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From:
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Date:
February 10, 2015

ARCADIS Project No.:
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Subject:
Employee Development Center Site (Facility ID: 0-0015260) - 2014 Additional Delineation and Monitoring Activities Memo

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ARCADIS 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 the results of September 2014 subsurface investigation activities performed to delineate residual impacts in the vicinity of monitoring well MW-24 and to transmit the results of groundwater and storm sewer sampling performed during the 4th Quarter of 2014.

Delineation Activities

On September 23 and 24, 2014, eight soil borings (soil borings B-57 through B-64) and a nested set of two permanent monitoring wells (MW-32S and MW-32D) were advanced at the Site to delineate saturated soil and groundwater impacts in the vicinity of monitoring well MW-24D, and also to complete delineation of groundwater impacts at the southwest corner of the Site. Fibertec, Inc. (Fibertec) of Brighton, Michigan advanced soil borings and installed the monitoring wells under the supervision of an ARCADIS field geologist using a Geoprobe® drill rig. Final placement of each of the soil borings (as shown on **Figure 2**) was identified in the field based on local Site features, drill rig accessibility, known impacts from existing soil borings and monitoring wells at the Site, and observed impacts from other borings installed during the event. Soils from each location were continuously logged and screened for the presence of total volatile organic compound (VOC) vapors with a photoionization detector (PID) equipped with a 10.6 eV lamp.

Each of the soil boring locations was logged to a maximum depth of 20 feet below ground surface (bgs); where either a continuous clay layer existed and/or where no impacts were observed. Temporary well screens were installed at selected soil boring locations based on field observations and the location of existing monitoring wells.

During the September 2014 field activities, soil and groundwater samples were collected at selected soil boring and temporary well locations based on field observations including elevated PID readings, odors, and/or staining. Soil samples were submitted to Merit Laboratories for analysis of VOCs via United States Environmental Protection Agency (USEPA) Method 8260.

Temporary monitoring wells installed during September 2014 field activities were constructed of 1-inch (inner-diameter) by 5-foot polyvinyl chloride (PVC) well screens and 1-inch by 5-foot-sections of PVC riser. The borehole annulus was backfilled with a clean, bagged sand filter pack from the borehole bottom to 1 to 2 feet above the well screen. The temporary monitoring wells were finished above grade with a locking well riser plug.

Details regarding location, PID readings, visual observations, soil sample intervals and analytical results, temporary screen intervals, and groundwater analytical results from the temporary wells for the soil boring and permanent monitoring wells are summarized as follows:

- B-57 (approximately 30 feet northeast of MW-24): No elevated PID detections, odors or staining were observed during advancement. One soil sample was collected from 14-15 feet bgs. Analytical results for that soil sample indicated no VOCs were present above method detection limits or Part 201 Generic Cleanup Criteria.

  Based on observations and PID readings, no temporary well was installed. Therefore, no groundwater sample was collected from B-57.

- B-58 (approximately 30 feet southeast of MW-24): No elevated PID detections, odors or staining were observed during advancement. However, foundry sand fill material was observed from 11 to 20 feet bgs. One soil sample was collected from 14-15 feet bgs. Analytical results for B-58 (14-15) indicated that the concentration of trichloroethylene (TCE) exceeded Part 201 Non-Residential Drinking Water (NRDW) criteria. Concentrations of toluene and xylenes were detected as well, but were below Part 201 Generic Cleanup Criteria. No other VOCs were detected above method detection limits.

  Based on the presence of the fill material, a temporary well screen was set from 15-20 feet bgs and one groundwater sample was collected. Analytical results indicated concentrations of benzene, toluene and TCE were present above the method detection limits, but below Part 201 Generic Cleanup Criteria.

- B-59 (approximately 20 feet south-southwest of MW-24): No staining or odor was observed. However, minimal PID detections and foundry sand fill material were observed from 11.25 to 13 feet bgs. One soil sample was collected from 12-13 feet bgs. Concentrations of benzene and ethylbenzene were detected above Part 201 NRDW and Groundwater Surface Water Interface (GSI) criteria. Concentrations of xylenes and trimethylbenzenes (TMBs) were detected in as well, but were below Part 201 Generic Cleanup Criteria. No other VOCs were detected in soil above Part 201 Generic Cleanup Criteria.

  Based on field observations a temporary well screen was set from 11-16 feet bgs and a groundwater sample was collected. Analytical results indicate concentrations of benzene were detected in groundwater above Part 201 NRDW and concentrations of ethylbenzene were detected above Part 201 GSI criteria. No other VOCs were detected in groundwater above Part 201 Generic Cleanup Criteria.

- B-60 (approximately 30 feet southwest of MW-24): Staining and elevated PID detections were observed from 10 to 14.5 feet bgs. Additionally, odor was detected from 10 to 20 feet bgs. Soil samples were collected from 8-10, 12-13, and 18-20 feet bgs. Concentrations of TMBs and n-butylbenzene were detected in soil at B-60 (8-10) below Part 201 Generic Cleanup Criteria. Concentrations of benzene, ethylbenzene, xylenes, naphthalene, and TMBs were detected in soil at B-60 (12-13) above Part 201 DWP and/or GSI criteria. No other VOCs were detected in soil above Part 201 Generic Cleanup Criteria at B-60 (8-10) and B-60 (12-13). Additionally, no VOCs were detected in soil at B-60 (18-20) above method detection limits or Part 201 Generic Cleanup Criteria.

  Based on field observations, a temporary well screen was set from 10.5-15.5 feet bgs and a groundwater sample was collected. Analytical results indicate concentrations of benzene, toluene, ethylbenzene, xylenes, and TMBs were detected in groundwater above Part 201 NRDW and GSI criteria. No other VOCs were detected in groundwater above Part 201 Generic Cleanup Criteria.

- B-61 (approximately 30 feet west-northwest of MW-24): No PIDs, odors or staining was observed during installation activities. A soil sample was collected from 11-13 feet bgs. The concentration of benzene detected in soil at B-61 (14-15) exceeded Part 201 NRDW and GSI criteria. No other VOCs were detected in soil above Part 201 Generic Cleanup Criteria.

  Based on field observations and PID readings, no temporary well was installed. Therefore, no groundwater sample was collected from B-61.

- B-62 (approximately 60 feet southwest of MW-24): Minimal PID detections were observed near the surface of the boring, and a slight odor was observed from 14.5 to 17.5 feet bgs. Additionally, foundry sand fill material was observed from 11 to 20’ bgs. Soil samples were collected from 7-9,

12-13, and 17.5-19.5 feet bgs. No VOCs were detected in soil at B-62 (7-9) above method detection limits or Part 201 Generic Cleanup Criteria. The concentration of TCE detected in soil at B-62 (12-13) was below Part 201 Generic Cleanup Criteria. Additionally, the concentration of benzene detected in soil at B-62 (17.5-19.5) exceeded Part 201 NRDW criteria. No other VOCs were detected in soil at B-62 (12-13) and B-62 (17.5-19.5) above Part 201 Generic Cleanup Criteria.

Based on the presence of the fill and slight odor, a temporary well screen was set from 15-20 ft bgs and a groundwater sample was collected. Analytical results indicate concentrations of benzene, ethylbenzene, and xylenes were detected in groundwater above Part 201 NRDW and/or GSI criteria. No other VOCs were detected in groundwater above Part 201 Generic Cleanup Criteria.

- B-63 (approximately 60 feet west of MW-24): No PIDs, odors or staining was observed during installation activities. A soil sample was collected from 11-12 feet bgs. Analytical results for B-63 (11-12) indicated no VOCs were detected in soil above method detection limits or Part 201 Generic Cleanup Criteria.

  Based on the down gradient location of B-63 relative to MW-8, a temporary well screen was set from 8-18 feet bgs and a groundwater sample was collected. Analytical results indicate no VOCs were detected in groundwater above Part 201 Generic Cleanup Criteria.

- B-64 (approximately 60 feet south of MW-24, within the boundary of the former basement area): No PIDs, odors or staining was observed during installation activities. A soil sample was collected from 8.5-9.5 feet bgs to verify that clean fill was used to backfill the basement area. Analytical results for B-64 (8.5-9.5) indicated no VOCs were detected in soil at concentrations above method detection limits or Part 201 Generic Cleanup Criteria.

  A temporary well screen was set from 8-13 feet bgs and a groundwater sample was collected. Analytical results indicate no VOCs were detected in groundwater above Part 201 Generic Cleanup Criteria and provided verification that there had been no migration of the groundwater contamination in that area.

- MW-32S/MW-32D: No PIDs, odors or staining was observed during installation activities. However, a thin layer of foundry sand fill material was observed from 16 to 17 feet bgs. Monitoring wells MW-32S and MW-32D were installed for groundwater monitoring purposes to confirm that there was not off-site migration occurring at the southwest corner of the property. Based on observations, no soil samples were collected.

Based on the type of contaminants previously characterized at the Site and the observed water column, a nested well pair was installed at this location. Therefore, permanent well screens were installed from 7-12 feet bgs and 14-19 feet bgs at MW-32S and MW-32D, respectively to delineate groundwater impacts down gradient of MW-24D and potential off-site migration. Groundwater samples were collected from MW-32S and MW-32D during the October 2014 sampling activities.

Based on a review of the September 2014 soil and groundwater analytical results with RACER Trust, and correspondence with MDEQ, ARCADIS and Fibertec returned to the Site on October 24, 2014 to properly abandon the temporary monitoring wells at B-58, B-59, B-60, B-63, and B-64, and convert the temporary well at B-62 into a permanent monitoring well (MW-33) to provide further delineation of impacted groundwater at the Site. These decisions were proposed based on observations, soil and groundwater analytical results realized during September 2014 delineation activities and on the location of existing permanent monitoring wells. The temporary wells at B-58, B-59, B-60, B-63, and B-64 were removed and the boreholes were backfilled with a bentonite grout via tremie pipe. Monitoring well MW-33 was screened from 13-18 feet bgs.

The permanent monitoring wells installed during the September and October 2014 field activities were constructed of 2-inch (inner-diameter) by 5-foot polyvinyl chloride (PVC) well screens and 2-inch by 5-foot-sections of PVC riser. The borehole annulus was backfilled with a clean, bagged sand filter pack from the borehole bottom to 1 to 2 feet above the well screen. The remaining annulus was backfilled with hydrated bentonite chips. The permanent monitoring wells were finished at grade with a flush-mounted curb box set in concrete with a locking well riser plug. The permanent monitoring wells were properly developed in accordance with ARCADIS Standard Operating Procedures prior to groundwater sampling activities.

