	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW8260B	09/25/13 19:34	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW8260B	09/25/13 19:34	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	SW8260B	09/25/13 19:34	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260B	09/25/13 19:34	WAT	106-93-4	
Chlorobenzene	Not detected	ug/L	1	SW8260B	09/25/13 19:34	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	09/25/13 19:34	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	SW8260B	09/25/13 19:34	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	SW8260B	09/25/13 19:34	WAT		
o-Xylene	Not detected	ug/L	1	SW8260B	09/25/13 19:34	WAT	95-47-6	
Styrene	Not detected	ug/L	1	SW8260B	09/25/13 19:34	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	SW8260B	09/25/13 19:34	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	SW8260B	09/25/13 19:34	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	09/25/13 19:34	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	SW8260B	09/25/13 19:34	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	SW8260B	09/25/13 19:34	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	SW8260B	09/25/13 19:34	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW8260B	09/25/13 19:34	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	SW8260B	09/25/13 19:34	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW8260B	09/25/13 19:34	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	SW8260B	09/25/13 19:34	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	SW8260B	09/25/13 19:34	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260B	09/25/13 19:34	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260B	09/25/13 19:34	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260B	09/25/13 19:34	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW8260B	09/25/13 19:34	WAT	526-73-8	

Lab Sample ID: S58163.10 (continued)
Sample Tag: MW-2 (091813)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
n-Butylbenzene	Not detected	ug/L	1	SW8260B	09/25/13 19:34	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	SW8260B	09/25/13 19:34	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW8260B	09/25/13 19:34	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW8260B	09/25/13 19:34	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW8260B	09/25/13 19:34	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	SW8260B	09/25/13 19:34	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	SW8260B	09/25/13 19:34	WAT	91-57-6	

Analytical Laboratory Report

Lab Sample ID: S58163.11
Sample Tag: MW-13 (091813)
Collected Date/Time: 09/18/2013 09:48
Matrix: Groundwater
COC Reference: B0064486

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	1L Amber	None	Yes	5.0	IR
3	40ml Glass	HCL	Yes	5.0	IR
1	125ml Plastic	HNO3	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			3015A	09/20/13 15:00	PER		
pH check for VOCs	<2	STD Units		N/A	09/26/13 10:19	LBR		
PNA Extraction	Completed			3510C	09/24/13 12:41	EMR		
Metals								
Lead, Dissolved	Not detected	mg/L	0.003	E200.8	09/20/13 15:48	PER	7439-92-1	
Organics - Semi-Volatiles								
Polynuclear Aromatic Hydrocarbon								
Acenaphthene	Not detected	ug/L	5	SW8270C	09/25/13 18:14	PL	83-32-9	
Acenaphthylene	Not detected	ug/L	5	SW8270C	09/25/13 18:14	PL	208-96-8	
Anthracene	Not detected	ug/L	5	SW8270C	09/25/13 18:14	PL	120-12-7	
Benzo(a)anthracene	Not detected	ug/L	1	SW8270C	09/25/13 18:14	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/L	1	SW8270C	09/25/13 18:14	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/L	1	SW8270C	09/25/13 18:14	PL	205-99-2	
Benzo(k)fluoranthene	Not detected	ug/L	1	SW8270C	09/25/13 18:14	PL	207-08-9	
Benzo(ghi)perylene	Not detected	ug/L	1	SW8270C	09/25/13 18:14	PL	191-24-2	
Chrysene	Not detected	ug/L	1	SW8270C	09/25/13 18:14	PL	218-01-9	
Dibenzo(ah)anthracene	Not detected	ug/L	2	SW8270C	09/25/13 18:14	PL	53-70-3	
Fluoranthene	Not detected	ug/L	1	SW8270C	09/25/13 18:14	PL	206-44-0	
Fluorene	Not detected	ug/L	5	SW8270C	09/25/13 18:14	PL	86-73-7	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	2	SW8270C	09/25/13 18:14	PL	193-39-5	
Naphthalene	Not detected	ug/L	5	SW8270C	09/25/13 18:14	PL	91-20-3	
Phenanthrene	Not detected	ug/L	2	SW8270C	09/25/13 18:14	PL	85-01-8	
Pyrene	Not detected	ug/L	5	SW8270C	09/25/13 18:14	PL	129-00-0	
2-Methylnaphthalene	Not detected	ug/L	5	SW8270C	09/25/13 18:14	PL	91-57-6	
1-Methylnaphthalene	Not detected	ug/L	5	SW8270C	09/25/13 18:14	PL	90-12-0	
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	10	SW8260B	09/27/13 14:54	WAT	60-29-7	
Acetone	Not detected	ug/L	50	SW8260B	09/27/13 14:54	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	SW8260B	09/27/13 14:54	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	SW8260B	09/27/13 14:54	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW8260B	09/27/13 14:54	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	SW8260B	09/27/13 14:54	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	SW8260B	09/27/13 14:54	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW8260B	09/27/13 14:54	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	SW8260B	09/27/13 14:54	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW8260B	09/27/13 14:54	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	SW8260B	09/27/13 14:54	WAT	74-83-9	

Lab Sample ID: S58163.11 (continued)
Sample Tag: MW-13 (091813)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Chloroethane	Not detected	ug/L	5	SW8260B	09/27/13 14:54	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260B	09/27/13 14:54	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260B	09/27/13 14:54	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	SW8260B	09/27/13 14:54	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	09/27/13 14:54	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260B	09/27/13 14:54	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	09/27/13 14:54	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	SW8260B	09/27/13 14:54	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	SW8260B	09/27/13 14:54	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	SW8260B	09/27/13 14:54	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260B	09/27/13 14:54	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW8260B	09/27/13 14:54	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	SW8260B	09/27/13 14:54	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW8260B	09/27/13 14:54	WAT	56-23-5	
Benzene	Not detected	ug/L	1	SW8260B	09/27/13 14:54	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260B	09/27/13 14:54	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW8260B	09/27/13 14:54	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260B	09/27/13 14:54	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW8260B	09/27/13 14:54	WAT	75-27-4	
Dibromomethane	Not detected	ug/L	5	SW8260B	09/27/13 14:54	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	09/27/13 14:54	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	SW8260B	09/27/13 14:54	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	09/27/13 14:54	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260B	09/27/13 14:54	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW8260B	09/27/13 14:54	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW8260B	09/27/13 14:54	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	SW8260B	09/27/13 14:54	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260B	09/27/13 14:54	WAT	106-93-4	
Chlorobenzene	Not detected	ug/L	1	SW8260B	09/27/13 14:54	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	09/27/13 14:54	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	SW8260B	09/27/13 14:54	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	SW8260B	09/27/13 14:54	WAT		
o-Xylene	Not detected	ug/L	1	SW8260B	09/27/13 14:54	WAT	95-47-6	
Styrene	Not detected	ug/L	1	SW8260B	09/27/13 14:54	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	SW8260B	09/27/13 14:54	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	SW8260B	09/27/13 14:54	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	09/27/13 14:54	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	SW8260B	09/27/13 14:54	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	SW8260B	09/27/13 14:54	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	SW8260B	09/27/13 14:54	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW8260B	09/27/13 14:54	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	SW8260B	09/27/13 14:54	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW8260B	09/27/13 14:54	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	SW8260B	09/27/13 14:54	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	SW8260B	09/27/13 14:54	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260B	09/27/13 14:54	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260B	09/27/13 14:54	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260B	09/27/13 14:54	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW8260B	09/27/13 14:54	WAT	526-73-8	

Lab Sample ID: S58163.11 (continued)
Sample Tag: MW-13 (091813)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
n-Butylbenzene	Not detected	ug/L	1	SW8260B	09/27/13 14:54	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	SW8260B	09/27/13 14:54	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW8260B	09/27/13 14:54	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW8260B	09/27/13 14:54	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW8260B	09/27/13 14:54	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	SW8260B	09/27/13 14:54	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	SW8260B	09/27/13 14:54	WAT	91-57-6	

Analytical Laboratory Report

Lab Sample ID: S58163.12
Sample Tag: MW-13 (091813) MS
Collected Date/Time: 09/18/2013 09:48
Matrix: Groundwater
COC Reference: B0064486

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	1L Amber	None	Yes	5.0	IR
3	40ml Glass	HCL	Yes	5.0	IR
1	125ml Plastic	HNO3	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			3015A	09/20/13 15:00	PER		
pH check for VOCs	<2	STD Units		N/A	09/26/13 10:19	LBR		
PNA Extraction	Completed			3510C	09/24/13 12:41	EMR		
Metals								
Lead, Dissolved	0.237	mg/L	0.003	E200.8	09/20/13 15:49	PER	7439-92-1	
Organics - Semi-Volatiles								
Polynuclear Aromatic Hydrocarbon								
Acenaphthene	40	ug/L	5	SW8270C	09/25/13 18:37	PL	83-32-9	1
Acenaphthylene	38	ug/L	5	SW8270C	09/25/13 18:37	PL	208-96-8	1
Anthracene	40	ug/L	5	SW8270C	09/25/13 18:37	PL	120-12-7	1
Benzo(a)anthracene	43	ug/L	1	SW8270C	09/25/13 18:37	PL	56-55-3	1
Benzo(a)pyrene	43	ug/L	1	SW8270C	09/25/13 18:37	PL	50-32-8	1
Benzo(b)fluoranthene	45	ug/L	1	SW8270C	09/25/13 18:37	PL	205-99-2	1
Benzo(k)fluoranthene	42	ug/L	1	SW8270C	09/25/13 18:37	PL	207-08-9	1
Benzo(ghi)perylene	49	ug/L	1	SW8270C	09/25/13 18:37	PL	191-24-2	1
Chrysene	43	ug/L	1	SW8270C	09/25/13 18:37	PL	218-01-9	1
Dibenzo(ah)anthracene	48	ug/L	2	SW8270C	09/25/13 18:37	PL	53-70-3	1
Fluoranthene	43	ug/L	1	SW8270C	09/25/13 18:37	PL	206-44-0	1
Fluorene	41	ug/L	5	SW8270C	09/25/13 18:37	PL	86-73-7	1
Indeno(1,2,3-cd)pyrene	49	ug/L	2	SW8270C	09/25/13 18:37	PL	193-39-5	1
Naphthalene	37	ug/L	5	SW8270C	09/25/13 18:37	PL	91-20-3	1
Phenanthrene	41	ug/L	2	SW8270C	09/25/13 18:37	PL	85-01-8	1
Pyrene	39	ug/L	5	SW8270C	09/25/13 18:37	PL	129-00-0	1
2-Methylnaphthalene	37	ug/L	5	SW8270C	09/25/13 18:37	PL	91-57-6	1
1-Methylnaphthalene	36	ug/L	5	SW8270C	09/25/13 18:37	PL	90-12-0	1
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	55	ug/L	10	SW8260B	09/27/13 12:53	WAT	60-29-7	2
Acetone	Not detected	ug/L	50	SW8260B	09/27/13 12:53	WAT	67-64-1	2
Methyl iodide	55	ug/L	1	SW8260B	09/27/13 12:53	WAT	74-88-4	2
Carbon disulfide	54	ug/L	5	SW8260B	09/27/13 12:53	WAT	75-15-0	2
tert-Methyl butyl ether (MTBE)	56	ug/L	5	SW8260B	09/27/13 12:53	WAT	1634-04-4	2
Acrylonitrile	52	ug/L	2	SW8260B	09/27/13 12:53	WAT	107-13-1	2
2-Butanone (MEK)	46	ug/L	25	SW8260B	09/27/13 12:53	WAT	78-93-3	2
Dichlorodifluoromethane	57	ug/L	5	SW8260B	09/27/13 12:53	WAT	75-71-8	2
Chloromethane	54	ug/L	5	SW8260B	09/27/13 12:53	WAT	74-87-3	2

1-Sample spiked at 50 mg/l
2-Spiked at 50ug/l

Lab Sample ID: S58163.12 (continued)
Sample Tag: MW-13 (091813) MS

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Vinyl chloride	55	ug/L	1	SW8260B	09/27/13 12:53	WAT	75-01-4	1
Bromomethane	55	ug/L	5	SW8260B	09/27/13 12:53	WAT	74-83-9	1
Chloroethane	53	ug/L	5	SW8260B	09/27/13 12:53	WAT	75-00-3	1
Trichlorofluoromethane	55	ug/L	1	SW8260B	09/27/13 12:53	WAT	75-69-4	1
1,1-Dichloroethene	54	ug/L	1	SW8260B	09/27/13 12:53	WAT	75-35-4	1
Methylene chloride	51	ug/L	5	SW8260B	09/27/13 12:53	WAT	75-09-2	1
trans-1,2-Dichloroethene	53	ug/L	1	SW8260B	09/27/13 12:53	WAT	156-60-5	1
1,1-Dichloroethane	54	ug/L	1	SW8260B	09/27/13 12:53	WAT	75-34-3	1
cis-1,2-Dichloroethene	55	ug/L	1	SW8260B	09/27/13 12:53	WAT	156-59-2	1
Tetrahydrofuran	Not detected	ug/L	90	SW8260B	09/27/13 12:53	WAT	109-99-9	1
Chloroform	54	ug/L	1	SW8260B	09/27/13 12:53	WAT	67-66-3	1
Bromochloromethane	53	ug/L	1	SW8260B	09/27/13 12:53	WAT	74-97-5	1
1,1,1-Trichloroethane	57	ug/L	1	SW8260B	09/27/13 12:53	WAT	71-55-6	1
4-Methyl-2-pentanone (MIBK)	52	ug/L	50	SW8260B	09/27/13 12:53	WAT	108-10-1	1
2-Hexanone	52	ug/L	50	SW8260B	09/27/13 12:53	WAT	591-78-6	1
Carbon tetrachloride	56	ug/L	1	SW8260B	09/27/13 12:53	WAT	56-23-5	1
Benzene	52	ug/L	1	SW8260B	09/27/13 12:53	WAT	71-43-2	1
1,2-Dichloroethane	52	ug/L	1	SW8260B	09/27/13 12:53	WAT	107-06-2	1
Trichloroethene	52	ug/L	1	SW8260B	09/27/13 12:53	WAT	79-01-6	1
1,2-Dichloropropane	52	ug/L	1	SW8260B	09/27/13 12:53	WAT	78-87-5	1
Bromodichloromethane	54	ug/L	1	SW8260B	09/27/13 12:53	WAT	75-27-4	1
Dibromomethane	53	ug/L	5	SW8260B	09/27/13 12:53	WAT	74-95-3	1
cis-1,3-Dichloropropene	52	ug/L	1	SW8260B	09/27/13 12:53	WAT	10061-01-5	1
Toluene	52	ug/L	1	SW8260B	09/27/13 12:53	WAT	108-88-3	1
trans-1,3-Dichloropropene	52	ug/L	1	SW8260B	09/27/13 12:53	WAT	10061-02-6	1
1,1,2-Trichloroethane	53	ug/L	1	SW8260B	09/27/13 12:53	WAT	79-00-5	1
Tetrachloroethene	51	ug/L	1	SW8260B	09/27/13 12:53	WAT	127-18-4	1
trans-1,4-Dichloro-2-butene	55	ug/L	1	SW8260B	09/27/13 12:53	WAT	110-57-6	1
Dibromochloromethane	53	ug/L	5	SW8260B	09/27/13 12:53	WAT	124-48-1	1
1,2-Dibromoethane	54	ug/L	1	SW8260B	09/27/13 12:53	WAT	106-93-4	1
Chlorobenzene	53	ug/L	1	SW8260B	09/27/13 12:53	WAT	108-90-7	1
1,1,1,2-Tetrachloroethane	55	ug/L	1	SW8260B	09/27/13 12:53	WAT	630-20-6	1
Ethylbenzene	55	ug/L	1	SW8260B	09/27/13 12:53	WAT	100-41-4	1
p,m-Xylene	109	ug/L	2	SW8260B	09/27/13 12:53	WAT		1
o-Xylene	54	ug/L	1	SW8260B	09/27/13 12:53	WAT	95-47-6	1
Styrene	54	ug/L	1	SW8260B	09/27/13 12:53	WAT	100-42-5	1
Isopropylbenzene	55	ug/L	5	SW8260B	09/27/13 12:53	WAT	98-82-8	1
Bromoform	52	ug/L	1	SW8260B	09/27/13 12:53	WAT	75-25-2	1
1,1,2,2-Tetrachloroethane	57	ug/L	1	SW8260B	09/27/13 12:53	WAT	79-34-5	1
1,2,3-Trichloropropane	54	ug/L	1	SW8260B	09/27/13 12:53	WAT	96-18-4	1
n-Propylbenzene	55	ug/L	1	SW8260B	09/27/13 12:53	WAT	103-65-1	1
Bromobenzene	53	ug/L	1	SW8260B	09/27/13 12:53	WAT	108-86-1	1
1,3,5-Trimethylbenzene	55	ug/L	1	SW8260B	09/27/13 12:53	WAT	108-67-8	1
tert-Butylbenzene	55	ug/L	1	SW8260B	09/27/13 12:53	WAT	98-06-6	1
1,2,4-Trimethylbenzene	54	ug/L	1	SW8260B	09/27/13 12:53	WAT	95-63-6	1
sec-Butylbenzene	58	ug/L	1	SW8260B	09/27/13 12:53	WAT	135-98-8	1
p-Isopropyltoluene	57	ug/L	5	SW8260B	09/27/13 12:53	WAT	99-87-6	1
1,3-Dichlorobenzene	55	ug/L	1	SW8260B	09/27/13 12:53	WAT	541-73-1	1

1-Spiked at 50ug/l

Lab Sample ID: S58163.12 (continued)
Sample Tag: MW-13 (091813) MS

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
1,4-Dichlorobenzene	55	ug/L	1	SW8260B	09/27/13 12:53	WAT	106-46-7	1
1,2-Dichlorobenzene	55	ug/L	1	SW8260B	09/27/13 12:53	WAT	95-50-1	1
1,2,3-Trimethylbenzene	55	ug/L	1	SW8260B	09/27/13 12:53	WAT	526-73-8	1
n-Butylbenzene	58	ug/L	1	SW8260B	09/27/13 12:53	WAT	104-51-8	1
Hexachloroethane	57	ug/L	5	SW8260B	09/27/13 12:53	WAT	67-72-1	1
1,2-Dibromo-3-chloropropane	56	ug/L	5	SW8260B	09/27/13 12:53	WAT	96-12-8	1
1,2,4-Trichlorobenzene	61	ug/L	5	SW8260B	09/27/13 12:53	WAT	120-82-1	1
1,2,3-Trichlorobenzene	64	ug/L	5	SW8260B	09/27/13 12:53	WAT	87-61-6	1
Naphthalene	63	ug/L	5	SW8260B	09/27/13 12:53	WAT	91-20-3	1
2-Methylnaphthalene	84	ug/L	5	SW8260B	09/27/13 12:53	WAT	91-57-6	1

1-Spiked at 50ug/l

Analytical Laboratory Report

Lab Sample ID: S58163.13
Sample Tag: MW-13 (091813) MSD
Collected Date/Time: 09/18/2013 09:48
Matrix: Groundwater
COC Reference: B0064486

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	1L Amber	None	Yes	5.0	IR
3	40ml Glass	HCL	Yes	5.0	IR
1	125ml Plastic	HNO3	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			3015A	09/20/13 15:00	PER		
pH check for VOCs	<2	STD Units		N/A	09/26/13 10:19	LBR		
PNA Extraction	Completed			3510C	09/24/13 12:41	EMR		
Metals								
Lead, Dissolved	0.235	mg/L	0.003	E200.8	09/20/13 15:50	PER	7439-92-1	
Organics - Semi-Volatiles								
Polynuclear Aromatic Hydrocarbon								
Acenaphthene	40	ug/L	5	SW8270C	09/25/13 18:59	PL	83-32-9	1
Acenaphthylene	39	ug/L	5	SW8270C	09/25/13 18:59	PL	208-96-8	1
Anthracene	39	ug/L	5	SW8270C	09/25/13 18:59	PL	120-12-7	1
Benzo(a)anthracene	43	ug/L	1	SW8270C	09/25/13 18:59	PL	56-55-3	1
Benzo(a)pyrene	43	ug/L	1	SW8270C	09/25/13 18:59	PL	50-32-8	1
Benzo(b)fluoranthene	45	ug/L	1	SW8270C	09/25/13 18:59	PL	205-99-2	1
Benzo(k)fluoranthene	43	ug/L	1	SW8270C	09/25/13 18:59	PL	207-08-9	1
Benzo(ghi)perylene	49	ug/L	1	SW8270C	09/25/13 18:59	PL	191-24-2	1
Chrysene	42	ug/L	1	SW8270C	09/25/13 18:59	PL	218-01-9	1
Dibenzo(ah)anthracene	48	ug/L	2	SW8270C	09/25/13 18:59	PL	53-70-3	1
Fluoranthene	43	ug/L	1	SW8270C	09/25/13 18:59	PL	206-44-0	1
Fluorene	41	ug/L	5	SW8270C	09/25/13 18:59	PL	86-73-7	1
Indeno(1,2,3-cd)pyrene	49	ug/L	2	SW8270C	09/25/13 18:59	PL	193-39-5	1
Naphthalene	38	ug/L	5	SW8270C	09/25/13 18:59	PL	91-20-3	1
Phenanthrene	41	ug/L	2	SW8270C	09/25/13 18:59	PL	85-01-8	1
Pyrene	39	ug/L	5	SW8270C	09/25/13 18:59	PL	129-00-0	1
2-Methylnaphthalene	37	ug/L	5	SW8270C	09/25/13 18:59	PL	91-57-6	1
1-Methylnaphthalene	36	ug/L	5	SW8270C	09/25/13 18:59	PL	90-12-0	1
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	50	ug/L	10	SW8260B	09/27/13 13:13	WAT	60-29-7	2
Acetone	Not detected	ug/L	50	SW8260B	09/27/13 13:13	WAT	67-64-1	2
Methyl iodide	55	ug/L	1	SW8260B	09/27/13 13:13	WAT	74-88-4	2
Carbon disulfide	41	ug/L	5	SW8260B	09/27/13 13:13	WAT	75-15-0	2
tert-Methyl butyl ether (MTBE)	55	ug/L	5	SW8260B	09/27/13 13:13	WAT	1634-04-4	2
Acrylonitrile	49	ug/L	2	SW8260B	09/27/13 13:13	WAT	107-13-1	2
2-Butanone (MEK)	46	ug/L	25	SW8260B	09/27/13 13:13	WAT	78-93-3	2
Dichlorodifluoromethane	54	ug/L	5	SW8260B	09/27/13 13:13	WAT	75-71-8	2
Chloromethane	52	ug/L	5	SW8260B	09/27/13 13:13	WAT	74-87-3	2