Soil boring and monitoring well construction logs are included in **Appendix A**. Soil and groundwater analytical results are included as **Table 1** and **Table 2**, respectively. Laboratory analytical reports are included as **Appendix B**.

October 2014 Groundwater Monitoring Event

On October 27 through October 29, 2014, ARCADIS conducted a site-wide gauging event and collected groundwater samples from reduced set of monitoring wells; which included: MW-5, MW-8, MW-9, MW-11, MW-12, MW-20, MW-21, MW-22, MW-23, MW-24S, MW-24D, MW-25, MW-26, MW-27, MW-28, MW-29, MW-30, MW-31, MW-32S, MW-32D, and MW-33. The reduced monitoring well list was based on historical soil analytical results and groundwater analytical results presented in a technical memorandum submitted to the MDEQ on July 25, 2014. Additionally, the aforementioned monitoring wells installed in September 2014 were also sampled as determined in correspondences with RACER Trust and MDEQ on October 9, 2014.

Sampling methods and techniques were identical to the groundwater sampling events completed during the 1st, 2nd, and 3rd quarter of 2013 and the 2nd quarter of 2014. The analytical parameter list was limited to analysis of VOCs via USEPA Method 8260 as described in the technical memorandum submitted to the MDEQ on July 25, 2014. Groundwater samples were submitted to Merit Laboratories for analysis. Locations of the monitoring wells and sampled storm sewers are shown on **Figure 2**.

The groundwater elevations for the Site are shown on **Table 3**. The groundwater gauging data from October 2014 indicates that groundwater flow remains radial from a mound in the vicinity of the former gasoline UST area as depicted on **Figure 3**.

The groundwater analytical results indicate the following:

- MW-24D: Concentrations continue to exceed Part 201 NRDW and GSI Criteria for benzene, toluene, ethylbenzene, xylenes, 1,2,4-TMB, and 1,3,5-TMB.
- MW-8: Concentrations continue to exceed Part 201 NRDW and GSI Criteria for benzene, ethylbenzene, xylenes, and 1,2,4-TMB. In addition, concentrations of naphthalene and 1,3,5-TMB continue to exceed Part 201 GSI Criteria.
- MW-26: Concentrations continue to exceed Part 201 NRDW and GSI Criteria for benzene. Other contaminants remain below detection limits.
- MW-5 and MW-12: Concentrations exceed Part 201 NRDW Criteria for TCE only.
- MW-27: Concentrations of TCE are below Part 201 NRDW Criteria.
- MW-33: Concentrations exceed Part 201 NRDW for benzene only.
- Concentrations are below Part 201 Generic Cleanup Criteria and/or laboratory method detection limits in MW-9, MW-11, MW-20, MW-21, MW-22, MW-23, MW-24S, MW-25, MW-28, MW-29, MW-30, MW-31, MW-32S, and MW-32D.

Based on the groundwater analytical results following the June 2012 excavation activities, where groundwater impacts exist concentrations appear to be stable or decreasing in most wells. Groundwater impacts at MW-24D appear to be stable, while groundwater concentrations at MW-8 have began to rebound slightly, but are still below pre-excavation concentrations. Analytical results from the monitoring wells are included as **Table 2** and depicted on **Figure 4**. Laboratory analytical reports are included as **Appendix B.**

October 2014 Storm Sewer Sampling Event

To evaluate the GSI pathway and potential for site contaminants to be migrating into the storm sewer system, ARCADIS attempted to collect a second set of grab samples (SS-1 through SS-5) during a period of dry weather from five storm sewer manhole locations during the October 27 through October 29, 2014 sampling event. A first set of samples was previously obtained during the May 2014 monitoring event. The storm sewer sample locations and observed flow directions are depicted on **Figure 2**. 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. Observations of storm sewer flow revealed no flow in SS-1. Northeasterly flow was observed inside of Mill Street manholes SS-2 and SS-4 draining into the Augusta Relief Drain at a location immediately north of the property line. Storm sewer flow was observed to be south inside of Mill Street manhole SS-3, leading to the storm sewer servicing University Drive. Flow at the SS-5 manhole on the southern portion of the Site was also observed to be south to the storm sewer servicing University Drive. Storm sewer flow directions observed during the October 2014 sampling event were similar to that observed during the May 2014 sampling event.

The storm sewer grab samples were collected with a peristaltic pump and submitted for analysis of VOCs via USEPA Method 8260. The storm sewer analytical results indicate the following:

- During the field activities in October 2014, no water was observed in storm sewer SS-1. Therefore, no grab sample was collected from SS-1.

- Analytical results of samples collected from storm sewer location SS-5 (to the south) indicated TCE was detected at 2 µg/L; similar to that detected in the May 2014 sampling event. The concentration of TCE detected at SS-5 is below Part 201 GSI Criteria and the other VOCs were both below Part 201 GSI Criteria and laboratory method detection limits.

- Analytical results of samples collected from storm sewer locations SS-2, SS-3, and SS-4 indicated concentrations of VOCs remained below Part 201 GSI Criteria and laboratory method detection limits.

Recommendations

Based on the results of groundwater and storm sewer monitoring activities and current conditions at the site, ARCADIS proposes the following activities:

- Observations and results of soil and groundwater sampling conducted from boreholes and temporary monitoring wells installed in the vicinity of MW-24 indicated that residual contamination is generally limited to deeper soils in the area between MW-24 and MW-8, and no additional criteria exceedances

were realized beyond those already defined at the Site. Therefore, no further subsurface delineation activities are proposed in this area.

- Conduct a third round of storm sewer sampling at SS-1, SS-2, SS-3, SS-4, and SS-5 during 1st Quarter or early 2nd Quarter 2015 (weather dependent). All samples will be analyzed for VOCs via EPA Method 8260.

- Conduct an additional groundwater monitoring event during 1st Quarter or early 2nd Quarter 2015 (weather dependent) to further evaluate levels of contaminants and trending for VOCs via EPA Method 8260at monitoring wells MW-5, MW-8, MW-9, MW-11, MW-12, MW-20, MW-21, MW-22, MW-23, MW-24S, MW-24D, MW-25, MW-26, MW-27, MW-28, MW-29, MW-30, MW-31, MW-32S, MW-32D, and MW-33.

- Consistent with the approach proposed and approved in the previous technical memorandum (submitted on July 25, 2014), monitoring is not proposed to be conducted during this event at monitoring wells MW-2 (north near Augusta Relief Drain), MW-4 (far southeast corner of property), MW-10 (east of Augusta Relief Drain), MW-13 (north of Augusta Relief Drain), MW-14 (north near Augusta Relief Drain), MW-16 (east of Augusta Relief Drain), MW-17 and MW-18 (along southern portion of Augusta Relief Drain), or MW-19 (west adjacent property). Analysis is also not proposed to be conducted for PAHs or lead during this event. This is based on the type of contaminants and location of contaminants and exceedances as defined through monitoring results to date, observed migration patterns, and the location of monitoring wells which are included in the proposed sampling event.

- Following the next groundwater sampling event and next (third) round of storm sewer sampling, ARCADIS will evaluate the groundwater analytical data trends and take into account the current soil analytical results to conduct a final assessment of the applicable pathways and path forward. Based on the known impacts at the Site, past remediation efforts, challenges with potential additional remediation, and if the data from the next sampling event are consistent with past events, it is anticipated that the path forward will include a Declaration of Restrictive Covenant to address the remaining on-Site impacts, and a Road Right-of-Way Alternative Institutional Control with the City of Pontiac to address the off-Site impacts within Mill Street so that a non-residential No Further Action can be requested for this Site.

Enclosures:

Table 1: Soil Analytical Data – September 2014 MW-24 Delineation Soil Boring Locations
Table 2: Groundwater Analytical Data
Table 3: Groundwater Level & Elevation Data
Table 4: Storm Sewer Analytical Data
Figure 1: Site Location Map
Figure 2: Site Map
Figure 3: Groundwater Elevation and Flow Map (October 2014)
Figure 4: Groundwater Analytical Map
Appendix A: Soil Boring and Monitoring Well Construction Logs
Appendix B: Laboratory Analytical Reports

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Tables

Table 1
Soil Analytical Data - September 2014 MW-24 Delineation Soil Boring Locations

Former Employee Development Center
65 East University
Pontiac, Michigan

Sample ID:	Units	Michigan Department of Environmental Quality Part 201/213 Non-Residential Soil Cleanup Criteria and Risk Based Screening Levels					MW-24	MW-24	B-57	B-58		B-59	B-60	B-60	B-60	B-61	B-62	B-62	B-62		B-63	B-64
							Re-Occupy of Boring B-28 - Inside	Re-Occupy of Boring B-28 - Inside														
Date Collected:							1/7/2013	1/7/2013	9/23/2014	9/23/2014		9/23/2014	9/23/2014	9/23/2014	9/23/2014	9/23/2014	9/24/2014	9/24/2014	9/24/2014		9/23/2014	9/24/2014
Sample Depth (feet bgl):		Drinking Water Protection	Groundwater Surface Water Interface	Indoor Air	Ambient Air	Direct Contact Criteria	13-14'	24-25'	14-15'	14-15'		12-13'	8-10'	12-13'	18-20'	11-13'	7-9'	12-13'	17.5-19.5'		11-12'	8.5-9.5'
Analytical Parameter																						
VOCs (EPA Method 8260B)																						
1,2,3-	ug/kg	none	none	none	none	none	5,000	<100	<100	<100	<100	100	200	2,100	<100	<100	<100	<200	<100	<100	<100	<100
1,2,4-	ug/kg	2,100	570	8.0E+06 {C}	2.5E+07	1.0E+08 {C}	**20,000**	<100	<100	<100	<100	<100	400	**7,700**	<100	<100	<100	<200	<100	<100	<100	<100
1,3,5-Trimethylbenzene	ug/kg	1,800	1,100	4.8E+08 {C}	1.9E+07	1.0E+08 {C}	**7,000**	<100	<100	<100	<100	200	100	**2,800**	<100	<100	<100	<200	<100	<100	<100	<100
2-Methylnaphthalene	ug/kg	1.7E+05	4,200	4.9E+06	1.8E+06	2.6E+07	1,200	<300	<390	<440	<440	<430	<370	<420	<390	<410	<450	<500	<410	<420	<410	<430
Benzene	ug/kg	100	4,000 (X)	8,400	45,000	8.4E+05 {C}	**12,400**	**390**	<60	<70	<70	**7,630**	<60	**3,410**	<60	**4,200**	<70	<80	90	**180**	<60	<70
n-Butylbenzene	ug/kg	4,600	ID	ID	ID	8.00E+06	1,000	<60	<60	<70	<70	<70	100	370	<60	<60	<70	<80	<60	<60	<60	<70
Ethylbenzene	ug/kg	1,500	360	7.0E+07 {C}	2.4E+06	7.1E+07 {C}	**16,200**	<60	<60	<70	<70	**2,180**	<60	**9,790**	<60	<60	<70	<80	<60	<60	<60	<70
Isopropylbenzene	ug/kg	2.6.E+05	3,200	7.3E+5 (C)	2.0E+06	8.0E+7 (C)	<3,000	<300	<300	<300	<300	<300	<300	600	<300	<300	<300	<400	<300	<300	<300	<300
n-Propylbenzene	ug/kg	4,600	ID	ID	ID	8.0E+06	**5,000**	<100	<100	<100	<100	<100	<100	2,000	<100	<100	<100	<200	<100	<100	<100	<100
Naphthalene	ug/kg	1.0E+05	730	4.7E+05	3.0E+05	5.2E+07	**1,500**	<300	<390	<440	<440	<430	<370	**1,820**	<390	<410	<450	<500	<410	<420	<410	<430
Toluene	ug/kg	16,000	5,400	3.3E+05 {C}	3.3E+06	1.6E+08 {C}	**63,000**	<100	<100	200	200	<100	<100	200	<100	<100	<100	<200	<100	<100	<100	<100
Trichloroethene	ug/kg	100	4,000 (X)	1,900	14,000	6.6E+05 (C,DD)	<600	<60	<60	**340**	**330**	<70	<60	<60	<60	<60	<70	100	<60	<60	<60	<70
m,p-Xylene	ug/kg	none	none	none	none	none	59,000	<100	<100	300	300	400	<100	21,800	<100	<100	<100	<200	<100	<100	<100	<100
o-Xylene	ug/kg	none	none	none	none	none	23,600	<60	<60	130	160	150	<60	410	<60	<60	<70	<80	<60	<60	<60	<70
Xylenes, Total	ug/kg	5,600	820	1.2E+07 {C}	5.4E+07	1.0E+09 (C,DD)	**82,600**	<160	<160	430	460	550	<160	**22,210**	<160	<160	<170	<280	<160	<160	<160	<170
Other Target VOCs	ug/kg	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/8260B)	ug/kg	800	1.4E+05	5.9E+06 (C)	3.0E+07	5.9E+06	<3,000	<200	<200	<300	<300	<300	<200	<300	<200	<200	<300	<300	<200	<300	<200	<300

Notes:

Exceedances: Cleanup Criteria and Risk Based Screening Level Exceedances are bold .
Samples with TPH results greater than 100 mg/kg are bold.
Samples with TPH results greater than 100 mg/kg were analyzed for PAHs.
Soils were removed as part of the June 2012 soil excavation activities.
bgl: below ground level
J: Estimated value between method detection limit and practical quantitation limit.
NS: Not sampled.
ND / <: Not detected / <detection limit
NA: Not analyzed.
Soil 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 December 30, 2013). Referenced are Non-Residential Cleanup Criteria and Screening Levels
- Groundwater Protection Criteria: Lowest value of Drinking Water Protection Criteria (DW), Groundwater/Surface Water Interface Protection Criteria (GSIP), and Groundwater Contact Protection Criteria (GWC).
- Indoor Air: Soil Volatilization to Indoor Air Inhalation Criteria. Ambient Air: Lowest Value of Infinite Source Volatile Soil Inhalation Criteria, Finite Source 2,5 Meter Thickness, and Particulate Soil Inhalation Criteria.
- Direct Contact: Lowest Value of Direct Contact Criteria and Soil Saturation Concentration Screening Levels.
Effective Solubility Screening Levels were obtained from the Effective Solubility Workgroup Report of Findings, dated February 28, 2008

C: Value presented is a screening level based on the chemical-specific generic soil saturation concentration (Csat) since the calculated risk-based criterion is greater than Csat. Concentrations greater than Csat are acceptable cleanup criteria for this pathway where a site-specific demonstration indicates that free-phase material containing a hazardous substance is not present.

G = Groundwater surface water interface (GSI) criterion depends on the pH or water hardness, or both, of the receiving surface water. A value of 150 mg/L was used to calculate the GSI protection criteria value based on MDEQ Remediation Division, Operational Memorandum No. 5.

X = The GSI criterion shown is not protective for surface water that is used as a drinking water source. For groundwater discharges to the Great Lakes and their connecting waters or discharges in close proximity to water supply intake(s) in inland surface waters, the generic GSI criterion is the Surface Water Human Drinking Water Value (HDV) listed in the table below except for those HDV indicted with an asterisk. For HDV with an asterisk, the generic GSI criterion is the lesser of the HDV, the WV and the calculated FCV (see formulas in footnote {G}). Soil protection criteria based on the HDV are listed below except for those values with an asterisk. Soil GSI protection criteria for compounds with an asterisk are the greater of the 20 X GSI and GSI soil-water partition values using the GSI criteria developed with the procedure described in this footnote.

DD = Hazardous substance causes developmental effects. Residential direct contact criteria are protective of both prenatal and postnatal exposure. Nonresidential direct contact criteria are protective for a pregnant adult receptor.

Table 2
Groundwater Analytical Data
Former GM Employee Development Center
65 East University
Pontiac, Michigan