1-Sample spiked at 50 mg/l
2-Spiked at 50ug/l

Lab Sample ID: S58163.13 (continued)
Sample Tag: MW-13 (091813) MSD

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Vinyl chloride	53	ug/L	1	SW8260B	09/27/13 13:13	WAT	75-01-4	1
Bromomethane	55	ug/L	5	SW8260B	09/27/13 13:13	WAT	74-83-9	1
Chloroethane	52	ug/L	5	SW8260B	09/27/13 13:13	WAT	75-00-3	1
Trichlorofluoromethane	54	ug/L	1	SW8260B	09/27/13 13:13	WAT	75-69-4	1
1,1-Dichloroethene	52	ug/L	1	SW8260B	09/27/13 13:13	WAT	75-35-4	1
Methylene chloride	50	ug/L	5	SW8260B	09/27/13 13:13	WAT	75-09-2	1
trans-1,2-Dichloroethene	52	ug/L	1	SW8260B	09/27/13 13:13	WAT	156-60-5	1
1,1-Dichloroethane	53	ug/L	1	SW8260B	09/27/13 13:13	WAT	75-34-3	1
cis-1,2-Dichloroethene	54	ug/L	1	SW8260B	09/27/13 13:13	WAT	156-59-2	1
Tetrahydrofuran	Not detected	ug/L	90	SW8260B	09/27/13 13:13	WAT	109-99-9	1
Chloroform	53	ug/L	1	SW8260B	09/27/13 13:13	WAT	67-66-3	1
Bromochloromethane	53	ug/L	1	SW8260B	09/27/13 13:13	WAT	74-97-5	1
1,1,1-Trichloroethane	56	ug/L	1	SW8260B	09/27/13 13:13	WAT	71-55-6	1
4-Methyl-2-pentanone (MIBK)	55	ug/L	50	SW8260B	09/27/13 13:13	WAT	108-10-1	1
2-Hexanone	56	ug/L	50	SW8260B	09/27/13 13:13	WAT	591-78-6	1
Carbon tetrachloride	57	ug/L	1	SW8260B	09/27/13 13:13	WAT	56-23-5	1
Benzene	54	ug/L	1	SW8260B	09/27/13 13:13	WAT	71-43-2	1
1,2-Dichloroethane	55	ug/L	1	SW8260B	09/27/13 13:13	WAT	107-06-2	1
Trichloroethene	54	ug/L	1	SW8260B	09/27/13 13:13	WAT	79-01-6	1
1,2-Dichloropropane	54	ug/L	1	SW8260B	09/27/13 13:13	WAT	78-87-5	1
Bromodichloromethane	54	ug/L	1	SW8260B	09/27/13 13:13	WAT	75-27-4	1
Dibromomethane	57	ug/L	5	SW8260B	09/27/13 13:13	WAT	74-95-3	1
cis-1,3-Dichloropropene	52	ug/L	1	SW8260B	09/27/13 13:13	WAT	10061-01-5	1
Toluene	52	ug/L	1	SW8260B	09/27/13 13:13	WAT	108-88-3	1
trans-1,3-Dichloropropene	53	ug/L	1	SW8260B	09/27/13 13:13	WAT	10061-02-6	1
1,1,2-Trichloroethane	55	ug/L	1	SW8260B	09/27/13 13:13	WAT	79-00-5	1
Tetrachloroethene	54	ug/L	1	SW8260B	09/27/13 13:13	WAT	127-18-4	1
trans-1,4-Dichloro-2-butene	46	ug/L	1	SW8260B	09/27/13 13:13	WAT	110-57-6	1
Dibromochloromethane	50	ug/L	5	SW8260B	09/27/13 13:13	WAT	124-48-1	1
1,2-Dibromoethane	57	ug/L	1	SW8260B	09/27/13 13:13	WAT	106-93-4	1
Chlorobenzene	54	ug/L	1	SW8260B	09/27/13 13:13	WAT	108-90-7	1
1,1,1,2-Tetrachloroethane	57	ug/L	1	SW8260B	09/27/13 13:13	WAT	630-20-6	1
Ethylbenzene	54	ug/L	1	SW8260B	09/27/13 13:13	WAT	100-41-4	1
p,m-Xylene	104	ug/L	2	SW8260B	09/27/13 13:13	WAT		1
o-Xylene	51	ug/L	1	SW8260B	09/27/13 13:13	WAT	95-47-6	1
Styrene	40	ug/L	1	SW8260B	09/27/13 13:13	WAT	100-42-5	1
Isopropylbenzene	55	ug/L	5	SW8260B	09/27/13 13:13	WAT	98-82-8	1
Bromoform	47	ug/L	1	SW8260B	09/27/13 13:13	WAT	75-25-2	1
1,1,2,2-Tetrachloroethane	59	ug/L	1	SW8260B	09/27/13 13:13	WAT	79-34-5	1
1,2,3-Trichloropropane	54	ug/L	1	SW8260B	09/27/13 13:13	WAT	96-18-4	1
n-Propylbenzene	55	ug/L	1	SW8260B	09/27/13 13:13	WAT	103-65-1	1
Bromobenzene	54	ug/L	1	SW8260B	09/27/13 13:13	WAT	108-86-1	1
1,3,5-Trimethylbenzene	48	ug/L	1	SW8260B	09/27/13 13:13	WAT	108-67-8	1
tert-Butylbenzene	55	ug/L	1	SW8260B	09/27/13 13:13	WAT	98-06-6	1
1,2,4-Trimethylbenzene	51	ug/L	1	SW8260B	09/27/13 13:13	WAT	95-63-6	1
sec-Butylbenzene	60	ug/L	1	SW8260B	09/27/13 13:13	WAT	135-98-8	1
p-Isopropyltoluene	60	ug/L	5	SW8260B	09/27/13 13:13	WAT	99-87-6	1
1,3-Dichlorobenzene	58	ug/L	1	SW8260B	09/27/13 13:13	WAT	541-73-1	1

1-Spiked at 50ug/l

Lab Sample ID: S58163.13 (continued)
Sample Tag: MW-13 (091813) MSD

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
1,4-Dichlorobenzene	59	ug/L	1	SW8260B	09/27/13 13:13	WAT	106-46-7	1
1,2-Dichlorobenzene	60	ug/L	1	SW8260B	09/27/13 13:13	WAT	95-50-1	1
1,2,3-Trimethylbenzene	52	ug/L	1	SW8260B	09/27/13 13:13	WAT	526-73-8	1
n-Butylbenzene	61	ug/L	1	SW8260B	09/27/13 13:13	WAT	104-51-8	1
Hexachloroethane	60	ug/L	5	SW8260B	09/27/13 13:13	WAT	67-72-1	1
1,2-Dibromo-3-chloropropane	62	ug/L	5	SW8260B	09/27/13 13:13	WAT	96-12-8	1
1,2,4-Trichlorobenzene	68	ug/L	5	SW8260B	09/27/13 13:13	WAT	120-82-1	1
1,2,3-Trichlorobenzene	69	ug/L	5	SW8260B	09/27/13 13:13	WAT	87-61-6	1
Naphthalene	70	ug/L	5	SW8260B	09/27/13 13:13	WAT	91-20-3	1
2-Methylnaphthalene	92	ug/L	5	SW8260B	09/27/13 13:13	WAT	91-57-6	1

1-Spiked at 50ug/l

Analytical Laboratory Report

Lab Sample ID: S58163.14
Sample Tag: MW-14 (091913)
Collected Date/Time: 09/19/2013 08:55
Matrix: Groundwater
COC Reference: B0064486

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	1L Amber	None	Yes	5.0	IR
3	40ml Glass	HCL	Yes	5.0	IR
1	125ml Plastic	HNO3	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			3015A	09/20/13 15:00	PER		
pH check for VOCs	<2	STD Units		N/A	09/26/13 10:19	LBR		
PNA Extraction	Completed			3510C	09/24/13 12:41	EMR		
Metals								
Lead, Dissolved	Not detected	mg/L	0.003	E200.8	09/20/13 15:46	PER	7439-92-1	
Organics - Semi-Volatiles								
Polynuclear Aromatic Hydrocarbon								
Acenaphthene	Not detected	ug/L	5	SW8270C	09/25/13 19:22	PL	83-32-9	
Acenaphthylene	Not detected	ug/L	5	SW8270C	09/25/13 19:22	PL	208-96-8	
Anthracene	Not detected	ug/L	5	SW8270C	09/25/13 19:22	PL	120-12-7	
Benzo(a)anthracene	Not detected	ug/L	1	SW8270C	09/25/13 19:22	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/L	1	SW8270C	09/25/13 19:22	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/L	1	SW8270C	09/25/13 19:22	PL	205-99-2	
Benzo(k)fluoranthene	Not detected	ug/L	1	SW8270C	09/25/13 19:22	PL	207-08-9	
Benzo(ghi)perylene	Not detected	ug/L	1	SW8270C	09/25/13 19:22	PL	191-24-2	
Chrysene	Not detected	ug/L	1	SW8270C	09/25/13 19:22	PL	218-01-9	
Dibenzo(ah)anthracene	Not detected	ug/L	2	SW8270C	09/25/13 19:22	PL	53-70-3	
Fluoranthene	Not detected	ug/L	1	SW8270C	09/25/13 19:22	PL	206-44-0	
Fluorene	Not detected	ug/L	5	SW8270C	09/25/13 19:22	PL	86-73-7	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	2	SW8270C	09/25/13 19:22	PL	193-39-5	
Naphthalene	Not detected	ug/L	5	SW8270C	09/25/13 19:22	PL	91-20-3	
Phenanthrene	Not detected	ug/L	2	SW8270C	09/25/13 19:22	PL	85-01-8	
Pyrene	Not detected	ug/L	5	SW8270C	09/25/13 19:22	PL	129-00-0	
2-Methylnaphthalene	Not detected	ug/L	5	SW8270C	09/25/13 19:22	PL	91-57-6	
1-Methylnaphthalene	Not detected	ug/L	5	SW8270C	09/25/13 19:22	PL	90-12-0	
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	10	SW8260B	09/25/13 19:56	WAT	60-29-7	
Acetone	Not detected	ug/L	50	SW8260B	09/25/13 19:56	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	SW8260B	09/25/13 19:56	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	SW8260B	09/25/13 19:56	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW8260B	09/25/13 19:56	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	SW8260B	09/25/13 19:56	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	SW8260B	09/25/13 19:56	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW8260B	09/25/13 19:56	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	SW8260B	09/25/13 19:56	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW8260B	09/25/13 19:56	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	SW8260B	09/25/13 19:56	WAT	74-83-9	

Lab Sample ID: S58163.14 (continued)
Sample Tag: MW-14 (091913)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Chloroethane	Not detected	ug/L	5	SW8260B	09/25/13 19:56	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260B	09/25/13 19:56	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260B	09/25/13 19:56	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	SW8260B	09/25/13 19:56	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	09/25/13 19:56	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260B	09/25/13 19:56	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	09/25/13 19:56	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	SW8260B	09/25/13 19:56	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	SW8260B	09/25/13 19:56	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	SW8260B	09/25/13 19:56	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260B	09/25/13 19:56	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW8260B	09/25/13 19:56	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	SW8260B	09/25/13 19:56	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW8260B	09/25/13 19:56	WAT	56-23-5	
Benzene	Not detected	ug/L	1	SW8260B	09/25/13 19:56	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260B	09/25/13 19:56	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW8260B	09/25/13 19:56	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260B	09/25/13 19:56	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW8260B	09/25/13 19:56	WAT	75-27-4	
Dibromomethane	Not detected	ug/L	5	SW8260B	09/25/13 19:56	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	09/25/13 19:56	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	SW8260B	09/25/13 19:56	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	09/25/13 19:56	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260B	09/25/13 19:56	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW8260B	09/25/13 19:56	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW8260B	09/25/13 19:56	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	SW8260B	09/25/13 19:56	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260B	09/25/13 19:56	WAT	106-93-4	
Chlorobenzene	Not detected	ug/L	1	SW8260B	09/25/13 19:56	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	09/25/13 19:56	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	SW8260B	09/25/13 19:56	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	SW8260B	09/25/13 19:56	WAT		
o-Xylene	Not detected	ug/L	1	SW8260B	09/25/13 19:56	WAT	95-47-6	
Styrene	Not detected	ug/L	1	SW8260B	09/25/13 19:56	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	SW8260B	09/25/13 19:56	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	SW8260B	09/25/13 19:56	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	09/25/13 19:56	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	SW8260B	09/25/13 19:56	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	SW8260B	09/25/13 19:56	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	SW8260B	09/25/13 19:56	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW8260B	09/25/13 19:56	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	SW8260B	09/25/13 19:56	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW8260B	09/25/13 19:56	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	SW8260B	09/25/13 19:56	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	SW8260B	09/25/13 19:56	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260B	09/25/13 19:56	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260B	09/25/13 19:56	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260B	09/25/13 19:56	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW8260B	09/25/13 19:56	WAT	526-73-8	

Lab Sample ID: S58163.14 (continued)
Sample Tag: MW-14 (091913)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
n-Butylbenzene	Not detected	ug/L	1	SW8260B	09/25/13 19:56	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	SW8260B	09/25/13 19:56	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW8260B	09/25/13 19:56	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW8260B	09/25/13 19:56	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW8260B	09/25/13 19:56	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	SW8260B	09/25/13 19:56	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	SW8260B	09/25/13 19:56	WAT	91-57-6	

Analytical Laboratory Report

Lab Sample ID: S58163.15
Sample Tag: Trip Blank
Collected Date/Time: 09/19/2013 00:01
Matrix: Liquid
COC Reference: B0064486

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40ml Glass	HCL	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
pH check for VOCs	<2	STD Units		N/A	09/26/13 10:19	LBR		
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	10	SW8260B	09/25/13 20:18	WAT	60-29-7	
Acetone	Not detected	ug/L	50	SW8260B	09/25/13 20:18	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	SW8260B	09/25/13 20:18	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	SW8260B	09/25/13 20:18	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW8260B	09/25/13 20:18	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	SW8260B	09/25/13 20:18	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	SW8260B	09/25/13 20:18	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW8260B	09/25/13 20:18	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	SW8260B	09/25/13 20:18	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW8260B	09/25/13 20:18	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	SW8260B	09/25/13 20:18	WAT	74-83-9	
Chloroethane	Not detected	ug/L	5	SW8260B	09/25/13 20:18	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260B	09/25/13 20:18	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260B	09/25/13 20:18	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	SW8260B	09/25/13 20:18	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	09/25/13 20:18	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260B	09/25/13 20:18	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	09/25/13 20:18	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	SW8260B	09/25/13 20:18	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	SW8260B	09/25/13 20:18	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	SW8260B	09/25/13 20:18	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260B	09/25/13 20:18	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW8260B	09/25/13 20:18	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	SW8260B	09/25/13 20:18	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW8260B	09/25/13 20:18	WAT	56-23-5	
Benzene	Not detected	ug/L	1	SW8260B	09/25/13 20:18	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260B	09/25/13 20:18	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW8260B	09/25/13 20:18	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260B	09/25/13 20:18	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW8260B	09/25/13 20:18	WAT	75-27-4	
Dibromomethane	Not detected	ug/L	5	SW8260B	09/25/13 20:18	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	09/25/13 20:18	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	SW8260B	09/25/13 20:18	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	09/25/13 20:18	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260B	09/25/13 20:18	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW8260B	09/25/13 20:18	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW8260B	09/25/13 20:18	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	SW8260B	09/25/13 20:18	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260B	09/25/13 20:18	WAT	106-93-4	

Lab Sample ID: S58163.15 (continued)
Sample Tag: Trip Blank

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Chlorobenzene	Not detected	ug/L	1	SW8260B	09/25/13 20:18	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	09/25/13 20:18	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	SW8260B	09/25/13 20:18	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	SW8260B	09/25/13 20:18	WAT		
o-Xylene	Not detected	ug/L	1	SW8260B	09/25/13 20:18	WAT	95-47-6	
Styrene	Not detected	ug/L	1	SW8260B	09/25/13 20:18	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	SW8260B	09/25/13 20:18	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	SW8260B	09/25/13 20:18	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	09/25/13 20:18	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	SW8260B	09/25/13 20:18	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	SW8260B	09/25/13 20:18	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	SW8260B	09/25/13 20:18	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW8260B	09/25/13 20:18	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	SW8260B	09/25/13 20:18	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW8260B	09/25/13 20:18	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	SW8260B	09/25/13 20:18	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	SW8260B	09/25/13 20:18	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260B	09/25/13 20:18	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260B	09/25/13 20:18	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260B	09/25/13 20:18	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW8260B	09/25/13 20:18	WAT	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	SW8260B	09/25/13 20:18	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	SW8260B	09/25/13 20:18	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW8260B	09/25/13 20:18	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW8260B	09/25/13 20:18	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW8260B	09/25/13 20:18	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	SW8260B	09/25/13 20:18	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	SW8260B	09/25/13 20:18	WAT	91-57-6	

Analytical Laboratory Report

Lab Sample ID: S58205.01
Sample Tag: MW-9 (091913)
Collected Date/Time: 09/19/2013 09:30
Matrix: Groundwater
COC Reference: B0064486

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	1L Amber	None	Yes	5.8	IR
3	40ml Glass	HCL	Yes	5.8	IR
1	125ml Plastic	HNO3	Yes	5.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			3015A	10/03/13 11:00	CCM		
pH check for VOCs	<2	STD Units		N/A	09/30/13 10:25	LBR		
PNA Extraction	Completed			3510C	09/24/13 12:41	EMR		
Metals								
Lead, Dissolved	Not detected	mg/L	0.003	E200.8	10/03/13 15:31	CCM	7439-92-1	
Organics - Semi-Volatiles								
Polynuclear Aromatic Hydrocarbon								
Acenaphthene	Not detected	ug/L	5	SW8270C	09/25/13 19:44	PL	83-32-9	
Acenaphthylene	Not detected	ug/L	5	SW8270C	09/25/13 19:44	PL	208-96-8	
Anthracene	Not detected	ug/L	5	SW8270C	09/25/13 19:44	PL	120-12-7	
Benzo(a)anthracene	Not detected	ug/L	1	SW8270C	09/25/13 19:44	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/L	1	SW8270C	09/25/13 19:44	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/L	1	SW8270C	09/25/13 19:44	PL	205-99-2	
Benzo(k)fluoranthene	Not detected	ug/L	1	SW8270C	09/25/13 19:44	PL	207-08-9	
Benzo(ghi)perylene	Not detected	ug/L	1	SW8270C	09/25/13 19:44	PL	191-24-2	
Chrysene	Not detected	ug/L	1	SW8270C	09/25/13 19:44	PL	218-01-9	
Dibenzo(ah)anthracene	Not detected	ug/L	2	SW8270C	09/25/13 19:44	PL	53-70-3	
Fluoranthene	Not detected	ug/L	1	SW8270C	09/25/13 19:44	PL	206-44-0	
Fluorene	Not detected	ug/L	5	SW8270C	09/25/13 19:44	PL	86-73-7	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	2	SW8270C	09/25/13 19:44	PL	193-39-5	
Naphthalene	Not detected	ug/L	5	SW8270C	09/25/13 19:44	PL	91-20-3	
Phenanthrene	Not detected	ug/L	2	SW8270C	09/25/13 19:44	PL	85-01-8	
Pyrene	Not detected	ug/L	5	SW8270C	09/25/13 19:44	PL	129-00-0	
2-Methylnaphthalene	Not detected	ug/L	5	SW8270C	09/25/13 19:44	PL	91-57-6	
1-Methylnaphthalene	Not detected	ug/L	5	SW8270C	09/25/13 19:44	PL	90-12-0	
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	10	SW8260B	09/27/13 16:00	WAT	60-29-7	
Acetone	Not detected	ug/L	50	SW8260B	09/27/13 16:00	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	SW8260B	09/27/13 16:00	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	SW8260B	09/27/13 16:00	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW8260B	09/27/13 16:00	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	SW8260B	09/27/13 16:00	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	SW8260B	09/27/13 16:00	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW8260B	09/27/13 16:00	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	SW8260B	09/27/13 16:00	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW8260B	09/27/13 16:00	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	SW8260B	09/27/13 16:00	WAT	74-83-9	

Lab Sample ID: S58205.01 (continued)
Sample Tag: MW-9 (091913)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Chloroethane	Not detected	ug/L	5	SW8260B	09/27/13 16:00	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260B	09/27/13 16:00	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260B	09/27/13 16:00	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	SW8260B	09/27/13 16:00	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	09/27/13 16:00	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260B	09/27/13 16:00	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	09/27/13 16:00	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	SW8260B	09/27/13 16:00	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	SW8260B	09/27/13 16:00	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	SW8260B	09/27/13 16:00	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260B	09/27/13 16:00	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW8260B	09/27/13 16:00	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	SW8260B	09/27/13 16:00	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW8260B	09/27/13 16:00	WAT	56-23-5	
Benzene	Not detected	ug/L	1	SW8260B	09/27/13 16:00	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260B	09/27/13 16:00	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW8260B	09/27/13 16:00	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260B	09/27/13 16:00	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW8260B	09/27/13 16:00	WAT	75-27-4	
Dibromomethane	Not detected	ug/L	5	SW8260B	09/27/13 16:00	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	09/27/13 16:00	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	SW8260B	09/27/13 16:00	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	09/27/13 16:00	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260B	09/27/13 16:00	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW8260B	09/27/13 16:00	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW8260B	09/27/13 16:00	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	SW8260B	09/27/13 16:00	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260B	09/27/13 16:00	WAT	106-93-4	
Chlorobenzene	Not detected	ug/L	1	SW8260B	09/27/13 16:00	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	09/27/13 16:00	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	SW8260B	09/27/13 16:00	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	SW8260B	09/27/13 16:00	WAT		
o-Xylene	Not detected	ug/L	1	SW8260B	09/27/13 16:00	WAT	95-47-6	
Styrene	Not detected	ug/L	1	SW8260B	09/27/13 16:00	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	SW8260B	09/27/13 16:00	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	SW8260B	09/27/13 16:00	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	09/27/13 16:00	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	SW8260B	09/27/13 16:00	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	SW8260B	09/27/13 16:00	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	SW8260B	09/27/13 16:00	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW8260B	09/27/13 16:00	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	SW8260B	09/27/13 16:00	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW8260B	09/27/13 16:00	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	SW8260B	09/27/13 16:00	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	SW8260B	09/27/13 16:00	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260B	09/27/13 16:00	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260B	09/27/13 16:00	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260B	09/27/13 16:00	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW8260B	09/27/13 16:00	WAT	526-73-8	

Lab Sample ID: S58205.01 (continued)
Sample Tag: MW-9 (091913)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
n-Butylbenzene	Not detected	ug/L	1	SW8260B	09/27/13 16:00	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	SW8260B	09/27/13 16:00	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW8260B	09/27/13 16:00	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW8260B	09/27/13 16:00	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW8260B	09/27/13 16:00	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	SW8260B	09/27/13 16:00	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	SW8260B	09/27/13 16:00	WAT	91-57-6	

Analytical Laboratory Report

Lab Sample ID: S58205.02
Sample Tag: MW-11 (091913)
Collected Date/Time: 09/19/2013 11:05
Matrix: Groundwater
COC Reference: B0064486

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	1L Amber	None	Yes	5.8	IR
3	40ml Glass	HCL	Yes	5.8	IR
1	125ml Plastic	HNO3	Yes	5.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			3015A	10/03/13 11:00	CCM		
pH check for VOCs	<2	STD Units		N/A	09/30/13 10:25	LBR		
PNA Extraction	Completed			3510C	09/24/13 12:41	EMR		
Metals								
Lead, Dissolved	Not detected	mg/L	0.003	E200.8	10/03/13 15:32	CCM	7439-92-1	
Organics - Semi-Volatiles								
Polynuclear Aromatic Hydrocarbon								
Acenaphthene	Not detected	ug/L	5	SW8270C	09/25/13 20:07	PL	83-32-9	
Acenaphthylene	Not detected	ug/L	5	SW8270C	09/25/13 20:07	PL	208-96-8	
Anthracene	Not detected	ug/L	5	SW8270C	09/25/13 20:07	PL	120-12-7	
Benzo(a)anthracene	Not detected	ug/L	1	SW8270C	09/25/13 20:07	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/L	1	SW8270C	09/25/13 20:07	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/L	1	SW8270C	09/25/13 20:07	PL	205-99-2	
Benzo(k)fluoranthene	Not detected	ug/L	1	SW8270C	09/25/13 20:07	PL	207-08-9	
Benzo(ghi)perylene	Not detected	ug/L	1	SW8270C	09/25/13 20:07	PL	191-24-2	
Chrysene	Not detected	ug/L	1	SW8270C	09/25/13 20:07	PL	218-01-9	
Dibenzo(ah)anthracene	Not detected	ug/L	2	SW8270C	09/25/13 20:07	PL	53-70-3	
Fluoranthene	Not detected	ug/L	1	SW8270C	09/25/13 20:07	PL	206-44-0	
Fluorene	Not detected	ug/L	5	SW8270C	09/25/13 20:07	PL	86-73-7	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	2	SW8270C	09/25/13 20:07	PL	193-39-5	
Naphthalene	Not detected	ug/L	5	SW8270C	09/25/13 20:07	PL	91-20-3	
Phenanthrene	Not detected	ug/L	2	SW8270C	09/25/13 20:07	PL	85-01-8	
Pyrene	Not detected	ug/L	5	SW8270C	09/25/13 20:07	PL	129-00-0	
2-Methylnaphthalene	Not detected	ug/L	5	SW8270C	09/25/13 20:07	PL	91-57-6	
1-Methylnaphthalene	Not detected	ug/L	5	SW8270C	09/25/13 20:07	PL	90-12-0	
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	10	SW8260B	09/27/13 16:20	WAT	60-29-7	
Acetone	Not detected	ug/L	50	SW8260B	09/27/13 16:20	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	SW8260B	09/27/13 16:20	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	SW8260B	09/27/13 16:20	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW8260B	09/27/13 16:20	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	SW8260B	09/27/13 16:20	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	SW8260B	09/27/13 16:20	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW8260B	09/27/13 16:20	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	SW8260B	09/27/13 16:20	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW8260B	09/27/13 16:20	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	SW8260B	09/27/13 16:20	WAT	74-83-9	

Lab Sample ID: S58205.02 (continued)
Sample Tag: MW-11 (091913)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Chloroethane	Not detected	ug/L	5	SW8260B	09/27/13 16:20	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260B	09/27/13 16:20	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260B	09/27/13 16:20	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	SW8260B	09/27/13 16:20	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	09/27/13 16:20	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260B	09/27/13 16:20	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	09/27/13 16:20	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	SW8260B	09/27/13 16:20	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	SW8260B	09/27/13 16:20	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	SW8260B	09/27/13 16:20	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260B	09/27/13 16:20	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW8260B	09/27/13 16:20	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	SW8260B	09/27/13 16:20	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW8260B	09/27/13 16:20	WAT	56-23-5	
Benzene	Not detected	ug/L	1	SW8260B	09/27/13 16:20	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260B	09/27/13 16:20	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW8260B	09/27/13 16:20	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260B	09/27/13 16:20	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW8260B	09/27/13 16:20	WAT	75-27-4	
Dibromomethane	Not detected	ug/L	5	SW8260B	09/27/13 16:20	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	09/27/13 16:20	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	SW8260B	09/27/13 16:20	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	09/27/13 16:20	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260B	09/27/13 16:20	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW8260B	09/27/13 16:20	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW8260B	09/27/13 16:20	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	SW8260B	09/27/13 16:20	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260B	09/27/13 16:20	WAT	106-93-4	
Chlorobenzene	Not detected	ug/L	1	SW8260B	09/27/13 16:20	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	09/27/13 16:20	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	SW8260B	09/27/13 16:20	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	SW8260B	09/27/13 16:20	WAT		
o-Xylene	Not detected	ug/L	1	SW8260B	09/27/13 16:20	WAT	95-47-6	
Styrene	Not detected	ug/L	1	SW8260B	09/27/13 16:20	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	SW8260B	09/27/13 16:20	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	SW8260B	09/27/13 16:20	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	09/27/13 16:20	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	SW8260B	09/27/13 16:20	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	SW8260B	09/27/13 16:20	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	SW8260B	09/27/13 16:20	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW8260B	09/27/13 16:20	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	SW8260B	09/27/13 16:20	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW8260B	09/27/13 16:20	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	SW8260B	09/27/13 16:20	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	SW8260B	09/27/13 16:20	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260B	09/27/13 16:20	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260B	09/27/13 16:20	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260B	09/27/13 16:20	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW8260B	09/27/13 16:20	WAT	526-73-8	

Lab Sample ID: S58205.02 (continued)
Sample Tag: MW-11 (091913)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
n-Butylbenzene	Not detected	ug/L	1	SW8260B	09/27/13 16:20	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	SW8260B	09/27/13 16:20	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW8260B	09/27/13 16:20	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW8260B	09/27/13 16:20	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW8260B	09/27/13 16:20	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	SW8260B	09/27/13 16:20	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	SW8260B	09/27/13 16:20	WAT	91-57-6	

Analytical Laboratory Report

Lab Sample ID: S58205.03
Sample Tag: MW-5 (091913)
Collected Date/Time: 09/19/2013 11:27
Matrix: Groundwater
COC Reference: B0064486

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	1L Amber	None	Yes	5.8	IR
3	40ml Glass	HCL	Yes	5.8	IR
1	125ml Plastic	HNO3	Yes	5.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			3015A	10/03/13 11:00	CCM		
pH check for VOCs	<2	STD Units		N/A	09/30/13 10:25	LBR		
PNA Extraction	Completed			3510C	09/24/13 12:41	EMR		
Metals								
Lead, Dissolved	Not detected	mg/L	0.003	E200.8	10/03/13 15:34	CCM	7439-92-1	
Organics - Semi-Volatiles								
Polynuclear Aromatic Hydrocarbon								
Acenaphthene	Not detected	ug/L	5	SW8270C	09/25/13 20:29	PL	83-32-9	
Acenaphthylene	Not detected	ug/L	5	SW8270C	09/25/13 20:29	PL	208-96-8	
Anthracene	Not detected	ug/L	5	SW8270C	09/25/13 20:29	PL	120-12-7	
Benzo(a)anthracene	Not detected	ug/L	1	SW8270C	09/25/13 20:29	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/L	1	SW8270C	09/25/13 20:29	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/L	1	SW8270C	09/25/13 20:29	PL	205-99-2	
Benzo(k)fluoranthene	Not detected	ug/L	1	SW8270C	09/25/13 20:29	PL	207-08-9	
Benzo(ghi)perylene	Not detected	ug/L	1	SW8270C	09/25/13 20:29	PL	191-24-2	
Chrysene	Not detected	ug/L	1	SW8270C	09/25/13 20:29	PL	218-01-9	
Dibenzo(ah)anthracene	Not detected	ug/L	2	SW8270C	09/25/13 20:29	PL	53-70-3	
Fluoranthene	Not detected	ug/L	1	SW8270C	09/25/13 20:29	PL	206-44-0	
Fluorene	Not detected	ug/L	5	SW8270C	09/25/13 20:29	PL	86-73-7	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	2	SW8270C	09/25/13 20:29	PL	193-39-5	
Naphthalene	Not detected	ug/L	5	SW8270C	09/25/13 20:29	PL	91-20-3	
Phenanthrene	Not detected	ug/L	2	SW8270C	09/25/13 20:29	PL	85-01-8	
Pyrene	Not detected	ug/L	5	SW8270C	09/25/13 20:29	PL	129-00-0	
2-Methylnaphthalene	Not detected	ug/L	5	SW8270C	09/25/13 20:29	PL	91-57-6	
1-Methylnaphthalene	Not detected	ug/L	5	SW8270C	09/25/13 20:29	PL	90-12-0	
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	10	SW8260B	09/27/13 16:40	WAT	60-29-7	
Acetone	Not detected	ug/L	50	SW8260B	09/27/13 16:40	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	SW8260B	09/27/13 16:40	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	SW8260B	09/27/13 16:40	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW8260B	09/27/13 16:40	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	SW8260B	09/27/13 16:40	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	SW8260B	09/27/13 16:40	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW8260B	09/27/13 16:40	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	SW8260B	09/27/13 16:40	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW8260B	09/27/13 16:40	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	SW8260B	09/27/13 16:40	WAT	74-83-9	

Lab Sample ID: S58205.03 (continued)
Sample Tag: MW-5 (091913)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Chloroethane	Not detected	ug/L	5	SW8260B	09/27/13 16:40	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260B	09/27/13 16:40	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260B	09/27/13 16:40	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	SW8260B	09/27/13 16:40	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	09/27/13 16:40	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260B	09/27/13 16:40	WAT	75-34-3	
cis-1,2-Dichloroethene	10	ug/L	1	SW8260B	09/27/13 16:40	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	SW8260B	09/27/13 16:40	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	SW8260B	09/27/13 16:40	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	SW8260B	09/27/13 16:40	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260B	09/27/13 16:40	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW8260B	09/27/13 16:40	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	SW8260B	09/27/13 16:40	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW8260B	09/27/13 16:40	WAT	56-23-5	
Benzene	Not detected	ug/L	1	SW8260B	09/27/13 16:40	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260B	09/27/13 16:40	WAT	107-06-2	
Trichloroethene	65	ug/L	1	SW8260B	09/27/13 16:40	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260B	09/27/13 16:40	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW8260B	09/27/13 16:40	WAT	75-27-4	
Dibromomethane	Not detected	ug/L	5	SW8260B	09/27/13 16:40	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	09/27/13 16:40	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	SW8260B	09/27/13 16:40	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	09/27/13 16:40	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260B	09/27/13 16:40	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW8260B	09/27/13 16:40	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW8260B	09/27/13 16:40	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	SW8260B	09/27/13 16:40	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260B	09/27/13 16:40	WAT	106-93-4	
Chlorobenzene	Not detected	ug/L	1	SW8260B	09/27/13 16:40	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	09/27/13 16:40	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	SW8260B	09/27/13 16:40	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	SW8260B	09/27/13 16:40	WAT		
o-Xylene	Not detected	ug/L	1	SW8260B	09/27/13 16:40	WAT	95-47-6	
Styrene	Not detected	ug/L	1	SW8260B	09/27/13 16:40	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	SW8260B	09/27/13 16:40	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	SW8260B	09/27/13 16:40	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	09/27/13 16:40	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	SW8260B	09/27/13 16:40	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	SW8260B	09/27/13 16:40	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	SW8260B	09/27/13 16:40	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW8260B	09/27/13 16:40	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	SW8260B	09/27/13 16:40	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW8260B	09/27/13 16:40	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	SW8260B	09/27/13 16:40	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	SW8260B	09/27/13 16:40	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260B	09/27/13 16:40	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260B	09/27/13 16:40	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260B	09/27/13 16:40	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW8260B	09/27/13 16:40	WAT	526-73-8	

Lab Sample ID: S58205.03 (continued)
Sample Tag: MW-5 (091913)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
n-Butylbenzene	Not detected	ug/L	1	SW8260B	09/27/13 16:40	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	SW8260B	09/27/13 16:40	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW8260B	09/27/13 16:40	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW8260B	09/27/13 16:40	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW8260B	09/27/13 16:40	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	SW8260B	09/27/13 16:40	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	SW8260B	09/27/13 16:40	WAT	91-57-6	

Analytical Laboratory Report

Lab Sample ID: S58205.04
Sample Tag: MW-27 (091913)
Collected Date/Time: 09/19/2013 12:25
Matrix: Groundwater
COC Reference: B0064486

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	1L Amber	None	Yes	5.8	IR
3	40ml Glass	HCL	Yes	5.8	IR
1	125ml Plastic	HNO3	Yes	5.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			3015A	10/03/13 11:00	CCM		
pH check for VOCs	<2	STD Units		N/A	09/30/13 10:25	LBR		
PNA Extraction	Completed			3510C	09/24/13 12:41	EMR		
Metals								
Lead, Dissolved	Not detected	mg/L	0.003	E200.8	10/03/13 15:36	CCM	7439-92-1	
Organics - Semi-Volatiles								
Polynuclear Aromatic Hydrocarbon								
Acenaphthene	Not detected	ug/L	5	SW8270C	09/25/13 20:51	PL	83-32-9	
Acenaphthylene	Not detected	ug/L	5	SW8270C	09/25/13 20:51	PL	208-96-8	
Anthracene	Not detected	ug/L	5	SW8270C	09/25/13 20:51	PL	120-12-7	
Benzo(a)anthracene	Not detected	ug/L	1	SW8270C	09/25/13 20:51	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/L	1	SW8270C	09/25/13 20:51	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/L	1	SW8270C	09/25/13 20:51	PL	205-99-2	
Benzo(k)fluoranthene	Not detected	ug/L	1	SW8270C	09/25/13 20:51	PL	207-08-9	
Benzo(ghi)perylene	Not detected	ug/L	1	SW8270C	09/25/13 20:51	PL	191-24-2	
Chrysene	Not detected	ug/L	1	SW8270C	09/25/13 20:51	PL	218-01-9	
Dibenzo(ah)anthracene	Not detected	ug/L	2	SW8270C	09/25/13 20:51	PL	53-70-3	
Fluoranthene	Not detected	ug/L	1	SW8270C	09/25/13 20:51	PL	206-44-0	
Fluorene	Not detected	ug/L	5	SW8270C	09/25/13 20:51	PL	86-73-7	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	2	SW8270C	09/25/13 20:51	PL	193-39-5	
Naphthalene	Not detected	ug/L	5	SW8270C	09/25/13 20:51	PL	91-20-3	
Phenanthrene	Not detected	ug/L	2	SW8270C	09/25/13 20:51	PL	85-01-8	
Pyrene	Not detected	ug/L	5	SW8270C	09/25/13 20:51	PL	129-00-0	
2-Methylnaphthalene	Not detected	ug/L	5	SW8270C	09/25/13 20:51	PL	91-57-6	
1-Methylnaphthalene	Not detected	ug/L	5	SW8270C	09/25/13 20:51	PL	90-12-0	
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	10	SW8260B	09/27/13 17:00	WAT	60-29-7	
Acetone	Not detected	ug/L	50	SW8260B	09/27/13 17:00	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	SW8260B	09/27/13 17:00	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	SW8260B	09/27/13 17:00	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW8260B	09/27/13 17:00	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	SW8260B	09/27/13 17:00	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	SW8260B	09/27/13 17:00	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW8260B	09/27/13 17:00	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	SW8260B	09/27/13 17:00	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW8260B	09/27/13 17:00	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	SW8260B	09/27/13 17:00	WAT	74-83-9	

Lab Sample ID: S58205.04 (continued)
Sample Tag: MW-27 (091913)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Chloroethane	Not detected	ug/L	5	SW8260B	09/27/13 17:00	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260B	09/27/13 17:00	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260B	09/27/13 17:00	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	SW8260B	09/27/13 17:00	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	09/27/13 17:00	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260B	09/27/13 17:00	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	09/27/13 17:00	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	SW8260B	09/27/13 17:00	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	SW8260B	09/27/13 17:00	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	SW8260B	09/27/13 17:00	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260B	09/27/13 17:00	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW8260B	09/27/13 17:00	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	SW8260B	09/27/13 17:00	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW8260B	09/27/13 17:00	WAT	56-23-5	
Benzene	Not detected	ug/L	1	SW8260B	09/27/13 17:00	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260B	09/27/13 17:00	WAT	107-06-2	
Trichloroethene	6	ug/L	1	SW8260B	09/27/13 17:00	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260B	09/27/13 17:00	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW8260B	09/27/13 17:00	WAT	75-27-4	
Dibromomethane	Not detected	ug/L	5	SW8260B	09/27/13 17:00	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	09/27/13 17:00	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	SW8260B	09/27/13 17:00	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	09/27/13 17:00	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260B	09/27/13 17:00	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW8260B	09/27/13 17:00	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW8260B	09/27/13 17:00	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	SW8260B	09/27/13 17:00	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260B	09/27/13 17:00	WAT	106-93-4	
Chlorobenzene	Not detected	ug/L	1	SW8260B	09/27/13 17:00	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	09/27/13 17:00	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	SW8260B	09/27/13 17:00	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	SW8260B	09/27/13 17:00	WAT		
o-Xylene	Not detected	ug/L	1	SW8260B	09/27/13 17:00	WAT	95-47-6	
Styrene	Not detected	ug/L	1	SW8260B	09/27/13 17:00	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	SW8260B	09/27/13 17:00	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	SW8260B	09/27/13 17:00	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	09/27/13 17:00	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	SW8260B	09/27/13 17:00	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	SW8260B	09/27/13 17:00	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	SW8260B	09/27/13 17:00	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW8260B	09/27/13 17:00	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	SW8260B	09/27/13 17:00	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW8260B	09/27/13 17:00	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	SW8260B	09/27/13 17:00	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	SW8260B	09/27/13 17:00	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260B	09/27/13 17:00	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260B	09/27/13 17:00	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260B	09/27/13 17:00	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW8260B	09/27/13 17:00	WAT	526-73-8	

Lab Sample ID: S58205.04 (continued)
Sample Tag: MW-27 (091913)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
n-Butylbenzene	Not detected	ug/L	1	SW8260B	09/27/13 17:00	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	SW8260B	09/27/13 17:00	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW8260B	09/27/13 17:00	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW8260B	09/27/13 17:00	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW8260B	09/27/13 17:00	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	SW8260B	09/27/13 17:00	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	SW8260B	09/27/13 17:00	WAT	91-57-6	

Analytical Laboratory Report

Lab Sample ID: S58205.05
Sample Tag: MW-12 (091913)
Collected Date/Time: 09/19/2013 12:55
Matrix: Groundwater
COC Reference: B0064486

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	1L Amber	None	Yes	5.8	IR
3	40ml Glass	HCL	Yes	5.8	IR
1	125ml Plastic	HNO3	Yes	5.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			3015A	10/03/13 11:00	CCM		
pH check for VOCs	<2	STD Units		N/A	09/30/13 10:25	LBR		
PNA Extraction	Completed			3510C	09/24/13 12:41	EMR		
Metals								
Lead, Dissolved	Not detected	mg/L	0.003	E200.8	10/03/13 15:37	CCM	7439-92-1	
Organics - Semi-Volatiles								
Polynuclear Aromatic Hydrocarbon								
Acenaphthene	Not detected	ug/L	5	SW8270C	09/25/13 21:14	PL	83-32-9	
Acenaphthylene	Not detected	ug/L	5	SW8270C	09/25/13 21:14	PL	208-96-8	
Anthracene	Not detected	ug/L	5	SW8270C	09/25/13 21:14	PL	120-12-7	
Benzo(a)anthracene	Not detected	ug/L	1	SW8270C	09/25/13 21:14	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/L	1	SW8270C	09/25/13 21:14	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/L	1	SW8270C	09/25/13 21:14	PL	205-99-2	
Benzo(k)fluoranthene	Not detected	ug/L	1	SW8270C	09/25/13 21:14	PL	207-08-9	
Benzo(ghi)perylene	Not detected	ug/L	1	SW8270C	09/25/13 21:14	PL	191-24-2	
Chrysene	Not detected	ug/L	1	SW8270C	09/25/13 21:14	PL	218-01-9	
Dibenzo(ah)anthracene	Not detected	ug/L	2	SW8270C	09/25/13 21:14	PL	53-70-3	
Fluoranthene	Not detected	ug/L	1	SW8270C	09/25/13 21:14	PL	206-44-0	
Fluorene	Not detected	ug/L	5	SW8270C	09/25/13 21:14	PL	86-73-7	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	2	SW8270C	09/25/13 21:14	PL	193-39-5	
Naphthalene	Not detected	ug/L	5	SW8270C	09/25/13 21:14	PL	91-20-3	
Phenanthrene	Not detected	ug/L	2	SW8270C	09/25/13 21:14	PL	85-01-8	
Pyrene	Not detected	ug/L	5	SW8270C	09/25/13 21:14	PL	129-00-0	
2-Methylnaphthalene	Not detected	ug/L	5	SW8270C	09/25/13 21:14	PL	91-57-6	
1-Methylnaphthalene	Not detected	ug/L	5	SW8270C	09/25/13 21:14	PL	90-12-0	
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	10	SW8260B	09/27/13 17:20	WAT	60-29-7	
Acetone	Not detected	ug/L	50	SW8260B	09/27/13 17:20	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	SW8260B	09/27/13 17:20	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	SW8260B	09/27/13 17:20	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW8260B	09/27/13 17:20	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	SW8260B	09/27/13 17:20	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	SW8260B	09/27/13 17:20	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW8260B	09/27/13 17:20	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	SW8260B	09/27/13 17:20	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW8260B	09/27/13 17:20	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	SW8260B	09/27/13 17:20	WAT	74-83-9	

Lab Sample ID: S58205.05 (continued)
Sample Tag: MW-12 (091913)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Chloroethane	Not detected	ug/L	5	SW8260B	09/27/13 17:20	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260B	09/27/13 17:20	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260B	09/27/13 17:20	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	SW8260B	09/27/13 17:20	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	09/27/13 17:20	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260B	09/27/13 17:20	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	09/27/13 17:20	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	SW8260B	09/27/13 17:20	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	SW8260B	09/27/13 17:20	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	SW8260B	09/27/13 17:20	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260B	09/27/13 17:20	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW8260B	09/27/13 17:20	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	SW8260B	09/27/13 17:20	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW8260B	09/27/13 17:20	WAT	56-23-5	
Benzene	Not detected	ug/L	1	SW8260B	09/27/13 17:20	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260B	09/27/13 17:20	WAT	107-06-2	
Trichloroethene	8	ug/L	1	SW8260B	09/27/13 17:20	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260B	09/27/13 17:20	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW8260B	09/27/13 17:20	WAT	75-27-4	
Dibromomethane	Not detected	ug/L	5	SW8260B	09/27/13 17:20	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	09/27/13 17:20	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	SW8260B	09/27/13 17:20	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	09/27/13 17:20	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260B	09/27/13 17:20	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW8260B	09/27/13 17:20	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW8260B	09/27/13 17:20	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	SW8260B	09/27/13 17:20	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260B	09/27/13 17:20	WAT	106-93-4	
Chlorobenzene	Not detected	ug/L	1	SW8260B	09/27/13 17:20	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	09/27/13 17:20	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	SW8260B	09/27/13 17:20	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	SW8260B	09/27/13 17:20	WAT		
o-Xylene	Not detected	ug/L	1	SW8260B	09/27/13 17:20	WAT	95-47-6	
Styrene	Not detected	ug/L	1	SW8260B	09/27/13 17:20	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	SW8260B	09/27/13 17:20	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	SW8260B	09/27/13 17:20	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	09/27/13 17:20	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	SW8260B	09/27/13 17:20	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	SW8260B	09/27/13 17:20	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	SW8260B	09/27/13 17:20	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW8260B	09/27/13 17:20	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	SW8260B	09/27/13 17:20	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW8260B	09/27/13 17:20	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	SW8260B	09/27/13 17:20	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	SW8260B	09/27/13 17:20	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260B	09/27/13 17:20	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260B	09/27/13 17:20	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260B	09/27/13 17:20	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW8260B	09/27/13 17:20	WAT	526-73-8	

Lab Sample ID: S58205.05 (continued)
Sample Tag: MW-12 (091913)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
n-Butylbenzene	Not detected	ug/L	1	SW8260B	09/27/13 17:20	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	SW8260B	09/27/13 17:20	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW8260B	09/27/13 17:20	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW8260B	09/27/13 17:20	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW8260B	09/27/13 17:20	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	SW8260B	09/27/13 17:20	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	SW8260B	09/27/13 17:20	WAT	91-57-6	

Analytical Laboratory Report

Lab Sample ID: S58205.06
Sample Tag: MW-26 (091913)
Collected Date/Time: 09/19/2013 13:30
Matrix: Groundwater
COC Reference: B0064486

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	1L Amber	None	Yes	5.8	IR
3	40ml Glass	HCL	Yes	5.8	IR
1	125ml Plastic	HNO3	Yes	5.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			3015A	10/03/13 11:00	CCM		
pH check for VOCs	<2	STD Units		N/A	09/30/13 10:25	LBR		
PNA Extraction	Completed			3510C	09/24/13 12:41	EMR		
Metals								
Lead, Dissolved	Not detected	mg/L	0.003	E200.8	10/03/13 15:39	CCM	7439-92-1	
Organics - Semi-Volatiles								
Polynuclear Aromatic Hydrocarbon								
Acenaphthene	Not detected	ug/L	5	SW8270C	09/25/13 21:36	PL	83-32-9	
Acenaphthylene	Not detected	ug/L	5	SW8270C	09/25/13 21:36	PL	208-96-8	
Anthracene	Not detected	ug/L	5	SW8270C	09/25/13 21:36	PL	120-12-7	
Benzo(a)anthracene	Not detected	ug/L	1	SW8270C	09/25/13 21:36	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/L	1	SW8270C	09/25/13 21:36	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/L	1	SW8270C	09/25/13 21:36	PL	205-99-2	
Benzo(k)fluoranthene	Not detected	ug/L	1	SW8270C	09/25/13 21:36	PL	207-08-9	
Benzo(ghi)perylene	Not detected	ug/L	1	SW8270C	09/25/13 21:36	PL	191-24-2	
Chrysene	Not detected	ug/L	1	SW8270C	09/25/13 21:36	PL	218-01-9	
Dibenzo(ah)anthracene	Not detected	ug/L	2	SW8270C	09/25/13 21:36	PL	53-70-3	
Fluoranthene	Not detected	ug/L	1	SW8270C	09/25/13 21:36	PL	206-44-0	
Fluorene	Not detected	ug/L	5	SW8270C	09/25/13 21:36	PL	86-73-7	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	2	SW8270C	09/25/13 21:36	PL	193-39-5	
Naphthalene	Not detected	ug/L	5	SW8270C	09/25/13 21:36	PL	91-20-3	
Phenanthrene	Not detected	ug/L	2	SW8270C	09/25/13 21:36	PL	85-01-8	
Pyrene	Not detected	ug/L	5	SW8270C	09/25/13 21:36	PL	129-00-0	
2-Methylnaphthalene	Not detected	ug/L	5	SW8270C	09/25/13 21:36	PL	91-57-6	
1-Methylnaphthalene	Not detected	ug/L	5	SW8270C	09/25/13 21:36	PL	90-12-0	
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	1,000	SW8260B	10/01/13 20:54	WAT	60-29-7	Y
Acetone	Not detected	ug/L	5,000	SW8260B	10/01/13 20:54	WAT	67-64-1	Y
Methyl iodide	Not detected	ug/L	100	SW8260B	10/01/13 20:54	WAT	74-88-4	Y
Carbon disulfide	Not detected	ug/L	500	SW8260B	10/01/13 20:54	WAT	75-15-0	Y
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	500	SW8260B	10/01/13 20:54	WAT	1634-04-4	Y
Acrylonitrile	Not detected	ug/L	200	SW8260B	10/01/13 20:54	WAT	107-13-1	Y
2-Butanone (MEK)	Not detected	ug/L	2,500	SW8260B	10/01/13 20:54	WAT	78-93-3	Y
Dichlorodifluoromethane	Not detected	ug/L	500	SW8260B	10/01/13 20:54	WAT	75-71-8	Y
Chloromethane	Not detected	ug/L	500	SW8260B	10/01/13 20:54	WAT	74-87-3	Y
Vinyl chloride	Not detected	ug/L	100	SW8260B	10/01/13 20:54	WAT	75-01-4	Y