Sample ID:	Units	Michigan Groundwater Cleanup Criteria and Risk Based Screening Levels				EW-1 Outside North-NE Corner of Building - Former Gas	MW-2 Northwest Portion of Site - Release Delineation	MW-2 Northwest Portion of Site - Release Delineation	MW-2 Northwest Portion of Site - Release Delineation	MW-2 Northwest Portion of Site - Release Delineation	MW-2 Northwest Portion of Site - Release Delineation	MW-2 Northwest Portion of Site - Release Delineation	MW-2 Northwest Portion of Site - Release Delineation	MW-3 Outside NW Corner of Building - Trench & Dyno	MW-3 Outside NW Corner of Building - Trench & Dyno	MW-3 Outside NW Corner of Building - Trench & Dyno	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	MW-4 Eastern Corner of Site
Date Collected:		Non-Residential Drinking Water Protection Criteria & RBSLs	Groundwater Surface Water Interface Criteria & RBSLs	Non-Residential Groundwater Volatilization to Indoor Air Inhalation Criteria & RBSLs	Flammability and Explosivity Screening Level	12/11/2006	12/11/2006	7/28/2008	11/1/2010	1/29/2013	6/26/2013	9/18/2013	5/21/2014	12/11/2006	2/11/2008	11/3/2010	12/11/2006	2/13/2008	11/2/2010	2/1/2013	6/26/2013	9/17/2013	5/22/2014
Screened Interval (feet bgl):						3-13	3-13	3-13	3-13	3-13	3-13	3-13	3-13	5-15	5-15	5-15	3-13	3-13	3-13	3-13	3-13	3-13	3-13
Analytical Parameter																							
TPH (EPA Method 418.1)	mg/L	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	29	<0.1	NA	NA	NA	NA	NA	NA	12	NA	NA	<0.1	NA	NA	NA	NA	NA	NA
Diesel Range Organics	mg/L	none	none	none	none	<0.5	<0.1	NA	NA	NA	NA	NA	NA	<0.1	NA	NA	<0.11	NA	NA	NA	NA	NA	NA
Fuel Oil	mg/L	none	none	none	none	12	<0.1	NA	NA	NA	NA	NA	NA	1.9	NA	NA	0.79	NA	NA	NA	NA	NA	NA
Hydraulic Fluid	mg/L	none	none	none	none	<0.5	<0.1	NA	NA	NA	NA	NA	NA	<0.1	NA	NA	<0.11	NA	NA	NA	NA	NA	NA
Kerosene	mg/L	none	none	none	none	<0.5	<0.1	NA	NA	NA	NA	NA	NA	<0.1	NA	NA	<0.11	NA	NA	NA	NA	NA	NA
Mineral Spirits	mg/L	none	none	none	none	<0.5	<0.1	NA	NA	NA	NA	NA	NA	<0.1	NA	NA	<0.11	NA	NA	NA	NA	NA	NA
Motor Oil	mg/L	none	none	none	none	<0.5	0.26	NA	NA	NA	NA	NA	NA	<0.1	NA	NA	<0.11	NA	NA	NA	NA	NA	NA
PAH (EPA Method 8310)																							
1-Methylnaphthalene	ug/L	none	none	none	none	56	<0.1	NA	NA	<5	<5	<5	<5	0.55	<5	NA	<0.1	<5	NA	<5	<5	<5	<5
2-Methylnaphthalene	ug/L	750	19	25,000 (S)	ID	**98**	<0.1	<5	<5	<5	<5	<5	<5	0.41	<5	12	<0.1	<5	<5	<5	<5	<5	<5
Acenaphthene	ug/L	3,800	38	4,200 (S)	ID	<1.5	<0.1	<5	<5	<5	<5	<5	<5	<0.1	<5	<5	<0.1	<5	<5	<5	<5	<5	<5
Acenapthylene	ug/L	150	ID	3,900 (S)	ID	8.2	<0.1	<5	<5	<5	<5	<5	<5	<0.1	<5	<5	<0.1	<5	<5	<5	<5	<5	<5
Anthracene	ug/L	43 (S)	ID	43 (S)	ID	<1.5	<0.1	<5	<5	<5	<5	<5	<5	<0.1	<5	<5	<0.1	<5	<5	<5	<5	<5	<5
Benz(a)anthracene	ug/L	8.5	ID	NLV	ID	<1.5	<0.1	<1	<1	<1	<1	<1	<1	<0.1	<5	<1	<0.1	<5	<1	<1	<1	<1	<1
Benzo(a)pyrene	ug/L	5.0 (A)	ID	NLV	ID	<1.5	<0.1	<1	<1	<1	<1	<1	<1	<0.1	<5	<1	<0.1	<5	<1	<1	<1	<1	<1
Benzo(b)fluoranthene	ug/L	1.5 (S, AA)	ID	ID	ID	<1.5	<0.1	<1	<1	<1	<1	<1	<1	<0.1	<5	<1	<0.1	<5	<1	<1	<1	<1	<1
Benzo(g,h,i)perylene	ug/L	1.0 (M); 0.26 (S)	NA	NLV	ID	<1.5	<0.1	<1	<1	<1	<1	<1	<1	<0.1	<5	<1	<0.1	<5	<1	<1	<1	<1	<1
Benzo(k)fluoranthene	ug/L	1.0 (M); 0.8 (S)	NA	NLV	ID	<1.5	<0.1	<1	<1	<1	<1	<1	<1	<0.1	<5	<1	<0.1	<5	<1	<1	<1	<1	<1
Chrysene	ug/L	1.6 (S)	ID	ID	ID	<1.5	<0.1	<1	<1	<1	<1	<1	<1	<0.1	<5	<1	<0.1	<5	<1	<1	<1	<1	<1
Dibenzo(a,h)anthracene	ug/L	2.0 (M); 0.85	ID	NLV	ID	<1.5	<0.1	<2	<2	<2	<2	<2	<2	<0.1	<5	<2	<0.1	<5	<2	<2	<2	<2	<2
Fluoranthene	ug/L	210 (S)	1.6	210 (S)	ID	<1.5	<0.1	<1	<1	<1	<1	<1	<1	<0.1	<5	<1	<0.1	<5	<1	<1	<1	<1	<1
Fluorene	ug/L	2,000 (S)	12	2,000 (S)	ID	<1.5	<0.1	<5	<5	<5	<5	<5	<5	<0.1	<5	<5	<0.1	<5	<5	<5	<5	<5	<5
Indeno(1,2,3-cd)pyrene	ug/L	2.0 (M); 0.022 (S)	ID	NLV	ID	<0.19	<0.1	<2	<2	<2	<2	<2	<2	<0.1	<5	<2	<0.1	<5	<2	<2	<2	<2	<2
Naphthalene	ug/L	1,500	11	31,000 (S)	NA	**280**	<0.1	<5	<5	<5	<5	<5	<5	2.4	6	**31**	<0.1	<5	<5	<5	<5	<5	<5
Phenanthrene	ug/L	150	2.0 (M); 1.4	1,000 (S)	ID	<1.5	<0.1	<2	<2	<2	<2	<2	<2	0.13	<5	<2	0.12	<5	<2	<2	<2	<2	<2
Pyrene	ug/L	140 (S)	ID	140 (S)	ID	<1.5	<0.1	<5	<5	<5	<5	<5	<5	<0.1	<5	<5	0.15	<5	<5	<5	<5	<5	<5
Other Target PAHs	ug/L	various	various	various	various	ND	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)	89	1.3E+06 (S)	ID	<5	<5	<1	<1	<1	<1	<1	<1	<5	<30	<50	<5	<1	<1	<1	<1	<1	<1
1,1,2,2-Tetrachloroethane	ug/L	35	78 (X)	77,000	ID	<5	<5	<1	<1	<1	<1	<1	<1	<5	<30	<50	<5	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	ug/L	5.0 (A)	330 (X)	1.10E+05	NA	<5	<5	<1	<1	<1	<1	<1	<1	<5	<30	<50	<5	<1	<1	<1	<1	<1	<1
1,1-Dichloroethane	ug/L	2,500	740	2.30E+06	3.80E+05	<5	<5	<1	<1	<1	<1	<1	<1	<5	<30	<50	<5	<1	<1	<1	<1	<1	<1
1,1-Dichloroethene	ug/L	7.0 (A)	130	1,300	97,000	<5	<5	<1	<1	<1	<1	<1	<1	7	<30	<50	<5	<1	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene	ug/L	63 (E)	17	56,000 (S)	56,000 (S)	**790**	<5	<1	<1	<1	<1	<1	<1	**40**	**80**	**450 Y**	<5	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	ug/L	5.0 (A)	360 (X)	59,000	2.50E+06	**13**	<5	<1	<1	<1	<1	<1	<1	**14**	<30	<160	<5	<1	<1	<1	<1	<1	<1
1,2-Dichloropropane	ug/L	5.0 (A)	230 (X)	36,000	5.50E+05	<5	<5	<1	<1	<1	<1	<1	<1	**140**	**200**	<50	<5	<1	<1	<1	<1	<1	<1
1,3,5-Trimethylbenzene	ug/L	72 (E)	45	61,000 (S)	ID	**190**	<5	<1	<1	<1	<1	<1	<1	13	<30	**150 Y**	<5	<1	<1	<1	<1	<1	<1
2-Butanone	ug/L	38,000	2,200	2.4E+08 (S)	ID	<20	<20	<30	<30	<25	<25	<25	<25	21	<600	<1000	<20	<30	<30	<25	<25	<25	<25
2-Hexanone	ug/L	2,900	ID	8.70E+06	NA	11	<10	<50	<50	<50	<50	<50	<50	<10	<1,000	<3000	<10	<50	<50	<50	<50	<50	<50
4-Methyl-2-pentanone	ug/L	5,200	ID	2.0E+07 (S)	ID	<10	<10	<50	<50	<50	<50	<50	<50	<10	<1,000	<3000	<10	<50	<50	<50	<50	<50	<50
Acetone	ug/L	2,100	1,700	1.0E+09 (D,S)	1.50E+07	<100	<100	<50	<50	<50	<50	<50	<50	<100	<1,000	<3000	<100	<50	<50	<50	<50	<50	<50
Benzene	ug/L	5.0 (A)	200 (X)	35,000	68,000	**930**	<5	<1	<1	<1	<1	<1	<1	**3,000**	**2,530**	**4470 Y**	<5	<1	<1	<1	<1	<1	<1
Bromochloromethane	ug/L	none	none	none	none	<5	<5	<1	<1	<1	<1	<1	<1	<5	<30	<50	<5	<1	<1	<1	<1	<1	<1
Bromoform	ug/L	80 (A,W)	ID	3.10E+06	ID	<5	<5	<1	<1	<1	<1	<1	<1	<5	<30	<50	<5	<1	<1	<1	<1	<1	<1
Bromomethane	ug/L	29	35	9,000	ID	<10	<10	<5	<5	<5	<5	<5	<5	<10	<100	<300	<10	<5	<5	<5	<5	<5	<5
n-Butylbenzene	ug/L	230	ID	ID	ID	NA	NA	<1	<1	<1	<1	<1	<1	NA	<30	<50	NA	<1	<1	<1	<1	<1	<1
sec-Butylbenzene	ug/L	230	ID	ID	ID	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon disulfide	ug/L	2,300	ID	5.50E+05	13,000	<5	<5	<5	<5	<5	<5	<5	<5	<5	<100	<300	<5	<5	<5	<5	<5	<5	<5
Carbon tetrachloride	ug/L	5.0 (A)	45 (X)	2,400	ID	<5	<5	<1	<1	<1	<1	<1	<1	<5	<30	<50	<5	<1	<1	<1	<1	<1	<1
Chlorobenzene	ug/L	100 (A)	25	4.70E+05	1.60E+05	<5	<5	<1	<1	<1	<1	<1	<1	<5	<30	<50	<5	<1	<1	<1	<1	<1	<1
Chloroethane	ug/L	1,700	1,100 (X)	5.7E+06 (S)	1.10E+05	<10	<10	<5	<5	<5	<5	<5	<5	<10	<100	<300	<10	<5	<5	<5	<5	<5	<5
Chloroform	ug/L	80 (A, W)	350	1.80E+05	ID	<5	<5	<1	<1	<1	<1	<1	<1	<5	<30	<50	<5	<1	<1	<1	<1	<1	<1
Chloromethane	ug/L	1,100	ID	45,000	36,000	<10	<10	<5	<5	<5	<5	<5	<5	<10	<100	<300	<10	<5	<5	<5	<5	<5	<5
Dibromochloromethane	ug/L	80 (A, W)	ID	1.10E+05	ID	<5	<5	<5	<5	<5	<5	<5	<5	<5	<100	<300	<5	<5	<5	<5	<5	<5	<5
Ethylbenzene	ug/L	74 (E)	18	1.7E+05 (S)	43,000	**1,500**	<5	<1	<1	<1	<1	<1	<1	**54**	**150**	**650 Y**	<5	<1	<1	<1	<1	<1	<1
Isopropylbenzene	ug/L	2,300	28	56,000 (S)	29,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	ug/L	5.0 (A)	1,500 (X)	1.40E+06	ID	<5	<5	<5	<5	<5	<5	<5	<5	<5	<100	<300	<5	<5	<5	<5	<5	<5	<5
n-Propylbenzene	ug/L	230	ID	ID	ID	NA	NA	<1	<1	<1	<1	<1	<1	NA	<30	100 Y	NA	<1	<1	<1	<1	<1	<1
Styrene	ug/L	100 (A)	80 (X)	3.1E+05 (S)	1.40E+05	<5	<5	<1	<1	<1	<1	<1	<1	<5	<30	<50	<5	<1	<1	<1	<1	<1	<1
Tetrachloroethylene	ug/L	5.0 (A)	60 (X)	1.70E+05	ID	<5	<5	<1	<1	<1	<1	<1	<1	<5	<30	<50	<5	<1	<1	<1	<1	<1	<1
Toluene	ug/L	790 (E)	270	5.3E+05 (S)	61,000	**520**	<5	<1	<1	<1	<1	<1	<1	140 J	**740**	70 Y	<5	<1	<1	<1	<1	<1	<1
Trichloroethene	ug/L	5.0 (A)	200 (X)	4,900	ID	<5	<5	<1	<1	<1	<1	<1	<1	<5	<30	<50	<5	<1	<1	<1	<1	<1	<1
Vinyl chloride	ug/L	2.0 (A)	13 (X)	13,000	33,000	<2	<2	<1	<1	<1	<1	<1	<1	<2	<30	<50	<2	<1	<1	<1	<1	<1	<1
cis-1,2-Dichloroethene	ug/L	70 (A)	620	2.10E+05	5.30E+05	<5	<5	<1	<1	<1	<1	<1	<1	19	<30	<50	<5	<1	<1	<1	<1	<1	<1
cis-1,3-Dichloropropene	ug/L	none	none	none	none	<5	<5	<1	<1	<1	<1	<1	<1	<5	<30	<50	<5	<1	<1	<1	<1	<1	<1
m,p-Xylene	ug/L	none	none	none	none	4,400	<5	<2	<2	<1	<1	<1	<2	240	260	600 Y	<5	<2	<2	<1	<1	<2	<2
o-Xylene	ug/L	none	none	none	none	1,200	<5	<1	<1	<2	<2	<2	<1	87	40	60 Y	<5	<1	<1	<2	<2	<1	<1
Xylenes, Total	ug/L	280 (E)	41	1.9E+05 (S)	70,000	**5,600**	<5	<3	NA	<3	<3	<3	<3	**327**	**300**	NA	<5	<3	NA	<3	<3	<3	<3
trans-1,2-Dichloroethene	ug/L	100 (A)	1,500 (X)	2.0E+05 (S)	2.3E+05 (S)	<5	<5	<1	<1	<1	<1	<1	<1	<5	<30	<50	<5	<1	<1	<1	<1	<1	<1
trans-1,3-Dichloropropene	ug/L	none	none	none	none	<5	<5	<1	<1	<1	<1	<1	<1	<5	<30	<50	<5	<1	<1	<1	<1	<1	<1
1,2-Dichloroethene (total)	ug/L	none	none	none	none	<5	<5	<2	NA	NA	NA	NA	NA	19	<30	NA	<5	<1	NA	NA	NA	NA	NA
1,2,3-Trimethylbenzene	ug/L	none	none	none	none	NA	NA	<5	<1	<1	<1	<1	<1	NA	<30	<50	NA	<1	<1	<1	<1	<1	<1
Other Target VOCs	ug/L	various	various	various	various	ND	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)	7,100 (X)	4.7E+07 (S)	ID	**85**	<1	<5	<5	<5	<5	<5	<5	<10	<100	<300	<1	<5	<5	<5	<5	<5	<5
Dissolved Metals (Method 6020)																							
Lead	mg/L	0.004 (L)	(G,X)	NLV	ID	**0.00734**	<0.005	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.005	**0.019**	<0.003	<0.005	<0.001	<0.003	<0.003	<0.003	<0.003	<0.003