Y-Elevated reporting limit due to high target concentration

Lab Sample ID: S58205.06 (continued)
Sample Tag: MW-26 (091913)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Bromomethane	Not detected	ug/L	500	SW8260B	10/01/13 20:54	WAT	74-83-9	Y
Chloroethane	Not detected	ug/L	500	SW8260B	10/01/13 20:54	WAT	75-00-3	Y
Trichlorofluoromethane	Not detected	ug/L	100	SW8260B	10/01/13 20:54	WAT	75-69-4	Y
1,1-Dichloroethene	Not detected	ug/L	100	SW8260B	10/01/13 20:54	WAT	75-35-4	Y
Methylene chloride	Not detected	ug/L	500	SW8260B	10/01/13 20:54	WAT	75-09-2	Y
trans-1,2-Dichloroethene	Not detected	ug/L	100	SW8260B	10/01/13 20:54	WAT	156-60-5	Y
1,1-Dichloroethane	Not detected	ug/L	100	SW8260B	10/01/13 20:54	WAT	75-34-3	Y
cis-1,2-Dichloroethene	Not detected	ug/L	100	SW8260B	10/01/13 20:54	WAT	156-59-2	Y
Tetrahydrofuran	Not detected	ug/L	9,000	SW8260B	10/01/13 20:54	WAT	109-99-9	Y
Chloroform	Not detected	ug/L	100	SW8260B	10/01/13 20:54	WAT	67-66-3	Y
Bromochloromethane	Not detected	ug/L	100	SW8260B	10/01/13 20:54	WAT	74-97-5	Y
1,1,1-Trichloroethane	Not detected	ug/L	100	SW8260B	10/01/13 20:54	WAT	71-55-6	Y
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	5,000	SW8260B	10/01/13 20:54	WAT	108-10-1	Y
2-Hexanone	Not detected	ug/L	5,000	SW8260B	10/01/13 20:54	WAT	591-78-6	Y
Carbon tetrachloride	Not detected	ug/L	100	SW8260B	10/01/13 20:54	WAT	56-23-5	Y
Benzene	2,600	ug/L	100	SW8260B	10/01/13 20:54	WAT	71-43-2	Y
1,2-Dichloroethane	Not detected	ug/L	100	SW8260B	10/01/13 20:54	WAT	107-06-2	Y
Trichloroethene	Not detected	ug/L	100	SW8260B	10/01/13 20:54	WAT	79-01-6	Y
1,2-Dichloropropane	Not detected	ug/L	100	SW8260B	10/01/13 20:54	WAT	78-87-5	Y
Bromodichloromethane	Not detected	ug/L	100	SW8260B	10/01/13 20:54	WAT	75-27-4	Y
Dibromomethane	Not detected	ug/L	500	SW8260B	10/01/13 20:54	WAT	74-95-3	Y
cis-1,3-Dichloropropene	Not detected	ug/L	100	SW8260B	10/01/13 20:54	WAT	10061-01-5	Y
Toluene	Not detected	ug/L	100	SW8260B	10/01/13 20:54	WAT	108-88-3	Y
trans-1,3-Dichloropropene	Not detected	ug/L	100	SW8260B	10/01/13 20:54	WAT	10061-02-6	Y
1,1,2-Trichloroethane	Not detected	ug/L	100	SW8260B	10/01/13 20:54	WAT	79-00-5	Y
Tetrachloroethene	Not detected	ug/L	100	SW8260B	10/01/13 20:54	WAT	127-18-4	Y
trans-1,4-Dichloro-2-butene	Not detected	ug/L	100	SW8260B	10/01/13 20:54	WAT	110-57-6	Y
Dibromochloromethane	Not detected	ug/L	500	SW8260B	10/01/13 20:54	WAT	124-48-1	Y
1,2-Dibromoethane	Not detected	ug/L	100	SW8260B	10/01/13 20:54	WAT	106-93-4	Y
Chlorobenzene	Not detected	ug/L	100	SW8260B	10/01/13 20:54	WAT	108-90-7	Y
1,1,1,2-Tetrachloroethane	Not detected	ug/L	100	SW8260B	10/01/13 20:54	WAT	630-20-6	Y
Ethylbenzene	Not detected	ug/L	100	SW8260B	10/01/13 20:54	WAT	100-41-4	Y
p,m-Xylene	Not detected	ug/L	200	SW8260B	10/01/13 20:54	WAT		Y
o-Xylene	Not detected	ug/L	100	SW8260B	10/01/13 20:54	WAT	95-47-6	Y
Styrene	Not detected	ug/L	100	SW8260B	10/01/13 20:54	WAT	100-42-5	Y
Isopropylbenzene	Not detected	ug/L	500	SW8260B	10/01/13 20:54	WAT	98-82-8	Y
Bromoform	Not detected	ug/L	100	SW8260B	10/01/13 20:54	WAT	75-25-2	Y
1,1,2,2-Tetrachloroethane	Not detected	ug/L	100	SW8260B	10/01/13 20:54	WAT	79-34-5	Y
1,2,3-Trichloropropane	Not detected	ug/L	100	SW8260B	10/01/13 20:54	WAT	96-18-4	Y
n-Propylbenzene	Not detected	ug/L	100	SW8260B	10/01/13 20:54	WAT	103-65-1	Y
Bromobenzene	Not detected	ug/L	100	SW8260B	10/01/13 20:54	WAT	108-86-1	Y
1,3,5-Trimethylbenzene	Not detected	ug/L	100	SW8260B	10/01/13 20:54	WAT	108-67-8	Y
tert-Butylbenzene	Not detected	ug/L	100	SW8260B	10/01/13 20:54	WAT	98-06-6	Y
1,2,4-Trimethylbenzene	Not detected	ug/L	100	SW8260B	10/01/13 20:54	WAT	95-63-6	Y
sec-Butylbenzene	Not detected	ug/L	100	SW8260B	10/01/13 20:54	WAT	135-98-8	Y
p-Isopropyltoluene	Not detected	ug/L	500	SW8260B	10/01/13 20:54	WAT	99-87-6	Y
1,3-Dichlorobenzene	Not detected	ug/L	100	SW8260B	10/01/13 20:54	WAT	541-73-1	Y
1,4-Dichlorobenzene	Not detected	ug/L	100	SW8260B	10/01/13 20:54	WAT	106-46-7	Y

Y-Elevated reporting limit due to high target concentration

Lab Sample ID: S58205.06 (continued)
Sample Tag: MW-26 (091913)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
1,2-Dichlorobenzene	Not detected	ug/L	100	SW8260B	10/01/13 20:54	WAT	95-50-1	Y
1,2,3-Trimethylbenzene	Not detected	ug/L	100	SW8260B	10/01/13 20:54	WAT	526-73-8	Y
n-Butylbenzene	Not detected	ug/L	100	SW8260B	10/01/13 20:54	WAT	104-51-8	Y
Hexachloroethane	Not detected	ug/L	500	SW8260B	10/01/13 20:54	WAT	67-72-1	Y
1,2-Dibromo-3-chloropropane	Not detected	ug/L	500	SW8260B	10/01/13 20:54	WAT	96-12-8	Y
1,2,4-Trichlorobenzene	Not detected	ug/L	500	SW8260B	10/01/13 20:54	WAT	120-82-1	Y
1,2,3-Trichlorobenzene	Not detected	ug/L	500	SW8260B	10/01/13 20:54	WAT	87-61-6	Y
Naphthalene	Not detected	ug/L	500	SW8260B	10/01/13 20:54	WAT	91-20-3	Y
2-Methylnaphthalene	Not detected	ug/L	500	SW8260B	10/01/13 20:54	WAT	91-57-6	Y

Y-Elevated reporting limit due to high target concentration

Analytical Laboratory Report

Lab Sample ID: S58205.07
Sample Tag: MW-21 (091913)
Collected Date/Time: 09/19/2013 14:20
Matrix: Groundwater
COC Reference: B0064486

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	1L Amber	None	Yes	5.8	IR
3	40ml Glass	HCL	Yes	5.8	IR
1	125ml Plastic	HNO3	Yes	5.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			3015A	10/03/13 11:00	CCM		
pH check for VOCs	<2	STD Units		N/A	09/30/13 10:25	LBR		
PNA Extraction	Completed			3510C	09/26/13 12:22	EMR		
Metals								
Lead, Dissolved	Not detected	mg/L	0.003	E200.8	10/03/13 15:41	CCM	7439-92-1	
Organics - Semi-Volatiles								
Polynuclear Aromatic Hydrocarbon								
Acenaphthene	Not detected	ug/L	5	SW8270C	09/27/13 17:27	PL	83-32-9	
Acenaphthylene	Not detected	ug/L	5	SW8270C	09/27/13 17:27	PL	208-96-8	
Anthracene	Not detected	ug/L	5	SW8270C	09/27/13 17:27	PL	120-12-7	
Benzo(a)anthracene	Not detected	ug/L	1	SW8270C	09/27/13 17:27	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/L	1	SW8270C	09/27/13 17:27	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/L	1	SW8270C	09/27/13 17:27	PL	205-99-2	
Benzo(k)fluoranthene	Not detected	ug/L	1	SW8270C	09/27/13 17:27	PL	207-08-9	
Benzo(ghi)perylene	Not detected	ug/L	1	SW8270C	09/27/13 17:27	PL	191-24-2	
Chrysene	Not detected	ug/L	1	SW8270C	09/27/13 17:27	PL	218-01-9	
Dibenzo(ah)anthracene	Not detected	ug/L	2	SW8270C	09/27/13 17:27	PL	53-70-3	
Fluoranthene	Not detected	ug/L	1	SW8270C	09/27/13 17:27	PL	206-44-0	
Fluorene	Not detected	ug/L	5	SW8270C	09/27/13 17:27	PL	86-73-7	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	2	SW8270C	09/27/13 17:27	PL	193-39-5	
Naphthalene	Not detected	ug/L	5	SW8270C	09/27/13 17:27	PL	91-20-3	
Phenanthrene	Not detected	ug/L	2	SW8270C	09/27/13 17:27	PL	85-01-8	
Pyrene	Not detected	ug/L	5	SW8270C	09/27/13 17:27	PL	129-00-0	
2-Methylnaphthalene	Not detected	ug/L	5	SW8270C	09/27/13 17:27	PL	91-57-6	
1-Methylnaphthalene	Not detected	ug/L	5	SW8270C	09/27/13 17:27	PL	90-12-0	
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	10	SW8260B	09/27/13 17:40	WAT	60-29-7	
Acetone	Not detected	ug/L	50	SW8260B	09/27/13 17:40	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	SW8260B	09/27/13 17:40	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	SW8260B	09/27/13 17:40	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW8260B	09/27/13 17:40	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	SW8260B	09/27/13 17:40	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	SW8260B	09/27/13 17:40	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW8260B	09/27/13 17:40	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	SW8260B	09/27/13 17:40	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW8260B	09/27/13 17:40	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	SW8260B	09/27/13 17:40	WAT	74-83-9	

Lab Sample ID: S58205.07 (continued)
Sample Tag: MW-21 (091913)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Chloroethane	Not detected	ug/L	5	SW8260B	09/27/13 17:40	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260B	09/27/13 17:40	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260B	09/27/13 17:40	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	SW8260B	09/27/13 17:40	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	09/27/13 17:40	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260B	09/27/13 17:40	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	09/27/13 17:40	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	SW8260B	09/27/13 17:40	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	SW8260B	09/27/13 17:40	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	SW8260B	09/27/13 17:40	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260B	09/27/13 17:40	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW8260B	09/27/13 17:40	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	SW8260B	09/27/13 17:40	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW8260B	09/27/13 17:40	WAT	56-23-5	
Benzene	Not detected	ug/L	1	SW8260B	09/27/13 17:40	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260B	09/27/13 17:40	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW8260B	09/27/13 17:40	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260B	09/27/13 17:40	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW8260B	09/27/13 17:40	WAT	75-27-4	
Dibromomethane	Not detected	ug/L	5	SW8260B	09/27/13 17:40	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	09/27/13 17:40	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	SW8260B	09/27/13 17:40	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	09/27/13 17:40	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260B	09/27/13 17:40	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW8260B	09/27/13 17:40	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW8260B	09/27/13 17:40	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	SW8260B	09/27/13 17:40	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260B	09/27/13 17:40	WAT	106-93-4	
Chlorobenzene	Not detected	ug/L	1	SW8260B	09/27/13 17:40	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	09/27/13 17:40	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	SW8260B	09/27/13 17:40	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	SW8260B	09/27/13 17:40	WAT		
o-Xylene	Not detected	ug/L	1	SW8260B	09/27/13 17:40	WAT	95-47-6	
Styrene	Not detected	ug/L	1	SW8260B	09/27/13 17:40	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	SW8260B	09/27/13 17:40	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	SW8260B	09/27/13 17:40	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	09/27/13 17:40	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	SW8260B	09/27/13 17:40	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	SW8260B	09/27/13 17:40	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	SW8260B	09/27/13 17:40	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW8260B	09/27/13 17:40	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	SW8260B	09/27/13 17:40	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW8260B	09/27/13 17:40	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	SW8260B	09/27/13 17:40	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	SW8260B	09/27/13 17:40	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260B	09/27/13 17:40	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260B	09/27/13 17:40	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260B	09/27/13 17:40	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW8260B	09/27/13 17:40	WAT	526-73-8	

Lab Sample ID: S58205.07 (continued)
Sample Tag: MW-21 (091913)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
n-Butylbenzene	Not detected	ug/L	1	SW8260B	09/27/13 17:40	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	SW8260B	09/27/13 17:40	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW8260B	09/27/13 17:40	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW8260B	09/27/13 17:40	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW8260B	09/27/13 17:40	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	SW8260B	09/27/13 17:40	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	SW8260B	09/27/13 17:40	WAT	91-57-6	

Analytical Laboratory Report

Lab Sample ID: S58205.08
Sample Tag: MW-25 (091913)
Collected Date/Time: 09/19/2013 14:55
Matrix: Groundwater
COC Reference: B0064486

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	1L Amber	None	Yes	5.8	IR
3	40ml Glass	HCL	Yes	5.8	IR
1	125ml Plastic	HNO3	Yes	5.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			3015A	10/03/13 11:00	CCM		
pH check for VOCs	<2	STD Units		N/A	09/30/13 10:25	LBR		
PNA Extraction	Completed			3510C	09/26/13 12:22	EMR		
Metals								
Lead, Dissolved	Not detected	mg/L	0.003	E200.8	10/03/13 15:43	CCM	7439-92-1	
Organics - Semi-Volatiles								
Polynuclear Aromatic Hydrocarbon								
Acenaphthene	Not detected	ug/L	5	SW8270C	09/27/13 17:46	PL	83-32-9	
Acenaphthylene	Not detected	ug/L	5	SW8270C	09/27/13 17:46	PL	208-96-8	
Anthracene	Not detected	ug/L	5	SW8270C	09/27/13 17:46	PL	120-12-7	
Benzo(a)anthracene	Not detected	ug/L	1	SW8270C	09/27/13 17:46	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/L	1	SW8270C	09/27/13 17:46	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/L	1	SW8270C	09/27/13 17:46	PL	205-99-2	
Benzo(k)fluoranthene	Not detected	ug/L	1	SW8270C	09/27/13 17:46	PL	207-08-9	
Benzo(ghi)perylene	Not detected	ug/L	1	SW8270C	09/27/13 17:46	PL	191-24-2	
Chrysene	Not detected	ug/L	1	SW8270C	09/27/13 17:46	PL	218-01-9	
Dibenzo(ah)anthracene	Not detected	ug/L	2	SW8270C	09/27/13 17:46	PL	53-70-3	
Fluoranthene	Not detected	ug/L	1	SW8270C	09/27/13 17:46	PL	206-44-0	
Fluorene	Not detected	ug/L	5	SW8270C	09/27/13 17:46	PL	86-73-7	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	2	SW8270C	09/27/13 17:46	PL	193-39-5	
Naphthalene	Not detected	ug/L	5	SW8270C	09/27/13 17:46	PL	91-20-3	
Phenanthrene	Not detected	ug/L	2	SW8270C	09/27/13 17:46	PL	85-01-8	
Pyrene	Not detected	ug/L	5	SW8270C	09/27/13 17:46	PL	129-00-0	
2-Methylnaphthalene	Not detected	ug/L	5	SW8270C	09/27/13 17:46	PL	91-57-6	
1-Methylnaphthalene	Not detected	ug/L	5	SW8270C	09/27/13 17:46	PL	90-12-0	
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	10	SW8260B	09/27/13 18:00	WAT	60-29-7	
Acetone	Not detected	ug/L	50	SW8260B	09/27/13 18:00	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	SW8260B	09/27/13 18:00	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	SW8260B	09/27/13 18:00	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW8260B	09/27/13 18:00	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	SW8260B	09/27/13 18:00	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	SW8260B	09/27/13 18:00	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW8260B	09/27/13 18:00	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	SW8260B	09/27/13 18:00	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW8260B	09/27/13 18:00	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	SW8260B	09/27/13 18:00	WAT	74-83-9	

Lab Sample ID: S58205.08 (continued)
Sample Tag: MW-25 (091913)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Chloroethane	Not detected	ug/L	5	SW8260B	09/27/13 18:00	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260B	09/27/13 18:00	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260B	09/27/13 18:00	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	SW8260B	09/27/13 18:00	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	09/27/13 18:00	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260B	09/27/13 18:00	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	09/27/13 18:00	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	SW8260B	09/27/13 18:00	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	SW8260B	09/27/13 18:00	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	SW8260B	09/27/13 18:00	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260B	09/27/13 18:00	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW8260B	09/27/13 18:00	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	SW8260B	09/27/13 18:00	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW8260B	09/27/13 18:00	WAT	56-23-5	
Benzene	Not detected	ug/L	1	SW8260B	09/27/13 18:00	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260B	09/27/13 18:00	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW8260B	09/27/13 18:00	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260B	09/27/13 18:00	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW8260B	09/27/13 18:00	WAT	75-27-4	
Dibromomethane	Not detected	ug/L	5	SW8260B	09/27/13 18:00	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	09/27/13 18:00	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	SW8260B	09/27/13 18:00	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	09/27/13 18:00	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260B	09/27/13 18:00	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW8260B	09/27/13 18:00	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW8260B	09/27/13 18:00	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	SW8260B	09/27/13 18:00	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260B	09/27/13 18:00	WAT	106-93-4	
Chlorobenzene	Not detected	ug/L	1	SW8260B	09/27/13 18:00	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	09/27/13 18:00	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	SW8260B	09/27/13 18:00	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	SW8260B	09/27/13 18:00	WAT		
o-Xylene	Not detected	ug/L	1	SW8260B	09/27/13 18:00	WAT	95-47-6	
Styrene	Not detected	ug/L	1	SW8260B	09/27/13 18:00	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	SW8260B	09/27/13 18:00	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	SW8260B	09/27/13 18:00	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	09/27/13 18:00	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	SW8260B	09/27/13 18:00	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	SW8260B	09/27/13 18:00	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	SW8260B	09/27/13 18:00	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW8260B	09/27/13 18:00	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	SW8260B	09/27/13 18:00	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW8260B	09/27/13 18:00	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	SW8260B	09/27/13 18:00	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	SW8260B	09/27/13 18:00	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260B	09/27/13 18:00	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260B	09/27/13 18:00	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260B	09/27/13 18:00	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW8260B	09/27/13 18:00	WAT	526-73-8	

Lab Sample ID: S58205.08 (continued)
Sample Tag: MW-25 (091913)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
n-Butylbenzene	Not detected	ug/L	1	SW8260B	09/27/13 18:00	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	SW8260B	09/27/13 18:00	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW8260B	09/27/13 18:00	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW8260B	09/27/13 18:00	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW8260B	09/27/13 18:00	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	SW8260B	09/27/13 18:00	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	SW8260B	09/27/13 18:00	WAT	91-57-6	

Analytical Laboratory Report

Lab Sample ID: S58205.09
Sample Tag: MW-22 (091913)
Collected Date/Time: 09/19/2013 15:30
Matrix: Groundwater
COC Reference: B0064486

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	1L Amber	None	Yes	5.8	IR
3	40ml Glass	HCL	Yes	5.8	IR
1	125ml Plastic	HNO3	Yes	5.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			3015A	10/03/13 11:00	CCM		
pH check for VOCs	<2	STD Units		N/A	09/30/13 10:25	LBR		
PNA Extraction	Completed			3510C	09/26/13 12:22	EMR		
Metals								
Lead, Dissolved	Not detected	mg/L	0.003	E200.8	10/03/13 15:44	CCM	7439-92-1	
Organics - Semi-Volatiles								
Polynuclear Aromatic Hydrocarbon								
Acenaphthene	Not detected	ug/L	5	SW8270C	09/27/13 18:05	PL	83-32-9	
Acenaphthylene	Not detected	ug/L	5	SW8270C	09/27/13 18:05	PL	208-96-8	
Anthracene	Not detected	ug/L	5	SW8270C	09/27/13 18:05	PL	120-12-7	
Benzo(a)anthracene	Not detected	ug/L	1	SW8270C	09/27/13 18:05	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/L	1	SW8270C	09/27/13 18:05	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/L	1	SW8270C	09/27/13 18:05	PL	205-99-2	
Benzo(k)fluoranthene	Not detected	ug/L	1	SW8270C	09/27/13 18:05	PL	207-08-9	
Benzo(ghi)perylene	Not detected	ug/L	1	SW8270C	09/27/13 18:05	PL	191-24-2	
Chrysene	Not detected	ug/L	1	SW8270C	09/27/13 18:05	PL	218-01-9	
Dibenzo(ah)anthracene	Not detected	ug/L	2	SW8270C	09/27/13 18:05	PL	53-70-3	
Fluoranthene	Not detected	ug/L	1	SW8270C	09/27/13 18:05	PL	206-44-0	
Fluorene	Not detected	ug/L	5	SW8270C	09/27/13 18:05	PL	86-73-7	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	2	SW8270C	09/27/13 18:05	PL	193-39-5	
Naphthalene	Not detected	ug/L	5	SW8270C	09/27/13 18:05	PL	91-20-3	
Phenanthrene	Not detected	ug/L	2	SW8270C	09/27/13 18:05	PL	85-01-8	
Pyrene	Not detected	ug/L	5	SW8270C	09/27/13 18:05	PL	129-00-0	
2-Methylnaphthalene	Not detected	ug/L	5	SW8270C	09/27/13 18:05	PL	91-57-6	
1-Methylnaphthalene	Not detected	ug/L	5	SW8270C	09/27/13 18:05	PL	90-12-0	
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	10	SW8260B	09/27/13 18:21	WAT	60-29-7	
Acetone	Not detected	ug/L	50	SW8260B	09/27/13 18:21	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	SW8260B	09/27/13 18:21	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	SW8260B	09/27/13 18:21	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW8260B	09/27/13 18:21	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	SW8260B	09/27/13 18:21	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	SW8260B	09/27/13 18:21	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW8260B	09/27/13 18:21	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	SW8260B	09/27/13 18:21	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW8260B	09/27/13 18:21	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	SW8260B	09/27/13 18:21	WAT	74-83-9	