Notes: See Last Page

Table 2
Groundwater Analytical Data
Former GM Employee Development Center
65 East University
Pontiac, Michigan

Sample ID:	Units	Michigan Groundwater Cleanup Criteria and Risk Based Screening Levels				Sump in Basement	MW-5 Outside East-SE Corner of Building - Boiler Room Sump	MW-5 Outside East-SE Corner of Building - Boiler Room Sump	MW-5 Outside East-SE Corner of Building - Boiler Room Sump	MW-5 Outside East-SE Corner of Building - Boiler Room Sump	MW-5 Outside East-SE Corner of Building - Boiler Room Sump	MW-5 Outside East-SE Corner of Building - Boiler Room Sump	MW-5 Outside East-SE Corner of Building - Boiler Room Sump	MW-5 Outside East-SE Corner of Building - Boiler Room Sump	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
Date Collected:		Non-Residential Drinking Water Protection Criteria & RBSLs	Groundwater Surface Water Interface Criteria & RBSLs	Non-Residential Groundwater Volatilization to Indoor Air Inhalation Criteria & RBSLs	Flammability and Explosivity Screening Level	12/11/2006	12/11/2006	2/13/2008	11/3/2010	2/1/2013	6/25/2013	9/19/2013	5/22/2014	10/27/2014	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
Screened Interval (feet bgl):							7-17	7-17	7-17	7-17	7-17	7-17	7-17	7-17	3-13	3-13	5-15	5-15	8-18	8-18	8-18	8-18	8-18
Analytical Parameter																							
TPH (EPA Method 418.1)	mg/L	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	<0.1	<0.1	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	<0.1	<0.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fuel Oil	mg/L	none	none	none	none	<0.1	<0.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hydraulic Fluid	mg/L	none	none	none	none	1.2	<0.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Kerosene	mg/L	none	none	none	none	<0.1	<0.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mineral Spirits	mg/L	none	none	none	none	<0.1	<0.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Motor Oil	mg/L	none	none	none	none	<0.1	0.19	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	<0.1	<0.1	<5	NA	<5	<5	<5	<5	NA	31	NA	31	NA	8	NA	<5	<5	<5
2-Methylnaphthalene	ug/L	750	19	25,000 (S)	ID	<0.1	<0.1	<5	<5	<5	<5	<5	<5	<5**	**51**	**21**	**52**	**52**	17	**21**	<5	5	8
Acenaphthene	ug/L	3,800	38	4,200 (S)	ID	<0.1	<0.1	<5	<5	<5	<5	<5	<5	NA	<5	<5	<5	<5	<5	<5	<5	<5	<5
Acenapthylene	ug/L	150	ID	3,900 (S)	ID	<0.1	<0.1	<5	<5	<5	<5	<5	<5	NA	<5	<5	<5	<5	<5	<5	<5	<5	<5
Anthracene	ug/L	43 (S)	ID	43 (S)	ID	<0.1	<0.1	<5	<5	<5	<5	<5	<5	NA	<5	<5	<5	<5	<5	<5	<5	<5	<5
Benz(a)anthracene	ug/L	8.5	ID	NLV	ID	<0.1	<0.1	<5	<1	<1	<1	<1	<1	NA	<5	<2	<5	<2	<5	<2	<1	<1	<1
Benzo(a)pyrene	ug/L	5.0 (A)	ID	NLV	ID	<0.1	<0.1	<5	<1	<1	<1	<1	<1	NA	<5	<2	<5	<2	<5	<2	<1	<1	<1
Benzo(b)fluoranthene	ug/L	1.5 (S, AA)	ID	ID	ID	<0.1	<0.1	<5	<1	<1	<1	<1	<1	NA	<5	<2	<5	<2	<5	<2	<1	<1	<1
Benzo(g,h,i)perylene	ug/L	1.0 (M); 0.26 (S)	NA	NLV	ID	<0.1	<0.1	<5	<1	<1	<1	<1	<1	NA	<5	<2	<5	<2	<5	<2	<1	<1	<1
Benzo(k)fluoranthene	ug/L	1.0 (M); 0.8 (S)	NA	NLV	ID	<0.1	<0.1	<5	<1	<1	<1	<1	<1	NA	<5	<2	<5	<2	<5	<2	<1	<1	<1
Chrysene	ug/L	1.6 (S)	ID	ID	ID	<0.1	<0.1	<5	<1	<1	<1	<1	<1	NA	<5	<2	<5	<2	<5	<2	<1	<1	<1
Dibenzo(a,h)anthracene	ug/L	2.0 (M); 0.85	ID	NLV	ID	<0.1	<0.1	<5	<2	<2	<2	<2	<2	NA	<5	<2	<5	<2	<5	<2	<2	<2	<2
Fluoranthene	ug/L	210 (S)	1.6	210 (S)	ID	<0.1	<0.1	<5	<1	<1	<1	<1	<1	NA	<5	<2	<5	<2	<5	<2	<1	<1	<1
Fluorene	ug/L	2,000 (S)	12	2,000 (S)	ID	<0.1	<0.1	<5	<5	<5	<5	<5	<5	NA	<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	ID	<0.015	<0.1	<5	<2	<2	<2	<2	<2	NA	<5	<2	<5	<2	<5	<2	<2	<2	<2
Naphthalene	ug/L	1,500	11	31,000 (S)	NA	<0.1	<0.1	<5	<5	<5	<5	<5	<5	<5**	**135**	**72**	**142**	**156**	**109**	**134**	**21**	**39**	**43**
Phenanthrene	ug/L	150	2.0 (M); 1.4	1,000 (S)	ID	<0.1	<0.1	<5	<2	<2	<2	<2	<2	NA	<5	<2	<5	<2	<5	<2	<2	<2	<2
Pyrene	ug/L	140 (S)	ID	140 (S)	ID	0.15	<0.1	<5	<5	<5	<5	<5	<5	NA	<5	<5	<5	<5	<5	<5	<5	<5	<5
Other Target PAHs	ug/L	various	various	various	various	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
VOCs (EPA Method 8260)																							
1,1,1-Trichloroethane	ug/L	200 (A)	89	1.3E+06 (S)	ID	<5	<5	<1	<1	<1	<1	<1	<1	<1	<300	<50	<50	<100	<200	<100	<20	<20	<20
1,1,2,2-Tetrachloroethane	ug/L	35	78 (X)	77,000	ID	<5	<5	<1	<1	<1	<1	<1	<1	<1	<300	<50	<50	<100	<200	<100	<20	<20	<20
1,1,2-Trichloroethane	ug/L	5.0 (A)	330 (X)	1.10E+05	NA	<5	<5	<1	<1	<1	<1	<1	<1	<1	<300	<50	<50	<100	<200	<100	<20	<20	<20
1,1-Dichloroethane	ug/L	2,500	740	2.30E+06	3.80E+05	<5	<5	<1	<1	<1	<1	<1	<1	<1	<300	<50	<50	<100	<200	<100	<20	<20	<20
1,1-Dichloroethene	ug/L	7.0 (A)	130	1,300	97,000	<5	<5	<1	<1	<1	<1	<1	<1	1	<300	<50	<50	<100	<200	<100	<20	<20	<20
1,2,4-Trimethylbenzene	ug/L	63 (E)	17	56,000 (S)	56,000 (S)	<5	<5	<1	<1	<1	<1	<1	<1	<1	**500**	**610 Y**	**1,150**	**500 Y**	**900**	**400 Y**	**280**	**450**	**450**
1,2-Dichloroethane	ug/L	5.0 (A)	360 (X)	59,000	2.50E+06	<5	<5	<1	<1	<1	<1	<1	<1	<1	<300	<230	<50	<100	<200	<210	<20	<20	<20
1,2-Dichloropropane	ug/L	5.0 (A)	230 (X)	36,000	5.50E+05	<5	<5	<1	<1	<1	<1	<1	<1	<1	<300	<50	<50	<100	<200	<100	<20	<20	<20
1,3,5-Trimethylbenzene	ug/L	72 (E)	45	61,000 (S)	ID	<5	<5	<1	<1	<1	<1	<1	<1	<1	<300	**80 Y**	**310**	**200 Y**	**300**	**100 Y**	**50**	**70**	**100**
2-Butanone	ug/L	38,000	2,200	2.4E+08 (S)	ID	<20	<20	<30	<30	<25	<25	<25	<25	<25	<6,000	<1000	<1,000	<3000	<5,000	<3000	<500	<500	<500
2-Hexanone	ug/L	2,900	ID	8.70E+06	NA	<10	<10	<50	<50	<50	<50	<50	<50	<50	<10,000	<3000	<3,000	<5000	<10,000	<5000	<1,000	<1,000	<1,000
4-Methyl-2-pentanone	ug/L	5,200	ID	2.0E+07 (S)	ID	<10	<10	<50	<50	<50	<50	<50	<50	<50	<10,000	<3000	<3,000	<5000	<10,000	<5000	<1,000	<1,000	<1,000
Acetone	ug/L	2,100	1,700	1.0E+09 (D,S)	1.50E+07	<100	<100	<50	<50	<50	<50	<50	<50	<50	<10,000	<3000	<3,000	<5000	<10,000	<5000	<1,000	<1,000	<1,000
Benzene	ug/L	5.0 (A)	200 (X)	35,000	68,000	**8**	<5	<1	<1	<1	<1	<1	<1	<1	**13,200**	**5930 Y**	**1,240**	**1700 Y**	**7,900**	**5800 Y**	**1,530**	**2,100**	**2,350**
Bromochloromethane	ug/L	none	none	none	none	<5	<5	<1	<1	<1	<1	<1	<1	<1	<300	<50	<50	<100	<200	<100	<20	<20	<20
Bromoform	ug/L	80 (A,W)	ID	3.10E+06	ID	<5	<5	<1	<1	<1	<1	<1	<1	<1	<300	<50	<50	<100	<200	<100	<20	<20	<20
Bromomethane	ug/L	29	35	9,000	ID	<10	<10	<5	<5	<5	<5	<5	<5	<5	<1,000	<300	<300	<500	<1,000	<500	<100	<100	<100
n-Butylbenzene	ug/L	230	ID	ID	ID	NA	NA	<1	<1	<1	<1	<1	<1	<1	<300	<50	<50	<100	<200	<100	<20	<20	<20
sec-Butylbenzene	ug/L	230	ID	ID	ID	ND	ND	ND	ND	ND	ND	ND	ND	<1	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon disulfide	ug/L	2,300	ID	5.50E+05	13,000	<5	<5	<5	<5	<5	<5	<5	<5	<5	<1,000	<300	<300	<500	<1,000	<500	<100	<100	<100
Carbon tetrachloride	ug/L	5.0 (A)	45 (X)	2,400	ID	<5	<5	<1	<1	<1	<1	<1	<1	<1	<300	<50	<50	<100	<200	<100	<20	<20	<20
Chlorobenzene	ug/L	100 (A)	25	4.70E+05	1.60E+05	<5	<5	<1	<1	<1	<1	<1	<1	<1	<300	<50	<50	<100	<200	<100	<20	<20	<20
Chloroethane	ug/L	1,700	1,100 (X)	5.7E+06 (S)	1.10E+05	<10	<10	<5	<5	<5	<5	<5	<5	<5	<1,000	<300	<300	<500	<1,000	<500	<100	<100	<100
Chloroform	ug/L	80 (A, W)	350	1.80E+05	ID	<5	<5	<1	<1	<1	<1	<1	<1	<1	<300	<50	<50	<100	<200	<100	<20	<20	<20
Chloromethane	ug/L	1,100	ID	45,000	36,000	<10	<10	<5	<5	<5	<5	<5	<5	<5	<1,000	<300	<300	<500	<1,000	<500	<100	<100	<100
Dibromochloromethane	ug/L	80 (A, W)	ID	1.10E+05	ID	<5	<5	<5	<5	<5	<5	<5	<5	<5	<1,000	<300	<300	<500	<1,000	<500	<100	<100	<100
Ethylbenzene	ug/L	74 (E)	18	1.7E+05 (S)	43,000	<5	<5	<1	<1	<1	<1	<1	<1	<1	**1,000**	**1020 Y**	**2,980**	**2000 Y**	**2,000**	**1400 Y**	**460**	**770**	**910**
Isopropylbenzene	ug/L	2,300	28	56,000 (S)	29,000	ND	ND	ND	ND	ND	ND	ND	ND	<5	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	ug/L	5.0 (A)	1,500 (X)	1.40E+06	ID	<5	<5	<5	<5	<5	<5	<5	<5	<5	<1,000	<300	<300	<500	<1,000	<500	<100	<100	<100
n-Propylbenzene	ug/L	230	ID	ID	ID	NA	NA	<1	<1	<1	<1	<1	<1	<1	<300	90	170	<100	<200	<100	40	80	80
Styrene	ug/L	100 (A)	80 (X)	3.1E+05 (S)	1.40E+05	<5	<5	<1	<1	<1	<1	<1	<1	<1	<300	<50	<70	<100	<200	<100	<20	<20	<20
Tetrachloroethylene	ug/L	5.0 (A)	60 (X)	1.70E+05	ID	<5	<5	<1	<1	<1	<1	<1	<1	<1	<300	<50	<50	<100	<200	<100	<20	<20	<20
Toluene	ug/L	790 (E)	270	5.3E+05 (S)	61,000	<5	<5	<1	<1	<1	<1	<1	<1	<1	**6,600**	**1890 Y**	**7,560**	**3800 Y**	**6,800**	**7900 Y**	40	130	130
Trichloroethene	ug/L	5.0 (A)	200 (X)	4,900	ID	<5	**11**	**14**	**23**	**59**	**62**	**65**	**49**	**65**	<300	<50	<50	<100	<200	<100	<20	<20	<20
Vinyl chloride	ug/L	2.0 (A)	13 (X)	13,000	33,000	<2	<2	<1	<1	<1	<1	<1	<1	1	**1,500**	**170 Y**	<50	<100	<200	<100	<20	<20	<20
cis-1,2-Dichloroethene	ug/L	70 (A)	620	2.10E+05	5.30E+05	<5	<5	<1	2	8	9	10	8	11	**2,200**	**480 Y**	<50	<100	<200	<100	<20	<20	<20
cis-1,3-Dichloropropene	ug/L	none	none	none	none	<5	<5	<1	<1	<1	<1	<1	<1	<1	<300	<50	<50	<100	<200	<100	<20	<20	<20
m,p-Xylene	ug/L	none	none	none	none	<5	<5	<2	<2	<1	<1	<1	<2	<1	2,600	1500 Y	9,000	5500 Y	7,000	4800 Y	900	1,340	590
o-Xylene	ug/L	none	none	none	none	<5	<5	<1	<1	<2	<2	<2	<1	<2	700	350 Y	1,990	1300 Y	1,600	2000 Y	270	430	1,920
Xylenes, Total	ug/L	280 (E)	41	1.9E+05 (S)	70,000	<5	<5	<3	NA	<3	<3	<3	<3	<3	**3,300**	**1850 Y**	**10,990**	**6800 Y**	**8,600**	**6800 Y**	**1,170**	**1,770**	**2,510**
trans-1,2-Dichloroethene	ug/L	100 (A)	1,500 (X)	2.0E+05 (S)	2.3E+05 (S)	<5	<5	<1	<1	<1	<1	<1	<1	<1	<300	<50	<50	<100	<200	<100	<20	<20	<20
trans-1,3-Dichloropropene	ug/L	none	none	none	none	<5	<5	<1	<1	<1	<1	<1	<1	<1	<300	<50	<50	<100	<200	<100	<20	<20	<20
1,2-Dichloroethene (total)	ug/L	none	none	none	none	<5	<5	<1	NA	NA	NA	NA	NA	NA	<300	NA	<50	NA	<200	NA	NA	NA	NA
1,2,3-Trimethylbenzene	ug/L	none	none	none	none	NA	NA	<1	<1	<1	<1	<1	<1	<1	<300	170 Y	310	200 Y	300	100 Y	60	110	140
Other Target VOCs	ug/L	various	various	various	various	ND	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)	7,100 (X)	4.7E+07 (S)	ID	<1	<1	<5	<5	<5	<5	<5	<5	<5	<1	<300	<300	<500	<1,000	<500	<100	<100	<100
Dissolved Metals (Method 6020)																							
Lead	mg/L	0.004 (L)	(G,X)	NLV	ID	<0.005	<0.005	<0.001	<0.003	<0.003	<0.003	<0.003	<0.003	NA	0.004	<0.003	**0.034**	0.004	**0.010**	<0.003	<0.003	<0.003	<0.003

Notes: See Last Page

Table 2
Groundwater Analytical Data
Former GM Employee Development Center
65 East University
Pontiac, Michigan

Sample ID:	Units	Michigan Groundwater Cleanup Criteria and Risk Based Screening Levels				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-9 South of Building on Sidewalk	MW-9 South of Building on Sidewalk	MW-10 East-Northeast of Building	MW-10 East-Northeast of Building	MW-10 East-Northeast of Building	MW-10 East-Northeast of Building	MW-10 East-Northeast of Building	MW-10 East-Northeast of Building	MW-10 East-Northeast of Building	MW-11 West of Building on Sidewalk	MW-11 West of Building on Sidewalk
Date Collected:		Non-Residential Drinking Water Protection Criteria & RBSLs	Groundwater Surface Water Interface Criteria & RBSLs	Non-Residential Groundwater Volatilization to Indoor Air Inhalation Criteria & RBSLs	Flammability and Explosivity Screening Level	5/22/2014	10/28/2014	7/28/2008	11/3/2010	2/1/2013	6/27/2013	9/19/2013	5/23/2014	10/27/2014	2/12/2008	7/28/2008	11/2/2010	1/29/2013	6/25/2013	9/17/2013	5/21/2014	2/13/2008	11/2/2010
Screened Interval (feet bgl):						8-18	8-18	3-13	3-13	3-13	3-13	3-13	3-13	3-13	6-16	6-16	6-16	6-16	6-16	6-16	6-16	9-19	9-19
Analytical Parameter																							
TPH (EPA Method 418.1)	mg/L	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	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	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	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	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	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	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	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	<5	NA	NA	NA	<5	<5	<5	<5	NA	<5	NA	NA	<5	<5	<5	<5	<5	NA
2-Methylnaphthalene	ug/L	750	19	25,000 (S)	ID	9	<100**	<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)	ID	<5	NA	<5	<5	<5	<5	<5	<5	NA	<5	<5	<5	<5	<5	<5	<5	<5	<5
Acenapthylene	ug/L	150	ID	3,900 (S)	ID	<5	NA	<5	<5	<5	<5	<5	<5	NA	<5	<5	<5	<5	<5	<5	<5	<5	<5
Anthracene	ug/L	43 (S)	ID	43 (S)	ID	<5	NA	<5	<5	<5	<5	<5	<5	NA	<5	<5	<5	<5	<5	<5	<5	<5	<5
Benz(a)anthracene	ug/L	8.5	ID	NLV	ID	<2	NA	<1	<1	<1	<1	<1	<1	NA	<5	<1	<1	<1	<1	<1	<1	<5	<1
Benzo(a)pyrene	ug/L	5.0 (A)	ID	NLV	ID	<2	NA	<1	<1	<1	<1	<1	<1	NA	<5	<1	<1	<1	<1	<1	<1	<5	<1
Benzo(b)fluoranthene	ug/L	1.5 (S, AA)	ID	ID	ID	<2	NA	<1	<1	<1	<1	<1	<1	NA	<5	<1	<1	<1	<1	<1	<1	<5	<1
Benzo(g,h,i)perylene	ug/L	1.0 (M); 0.26 (S)	NA	NLV	ID	<2	NA	<1	<1	<1	<1	<1	<1	NA	<5	<1	<1	<1	<1	<1	<1	<5	<1
Benzo(k)fluoranthene	ug/L	1.0 (M); 0.8 (S)	NA	NLV	ID	<2	NA	<1	<1	<1	<1	<1	<1	NA	<5	<1	<1	<1	<1	<1	<1	<5	<1
Chrysene	ug/L	1.6 (S)	ID	ID	ID	<2	NA	<1	<1	<1	<1	<1	<1	NA	<5	<1	<1	<1	<1	<1	<1	<5	<1
Dibenzo(a,h)anthracene	ug/L	2.0 (M); 0.85	ID	NLV	ID	<2	NA	<2	<2	<2	<2	<2	<2	NA	<5	<2	<2	<2	<2	<2	<2	<5	<2
Fluoranthene	ug/L	210 (S)	1.6	210 (S)	ID	<2	NA	<1	<1	<1	<1	<1	<1	NA	<5	<1	<1	<1	<1	<1	<1	<5	<1
Fluorene	ug/L	2,000 (S)	12	2,000 (S)	ID	<5	NA	<5	<5	<5	<5	<5	<5	NA	<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	ID	<2	NA	<2	<2	<2	<2	<2	<2	NA	<5	<2	<2	<2	<2	<2	<2	<5	<2
Naphthalene	ug/L	1,500	11	31,000 (S)	NA	**54**	**100****	<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)	ID	<2	NA	<2	<2	<2	<2	<2	<2	NA	<5	<2	<2	<2	<2	<2	<2	<5	<2
Pyrene	ug/L	140 (S)	ID	140 (S)	ID	<5	NA	<5	<5	<5	<5	<5	<5	NA	<5	<5	<5	<5	<5	<5	<5	<5	<5
Other Target PAHs	ug/L	various	various	various	various	ND	NA	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
VOCs (EPA Method 8260)																							
1,1,1-Trichloroethane	ug/L	200 (A)	89	1.3E+06 (S)	ID	<20	<20	<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	ID	<20	<20	<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	NA	<20	<20	<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	3.80E+05	<20	<20	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-Dichloroethene	ug/L	7.0 (A)	130	1,300	97,000	<20	<20	<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)	**830**	**1,030**	<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	2.50E+06	<20	<20	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloropropane	ug/L	5.0 (A)	230 (X)	36,000	5.50E+05	<20	<20	<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)	ID	**230**	**300**	<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)	ID	<500	<500	<30	<30	<25	<25	<25	<25	<25	<30	<30	<30	<25	<25	<25	<25	<30	<30
2-Hexanone	ug/L	2,900	ID	8.70E+06	NA	<1,000	<1000	<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)	ID	<1,000	<1000	<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)	1.50E+07	<1,000	<1000	<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	68,000	**3,870**	**3,880**	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromochloromethane	ug/L	none	none	none	none	<20	<20	<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	ID	<20	<20	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromomethane	ug/L	29	35	9,000	ID	<100	<100	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
n-Butylbenzene	ug/L	230	ID	ID	ID	<20	<20	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
sec-Butylbenzene	ug/L	230	ID	ID	ID	ND	<20	ND	ND	ND	ND	ND	ND	<1	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon disulfide	ug/L	2,300	ID	5.50E+05	13,000	<100	<100	<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	ID	<20	<20	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlorobenzene	ug/L	100 (A)	25	4.70E+05	1.60E+05	<20	<20	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroethane	ug/L	1,700	1,100 (X)	5.7E+06 (S)	1.10E+05	<100	<100	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Chloroform	ug/L	80 (A, W)	350	1.80E+05	ID	<20	<20	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloromethane	ug/L	1,100	ID	45,000	36,000	<100	<100	<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	ID	<100	<100	<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)	43,000	**1,730**	**2,050**	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Isopropylbenzene	ug/L	2,300	28	56,000 (S)	29,000	ND	<100	ND	ND	ND	ND	ND	ND	<5	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	ug/L	5.0 (A)	1,500 (X)	1.40E+06	ID	<100	<100	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
n-Propylbenzene	ug/L	230	ID	ID	ID	160	200	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Styrene	ug/L	100 (A)	80 (X)	3.1E+05 (S)	1.40E+05	<40	<20	<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	ID	<20	<20	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	ug/L	790 (E)	270	5.3E+05 (S)	61,000	**290**	240	<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	ID	<20	<20	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vinyl chloride	ug/L	2.0 (A)	13 (X)	13,000	33,000	<20	<20	<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	5.30E+05	<20	<20	<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	<20	<20	<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	4,540	880	<2	<2	<1	<1	<1	<2	<1	<2	<2	<2	<1	<1	<1	<2	<2	<2
o-Xylene	ug/L	none	none	none	none	910	5,850	<1	<1	<2	<2	<2	<1	<2	<1	<1	<1	<2	<2	<2	<1	<1	<1
Xylenes, Total	ug/L	280 (E)	41	1.9E+05 (S)	70,000	**5,450**	**6,730**	<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 (X)	2.0E+05 (S)	2.3E+05 (S)	<20	<20	<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	<20	<20	<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	NA	NA	<2	NA	NA	NA	NA	NA	NA	<1	<2	NA	NA	NA	NA	NA	<1	NA
1,2,3-Trimethylbenzene	ug/L	none	none	none	none	210	290	<5	<1	<1	<1	<1	<1	<1	<1	<5	<1	<1	<1	<1	<1	<1	<1
Other Target VOCs	ug/L	various	various	various	various	ND	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)	7,100 (X)	4.7E+07 (S)	ID	<100	<100	<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	<0.003	NA	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	NA	<0.001	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.001	<0.003