Lab Sample ID: S58205.09 (continued)
Sample Tag: MW-22 (091913)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Chloroethane	Not detected	ug/L	5	SW8260B	09/27/13 18:21	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260B	09/27/13 18:21	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260B	09/27/13 18:21	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	SW8260B	09/27/13 18:21	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	09/27/13 18:21	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260B	09/27/13 18:21	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	09/27/13 18:21	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	SW8260B	09/27/13 18:21	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	SW8260B	09/27/13 18:21	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	SW8260B	09/27/13 18:21	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260B	09/27/13 18:21	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW8260B	09/27/13 18:21	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	SW8260B	09/27/13 18:21	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW8260B	09/27/13 18:21	WAT	56-23-5	
Benzene	Not detected	ug/L	1	SW8260B	09/27/13 18:21	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260B	09/27/13 18:21	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW8260B	09/27/13 18:21	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260B	09/27/13 18:21	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW8260B	09/27/13 18:21	WAT	75-27-4	
Dibromomethane	Not detected	ug/L	5	SW8260B	09/27/13 18:21	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	09/27/13 18:21	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	SW8260B	09/27/13 18:21	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	09/27/13 18:21	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260B	09/27/13 18:21	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW8260B	09/27/13 18:21	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW8260B	09/27/13 18:21	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	SW8260B	09/27/13 18:21	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260B	09/27/13 18:21	WAT	106-93-4	
Chlorobenzene	Not detected	ug/L	1	SW8260B	09/27/13 18:21	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	09/27/13 18:21	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	SW8260B	09/27/13 18:21	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	SW8260B	09/27/13 18:21	WAT		
o-Xylene	Not detected	ug/L	1	SW8260B	09/27/13 18:21	WAT	95-47-6	
Styrene	Not detected	ug/L	1	SW8260B	09/27/13 18:21	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	SW8260B	09/27/13 18:21	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	SW8260B	09/27/13 18:21	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	09/27/13 18:21	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	SW8260B	09/27/13 18:21	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	SW8260B	09/27/13 18:21	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	SW8260B	09/27/13 18:21	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW8260B	09/27/13 18:21	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	SW8260B	09/27/13 18:21	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW8260B	09/27/13 18:21	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	SW8260B	09/27/13 18:21	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	SW8260B	09/27/13 18:21	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260B	09/27/13 18:21	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260B	09/27/13 18:21	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260B	09/27/13 18:21	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW8260B	09/27/13 18:21	WAT	526-73-8	

Lab Sample ID: S58205.09 (continued)
Sample Tag: MW-22 (091913)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
n-Butylbenzene	Not detected	ug/L	1	SW8260B	09/27/13 18:21	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	SW8260B	09/27/13 18:21	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW8260B	09/27/13 18:21	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW8260B	09/27/13 18:21	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW8260B	09/27/13 18:21	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	SW8260B	09/27/13 18:21	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	SW8260B	09/27/13 18:21	WAT	91-57-6	

Analytical Laboratory Report

Lab Sample ID: S58205.10
Sample Tag: MW-19 (091913)
Collected Date/Time: 09/19/2013 16:15
Matrix: Groundwater
COC Reference: B0064486

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	1L Amber	None	Yes	5.8	IR
3	40ml Glass	HCL	Yes	5.8	IR
1	125ml Plastic	HNO3	Yes	5.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			3015A	10/03/13 11:00	CCM		
pH check for VOCs	<2	STD Units		N/A	09/30/13 10:25	LBR		
PNA Extraction	Completed			3510C	09/26/13 12:22	EMR		
Metals								
Lead, Dissolved	Not detected	mg/L	0.003	E200.8	10/03/13 15:46	CCM	7439-92-1	
Organics - Semi-Volatiles								
Polynuclear Aromatic Hydrocarbon								
Acenaphthene	Not detected	ug/L	5	SW8270C	09/27/13 18:25	PL	83-32-9	
Acenaphthylene	Not detected	ug/L	5	SW8270C	09/27/13 18:25	PL	208-96-8	
Anthracene	Not detected	ug/L	5	SW8270C	09/27/13 18:25	PL	120-12-7	
Benzo(a)anthracene	Not detected	ug/L	1	SW8270C	09/27/13 18:25	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/L	1	SW8270C	09/27/13 18:25	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/L	1	SW8270C	09/27/13 18:25	PL	205-99-2	
Benzo(k)fluoranthene	Not detected	ug/L	1	SW8270C	09/27/13 18:25	PL	207-08-9	
Benzo(ghi)perylene	Not detected	ug/L	1	SW8270C	09/27/13 18:25	PL	191-24-2	
Chrysene	Not detected	ug/L	1	SW8270C	09/27/13 18:25	PL	218-01-9	
Dibenzo(ah)anthracene	Not detected	ug/L	2	SW8270C	09/27/13 18:25	PL	53-70-3	
Fluoranthene	Not detected	ug/L	1	SW8270C	09/27/13 18:25	PL	206-44-0	
Fluorene	Not detected	ug/L	5	SW8270C	09/27/13 18:25	PL	86-73-7	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	2	SW8270C	09/27/13 18:25	PL	193-39-5	
Naphthalene	Not detected	ug/L	5	SW8270C	09/27/13 18:25	PL	91-20-3	
Phenanthrene	Not detected	ug/L	2	SW8270C	09/27/13 18:25	PL	85-01-8	
Pyrene	Not detected	ug/L	5	SW8270C	09/27/13 18:25	PL	129-00-0	
2-Methylnaphthalene	Not detected	ug/L	5	SW8270C	09/27/13 18:25	PL	91-57-6	
1-Methylnaphthalene	Not detected	ug/L	5	SW8270C	09/27/13 18:25	PL	90-12-0	
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	10	SW8260B	09/27/13 18:41	WAT	60-29-7	
Acetone	Not detected	ug/L	50	SW8260B	09/27/13 18:41	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	SW8260B	09/27/13 18:41	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	SW8260B	09/27/13 18:41	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW8260B	09/27/13 18:41	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	SW8260B	09/27/13 18:41	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	SW8260B	09/27/13 18:41	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW8260B	09/27/13 18:41	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	SW8260B	09/27/13 18:41	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW8260B	09/27/13 18:41	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	SW8260B	09/27/13 18:41	WAT	74-83-9	

Lab Sample ID: S58205.10 (continued)
Sample Tag: MW-19 (091913)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Chloroethane	Not detected	ug/L	5	SW8260B	09/27/13 18:41	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260B	09/27/13 18:41	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260B	09/27/13 18:41	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	SW8260B	09/27/13 18:41	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	09/27/13 18:41	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260B	09/27/13 18:41	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	09/27/13 18:41	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	SW8260B	09/27/13 18:41	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	SW8260B	09/27/13 18:41	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	SW8260B	09/27/13 18:41	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260B	09/27/13 18:41	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW8260B	09/27/13 18:41	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	SW8260B	09/27/13 18:41	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW8260B	09/27/13 18:41	WAT	56-23-5	
Benzene	Not detected	ug/L	1	SW8260B	09/27/13 18:41	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260B	09/27/13 18:41	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW8260B	09/27/13 18:41	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260B	09/27/13 18:41	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW8260B	09/27/13 18:41	WAT	75-27-4	
Dibromomethane	Not detected	ug/L	5	SW8260B	09/27/13 18:41	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	09/27/13 18:41	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	SW8260B	09/27/13 18:41	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	09/27/13 18:41	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260B	09/27/13 18:41	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW8260B	09/27/13 18:41	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW8260B	09/27/13 18:41	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	SW8260B	09/27/13 18:41	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260B	09/27/13 18:41	WAT	106-93-4	
Chlorobenzene	Not detected	ug/L	1	SW8260B	09/27/13 18:41	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	09/27/13 18:41	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	SW8260B	09/27/13 18:41	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	SW8260B	09/27/13 18:41	WAT		
o-Xylene	Not detected	ug/L	1	SW8260B	09/27/13 18:41	WAT	95-47-6	
Styrene	Not detected	ug/L	1	SW8260B	09/27/13 18:41	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	SW8260B	09/27/13 18:41	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	SW8260B	09/27/13 18:41	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	09/27/13 18:41	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	SW8260B	09/27/13 18:41	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	SW8260B	09/27/13 18:41	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	SW8260B	09/27/13 18:41	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW8260B	09/27/13 18:41	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	SW8260B	09/27/13 18:41	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW8260B	09/27/13 18:41	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	SW8260B	09/27/13 18:41	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	SW8260B	09/27/13 18:41	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260B	09/27/13 18:41	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260B	09/27/13 18:41	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260B	09/27/13 18:41	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW8260B	09/27/13 18:41	WAT	526-73-8	

Lab Sample ID: S58205.10 (continued)
Sample Tag: MW-19 (091913)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
n-Butylbenzene	Not detected	ug/L	1	SW8260B	09/27/13 18:41	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	SW8260B	09/27/13 18:41	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW8260B	09/27/13 18:41	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW8260B	09/27/13 18:41	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW8260B	09/27/13 18:41	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	SW8260B	09/27/13 18:41	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	SW8260B	09/27/13 18:41	WAT	91-57-6	

Analytical Laboratory Report

Lab Sample ID: S58205.11
Sample Tag: MW-28 (091913)
Collected Date/Time: 09/19/2013 16:27
Matrix: Groundwater
COC Reference: B0064486

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	1L Amber	None	Yes	5.8	IR
3	40ml Glass	HCL	Yes	5.8	IR
1	125ml Plastic	HNO3	Yes	5.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			3015A	10/03/13 11:00	CCM		
pH check for VOCs	<2	STD Units		N/A	09/30/13 10:25	LBR		
PNA Extraction	Completed			3510C	09/26/13 12:22	EMR		
Metals								
Lead, Dissolved	Not detected	mg/L	0.003	E200.8	10/03/13 15:55	CCM	7439-92-1	
Organics - Semi-Volatiles								
Polynuclear Aromatic Hydrocarbon								
Acenaphthene	Not detected	ug/L	5	SW8270C	09/27/13 18:44	PL	83-32-9	
Acenaphthylene	Not detected	ug/L	5	SW8270C	09/27/13 18:44	PL	208-96-8	
Anthracene	Not detected	ug/L	5	SW8270C	09/27/13 18:44	PL	120-12-7	
Benzo(a)anthracene	Not detected	ug/L	1	SW8270C	09/27/13 18:44	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/L	1	SW8270C	09/27/13 18:44	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/L	1	SW8270C	09/27/13 18:44	PL	205-99-2	
Benzo(k)fluoranthene	Not detected	ug/L	1	SW8270C	09/27/13 18:44	PL	207-08-9	
Benzo(ghi)perylene	Not detected	ug/L	1	SW8270C	09/27/13 18:44	PL	191-24-2	
Chrysene	Not detected	ug/L	1	SW8270C	09/27/13 18:44	PL	218-01-9	
Dibenzo(ah)anthracene	Not detected	ug/L	2	SW8270C	09/27/13 18:44	PL	53-70-3	
Fluoranthene	Not detected	ug/L	1	SW8270C	09/27/13 18:44	PL	206-44-0	
Fluorene	Not detected	ug/L	5	SW8270C	09/27/13 18:44	PL	86-73-7	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	2	SW8270C	09/27/13 18:44	PL	193-39-5	
Naphthalene	Not detected	ug/L	5	SW8270C	09/27/13 18:44	PL	91-20-3	
Phenanthrene	Not detected	ug/L	2	SW8270C	09/27/13 18:44	PL	85-01-8	
Pyrene	Not detected	ug/L	5	SW8270C	09/27/13 18:44	PL	129-00-0	
2-Methylnaphthalene	Not detected	ug/L	5	SW8270C	09/27/13 18:44	PL	91-57-6	
1-Methylnaphthalene	Not detected	ug/L	5	SW8270C	09/27/13 18:44	PL	90-12-0	
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	10	SW8260B	09/30/13 16:37	WAT	60-29-7	
Acetone	Not detected	ug/L	50	SW8260B	09/30/13 16:37	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	SW8260B	09/30/13 16:37	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	SW8260B	09/30/13 16:37	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW8260B	09/30/13 16:37	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	SW8260B	09/30/13 16:37	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	SW8260B	09/30/13 16:37	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW8260B	09/30/13 16:37	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	SW8260B	09/30/13 16:37	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW8260B	09/30/13 16:37	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	SW8260B	09/30/13 16:37	WAT	74-83-9	

Lab Sample ID: S58205.11 (continued)
Sample Tag: MW-28 (091913)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Chloroethane	Not detected	ug/L	5	SW8260B	09/30/13 16:37	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260B	09/30/13 16:37	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260B	09/30/13 16:37	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	SW8260B	09/30/13 16:37	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	09/30/13 16:37	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260B	09/30/13 16:37	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	09/30/13 16:37	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	SW8260B	09/30/13 16:37	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	SW8260B	09/30/13 16:37	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	SW8260B	09/30/13 16:37	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260B	09/30/13 16:37	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW8260B	09/30/13 16:37	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	SW8260B	09/30/13 16:37	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW8260B	09/30/13 16:37	WAT	56-23-5	
Benzene	Not detected	ug/L	1	SW8260B	09/30/13 16:37	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260B	09/30/13 16:37	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW8260B	09/30/13 16:37	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260B	09/30/13 16:37	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW8260B	09/30/13 16:37	WAT	75-27-4	
Dibromomethane	Not detected	ug/L	5	SW8260B	09/30/13 16:37	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	09/30/13 16:37	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	SW8260B	09/30/13 16:37	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	09/30/13 16:37	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260B	09/30/13 16:37	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW8260B	09/30/13 16:37	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW8260B	09/30/13 16:37	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	SW8260B	09/30/13 16:37	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260B	09/30/13 16:37	WAT	106-93-4	
Chlorobenzene	Not detected	ug/L	1	SW8260B	09/30/13 16:37	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	09/30/13 16:37	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	SW8260B	09/30/13 16:37	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	SW8260B	09/30/13 16:37	WAT		
o-Xylene	Not detected	ug/L	1	SW8260B	09/30/13 16:37	WAT	95-47-6	
Styrene	Not detected	ug/L	1	SW8260B	09/30/13 16:37	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	SW8260B	09/30/13 16:37	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	SW8260B	09/30/13 16:37	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	09/30/13 16:37	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	SW8260B	09/30/13 16:37	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	SW8260B	09/30/13 16:37	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	SW8260B	09/30/13 16:37	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW8260B	09/30/13 16:37	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	SW8260B	09/30/13 16:37	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW8260B	09/30/13 16:37	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	SW8260B	09/30/13 16:37	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	SW8260B	09/30/13 16:37	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260B	09/30/13 16:37	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260B	09/30/13 16:37	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260B	09/30/13 16:37	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW8260B	09/30/13 16:37	WAT	526-73-8	

Lab Sample ID: S58205.11 (continued)
Sample Tag: MW-28 (091913)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
n-Butylbenzene	Not detected	ug/L	1	SW8260B	09/30/13 16:37	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	SW8260B	09/30/13 16:37	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW8260B	09/30/13 16:37	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW8260B	09/30/13 16:37	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW8260B	09/30/13 16:37	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	SW8260B	09/30/13 16:37	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	SW8260B	09/30/13 16:37	WAT	91-57-6	

Analytical Laboratory Report

Lab Sample ID: S58205.12
Sample Tag: DUP-1 (091913)
Collected Date/Time: 09/19/2013 00:01
Matrix: Groundwater
COC Reference: B0064486

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	1L Amber	None	Yes	5.8	IR
3	40ml Glass	HCL	Yes	5.8	IR
1	125ml Plastic	HNO3	Yes	5.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			3015A	10/03/13 11:00	CCM		
pH check for VOCs	<2	STD Units		N/A	09/30/13 10:30	LBR		
PNA Extraction	Completed			3510C	09/26/13 12:22	EMR		
Metals								
Lead, Dissolved	Not detected	mg/L	0.003	E200.8	10/03/13 15:57	CCM	7439-92-1	
Organics - Semi-Volatiles								
Polynuclear Aromatic Hydrocarbon								
Acenaphthene	Not detected	ug/L	5	SW8270C	09/27/13 19:03	PL	83-32-9	
Acenaphthylene	Not detected	ug/L	5	SW8270C	09/27/13 19:03	PL	208-96-8	
Anthracene	Not detected	ug/L	5	SW8270C	09/27/13 19:03	PL	120-12-7	
Benzo(a)anthracene	Not detected	ug/L	1	SW8270C	09/27/13 19:03	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/L	1	SW8270C	09/27/13 19:03	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/L	1	SW8270C	09/27/13 19:03	PL	205-99-2	
Benzo(k)fluoranthene	Not detected	ug/L	1	SW8270C	09/27/13 19:03	PL	207-08-9	
Benzo(ghi)perylene	Not detected	ug/L	1	SW8270C	09/27/13 19:03	PL	191-24-2	
Chrysene	Not detected	ug/L	1	SW8270C	09/27/13 19:03	PL	218-01-9	
Dibenzo(ah)anthracene	Not detected	ug/L	2	SW8270C	09/27/13 19:03	PL	53-70-3	
Fluoranthene	Not detected	ug/L	1	SW8270C	09/27/13 19:03	PL	206-44-0	
Fluorene	Not detected	ug/L	5	SW8270C	09/27/13 19:03	PL	86-73-7	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	2	SW8270C	09/27/13 19:03	PL	193-39-5	
Naphthalene	Not detected	ug/L	5	SW8270C	09/27/13 19:03	PL	91-20-3	
Phenanthrene	Not detected	ug/L	2	SW8270C	09/27/13 19:03	PL	85-01-8	
Pyrene	Not detected	ug/L	5	SW8270C	09/27/13 19:03	PL	129-00-0	
2-Methylnaphthalene	Not detected	ug/L	5	SW8270C	09/27/13 19:03	PL	91-57-6	
1-Methylnaphthalene	Not detected	ug/L	5	SW8270C	09/27/13 19:03	PL	90-12-0	
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	10	SW8260B	09/27/13 16:20	WAT	60-29-7	
Acetone	Not detected	ug/L	50	SW8260B	09/27/13 16:20	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	SW8260B	09/27/13 16:20	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	SW8260B	09/27/13 16:20	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW8260B	09/27/13 16:20	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	SW8260B	09/27/13 16:20	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	SW8260B	09/27/13 16:20	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW8260B	09/27/13 16:20	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	SW8260B	09/27/13 16:20	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW8260B	09/27/13 16:20	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	SW8260B	09/27/13 16:20	WAT	74-83-9	

Lab Sample ID: S58205.12 (continued)
Sample Tag: DUP-1 (091913)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Chloroethane	Not detected	ug/L	5	SW8260B	09/27/13 16:20	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260B	09/27/13 16:20	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260B	09/27/13 16:20	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	SW8260B	09/27/13 16:20	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	09/27/13 16:20	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260B	09/27/13 16:20	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	09/27/13 16:20	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	SW8260B	09/27/13 16:20	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	SW8260B	09/27/13 16:20	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	SW8260B	09/27/13 16:20	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260B	09/27/13 16:20	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW8260B	09/27/13 16:20	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	SW8260B	09/27/13 16:20	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW8260B	09/27/13 16:20	WAT	56-23-5	
Benzene	Not detected	ug/L	1	SW8260B	09/27/13 16:20	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260B	09/27/13 16:20	WAT	107-06-2	
Trichloroethene	7	ug/L	1	SW8260B	09/27/13 16:20	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260B	09/27/13 16:20	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW8260B	09/27/13 16:20	WAT	75-27-4	
Dibromomethane	Not detected	ug/L	5	SW8260B	09/27/13 16:20	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	09/27/13 16:20	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	SW8260B	09/27/13 16:20	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	09/27/13 16:20	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260B	09/27/13 16:20	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW8260B	09/27/13 16:20	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW8260B	09/27/13 16:20	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	SW8260B	09/27/13 16:20	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260B	09/27/13 16:20	WAT	106-93-4	
Chlorobenzene	Not detected	ug/L	1	SW8260B	09/27/13 16:20	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	09/27/13 16:20	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	SW8260B	09/27/13 16:20	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	SW8260B	09/27/13 16:20	WAT		
o-Xylene	Not detected	ug/L	1	SW8260B	09/27/13 16:20	WAT	95-47-6	
Styrene	Not detected	ug/L	1	SW8260B	09/27/13 16:20	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	SW8260B	09/27/13 16:20	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	SW8260B	09/27/13 16:20	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	09/27/13 16:20	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	SW8260B	09/27/13 16:20	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	SW8260B	09/27/13 16:20	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	SW8260B	09/27/13 16:20	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW8260B	09/27/13 16:20	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	SW8260B	09/27/13 16:20	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW8260B	09/27/13 16:20	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	SW8260B	09/27/13 16:20	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	SW8260B	09/27/13 16:20	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260B	09/27/13 16:20	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260B	09/27/13 16:20	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260B	09/27/13 16:20	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW8260B	09/27/13 16:20	WAT	526-73-8	

Lab Sample ID: S58205.12 (continued)
Sample Tag: DUP-1 (091913)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
n-Butylbenzene	Not detected	ug/L	1	SW8260B	09/27/13 16:20	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	SW8260B	09/27/13 16:20	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW8260B	09/27/13 16:20	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW8260B	09/27/13 16:20	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW8260B	09/27/13 16:20	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	SW8260B	09/27/13 16:20	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	SW8260B	09/27/13 16:20	WAT	91-57-6	

Analytical Laboratory Report

Lab Sample ID: S58205.13
Sample Tag: DUP-2 (091913)
Collected Date/Time: 09/19/2013 00:01
Matrix: Groundwater
COC Reference: B0064486

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	1L Amber	None	Yes	5.8	IR
3	40ml Glass	HCL	Yes	5.8	IR
1	125ml Plastic	HNO3	Yes	5.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			3015A	10/03/13 11:00	CCM		
pH check for VOCs	<2	STD Units		N/A	09/30/13 10:30	LBR		
PNA Extraction	Completed			3510C	09/26/13 12:22	EMR		
Metals								
Lead, Dissolved	Not detected	mg/L	0.003	E200.8	10/03/13 15:59	CCM	7439-92-1	
Organics - Semi-Volatiles								
Polynuclear Aromatic Hydrocarbon								
Acenaphthene	Not detected	ug/L	5	SW8270C	09/27/13 19:22	PL	83-32-9	
Acenaphthylene	Not detected	ug/L	5	SW8270C	09/27/13 19:22	PL	208-96-8	
Anthracene	Not detected	ug/L	5	SW8270C	09/27/13 19:22	PL	120-12-7	
Benzo(a)anthracene	Not detected	ug/L	1	SW8270C	09/27/13 19:22	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/L	1	SW8270C	09/27/13 19:22	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/L	1	SW8270C	09/27/13 19:22	PL	205-99-2	
Benzo(k)fluoranthene	Not detected	ug/L	1	SW8270C	09/27/13 19:22	PL	207-08-9	
Benzo(ghi)perylene	Not detected	ug/L	1	SW8270C	09/27/13 19:22	PL	191-24-2	
Chrysene	Not detected	ug/L	1	SW8270C	09/27/13 19:22	PL	218-01-9	
Dibenzo(ah)anthracene	Not detected	ug/L	2	SW8270C	09/27/13 19:22	PL	53-70-3	
Fluoranthene	Not detected	ug/L	1	SW8270C	09/27/13 19:22	PL	206-44-0	
Fluorene	Not detected	ug/L	5	SW8270C	09/27/13 19:22	PL	86-73-7	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	2	SW8270C	09/27/13 19:22	PL	193-39-5	
Naphthalene	Not detected	ug/L	5	SW8270C	09/27/13 19:22	PL	91-20-3	
Phenanthrene	Not detected	ug/L	2	SW8270C	09/27/13 19:22	PL	85-01-8	
Pyrene	Not detected	ug/L	5	SW8270C	09/27/13 19:22	PL	129-00-0	
2-Methylnaphthalene	Not detected	ug/L	5	SW8270C	09/27/13 19:22	PL	91-57-6	
1-Methylnaphthalene	Not detected	ug/L	5	SW8270C	09/27/13 19:22	PL	90-12-0	
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	200	SW8260B	09/30/13 19:57	WAT	60-29-7	Y
Acetone	Not detected	ug/L	1,000	SW8260B	09/30/13 19:57	WAT	67-64-1	Y
Methyl iodide	Not detected	ug/L	20	SW8260B	09/30/13 19:57	WAT	74-88-4	Y
Carbon disulfide	Not detected	ug/L	100	SW8260B	09/30/13 19:57	WAT	75-15-0	Y
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	100	SW8260B	09/30/13 19:57	WAT	1634-04-4	Y
Acrylonitrile	Not detected	ug/L	40	SW8260B	09/30/13 19:57	WAT	107-13-1	Y
2-Butanone (MEK)	Not detected	ug/L	500	SW8260B	09/30/13 19:57	WAT	78-93-3	Y
Dichlorodifluoromethane	Not detected	ug/L	100	SW8260B	09/30/13 19:57	WAT	75-71-8	Y
Chloromethane	Not detected	ug/L	100	SW8260B	09/30/13 19:57	WAT	74-87-3	Y
Vinyl chloride	Not detected	ug/L	20	SW8260B	09/30/13 19:57	WAT	75-01-4	Y