Notes: See Last Page

Table 2
Groundwater Analytical Data
Former GM Employee Development Center
65 East University
Pontiac, Michigan

Sample ID:	Units	Michigan Groundwater Cleanup Criteria and Risk Based Screening Levels				MW-11 West of Building on Sidewalk	MW-11 West of Building on Sidewalk	MW-11 West of Building on Sidewalk	MW-11 West of Building on Sidewalk	MW-11 West of Building on Sidewalk	MW-12 Outside East of the Building - Northeast of Freight Elevator	MW-12 Outside East of the Building - Northeast of Freight Elevator	MW-12 Outside East of the Building - Northeast of Freight Elevator	MW-12 Outside East of the Building - Northeast of Freight Elevator	MW-12 Outside East of the Building - Northeast of Freight Elevator	MW-12 Outside East of the Building - Northeast of Freight Elevator		MW-12 Outside East of the Building - Northeast of Freight Elevator		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
Date Collected:		Non-Residential Drinking Water Protection Criteria & RBSLs	Groundwater Surface Water Interface Criteria & RBSLs	Non-Residential Groundwater Volatilization to Indoor Air Inhalation Criteria & RBSLs	Flammability and Explosivity Screening Level	1/30/2013	6/27/2013	9/19/2013	5/23/2014	10/27/2014	2/12/2008	11/3/2010	1/31/2013	6/27/2013	9/19/2013	5/22/2014		10/28/2014		2/12/2008	11/1/2010	1/29/2013	6/26/2013
Screened Interval (feet bgl):						9-19	9-19	9-19	9-19	9-19	9-19	9-19	9-19	9-19	9-19	9-19		9-19		8-18	8-18	8-18	8-18
Analytical Parameter																							
TPH (EPA Method 418.1)	mg/L	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	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	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA	NA	NA	NA
Fuel Oil	mg/L	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	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA	NA	NA	NA
Kerosene	mg/L	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	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA	NA	NA	NA
Motor Oil	mg/L	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	<5	<5	<5	<5	NA	<5	NA	<5	<5	<5	<5	<5	NA		<5	NA	<5	<5
2-Methylnaphthalene	ug/L	750	19	25,000 (S)	ID	<5	<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)	ID	<5	<5	<5	<5	NA	<5	<5	<5	<5	<5	<5	<5	NA		<5	<5	<5	<5
Acenapthylene	ug/L	150	ID	3,900 (S)	ID	<5	<5	<5	<5	NA	<5	<5	<5	<5	<5	<5	<5	NA		<5	<5	<5	<5
Anthracene	ug/L	43 (S)	ID	43 (S)	ID	<5	<5	<5	<5	NA	<5	<5	<5	<5	<5	<5	<5	NA		<5	<5	<5	<5
Benz(a)anthracene	ug/L	8.5	ID	NLV	ID	<2	<1	<1	<1	NA	<5	<1	<1	<1	<1	<1	<1	NA		<5	<1	<1	<1
Benzo(a)pyrene	ug/L	5.0 (A)	ID	NLV	ID	<2	<1	<1	<1	NA	<5	<1	<1	<1	<1	<1	<1	NA		<5	<1	<1	<1
Benzo(b)fluoranthene	ug/L	1.5 (S, AA)	ID	ID	ID	<2	<1	<1	<1	NA	<5	<1	<1	<1	<1	<1	<1	NA		<5	<1	<1	<1
Benzo(g,h,i)perylene	ug/L	1.0 (M); 0.26 (S)	NA	NLV	ID	<2	<1	<1	<1	NA	<5	<1	<1	<1	<1	<1	<1	NA		<5	<1	<1	<1
Benzo(k)fluoranthene	ug/L	1.0 (M); 0.8 (S)	NA	NLV	ID	<2	<1	<1	<1	NA	<5	<1	<1	<1	<1	<1	<1	NA		<5	<1	<1	<1
Chrysene	ug/L	1.6 (S)	ID	ID	ID	<2	<1	<1	<1	NA	<5	<1	<1	<1	<1	<1	<1	NA		<5	<1	<1	<1
Dibenzo(a,h)anthracene	ug/L	2.0 (M); 0.85	ID	NLV	ID	<2	<2	<2	<2	NA	<5	<2	<2	<2	<2	<2	<2	NA		<5	<2	<2	<2
Fluoranthene	ug/L	210 (S)	1.6	210 (S)	ID	<2	<1	<1	<1	NA	<5	<1	<1	<1	<1	<1	<1	NA		<5	<1	<1	<1
Fluorene	ug/L	2,000 (S)	12	2,000 (S)	ID	<5	<5	<5	<5	NA	<5	<5	<5	<5	<5	<5	<5	NA		<5	<5	<5	<5
Indeno(1,2,3-cd)pyrene	ug/L	2.0 (M); 0.022 (S)	ID	NLV	ID	<2	<2	<2	<2	NA	<5	<2	<2	<2	<2	<2	<2	NA		<5	<2	<2	<2
Naphthalene	ug/L	1,500	11	31,000 (S)	NA	<5	<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)	ID	<2	<2	<2	<2	NA	<5	<2	<2	<2	<2	<2	<2	NA		<5	<2	<2	<2
Pyrene	ug/L	140 (S)	ID	140 (S)	ID	<5	<5	<5	<5	NA	<5	<5	<5	<5	<5	<5	<5	NA		<5	<5	<5	<5
Other Target PAHs	ug/L	various	various	various	various	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	NA		ND	ND	ND	ND
VOCs (EPA Method 8260)																							
1,1,1-Trichloroethane	ug/L	200 (A)	89	1.3E+06 (S)	ID	<1	<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	ID	<1	<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	NA	<1	<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	3.80E+05	<1	<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)	130	1,300	97,000	<1	<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)	<1	<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	2.50E+06	<1	<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)	230 (X)	36,000	5.50E+05	<1	<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)	ID	<1	<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)	ID	<25	<25	<25	<25	<25	<30	<30	<25	<25	<25	<25	<25	<25	<25	<30	<30	<25	<25
2-Hexanone	ug/L	2,900	ID	8.70E+06	NA	<50	<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)	ID	<50	<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)	1.50E+07	<50	<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	68,000	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromochloromethane	ug/L	none	none	none	none	<1	<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	ID	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromomethane	ug/L	29	35	9,000	ID	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
n-Butylbenzene	ug/L	230	ID	ID	ID	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
sec-Butylbenzene	ug/L	230	ID	ID	ID	ND	ND	ND	ND	<1	ND	ND	ND	ND	ND	ND	ND	<1	<1	ND	ND	ND	ND
Carbon disulfide	ug/L	2,300	ID	5.50E+05	13,000	<5	<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	ID	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlorobenzene	ug/L	100 (A)	25	4.70E+05	1.60E+05	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroethane	ug/L	1,700	1,100 (X)	5.7E+06 (S)	1.10E+05	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Chloroform	ug/L	80 (A, W)	350	1.80E+05	ID	<1	<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	36,000	<5	<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	ID	<5	<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)	43,000	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Isopropylbenzene	ug/L	2,300	28	56,000 (S)	29,000	ND	ND	ND	ND	<5	ND	ND	ND	ND	ND	ND	ND	<5	<5	ND	ND	ND	ND
Methylene chloride	ug/L	5.0 (A)	1,500 (X)	1.40E+06	ID	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
n-Propylbenzene	ug/L	230	ID	ID	ID	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Styrene	ug/L	100 (A)	80 (X)	3.1E+05 (S)	1.40E+05	<1	<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	ID	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	ug/L	790 (E)	270	5.3E+05 (S)	61,000	<1	<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	ID	<1	<1	<1	<1	<1	5	**9**	**8**	**7**	**8**	5	5	**8**	**8**	<1	<1	<1	<1
Vinyl chloride	ug/L	2.0 (A)	13 (X)	13,000	33,000	<1	<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	5.30E+05	<1	<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	<1	<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	<1	<1	<1	<2	<1	<2	<2	<1	<1	<1	<2	<2	<1	<1	<2	<2	<1	<1
o-Xylene	ug/L	none	none	none	none	<2	<2	<2	<1	<2	<1	<1	<2	<2	<2	<1	<1	<2	<2	<1	<1	<2	<2
Xylenes, Total	ug/L	280 (E)	41	1.9E+05 (S)	70,000	<3	<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 (X)	2.0E+05 (S)	2.3E+05 (S)	<1	<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	<1	<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	NA	NA	NA	NA	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA	NA
1,2,3-Trimethylbenzene	ug/L	none	none	none	none	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Other Target VOCs	ug/L	various	various	various	various	ND	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)	7,100 (X)	4.7E+07 (S)	ID	<5	<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	<0.003	<0.003	<0.003	<0.003	NA	<0.001	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	NA	NA	<0.001	<0.003	<0.003	<0.003