Y-Elevated reporting limit due to high target concentration

Lab Sample ID: S58205.13 (continued)
Sample Tag: DUP-2 (091913)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Bromomethane	Not detected	ug/L	100	SW8260B	09/30/13 19:57	WAT	74-83-9	Y
Chloroethane	Not detected	ug/L	100	SW8260B	09/30/13 19:57	WAT	75-00-3	Y
Trichlorofluoromethane	Not detected	ug/L	20	SW8260B	09/30/13 19:57	WAT	75-69-4	Y
1,1-Dichloroethene	Not detected	ug/L	20	SW8260B	09/30/13 19:57	WAT	75-35-4	Y
Methylene chloride	Not detected	ug/L	100	SW8260B	09/30/13 19:57	WAT	75-09-2	Y
trans-1,2-Dichloroethene	Not detected	ug/L	20	SW8260B	09/30/13 19:57	WAT	156-60-5	Y
1,1-Dichloroethane	Not detected	ug/L	20	SW8260B	09/30/13 19:57	WAT	75-34-3	Y
cis-1,2-Dichloroethene	Not detected	ug/L	20	SW8260B	09/30/13 19:57	WAT	156-59-2	Y
Tetrahydrofuran	Not detected	ug/L	1,800	SW8260B	09/30/13 19:57	WAT	109-99-9	Y
Chloroform	Not detected	ug/L	20	SW8260B	09/30/13 19:57	WAT	67-66-3	Y
Bromochloromethane	Not detected	ug/L	20	SW8260B	09/30/13 19:57	WAT	74-97-5	Y
1,1,1-Trichloroethane	Not detected	ug/L	20	SW8260B	09/30/13 19:57	WAT	71-55-6	Y
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	1,000	SW8260B	09/30/13 19:57	WAT	108-10-1	Y
2-Hexanone	Not detected	ug/L	1,000	SW8260B	09/30/13 19:57	WAT	591-78-6	Y
Carbon tetrachloride	Not detected	ug/L	20	SW8260B	09/30/13 19:57	WAT	56-23-5	Y
Benzene	3,880	ug/L	20	SW8260B	09/30/13 19:57	WAT	71-43-2	Y
1,2-Dichloroethane	Not detected	ug/L	20	SW8260B	09/30/13 19:57	WAT	107-06-2	Y
Trichloroethene	Not detected	ug/L	20	SW8260B	09/30/13 19:57	WAT	79-01-6	Y
1,2-Dichloropropane	Not detected	ug/L	20	SW8260B	09/30/13 19:57	WAT	78-87-5	Y
Bromodichloromethane	Not detected	ug/L	20	SW8260B	09/30/13 19:57	WAT	75-27-4	Y
Dibromomethane	Not detected	ug/L	100	SW8260B	09/30/13 19:57	WAT	74-95-3	Y
cis-1,3-Dichloropropene	Not detected	ug/L	20	SW8260B	09/30/13 19:57	WAT	10061-01-5	Y
Toluene	Not detected	ug/L	20	SW8260B	09/30/13 19:57	WAT	108-88-3	Y
trans-1,3-Dichloropropene	Not detected	ug/L	20	SW8260B	09/30/13 19:57	WAT	10061-02-6	Y
1,1,2-Trichloroethane	Not detected	ug/L	20	SW8260B	09/30/13 19:57	WAT	79-00-5	Y
Tetrachloroethene	Not detected	ug/L	20	SW8260B	09/30/13 19:57	WAT	127-18-4	Y
trans-1,4-Dichloro-2-butene	Not detected	ug/L	20	SW8260B	09/30/13 19:57	WAT	110-57-6	Y
Dibromochloromethane	Not detected	ug/L	100	SW8260B	09/30/13 19:57	WAT	124-48-1	Y
1,2-Dibromoethane	Not detected	ug/L	20	SW8260B	09/30/13 19:57	WAT	106-93-4	Y
Chlorobenzene	Not detected	ug/L	20	SW8260B	09/30/13 19:57	WAT	108-90-7	Y
1,1,1,2-Tetrachloroethane	Not detected	ug/L	20	SW8260B	09/30/13 19:57	WAT	630-20-6	Y
Ethylbenzene	Not detected	ug/L	20	SW8260B	09/30/13 19:57	WAT	100-41-4	Y
p,m-Xylene	Not detected	ug/L	40	SW8260B	09/30/13 19:57	WAT		Y
o-Xylene	Not detected	ug/L	20	SW8260B	09/30/13 19:57	WAT	95-47-6	Y
Styrene	Not detected	ug/L	20	SW8260B	09/30/13 19:57	WAT	100-42-5	Y
Isopropylbenzene	Not detected	ug/L	100	SW8260B	09/30/13 19:57	WAT	98-82-8	Y
Bromoform	Not detected	ug/L	20	SW8260B	09/30/13 19:57	WAT	75-25-2	Y
1,1,2,2-Tetrachloroethane	Not detected	ug/L	20	SW8260B	09/30/13 19:57	WAT	79-34-5	Y
1,2,3-Trichloropropane	Not detected	ug/L	20	SW8260B	09/30/13 19:57	WAT	96-18-4	Y
n-Propylbenzene	Not detected	ug/L	20	SW8260B	09/30/13 19:57	WAT	103-65-1	Y
Bromobenzene	Not detected	ug/L	20	SW8260B	09/30/13 19:57	WAT	108-86-1	Y
1,3,5-Trimethylbenzene	Not detected	ug/L	20	SW8260B	09/30/13 19:57	WAT	108-67-8	Y
tert-Butylbenzene	Not detected	ug/L	20	SW8260B	09/30/13 19:57	WAT	98-06-6	Y
1,2,4-Trimethylbenzene	Not detected	ug/L	20	SW8260B	09/30/13 19:57	WAT	95-63-6	Y
sec-Butylbenzene	Not detected	ug/L	20	SW8260B	09/30/13 19:57	WAT	135-98-8	Y
p-Isopropyltoluene	Not detected	ug/L	100	SW8260B	09/30/13 19:57	WAT	99-87-6	Y
1,3-Dichlorobenzene	Not detected	ug/L	20	SW8260B	09/30/13 19:57	WAT	541-73-1	Y
1,4-Dichlorobenzene	Not detected	ug/L	20	SW8260B	09/30/13 19:57	WAT	106-46-7	Y

Y-Elevated reporting limit due to high target concentration

Lab Sample ID: S58205.13 (continued)
Sample Tag: DUP-2 (091913)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
1,2-Dichlorobenzene	Not detected	ug/L	20	SW8260B	09/30/13 19:57	WAT	95-50-1	Y
1,2,3-Trimethylbenzene	Not detected	ug/L	20	SW8260B	09/30/13 19:57	WAT	526-73-8	Y
n-Butylbenzene	Not detected	ug/L	20	SW8260B	09/30/13 19:57	WAT	104-51-8	Y
Hexachloroethane	Not detected	ug/L	100	SW8260B	09/30/13 19:57	WAT	67-72-1	Y
1,2-Dibromo-3-chloropropane	Not detected	ug/L	100	SW8260B	09/30/13 19:57	WAT	96-12-8	Y
1,2,4-Trichlorobenzene	Not detected	ug/L	100	SW8260B	09/30/13 19:57	WAT	120-82-1	Y
1,2,3-Trichlorobenzene	Not detected	ug/L	100	SW8260B	09/30/13 19:57	WAT	87-61-6	Y
Naphthalene	Not detected	ug/L	100	SW8260B	09/30/13 19:57	WAT	91-20-3	Y
2-Methylnaphthalene	Not detected	ug/L	100	SW8260B	09/30/13 19:57	WAT	91-57-6	Y

Y-Elevated reporting limit due to high target concentration

Analytical Laboratory Report

Lab Sample ID: S58205.14
Sample Tag: DUP-3 (092013)
Collected Date/Time: 09/20/2013 00:01
Matrix: Groundwater
COC Reference: B0064486

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	1L Amber	None	Yes	5.8	IR
3	40ml Glass	HCL	Yes	5.8	IR
1	125ml Plastic	HNO3	Yes	5.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			3015A	10/03/13 11:00	CCM		
pH check for VOCs	<2	STD Units		N/A	09/30/13 10:30	LBR		
PNA Extraction	Completed			3510C	09/26/13 12:22	EMR		
Metals								
Lead, Dissolved	Not detected	mg/L	0.003	E200.8	10/03/13 16:00	CCM	7439-92-1	
Organics - Semi-Volatiles								
Polynuclear Aromatic Hydrocarbon								
Acenaphthene	Not detected	ug/L	5	SW8270C	09/27/13 19:41	PL	83-32-9	
Acenaphthylene	Not detected	ug/L	5	SW8270C	09/27/13 19:41	PL	208-96-8	
Anthracene	Not detected	ug/L	5	SW8270C	09/27/13 19:41	PL	120-12-7	
Benzo(a)anthracene	Not detected	ug/L	5	SW8270C	09/27/13 19:41	PL	56-55-3	X
Benzo(a)pyrene	Not detected	ug/L	5	SW8270C	09/27/13 19:41	PL	50-32-8	X
Benzo(b)fluoranthene	Not detected	ug/L	5	SW8270C	09/27/13 19:41	PL	205-99-2	X
Benzo(k)fluoranthene	Not detected	ug/L	5	SW8270C	09/27/13 19:41	PL	207-08-9	X
Benzo(ghi)perylene	Not detected	ug/L	5	SW8270C	09/27/13 19:41	PL	191-24-2	X
Chrysene	Not detected	ug/L	5	SW8270C	09/27/13 19:41	PL	218-01-9	X
Dibenzo(ah)anthracene	Not detected	ug/L	5	SW8270C	09/27/13 19:41	PL	53-70-3	X
Fluoranthene	Not detected	ug/L	5	SW8270C	09/27/13 19:41	PL	206-44-0	X
Fluorene	Not detected	ug/L	5	SW8270C	09/27/13 19:41	PL	86-73-7	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	5	SW8270C	09/27/13 19:41	PL	193-39-5	X
Naphthalene	89	ug/L	5	SW8270C	09/27/13 19:41	PL	91-20-3	
Phenanthrene	Not detected	ug/L	5	SW8270C	09/27/13 19:41	PL	85-01-8	X
Pyrene	Not detected	ug/L	5	SW8270C	09/27/13 19:41	PL	129-00-0	
2-Methylnaphthalene	16	ug/L	5	SW8270C	09/27/13 19:41	PL	91-57-6	
1-Methylnaphthalene	9	ug/L	5	SW8270C	09/27/13 19:41	PL	90-12-0	
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	2,000	SW8260B	09/27/13 21:48	WAT	60-29-7	Y
Acetone	Not detected	ug/L	10,000	SW8260B	09/27/13 21:48	WAT	67-64-1	Y
Methyl iodide	Not detected	ug/L	200	SW8260B	09/27/13 21:48	WAT	74-88-4	Y
Carbon disulfide	Not detected	ug/L	1,000	SW8260B	09/27/13 21:48	WAT	75-15-0	Y
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	1,000	SW8260B	09/27/13 21:48	WAT	1634-04-4	Y
Acrylonitrile	Not detected	ug/L	400	SW8260B	09/27/13 21:48	WAT	107-13-1	Y
2-Butanone (MEK)	Not detected	ug/L	5,000	SW8260B	09/27/13 21:48	WAT	78-93-3	Y
Dichlorodifluoromethane	Not detected	ug/L	1,000	SW8260B	09/27/13 21:48	WAT	75-71-8	Y
Chloromethane	Not detected	ug/L	1,000	SW8260B	09/27/13 21:48	WAT	74-87-3	Y

X-Elevated reporting limit due to matrix interference
Y-Elevated reporting limit due to high target concentration

Lab Sample ID: S58205.14 (continued)
Sample Tag: DUP-3 (092013)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Vinyl chloride	Not detected	ug/L	200	SW8260B	09/27/13 21:48	WAT	75-01-4	Y
Bromomethane	Not detected	ug/L	1,000	SW8260B	09/27/13 21:48	WAT	74-83-9	Y
Chloroethane	Not detected	ug/L	1,000	SW8260B	09/27/13 21:48	WAT	75-00-3	Y
Trichlorofluoromethane	Not detected	ug/L	200	SW8260B	09/27/13 21:48	WAT	75-69-4	Y
1,1-Dichloroethene	Not detected	ug/L	200	SW8260B	09/27/13 21:48	WAT	75-35-4	Y
Methylene chloride	Not detected	ug/L	1,000	SW8260B	09/27/13 21:48	WAT	75-09-2	Y
trans-1,2-Dichloroethene	Not detected	ug/L	200	SW8260B	09/27/13 21:48	WAT	156-60-5	Y
1,1-Dichloroethane	Not detected	ug/L	200	SW8260B	09/27/13 21:48	WAT	75-34-3	Y
cis-1,2-Dichloroethene	Not detected	ug/L	200	SW8260B	09/27/13 21:48	WAT	156-59-2	Y
Tetrahydrofuran	Not detected	ug/L	18,000	SW8260B	09/27/13 21:48	WAT	109-99-9	Y
Chloroform	Not detected	ug/L	200	SW8260B	09/27/13 21:48	WAT	67-66-3	Y
Bromochloromethane	Not detected	ug/L	200	SW8260B	09/27/13 21:48	WAT	74-97-5	Y
1,1,1-Trichloroethane	Not detected	ug/L	200	SW8260B	09/27/13 21:48	WAT	71-55-6	Y
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	10,000	SW8260B	09/27/13 21:48	WAT	108-10-1	Y
2-Hexanone	Not detected	ug/L	10,000	SW8260B	09/27/13 21:48	WAT	591-78-6	Y
Carbon tetrachloride	Not detected	ug/L	200	SW8260B	09/27/13 21:48	WAT	56-23-5	Y
Benzene	18,300	ug/L	200	SW8260B	09/27/13 21:48	WAT	71-43-2	Y
1,2-Dichloroethane	Not detected	ug/L	200	SW8260B	09/27/13 21:48	WAT	107-06-2	Y
Trichloroethene	Not detected	ug/L	200	SW8260B	09/27/13 21:48	WAT	79-01-6	Y
1,2-Dichloropropane	Not detected	ug/L	200	SW8260B	09/27/13 21:48	WAT	78-87-5	Y
Bromodichloromethane	Not detected	ug/L	200	SW8260B	09/27/13 21:48	WAT	75-27-4	Y
Dibromomethane	Not detected	ug/L	1,000	SW8260B	09/27/13 21:48	WAT	74-95-3	Y
cis-1,3-Dichloropropene	Not detected	ug/L	200	SW8260B	09/27/13 21:48	WAT	10061-01-5	Y
Toluene	16,400	ug/L	200	SW8260B	09/27/13 21:48	WAT	108-88-3	Y
trans-1,3-Dichloropropene	Not detected	ug/L	200	SW8260B	09/27/13 21:48	WAT	10061-02-6	Y
1,1,2-Trichloroethane	Not detected	ug/L	200	SW8260B	09/27/13 21:48	WAT	79-00-5	Y
Tetrachloroethene	Not detected	ug/L	200	SW8260B	09/27/13 21:48	WAT	127-18-4	Y
trans-1,4-Dichloro-2-butene	Not detected	ug/L	200	SW8260B	09/27/13 21:48	WAT	110-57-6	Y
Dibromochloromethane	Not detected	ug/L	1,000	SW8260B	09/27/13 21:48	WAT	124-48-1	Y
1,2-Dibromoethane	Not detected	ug/L	200	SW8260B	09/27/13 21:48	WAT	106-93-4	Y
Chlorobenzene	Not detected	ug/L	200	SW8260B	09/27/13 21:48	WAT	108-90-7	Y
1,1,1,2-Tetrachloroethane	Not detected	ug/L	200	SW8260B	09/27/13 21:48	WAT	630-20-6	Y
Ethylbenzene	1,500	ug/L	200	SW8260B	09/27/13 21:48	WAT	100-41-4	Y
p,m-Xylene	5,200	ug/L	400	SW8260B	09/27/13 21:48	WAT		Y
o-Xylene	2,500	ug/L	200	SW8260B	09/27/13 21:48	WAT	95-47-6	Y
Styrene	Not detected	ug/L	200	SW8260B	09/27/13 21:48	WAT	100-42-5	Y
Isopropylbenzene	Not detected	ug/L	1,000	SW8260B	09/27/13 21:48	WAT	98-82-8	Y
Bromoform	Not detected	ug/L	200	SW8260B	09/27/13 21:48	WAT	75-25-2	Y
1,1,2,2-Tetrachloroethane	Not detected	ug/L	200	SW8260B	09/27/13 21:48	WAT	79-34-5	Y
1,2,3-Trichloropropane	Not detected	ug/L	200	SW8260B	09/27/13 21:48	WAT	96-18-4	Y
n-Propylbenzene	Not detected	ug/L	200	SW8260B	09/27/13 21:48	WAT	103-65-1	Y
Bromobenzene	Not detected	ug/L	200	SW8260B	09/27/13 21:48	WAT	108-86-1	Y
1,3,5-Trimethylbenzene	Not detected	ug/L	200	SW8260B	09/27/13 21:48	WAT	108-67-8	Y
tert-Butylbenzene	Not detected	ug/L	200	SW8260B	09/27/13 21:48	WAT	98-06-6	Y
1,2,4-Trimethylbenzene	600	ug/L	200	SW8260B	09/27/13 21:48	WAT	95-63-6	Y
sec-Butylbenzene	Not detected	ug/L	200	SW8260B	09/27/13 21:48	WAT	135-98-8	Y
p-Isopropyltoluene	Not detected	ug/L	1,000	SW8260B	09/27/13 21:48	WAT	99-87-6	Y
1,3-Dichlorobenzene	Not detected	ug/L	200	SW8260B	09/27/13 21:48	WAT	541-73-1	Y

Y-Elevated reporting limit due to high target concentration

Lab Sample ID: S58205.14 (continued)
Sample Tag: DUP-3 (092013)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
1,4-Dichlorobenzene	Not detected	ug/L	200	SW8260B	09/27/13 21:48	WAT	106-46-7	Y
1,2-Dichlorobenzene	Not detected	ug/L	200	SW8260B	09/27/13 21:48	WAT	95-50-1	Y
1,2,3-Trimethylbenzene	Not detected	ug/L	200	SW8260B	09/27/13 21:48	WAT	526-73-8	Y
n-Butylbenzene	Not detected	ug/L	200	SW8260B	09/27/13 21:48	WAT	104-51-8	Y
Hexachloroethane	Not detected	ug/L	1,000	SW8260B	09/27/13 21:48	WAT	67-72-1	Y
1,2-Dibromo-3-chloropropane	Not detected	ug/L	1,000	SW8260B	09/27/13 21:48	WAT	96-12-8	Y
1,2,4-Trichlorobenzene	Not detected	ug/L	1,000	SW8260B	09/27/13 21:48	WAT	120-82-1	Y
1,2,3-Trichlorobenzene	Not detected	ug/L	1,000	SW8260B	09/27/13 21:48	WAT	87-61-6	Y
Naphthalene	Not detected	ug/L	1,000	SW8260B	09/27/13 21:48	WAT	91-20-3	Y
2-Methylnaphthalene	Not detected	ug/L	1,000	SW8260B	09/27/13 21:48	WAT	91-57-6	Y

Y-Elevated reporting limit due to high target concentration

Analytical Laboratory Report

Lab Sample ID: S58205.15
Sample Tag: MW-31 (092013)
Collected Date/Time: 09/20/2013 06:55
Matrix: Groundwater
COC Reference: B0064486

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	1L Amber	None	Yes	5.8	IR
3	40ml Glass	HCL	Yes	5.8	IR
1	125ml Plastic	HNO3	Yes	5.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			3015A	10/03/13 11:00	CCM		
pH check for VOCs	<2	STD Units		N/A	09/30/13 10:30	LBR		
PNA Extraction	Completed			3510C	09/26/13 12:22	EMR		
Metals								
Lead, Dissolved	Not detected	mg/L	0.003	E200.8	10/03/13 16:02	CCM	7439-92-1	
Organics - Semi-Volatiles								
Polynuclear Aromatic Hydrocarbon								
Acenaphthene	Not detected	ug/L	5	SW8270C	09/27/13 20:00	PL	83-32-9	
Acenaphthylene	Not detected	ug/L	5	SW8270C	09/27/13 20:00	PL	208-96-8	
Anthracene	Not detected	ug/L	5	SW8270C	09/27/13 20:00	PL	120-12-7	
Benzo(a)anthracene	Not detected	ug/L	1	SW8270C	09/27/13 20:00	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/L	1	SW8270C	09/27/13 20:00	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/L	1	SW8270C	09/27/13 20:00	PL	205-99-2	
Benzo(k)fluoranthene	Not detected	ug/L	1	SW8270C	09/27/13 20:00	PL	207-08-9	
Benzo(ghi)perylene	Not detected	ug/L	1	SW8270C	09/27/13 20:00	PL	191-24-2	
Chrysene	Not detected	ug/L	1	SW8270C	09/27/13 20:00	PL	218-01-9	
Dibenzo(ah)anthracene	Not detected	ug/L	2	SW8270C	09/27/13 20:00	PL	53-70-3	
Fluoranthene	Not detected	ug/L	1	SW8270C	09/27/13 20:00	PL	206-44-0	
Fluorene	Not detected	ug/L	5	SW8270C	09/27/13 20:00	PL	86-73-7	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	2	SW8270C	09/27/13 20:00	PL	193-39-5	
Naphthalene	Not detected	ug/L	5	SW8270C	09/27/13 20:00	PL	91-20-3	
Phenanthrene	Not detected	ug/L	2	SW8270C	09/27/13 20:00	PL	85-01-8	
Pyrene	Not detected	ug/L	5	SW8270C	09/27/13 20:00	PL	129-00-0	
2-Methylnaphthalene	Not detected	ug/L	5	SW8270C	09/27/13 20:00	PL	91-57-6	
1-Methylnaphthalene	Not detected	ug/L	5	SW8270C	09/27/13 20:00	PL	90-12-0	
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	10	SW8260B	09/30/13 16:57	WAT	60-29-7	
Acetone	Not detected	ug/L	50	SW8260B	09/30/13 16:57	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	SW8260B	09/30/13 16:57	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	SW8260B	09/30/13 16:57	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW8260B	09/30/13 16:57	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	SW8260B	09/30/13 16:57	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	SW8260B	09/30/13 16:57	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW8260B	09/30/13 16:57	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	SW8260B	09/30/13 16:57	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW8260B	09/30/13 16:57	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	SW8260B	09/30/13 16:57	WAT	74-83-9	

Lab Sample ID: S58205.15 (continued)
Sample Tag: MW-31 (092013)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Chloroethane	Not detected	ug/L	5	SW8260B	09/30/13 16:57	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260B	09/30/13 16:57	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260B	09/30/13 16:57	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	SW8260B	09/30/13 16:57	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	09/30/13 16:57	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260B	09/30/13 16:57	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	09/30/13 16:57	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	SW8260B	09/30/13 16:57	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	SW8260B	09/30/13 16:57	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	SW8260B	09/30/13 16:57	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260B	09/30/13 16:57	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW8260B	09/30/13 16:57	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	SW8260B	09/30/13 16:57	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW8260B	09/30/13 16:57	WAT	56-23-5	
Benzene	Not detected	ug/L	1	SW8260B	09/30/13 16:57	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260B	09/30/13 16:57	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW8260B	09/30/13 16:57	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260B	09/30/13 16:57	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW8260B	09/30/13 16:57	WAT	75-27-4	
Dibromomethane	Not detected	ug/L	5	SW8260B	09/30/13 16:57	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	09/30/13 16:57	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	SW8260B	09/30/13 16:57	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	09/30/13 16:57	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260B	09/30/13 16:57	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW8260B	09/30/13 16:57	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW8260B	09/30/13 16:57	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	SW8260B	09/30/13 16:57	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260B	09/30/13 16:57	WAT	106-93-4	
Chlorobenzene	Not detected	ug/L	1	SW8260B	09/30/13 16:57	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	09/30/13 16:57	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	SW8260B	09/30/13 16:57	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	SW8260B	09/30/13 16:57	WAT		
o-Xylene	Not detected	ug/L	1	SW8260B	09/30/13 16:57	WAT	95-47-6	
Styrene	Not detected	ug/L	1	SW8260B	09/30/13 16:57	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	SW8260B	09/30/13 16:57	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	SW8260B	09/30/13 16:57	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	09/30/13 16:57	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	SW8260B	09/30/13 16:57	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	SW8260B	09/30/13 16:57	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	SW8260B	09/30/13 16:57	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW8260B	09/30/13 16:57	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	SW8260B	09/30/13 16:57	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW8260B	09/30/13 16:57	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	SW8260B	09/30/13 16:57	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	SW8260B	09/30/13 16:57	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260B	09/30/13 16:57	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260B	09/30/13 16:57	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260B	09/30/13 16:57	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW8260B	09/30/13 16:57	WAT	526-73-8	

Lab Sample ID: S58205.15 (continued)
Sample Tag: MW-31 (092013)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
n-Butylbenzene	Not detected	ug/L	1	SW8260B	09/30/13 16:57	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	SW8260B	09/30/13 16:57	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW8260B	09/30/13 16:57	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW8260B	09/30/13 16:57	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW8260B	09/30/13 16:57	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	SW8260B	09/30/13 16:57	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	SW8260B	09/30/13 16:57	WAT	91-57-6	

Analytical Laboratory Report

Lab Sample ID: S58205.16
Sample Tag: MW-24s (092013)
Collected Date/Time: 09/20/2013 08:25
Matrix: Groundwater
COC Reference: B0064486

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	1L Amber	None	Yes	5.8	IR
3	40ml Glass	HCL	Yes	5.8	IR
1	125ml Plastic	HNO3	Yes	5.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			3015A	10/03/13 11:00	CCM		
pH check for VOCs	<2	STD Units		N/A	09/30/13 10:30	LBR		
PNA Extraction	Completed			3510C	09/26/13 12:22	EMR		
Metals								
Lead, Dissolved	Not detected	mg/L	0.003	E200.8	10/03/13 16:04	CCM	7439-92-1	
Organics - Semi-Volatiles								
Polynuclear Aromatic Hydrocarbon								
Acenaphthene	Not detected	ug/L	5	SW8270C	09/27/13 20:19	PL	83-32-9	
Acenaphthylene	Not detected	ug/L	5	SW8270C	09/27/13 20:19	PL	208-96-8	
Anthracene	Not detected	ug/L	5	SW8270C	09/27/13 20:19	PL	120-12-7	
Benzo(a)anthracene	Not detected	ug/L	1	SW8270C	09/27/13 20:19	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/L	1	SW8270C	09/27/13 20:19	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/L	1	SW8270C	09/27/13 20:19	PL	205-99-2	
Benzo(k)fluoranthene	Not detected	ug/L	1	SW8270C	09/27/13 20:19	PL	207-08-9	
Benzo(ghi)perylene	Not detected	ug/L	1	SW8270C	09/27/13 20:19	PL	191-24-2	
Chrysene	Not detected	ug/L	1	SW8270C	09/27/13 20:19	PL	218-01-9	
Dibenzo(ah)anthracene	Not detected	ug/L	2	SW8270C	09/27/13 20:19	PL	53-70-3	
Fluoranthene	Not detected	ug/L	1	SW8270C	09/27/13 20:19	PL	206-44-0	
Fluorene	Not detected	ug/L	5	SW8270C	09/27/13 20:19	PL	86-73-7	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	2	SW8270C	09/27/13 20:19	PL	193-39-5	
Naphthalene	Not detected	ug/L	5	SW8270C	09/27/13 20:19	PL	91-20-3	
Phenanthrene	Not detected	ug/L	2	SW8270C	09/27/13 20:19	PL	85-01-8	
Pyrene	Not detected	ug/L	5	SW8270C	09/27/13 20:19	PL	129-00-0	
2-Methylnaphthalene	Not detected	ug/L	5	SW8270C	09/27/13 20:19	PL	91-57-6	
1-Methylnaphthalene	Not detected	ug/L	5	SW8270C	09/27/13 20:19	PL	90-12-0	
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	10	SW8260B	09/27/13 17:26	WAT	60-29-7	
Acetone	Not detected	ug/L	50	SW8260B	09/27/13 17:26	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	SW8260B	09/27/13 17:26	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	SW8260B	09/27/13 17:26	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW8260B	09/27/13 17:26	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	SW8260B	09/27/13 17:26	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	SW8260B	09/27/13 17:26	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW8260B	09/27/13 17:26	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	SW8260B	09/27/13 17:26	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW8260B	09/27/13 17:26	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	SW8260B	09/27/13 17:26	WAT	74-83-9	

Lab Sample ID: S58205.16 (continued)
Sample Tag: MW-24s (092013)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Chloroethane	Not detected	ug/L	5	SW8260B	09/27/13 17:26	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260B	09/27/13 17:26	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260B	09/27/13 17:26	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	SW8260B	09/27/13 17:26	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	09/27/13 17:26	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260B	09/27/13 17:26	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	09/27/13 17:26	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	SW8260B	09/27/13 17:26	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	SW8260B	09/27/13 17:26	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	SW8260B	09/27/13 17:26	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260B	09/27/13 17:26	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW8260B	09/27/13 17:26	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	SW8260B	09/27/13 17:26	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW8260B	09/27/13 17:26	WAT	56-23-5	
Benzene	Not detected	ug/L	1	SW8260B	09/27/13 17:26	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260B	09/27/13 17:26	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW8260B	09/27/13 17:26	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260B	09/27/13 17:26	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW8260B	09/27/13 17:26	WAT	75-27-4	
Dibromomethane	Not detected	ug/L	5	SW8260B	09/27/13 17:26	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	09/27/13 17:26	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	SW8260B	09/27/13 17:26	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	09/27/13 17:26	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260B	09/27/13 17:26	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW8260B	09/27/13 17:26	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW8260B	09/27/13 17:26	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	SW8260B	09/27/13 17:26	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260B	09/27/13 17:26	WAT	106-93-4	
Chlorobenzene	Not detected	ug/L	1	SW8260B	09/27/13 17:26	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	09/27/13 17:26	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	SW8260B	09/27/13 17:26	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	SW8260B	09/27/13 17:26	WAT		
o-Xylene	Not detected	ug/L	1	SW8260B	09/27/13 17:26	WAT	95-47-6	
Styrene	Not detected	ug/L	1	SW8260B	09/27/13 17:26	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	SW8260B	09/27/13 17:26	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	SW8260B	09/27/13 17:26	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	09/27/13 17:26	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	SW8260B	09/27/13 17:26	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	SW8260B	09/27/13 17:26	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	SW8260B	09/27/13 17:26	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW8260B	09/27/13 17:26	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	SW8260B	09/27/13 17:26	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW8260B	09/27/13 17:26	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	SW8260B	09/27/13 17:26	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	SW8260B	09/27/13 17:26	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260B	09/27/13 17:26	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260B	09/27/13 17:26	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260B	09/27/13 17:26	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW8260B	09/27/13 17:26	WAT	526-73-8	

Lab Sample ID: S58205.16 (continued)
Sample Tag: MW-24s (092013)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
n-Butylbenzene	Not detected	ug/L	1	SW8260B	09/27/13 17:26	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	SW8260B	09/27/13 17:26	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW8260B	09/27/13 17:26	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW8260B	09/27/13 17:26	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW8260B	09/27/13 17:26	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	SW8260B	09/27/13 17:26	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	SW8260B	09/27/13 17:26	WAT	91-57-6	

Analytical Laboratory Report

Lab Sample ID: S58205.17
Sample Tag: MW-24d (092013)
Collected Date/Time: 09/20/2013 09:40
Matrix: Groundwater
COC Reference: B0064486

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	1L Amber	None	Yes	5.8	IR
3	40ml Glass	HCL	Yes	5.8	IR
1	125ml Plastic	HNO3	Yes	5.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			3015A	10/03/13 11:00	CCM		
pH check for VOCs	<2	STD Units		N/A	09/30/13 10:30	LBR		
PNA Extraction	Completed			3510C	09/26/13 12:22	EMR		
Metals								
Lead, Dissolved	Not detected	mg/L	0.003	E200.8	10/03/13 16:06	CCM	7439-92-1	
Organics - Semi-Volatiles								
Polynuclear Aromatic Hydrocarbon								
Acenaphthene	Not detected	ug/L	5	SW8270C	09/27/13 20:38	PL	83-32-9	
Acenaphthylene	Not detected	ug/L	5	SW8270C	09/27/13 20:38	PL	208-96-8	
Anthracene	Not detected	ug/L	5	SW8270C	09/27/13 20:38	PL	120-12-7	
Benzo(a)anthracene	Not detected	ug/L	5	SW8270C	09/27/13 20:38	PL	56-55-3	X
Benzo(a)pyrene	Not detected	ug/L	5	SW8270C	09/27/13 20:38	PL	50-32-8	X
Benzo(b)fluoranthene	Not detected	ug/L	5	SW8270C	09/27/13 20:38	PL	205-99-2	X
Benzo(k)fluoranthene	Not detected	ug/L	5	SW8270C	09/27/13 20:38	PL	207-08-9	X
Benzo(ghi)perylene	Not detected	ug/L	5	SW8270C	09/27/13 20:38	PL	191-24-2	X
Chrysene	Not detected	ug/L	5	SW8270C	09/27/13 20:38	PL	218-01-9	X
Dibenzo(ah)anthracene	Not detected	ug/L	5	SW8270C	09/27/13 20:38	PL	53-70-3	X
Fluoranthene	Not detected	ug/L	5	SW8270C	09/27/13 20:38	PL	206-44-0	X
Fluorene	Not detected	ug/L	5	SW8270C	09/27/13 20:38	PL	86-73-7	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	5	SW8270C	09/27/13 20:38	PL	193-39-5	X
Naphthalene	101	ug/L	5	SW8270C	09/27/13 20:38	PL	91-20-3	
Phenanthrene	Not detected	ug/L	5	SW8270C	09/27/13 20:38	PL	85-01-8	X
Pyrene	Not detected	ug/L	5	SW8270C	09/27/13 20:38	PL	129-00-0	
2-Methylnaphthalene	19	ug/L	5	SW8270C	09/27/13 20:38	PL	91-57-6	
1-Methylnaphthalene	10	ug/L	5	SW8270C	09/27/13 20:38	PL	90-12-0	
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	2,000	SW8260B	09/27/13 22:10	WAT	60-29-7	Y
Acetone	Not detected	ug/L	10,000	SW8260B	09/27/13 22:10	WAT	67-64-1	Y
Methyl iodide	Not detected	ug/L	200	SW8260B	09/27/13 22:10	WAT	74-88-4	Y
Carbon disulfide	Not detected	ug/L	1,000	SW8260B	09/27/13 22:10	WAT	75-15-0	Y
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	1,000	SW8260B	09/27/13 22:10	WAT	1634-04-4	Y
Acrylonitrile	Not detected	ug/L	400	SW8260B	09/27/13 22:10	WAT	107-13-1	Y
2-Butanone (MEK)	Not detected	ug/L	5,000	SW8260B	09/27/13 22:10	WAT	78-93-3	Y
Dichlorodifluoromethane	Not detected	ug/L	1,000	SW8260B	09/27/13 22:10	WAT	75-71-8	Y
Chloromethane	Not detected	ug/L	1,000	SW8260B	09/27/13 22:10	WAT	74-87-3	Y

X-Elevated reporting limit due to matrix interference
Y-Elevated reporting limit due to high target concentration

Lab Sample ID: S58205.17 (continued)
Sample Tag: MW-24d (092013)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Vinyl chloride	Not detected	ug/L	200	SW8260B	09/27/13 22:10	WAT	75-01-4	Y
Bromomethane	Not detected	ug/L	1,000	SW8260B	09/27/13 22:10	WAT	74-83-9	Y
Chloroethane	Not detected	ug/L	1,000	SW8260B	09/27/13 22:10	WAT	75-00-3	Y
Trichlorofluoromethane	Not detected	ug/L	200	SW8260B	09/27/13 22:10	WAT	75-69-4	Y
1,1-Dichloroethene	Not detected	ug/L	200	SW8260B	09/27/13 22:10	WAT	75-35-4	Y
Methylene chloride	Not detected	ug/L	1,000	SW8260B	09/27/13 22:10	WAT	75-09-2	Y
trans-1,2-Dichloroethene	Not detected	ug/L	200	SW8260B	09/27/13 22:10	WAT	156-60-5	Y
1,1-Dichloroethane	Not detected	ug/L	200	SW8260B	09/27/13 22:10	WAT	75-34-3	Y
cis-1,2-Dichloroethene	Not detected	ug/L	200	SW8260B	09/27/13 22:10	WAT	156-59-2	Y
Tetrahydrofuran	Not detected	ug/L	18,000	SW8260B	09/27/13 22:10	WAT	109-99-9	Y
Chloroform	Not detected	ug/L	200	SW8260B	09/27/13 22:10	WAT	67-66-3	Y
Bromochloromethane	Not detected	ug/L	200	SW8260B	09/27/13 22:10	WAT	74-97-5	Y
1,1,1-Trichloroethane	Not detected	ug/L	200	SW8260B	09/27/13 22:10	WAT	71-55-6	Y
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	10,000	SW8260B	09/27/13 22:10	WAT	108-10-1	Y
2-Hexanone	Not detected	ug/L	10,000	SW8260B	09/27/13 22:10	WAT	591-78-6	Y
Carbon tetrachloride	Not detected	ug/L	200	SW8260B	09/27/13 22:10	WAT	56-23-5	Y
Benzene	19,700	ug/L	200	SW8260B	09/27/13 22:10	WAT	71-43-2	Y
1,2-Dichloroethane	Not detected	ug/L	200	SW8260B	09/27/13 22:10	WAT	107-06-2	Y
Trichloroethene	Not detected	ug/L	200	SW8260B	09/27/13 22:10	WAT	79-01-6	Y
1,2-Dichloropropane	Not detected	ug/L	200	SW8260B	09/27/13 22:10	WAT	78-87-5	Y
Bromodichloromethane	Not detected	ug/L	200	SW8260B	09/27/13 22:10	WAT	75-27-4	Y
Dibromomethane	Not detected	ug/L	1,000	SW8260B	09/27/13 22:10	WAT	74-95-3	Y
cis-1,3-Dichloropropene	Not detected	ug/L	200	SW8260B	09/27/13 22:10	WAT	10061-01-5	Y
Toluene	17,500	ug/L	200	SW8260B	09/27/13 22:10	WAT	108-88-3	Y
trans-1,3-Dichloropropene	Not detected	ug/L	200	SW8260B	09/27/13 22:10	WAT	10061-02-6	Y
1,1,2-Trichloroethane	Not detected	ug/L	200	SW8260B	09/27/13 22:10	WAT	79-00-5	Y
Tetrachloroethene	Not detected	ug/L	200	SW8260B	09/27/13 22:10	WAT	127-18-4	Y
trans-1,4-Dichloro-2-butene	Not detected	ug/L	200	SW8260B	09/27/13 22:10	WAT	110-57-6	Y
Dibromochloromethane	Not detected	ug/L	1,000	SW8260B	09/27/13 22:10	WAT	124-48-1	Y
1,2-Dibromoethane	Not detected	ug/L	200	SW8260B	09/27/13 22:10	WAT	106-93-4	Y
Chlorobenzene	Not detected	ug/L	200	SW8260B	09/27/13 22:10	WAT	108-90-7	Y
1,1,1,2-Tetrachloroethane	Not detected	ug/L	200	SW8260B	09/27/13 22:10	WAT	630-20-6	Y
Ethylbenzene	1,600	ug/L	200	SW8260B	09/27/13 22:10	WAT	100-41-4	Y
p,m-Xylene	5,600	ug/L	400	SW8260B	09/27/13 22:10	WAT		Y
o-Xylene	2,600	ug/L	200	SW8260B	09/27/13 22:10	WAT	95-47-6	Y
Styrene	Not detected	ug/L	200	SW8260B	09/27/13 22:10	WAT	100-42-5	Y
Isopropylbenzene	Not detected	ug/L	1,000	SW8260B	09/27/13 22:10	WAT	98-82-8	Y
Bromoform	Not detected	ug/L	200	SW8260B	09/27/13 22:10	WAT	75-25-2	Y
1,1,2,2-Tetrachloroethane	Not detected	ug/L	200	SW8260B	09/27/13 22:10	WAT	79-34-5	Y
1,2,3-Trichloropropane	Not detected	ug/L	200	SW8260B	09/27/13 22:10	WAT	96-18-4	Y
n-Propylbenzene	Not detected	ug/L	200	SW8260B	09/27/13 22:10	WAT	103-65-1	Y
Bromobenzene	Not detected	ug/L	200	SW8260B	09/27/13 22:10	WAT	108-86-1	Y
1,3,5-Trimethylbenzene	Not detected	ug/L	200	SW8260B	09/27/13 22:10	WAT	108-67-8	Y
tert-Butylbenzene	Not detected	ug/L	200	SW8260B	09/27/13 22:10	WAT	98-06-6	Y
1,2,4-Trimethylbenzene	600	ug/L	200	SW8260B	09/27/13 22:10	WAT	95-63-6	Y
sec-Butylbenzene	Not detected	ug/L	200	SW8260B	09/27/13 22:10	WAT	135-98-8	Y
p-Isopropyltoluene	Not detected	ug/L	1,000	SW8260B	09/27/13 22:10	WAT	99-87-6	Y
1,3-Dichlorobenzene	Not detected	ug/L	200	SW8260B	09/27/13 22:10	WAT	541-73-1	Y

Y-Elevated reporting limit due to high target concentration

Lab Sample ID: S58205.17 (continued)
Sample Tag: MW-24d (092013)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
1,4-Dichlorobenzene	Not detected	ug/L	200	SW8260B	09/27/13 22:10	WAT	106-46-7	Y
1,2-Dichlorobenzene	Not detected	ug/L	200	SW8260B	09/27/13 22:10	WAT	95-50-1	Y
1,2,3-Trimethylbenzene	Not detected	ug/L	200	SW8260B	09/27/13 22:10	WAT	526-73-8	Y
n-Butylbenzene	Not detected	ug/L	200	SW8260B	09/27/13 22:10	WAT	104-51-8	Y
Hexachloroethane	Not detected	ug/L	1,000	SW8260B	09/27/13 22:10	WAT	67-72-1	Y
1,2-Dibromo-3-chloropropane	Not detected	ug/L	1,000	SW8260B	09/27/13 22:10	WAT	96-12-8	Y
1,2,4-Trichlorobenzene	Not detected	ug/L	1,000	SW8260B	09/27/13 22:10	WAT	120-82-1	Y
1,2,3-Trichlorobenzene	Not detected	ug/L	1,000	SW8260B	09/27/13 22:10	WAT	87-61-6	Y
Naphthalene	Not detected	ug/L	1,000	SW8260B	09/27/13 22:10	WAT	91-20-3	Y
2-Methylnaphthalene	Not detected	ug/L	1,000	SW8260B	09/27/13 22:10	WAT	91-57-6	Y

Y-Elevated reporting limit due to high target concentration

Analytical Laboratory Report

Lab Sample ID: S58205.18
Sample Tag: MW-8 (092013)
Collected Date/Time: 09/20/2013 11:13
Matrix: Groundwater
COC Reference: B0064486

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	1L Amber	None	Yes	5.8	IR
3	40ml Glass	HCL	Yes	5.8	IR
1	125ml Plastic	HNO3	Yes	5.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			3015A	10/03/13 11:00	CCM		
pH check for VOCs	<2	STD Units		N/A	09/30/13 10:30	LBR		
PNA Extraction	Completed			3510C	09/26/13 12:22	EMR		
Metals								
Lead, Dissolved	Not detected	mg/L	0.003	E200.8	10/03/13 16:07	CCM	7439-92-1	
Organics - Semi-Volatiles								
Polynuclear Aromatic Hydrocarbon								
Acenaphthene	Not detected	ug/L	5	SW8270C	09/27/13 20:58	PL	83-32-9	
Acenaphthylene	Not detected	ug/L	5	SW8270C	09/27/13 20:58	PL	208-96-8	
Anthracene	Not detected	ug/L	5	SW8270C	09/27/13 20:58	PL	120-12-7	
Benzo(a)anthracene	Not detected	ug/L	1	SW8270C	09/27/13 20:58	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/L	1	SW8270C	09/27/13 20:58	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/L	1	SW8270C	09/27/13 20:58	PL	205-99-2	
Benzo(k)fluoranthene	Not detected	ug/L	1	SW8270C	09/27/13 20:58	PL	207-08-9	
Benzo(ghi)perylene	Not detected	ug/L	1	SW8270C	09/27/13 20:58	PL	191-24-2	
Chrysene	Not detected	ug/L	1	SW8270C	09/27/13 20:58	PL	218-01-9	
Dibenzo(ah)anthracene	Not detected	ug/L	2	SW8270C	09/27/13 20:58	PL	53-70-3	
Fluoranthene	Not detected	ug/L	1	SW8270C	09/27/13 20:58	PL	206-44-0	
Fluorene	Not detected	ug/L	5	SW8270C	09/27/13 20:58	PL	86-73-7	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	2	SW8270C	09/27/13 20:58	PL	193-39-5	
Naphthalene	43	ug/L	5	SW8270C	09/27/13 20:58	PL	91-20-3	
Phenanthrene	Not detected	ug/L	2	SW8270C	09/27/13 20:58	PL	85-01-8	
Pyrene	Not detected	ug/L	5	SW8270C	09/27/13 20:58	PL	129-00-0	
2-Methylnaphthalene	8	ug/L	5	SW8270C	09/27/13 20:58	PL	91-57-6	
1-Methylnaphthalene	Not detected	ug/L	5	SW8270C	09/27/13 20:58	PL	90-12-0	
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	200	SW8260B	09/27/13 21:26	WAT	60-29-7	Y
Acetone	Not detected	ug/L	1,000	SW8260B	09/27/13 21:26	WAT	67-64-1	Y
Methyl iodide	Not detected	ug/L	20	SW8260B	09/27/13 21:26	WAT	74-88-4	Y
Carbon disulfide	Not detected	ug/L	100	SW8260B	09/27/13 21:26	WAT	75-15-0	Y
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	100	SW8260B	09/27/13 21:26	WAT	1634-04-4	Y
Acrylonitrile	Not detected	ug/L	40	SW8260B	09/27/13 21:26	WAT	107-13-1	Y
2-Butanone (MEK)	Not detected	ug/L	500	SW8260B	09/27/13 21:26	WAT	78-93-3	Y
Dichlorodifluoromethane	Not detected	ug/L	100	SW8260B	09/27/13 21:26	WAT	75-71-8	Y
Chloromethane	Not detected	ug/L	100	SW8260B	09/27/13 21:26	WAT	74-87-3	Y
Vinyl chloride	Not detected	ug/L	20	SW8260B	09/27/13 21:26	WAT	75-01-4	Y

Y-Elevated reporting limit due to high target concentration

Lab Sample ID: S58205.18 (continued)
Sample Tag: MW-8 (092013)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Bromomethane	Not detected	ug/L	100	SW8260B	09/27/13 21:26	WAT	74-83-9	Y
Chloroethane	Not detected	ug/L	100	SW8260B	09/27/13 21:26	WAT	75-00-3	Y
Trichlorofluoromethane	Not detected	ug/L	20	SW8260B	09/27/13 21:26	WAT	75-69-4	Y
1,1-Dichloroethene	Not detected	ug/L	20	SW8260B	09/27/13 21:26	WAT	75-35-4	Y
Methylene chloride	Not detected	ug/L	100	SW8260B	09/27/13 21:26	WAT	75-09-2	Y
trans-1,2-Dichloroethene	Not detected	ug/L	20	SW8260B	09/27/13 21:26	WAT	156-60-5	Y
1,1-Dichloroethane	Not detected	ug/L	20	SW8260B	09/27/13 21:26	WAT	75-34-3	Y
cis-1,2-Dichloroethene	Not detected	ug/L	20	SW8260B	09/27/13 21:26	WAT	156-59-2	Y
Tetrahydrofuran	Not detected	ug/L	1,800	SW8260B	09/27/13 21:26	WAT	109-99-9	Y
Chloroform	Not detected	ug/L	20	SW8260B	09/27/13 21:26	WAT	67-66-3	Y
Bromochloromethane	Not detected	ug/L	20	SW8260B	09/27/13 21:26	WAT	74-97-5	Y
1,1,1-Trichloroethane	Not detected	ug/L	20	SW8260B	09/27/13 21:26	WAT	71-55-6	Y
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	1,000	SW8260B	09/27/13 21:26	WAT	108-10-1	Y
2-Hexanone	Not detected	ug/L	1,000	SW8260B	09/27/13 21:26	WAT	591-78-6	Y
Carbon tetrachloride	Not detected	ug/L	20	SW8260B	09/27/13 21:26	WAT	56-23-5	Y
Benzene	2,350	ug/L	20	SW8260B	09/27/13 21:26	WAT	71-43-2	Y
1,2-Dichloroethane	Not detected	ug/L	20	SW8260B	09/27/13 21:26	WAT	107-06-2	Y
Trichloroethene	Not detected	ug/L	20	SW8260B	09/27/13 21:26	WAT	79-01-6	Y
1,2-Dichloropropane	Not detected	ug/L	20	SW8260B	09/27/13 21:26	WAT	78-87-5	Y
Bromodichloromethane	Not detected	ug/L	20	SW8260B	09/27/13 21:26	WAT	75-27-4	Y
Dibromomethane	Not detected	ug/L	100	SW8260B	09/27/13 21:26	WAT	74-95-3	Y
cis-1,3-Dichloropropene	Not detected	ug/L	20	SW8260B	09/27/13 21:26	WAT	10061-01-5	Y
Toluene	130	ug/L	20	SW8260B	09/27/13 21:26	WAT	108-88-3	Y
trans-1,3-Dichloropropene	Not detected	ug/L	20	SW8260B	09/27/13 21:26	WAT	10061-02-6	Y
1,1,2-Trichloroethane	Not detected	ug/L	20	SW8260B	09/27/13 21:26	WAT	79-00-5	Y
Tetrachloroethene	Not detected	ug/L	20	SW8260B	09/27/13 21:26	WAT	127-18-4	Y
trans-1,4-Dichloro-2-butene	Not detected	ug/L	20	SW8260B	09/27/13 21:26	WAT	110-57-6	Y
Dibromochloromethane	Not detected	ug/L	100	SW8260B	09/27/13 21:26	WAT	124-48-1	Y
1,2-Dibromoethane	Not detected	ug/L	20	SW8260B	09/27/13 21:26	WAT	106-93-4	Y
Chlorobenzene	Not detected	ug/L	20	SW8260B	09/27/13 21:26	WAT	108-90-7	Y
1,1,1,2-Tetrachloroethane	Not detected	ug/L	20	SW8260B	09/27/13 21:26	WAT	630-20-6	Y
Ethylbenzene	910	ug/L	20	SW8260B	09/27/13 21:26	WAT	100-41-4	Y
p,m-Xylene	1,920	ug/L	40	SW8260B	09/27/13 21:26	WAT		Y
o-Xylene	590	ug/L	20	SW8260B	09/27/13 21:26	WAT	95-47-6	Y
Styrene	Not detected	ug/L	20	SW8260B	09/27/13 21:26	WAT	100-42-5	Y
Isopropylbenzene	Not detected	ug/L	100	SW8260B	09/27/13 21:26	WAT	98-82-8	Y
Bromoform	Not detected	ug/L	20	SW8260B	09/27/13 21:26	WAT	75-25-2	Y
1,1,2,2-Tetrachloroethane	Not detected	ug/L	20	SW8260B	09/27/13 21:26	WAT	79-34-5	Y
1,2,3-Trichloropropane	Not detected	ug/L	20	SW8260B	09/27/13 21:26	WAT	96-18-4	Y
n-Propylbenzene	80	ug/L	20	SW8260B	09/27/13 21:26	WAT	103-65-1	Y
Bromobenzene	Not detected	ug/L	20	SW8260B	09/27/13 21:26	WAT	108-86-1	Y
1,3,5-Trimethylbenzene	100	ug/L	20	SW8260B	09/27/13 21:26	WAT	108-67-8	Y
tert-Butylbenzene	Not detected	ug/L	20	SW8260B	09/27/13 21:26	WAT	98-06-6	Y
1,2,4-Trimethylbenzene	450	ug/L	20	SW8260B	09/27/13 21:26	WAT	95-63-6	Y
sec-Butylbenzene	Not detected	ug/L	20	SW8260B	09/27/13 21:26	WAT	135-98-8	Y
p-Isopropyltoluene	Not detected	ug/L	100	SW8260B	09/27/13 21:26	WAT	99-87-6	Y
1,3-Dichlorobenzene	Not detected	ug/L	20	SW8260B	09/27/13 21:26	WAT	541-73-1	Y
1,4-Dichlorobenzene	Not detected	ug/L	20	SW8260B	09/27/13 21:26	WAT	106-46-7	Y

Y-Elevated reporting limit due to high target concentration

Lab Sample ID: S58205.18 (continued)
Sample Tag: MW-8 (092013)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
1,2-Dichlorobenzene	Not detected	ug/L	20	SW8260B	09/27/13 21:26	WAT	95-50-1	Y
1,2,3-Trimethylbenzene	140	ug/L	20	SW8260B	09/27/13 21:26	WAT	526-73-8	Y
n-Butylbenzene	Not detected	ug/L	20	SW8260B	09/27/13 21:26	WAT	104-51-8	Y
Hexachloroethane	Not detected	ug/L	100	SW8260B	09/27/13 21:26	WAT	67-72-1	Y
1,2-Dibromo-3-chloropropane	Not detected	ug/L	100	SW8260B	09/27/13 21:26	WAT	96-12-8	Y
1,2,4-Trichlorobenzene	Not detected	ug/L	100	SW8260B	09/27/13 21:26	WAT	120-82-1	Y
1,2,3-Trichlorobenzene	Not detected	ug/L	100	SW8260B	09/27/13 21:26	WAT	87-61-6	Y
Naphthalene	Not detected	ug/L	100	SW8260B	09/27/13 21:26	WAT	91-20-3	Y
2-Methylnaphthalene	Not detected	ug/L	100	SW8260B	09/27/13 21:26	WAT	91-57-6	Y

Y-Elevated reporting limit due to high target concentration

Analytical Laboratory Report

Lab Sample ID: S58205.19
Sample Tag: MW-23 (092013)
Collected Date/Time: 09/20/2013 12:29
Matrix: Groundwater
COC Reference: B0064486

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	1L Amber	None	Yes	5.8	IR
3	40ml Glass	HCL	Yes	5.8	IR
1	125ml Plastic	HNO3	Yes	5.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			3015A	10/03/13 11:00	CCM		
pH check for VOCs	<2	STD Units		N/A	09/30/13 10:30	LBR		
PNA Extraction	Completed			3510C	09/26/13 12:22	EMR		
Metals								
Lead, Dissolved	Not detected	mg/L	0.003	E200.8	10/03/13 16:09	CCM	7439-92-1	
Organics - Semi-Volatiles								
Polynuclear Aromatic Hydrocarbon								
Acenaphthene	Not detected	ug/L	5	SW8270C	09/27/13 21:17	PL	83-32-9	
Acenaphthylene	Not detected	ug/L	5	SW8270C	09/27/13 21:17	PL	208-96-8	
Anthracene	Not detected	ug/L	5	SW8270C	09/27/13 21:17	PL	120-12-7	
Benzo(a)anthracene	Not detected	ug/L	1	SW8270C	09/27/13 21:17	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/L	1	SW8270C	09/27/13 21:17	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/L	1	SW8270C	09/27/13 21:17	PL	205-99-2	
Benzo(k)fluoranthene	Not detected	ug/L	1	SW8270C	09/27/13 21:17	PL	207-08-9	
Benzo(ghi)perylene	Not detected	ug/L	1	SW8270C	09/27/13 21:17	PL	191-24-2	
Chrysene	Not detected	ug/L	1	SW8270C	09/27/13 21:17	PL	218-01-9	
Dibenzo(ah)anthracene	Not detected	ug/L	2	SW8270C	09/27/13 21:17	PL	53-70-3	
Fluoranthene	Not detected	ug/L	1	SW8270C	09/27/13 21:17	PL	206-44-0	
Fluorene	Not detected	ug/L	5	SW8270C	09/27/13 21:17	PL	86-73-7	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	2	SW8270C	09/27/13 21:17	PL	193-39-5	
Naphthalene	Not detected	ug/L	5	SW8270C	09/27/13 21:17	PL	91-20-3	
Phenanthrene	Not detected	ug/L	2	SW8270C	09/27/13 21:17	PL	85-01-8	
Pyrene	Not detected	ug/L	5	SW8270C	09/27/13 21:17	PL	129-00-0	
2-Methylnaphthalene	Not detected	ug/L	5	SW8270C	09/27/13 21:17	PL	91-57-6	
1-Methylnaphthalene	Not detected	ug/L	5	SW8270C	09/27/13 21:17	PL	90-12-0	
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	10	SW8260B	09/27/13 17:48	WAT	60-29-7	
Acetone	Not detected	ug/L	50	SW8260B	09/27/13 17:48	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	SW8260B	09/27/13 17:48	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	SW8260B	09/27/13 17:48	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW8260B	09/27/13 17:48	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	SW8260B	09/27/13 17:48	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	SW8260B	09/27/13 17:48	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW8260B	09/27/13 17:48	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	SW8260B	09/27/13 17:48	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW8260B	09/27/13 17:48	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	SW8260B	09/27/13 17:48	WAT	74-83-9	

Lab Sample ID: S58205.19 (continued)
Sample Tag: MW-23 (092013)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Chloroethane	Not detected	ug/L	5	SW8260B	09/27/13 17:48	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260B	09/27/13 17:48	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260B	09/27/13 17:48	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	SW8260B	09/27/13 17:48	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	09/27/13 17:48	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260B	09/27/13 17:48	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	09/27/13 17:48	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	SW8260B	09/27/13 17:48	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	SW8260B	09/27/13 17:48	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	SW8260B	09/27/13 17:48	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260B	09/27/13 17:48	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW8260B	09/27/13 17:48	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	SW8260B	09/27/13 17:48	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW8260B	09/27/13 17:48	WAT	56-23-5	
Benzene	Not detected	ug/L	1	SW8260B	09/27/13 17:48	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260B	09/27/13 17:48	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW8260B	09/27/13 17:48	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260B	09/27/13 17:48	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW8260B	09/27/13 17:48	WAT	75-27-4	
Dibromomethane	Not detected	ug/L	5	SW8260B	09/27/13 17:48	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	09/27/13 17:48	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	SW8260B	09/27/13 17:48	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	09/27/13 17:48	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260B	09/27/13 17:48	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW8260B	09/27/13 17:48	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW8260B	09/27/13 17:48	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	SW8260B	09/27/13 17:48	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260B	09/27/13 17:48	WAT	106-93-4	
Chlorobenzene	Not detected	ug/L	1	SW8260B	09/27/13 17:48	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	09/27/13 17:48	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	SW8260B	09/27/13 17:48	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	SW8260B	09/27/13 17:48	WAT		
o-Xylene	Not detected	ug/L	1	SW8260B	09/27/13 17:48	WAT	95-47-6	
Styrene	Not detected	ug/L	1	SW8260B	09/27/13 17:48	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	SW8260B	09/27/13 17:48	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	SW8260B	09/27/13 17:48	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	09/27/13 17:48	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	SW8260B	09/27/13 17:48	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	SW8260B	09/27/13 17:48	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	SW8260B	09/27/13 17:48	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW8260B	09/27/13 17:48	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	SW8260B	09/27/13 17:48	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW8260B	09/27/13 17:48	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	SW8260B	09/27/13 17:48	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	SW8260B	09/27/13 17:48	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260B	09/27/13 17:48	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260B	09/27/13 17:48	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260B	09/27/13 17:48	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW8260B	09/27/13 17:48	WAT	526-73-8	

Lab Sample ID: S58205.19 (continued)
Sample Tag: MW-23 (092013)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
n-Butylbenzene	Not detected	ug/L	1	SW8260B	09/27/13 17:48	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	SW8260B	09/27/13 17:48	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW8260B	09/27/13 17:48	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW8260B	09/27/13 17:48	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW8260B	09/27/13 17:48	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	SW8260B	09/27/13 17:48	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	SW8260B	09/27/13 17:48	WAT	91-57-6	

Analytical Laboratory Report

Lab Sample ID: S58205.20
Sample Tag: MW-20 (092013)
Collected Date/Time: 09/20/2013 13:45
Matrix: Groundwater
COC Reference: B0064486

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	1L Amber	None	Yes	5.8	IR
3	40ml Glass	HCL	Yes	5.8	IR
1	125ml Plastic	HNO3	Yes	5.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			3015A	10/03/13 11:00	CCM		
pH check for VOCs	<2	STD Units		N/A	09/30/13 10:30	LBR		
PNA Extraction	Completed			3510C	09/26/13 12:22	EMR		
Metals								
Lead, Dissolved	Not detected	mg/L	0.003	E200.8	10/03/13 16:11	CCM	7439-92-1	
Organics - Semi-Volatiles								
Polynuclear Aromatic Hydrocarbon								
Acenaphthene	Not detected	ug/L	5	SW8270C	09/27/13 21:36	PL	83-32-9	
Acenaphthylene	Not detected	ug/L	5	SW8270C	09/27/13 21:36	PL	208-96-8	
Anthracene	Not detected	ug/L	5	SW8270C	09/27/13 21:36	PL	120-12-7	
Benzo(a)anthracene	Not detected	ug/L	1	SW8270C	09/27/13 21:36	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/L	1	SW8270C	09/27/13 21:36	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/L	1	SW8270C	09/27/13 21:36	PL	205-99-2	
Benzo(k)fluoranthene	Not detected	ug/L	1	SW8270C	09/27/13 21:36	PL	207-08-9	
Benzo(ghi)perylene	Not detected	ug/L	1	SW8270C	09/27/13 21:36	PL	191-24-2	
Chrysene	Not detected	ug/L	1	SW8270C	09/27/13 21:36	PL	218-01-9	
Dibenzo(ah)anthracene	Not detected	ug/L	2	SW8270C	09/27/13 21:36	PL	53-70-3	
Fluoranthene	Not detected	ug/L	1	SW8270C	09/27/13 21:36	PL	206-44-0	
Fluorene	Not detected	ug/L	5	SW8270C	09/27/13 21:36	PL	86-73-7	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	2	SW8270C	09/27/13 21:36	PL	193-39-5	
Naphthalene	Not detected	ug/L	5	SW8270C	09/27/13 21:36	PL	91-20-3	
Phenanthrene	Not detected	ug/L	2	SW8270C	09/27/13 21:36	PL	85-01-8	
Pyrene	Not detected	ug/L	5	SW8270C	09/27/13 21:36	PL	129-00-0	
2-Methylnaphthalene	Not detected	ug/L	5	SW8270C	09/27/13 21:36	PL	91-57-6	
1-Methylnaphthalene	Not detected	ug/L	5	SW8270C	09/27/13 21:36	PL	90-12-0	
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	10	SW8260B	09/27/13 18:09	WAT	60-29-7	
Acetone	Not detected	ug/L	50	SW8260B	09/27/13 18:09	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	SW8260B	09/27/13 18:09	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	SW8260B	09/27/13 18:09	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW8260B	09/27/13 18:09	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	SW8260B	09/27/13 18:09	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	SW8260B	09/27/13 18:09	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW8260B	09/27/13 18:09	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	SW8260B	09/27/13 18:09	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW8260B	09/27/13 18:09	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	SW8260B	09/27/13 18:09	WAT	74-83-9	

Lab Sample ID: S58205.20 (continued)
Sample Tag: MW-20 (092013)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Chloroethane	Not detected	ug/L	5	SW8260B	09/27/13 18:09	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260B	09/27/13 18:09	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260B	09/27/13 18:09	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	SW8260B	09/27/13 18:09	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	09/27/13 18:09	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260B	09/27/13 18:09	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	09/27/13 18:09	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	SW8260B	09/27/13 18:09	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	SW8260B	09/27/13 18:09	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	SW8260B	09/27/13 18:09	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260B	09/27/13 18:09	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW8260B	09/27/13 18:09	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	SW8260B	09/27/13 18:09	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW8260B	09/27/13 18:09	WAT	56-23-5	
Benzene	Not detected	ug/L	1	SW8260B	09/27/13 18:09	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260B	09/27/13 18:09	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW8260B	09/27/13 18:09	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260B	09/27/13 18:09	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW8260B	09/27/13 18:09	WAT	75-27-4	
Dibromomethane	Not detected	ug/L	5	SW8260B	09/27/13 18:09	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	09/27/13 18:09	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	SW8260B	09/27/13 18:09	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	09/27/13 18:09	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260B	09/27/13 18:09	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW8260B	09/27/13 18:09	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW8260B	09/27/13 18:09	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	SW8260B	09/27/13 18:09	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260B	09/27/13 18:09	WAT	106-93-4	
Chlorobenzene	Not detected	ug/L	1	SW8260B	09/27/13 18:09	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	09/27/13 18:09	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	SW8260B	09/27/13 18:09	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	SW8260B	09/27/13 18:09	WAT		
o-Xylene	Not detected	ug/L	1	SW8260B	09/27/13 18:09	WAT	95-47-6	
Styrene	Not detected	ug/L	1	SW8260B	09/27/13 18:09	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	SW8260B	09/27/13 18:09	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	SW8260B	09/27/13 18:09	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	09/27/13 18:09	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	SW8260B	09/27/13 18:09	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	SW8260B	09/27/13 18:09	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	SW8260B	09/27/13 18:09	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW8260B	09/27/13 18:09	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	SW8260B	09/27/13 18:09	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW8260B	09/27/13 18:09	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	SW8260B	09/27/13 18:09	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	SW8260B	09/27/13 18:09	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260B	09/27/13 18:09	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260B	09/27/13 18:09	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260B	09/27/13 18:09	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW8260B	09/27/13 18:09	WAT	526-73-8	

Lab Sample ID: S58205.20 (continued)
Sample Tag: MW-20 (092013)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
n-Butylbenzene	Not detected	ug/L	1	SW8260B	09/27/13 18:09	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	SW8260B	09/27/13 18:09	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW8260B	09/27/13 18:09	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW8260B	09/27/13 18:09	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW8260B	09/27/13 18:09	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	SW8260B	09/27/13 18:09	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	SW8260B	09/27/13 18:09	WAT	91-57-6	

Analytical Laboratory Report

Lab Sample ID: S58205.21
Sample Tag: TB-1
Collected Date/Time: 09/20/2013 00:01
Matrix: Water
COC Reference: B0064486

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	40ml Glass	HCL	Yes	5.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
pH check for VOCs	<2	STD Units		N/A	09/30/13 10:25	LBR		
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	10	SW8260B	09/27/13 19:01	WAT	60-29-7	
Acetone	Not detected	ug/L	50	SW8260B	09/27/13 19:01	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	SW8260B	09/27/13 19:01	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	SW8260B	09/27/13 19:01	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW8260B	09/27/13 19:01	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	SW8260B	09/27/13 19:01	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	SW8260B	09/27/13 19:01	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW8260B	09/27/13 19:01	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	SW8260B	09/27/13 19:01	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW8260B	09/27/13 19:01	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	SW8260B	09/27/13 19:01	WAT	74-83-9	
Chloroethane	Not detected	ug/L	5	SW8260B	09/27/13 19:01	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260B	09/27/13 19:01	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260B	09/27/13 19:01	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	SW8260B	09/27/13 19:01	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	09/27/13 19:01	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260B	09/27/13 19:01	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	09/27/13 19:01	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	SW8260B	09/27/13 19:01	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	SW8260B	09/27/13 19:01	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	SW8260B	09/27/13 19:01	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260B	09/27/13 19:01	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW8260B	09/27/13 19:01	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	SW8260B	09/27/13 19:01	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW8260B	09/27/13 19:01	WAT	56-23-5	
Benzene	Not detected	ug/L	1	SW8260B	09/27/13 19:01	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260B	09/27/13 19:01	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW8260B	09/27/13 19:01	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260B	09/27/13 19:01	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW8260B	09/27/13 19:01	WAT	75-27-4	
Dibromomethane	Not detected	ug/L	5	SW8260B	09/27/13 19:01	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	09/27/13 19:01	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	SW8260B	09/27/13 19:01	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	09/27/13 19:01	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260B	09/27/13 19:01	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW8260B	09/27/13 19:01	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW8260B	09/27/13 19:01	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	SW8260B	09/27/13 19:01	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260B	09/27/13 19:01	WAT	106-93-4	

Lab Sample ID: S58205.21 (continued)
Sample Tag: TB-1

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Chlorobenzene	Not detected	ug/L	1	SW8260B	09/27/13 19:01	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	09/27/13 19:01	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	SW8260B	09/27/13 19:01	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	SW8260B	09/27/13 19:01	WAT		
o-Xylene	Not detected	ug/L	1	SW8260B	09/27/13 19:01	WAT	95-47-6	
Styrene	Not detected	ug/L	1	SW8260B	09/27/13 19:01	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	SW8260B	09/27/13 19:01	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	SW8260B	09/27/13 19:01	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	09/27/13 19:01	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	SW8260B	09/27/13 19:01	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	SW8260B	09/27/13 19:01	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	SW8260B	09/27/13 19:01	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW8260B	09/27/13 19:01	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	SW8260B	09/27/13 19:01	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW8260B	09/27/13 19:01	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	SW8260B	09/27/13 19:01	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	SW8260B	09/27/13 19:01	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260B	09/27/13 19:01	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260B	09/27/13 19:01	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260B	09/27/13 19:01	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW8260B	09/27/13 19:01	WAT	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	SW8260B	09/27/13 19:01	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	SW8260B	09/27/13 19:01	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW8260B	09/27/13 19:01	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW8260B	09/27/13 19:01	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW8260B	09/27/13 19:01	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	SW8260B	09/27/13 19:01	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	SW8260B	09/27/13 19:01	WAT	91-57-6	

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ID#: B0064486.2013.00003

CHAIN OF CUSTODY & LABORATORY ANALYSIS REQUEST FORM

Page 1 of ___

Lab Work Order #

Send Results to:

Contact & Company Name: Allyn Begnoche ARCADIS	Telephone: 810.225.1971
Address: 10559 Citation Dr. Brighton, MI	Fax: 810.229.8837
City: Brighton State: MI Zip:	E-mail Address: Allyn.Begnoche@arcadis-us.com
Project Name/Location (City, State): Pontiac EDC Pontiac, MI	Project #: B0064486.2013.00003
Sampler's Printed Name: J. Bender	Sampler's Signature:

Preservative	HCl	—	HNO_3				
Filtered (✓)	N	N	Y				
# of Containers	3	2	1				
Container Information	1	2	9				

PARAMETER ANALYSIS & METHOD

Keys

Preservation Key:
A. H_2SO_4
B. HCL
C. HNO_3
D. NaOH
E. None
F. Other: _____
G. Other: _____
H. Other: _____

Container Information Key:
1. 40 ml Vial
2. 1 L Amber
3. 250 ml Plastic
4. 500 ml Plastic
5. Encore
6. 2 oz. Glass
7. 4 oz. Glass
8. 8 oz. Glass
9. Other: 125
10. Other: _____

Matrix Key:
SO - Soil, SE - Sediment, NL - NAPL/Oil
W - Water, SL - Sludge, SW - Sample Wipe
T - Tissue, A - Air, Other: _____

	Sample ID	Collection Date	Collection Time	Type (✓) Comp	Type (✓) Grab	Matrix	VOC 8260	PAH 8270	TOTAL DISS. LEAD 6010					REMARKS
58163 .01	MW-4(091713)	9/17/13	1041		G	GW	3	2	1					
.02	MW-18(091713)	9/17/13	1155		G	GW	3	2	1					
.03	MW-17(091713)	9/17/13	1303		G	GW	3	2	1					
.04/.05/.06	MW-30(091713)	9/17/13	1411		G	GW	9	6	3					MS/MSD
.07	MW-10(091713)	9/17/13	1544		G	GW	3	2	1					
.08	MW-16(091713)	9/17/13	1650		G	GW	3	2	1					
.09	MW-29(091713)	9/17/13	1804		G	GW	3	2	1					
.10	MW-2(091813)	9/18/13	0840		G	GW	3	2	1					
.11/.12/.13	MW-13(091813)	9/18/13	0948		G	GW	9	5	3					MS/MSD
.14	MW-14(091913)	9/19/13	0855		G	GW	3	2	1					
.15	Trip Blank	9/19/13												

Special Instructions/Comments: STD. TAT

☐ **Special QA/QC Instructions(✓):**

Laboratory Information and Receipt		Relinquished By	Received By	Relinquished By	Laboratory Received By
Lab Name: Merit	Cooler Custody Seal (✓) ☐ Intact ☐ Not Intact	Printed Name: Justin Bender	Printed Name: Chris Gauthier	Printed Name: Chris Gauthier	Printed Name: Tabitha Faust
☒ Cooler packed with ice (✓)		Signature:	Signature:	Signature:	Signature: Tabitha Faust
Specify Turnaround Requirements: STD.	Sample Receipt:	Firm: ARCADIS	Firm/Courier: Merit	Firm/Courier: Merit	Firm: Merit
Shipping Tracking #:	Condition/Cooler Temp: 5.0c	Date/Time: 9/19/13 0925	Date/Time: 9-19-13 0925	Date/Time: 9/19/13 1500	Date/Time: 9/19/13 1520

Distribution: WHITE – Laboratory returns with results YELLOW – Lab copy PINK – Retained by ARCADIS