Notes: See Last Page

Table 2
Groundwater Analytical Data
Former GM Employee Development Center
65 East University
Pontiac, Michigan

Sample ID:	Units	Michigan Groundwater Cleanup Criteria and Risk Based Screening Levels				MW-13	MW-13	MW-14	MW-14	MW-14	MW-14	MW-14	MW-14	MW-15	MW-15	MW-16	MW-16	MW-16	MW-16	MW-16	MW-16	MW-17	
						North of Building Along Mill Street Fence	North of Building Along Mill Street Fence	North of Building Along Mill Street Fence	North of Building Along Mill Street Fence	North of Building Along Mill Street Fence	North of Building Along Mill Street Fence	North of Building Along Mill Street Fence	North of Building Along Mill Street Fence	East-Northeast of Building	East-Northeast of Building	East-Northeast of Building	East-Northeast of Building	East-Northeast of Building	East-Northeast of Building	East-Northeast of Building	East-Northeast of Building	East of Building - Auditorium	
Date Collected:		Non-Residential Drinking Water Protection Criteria & RBSLs	Groundwater Surface Water Interface Criteria & RBSLs	Non-Residential Groundwater Volatilization to Indoor Air Inhalation Criteria & RBSLs	Flammability and Explosivity Screening Level	9/18/2013	5/21/2014	2/12/2008	11/1/2010	1/29/2013	6/26/2013	9/19/2013	5/21/2014	2/12/2008	11/3/2010	2/12/2008	11/2/2010	2/1/2013	6/25/2013	9/17/2013	5/21/2014	7/28/2008	
Screened Interval (feet bgl):						8-18	8-18	5-15	5-15	5-15	5-15	5-15	5-15	4-14	4-14	4-9	4-9	4-9	4-9	4-9	4-9	2-7	
Analytical Parameter																							
TPH (EPA Method 418.1)	mg/L	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	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	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	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	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	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	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	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	<5	<5	<5	NA	<5	<5	<5	<5	11	NA	<5	NA	<5	<5	<5	<5	NA	NA
2-Methylnaphthalene	ug/L	750	19	25,000 (S)	ID	<5	<5	<5	<5	<5	<5	<5	<5	16	**59**	<5	<5	<5	<5	<5	<5	<5	<5
Acenaphthene	ug/L	3,800	38	4,200 (S)	ID	<5	<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)	ID	<5	<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)	ID	<5	<5	<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	ID	<1	<1	<5	<1	<1	<1	<1	<1	<5	<1	<5	<1	<1	<1	<1	<1	<1	<1
Benzo(a)pyrene	ug/L	5.0 (A)	ID	NLV	ID	<1	<1	<5	<1	<1	<1	<1	<1	<5	<1	<5	<1	<1	<1	<1	<1	<1	<1
Benzo(b)fluoranthene	ug/L	1.5 (S, AA)	ID	ID	ID	<1	<1	<5	<1	<1	<1	<1	<1	<5	<1	<5	<1	<1	<1	<1	<1	<1	<1
Benzo(g,h,i)perylene	ug/L	1.0 (M); 0.26 (S)	NA	NLV	ID	<1	<1	<5	<1	<1	<1	<1	<1	<5	<1	<5	<1	<1	<1	<1	<1	<1	<1
Benzo(k)fluoranthene	ug/L	1.0 (M); 0.8 (S)	NA	NLV	ID	<1	<1	<5	<1	<1	<1	<1	<1	<5	<1	<5	<1	<1	<1	<1	<1	<1	<1
Chrysene	ug/L	1.6 (S)	ID	ID	ID	<1	<1	<5	<1	<1	<1	<1	<1	<5	<1	<5	<1	<1	<1	<1	<1	<1	<1
Dibenzo(a,h)anthracene	ug/L	2.0 (M); 0.85	ID	NLV	ID	<2	<2	<5	<2	<2	<2	<2	<2	<5	<2	<5	<2	<2	<2	<2	<2	<2	<2
Fluoranthene	ug/L	210 (S)	1.6	210 (S)	ID	<1	<1	<5	<1	<1	<1	<1	<1	<5	<1	<5	<1	<1	<1	<1	<1	<1	<1
Fluorene	ug/L	2,000 (S)	12	2,000 (S)	ID	<5	<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	ID	<2	<2	<5	<2	<2	<2	<2	<2	<5	<2	<5	<2	<2	<2	<2	<2	<2	<2
Naphthalene	ug/L	1,500	11	31,000 (S)	NA	<5	<5	<5	<5	<5	<5	<5	<5	**50**	**137**	<5	<5	<5	<5	<5	<5	<5	<5
Phenanthrene	ug/L	150	2.0 (M); 1.4	1,000 (S)	ID	<2	<2	<5	<2	<2	<2	<2	<2	<5	<2	<5	<2	<2	<2	<2	<2	<2	<2
Pyrene	ug/L	140 (S)	ID	140 (S)	ID	<5	<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	ND	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)	89	1.3E+06 (S)	ID	<1	<1	<1	<1	<1	<1	<1	<1	<30	<20	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-Tetrachloroethane	ug/L	35	78 (X)	77,000	ID	<1	<1	<1	<1	<1	<1	<1	<1	<30	<20	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	ug/L	5.0 (A)	330 (X)	1.10E+05	NA	<1	<1	<1	<1	<1	<1	<1	<1	<30	<20	<1	<1	<1	<1	<1	<1	<1	<1
1,1-Dichloroethane	ug/L	2,500	740	2.30E+06	3.80E+05	<1	<1	<1	<1	<1	<1	<1	<1	<30	<20	<1	<1	<1	<1	<1	<1	<1	<1
1,1-Dichloroethene	ug/L	7.0 (A)	130	1,300	97,000	<1	<1	<1	<1	<1	<1	<1	<1	<30	<20	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene	ug/L	63 (E)	17	56,000 (S)	56,000 (S)	<1	<1	<1	<1	<1	<1	<1	<1	**270**	**810 Y**	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	ug/L	5.0 (A)	360 (X)	59,000	2.50E+06	<1	<1	<1	<1	<1	<1	<1	<1	<30	<40	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloropropane	ug/L	5.0 (A)	230 (X)	36,000	5.50E+05	<1	<1	<1	<1	<1	<1	<1	<1	<30	<20	<1	<1	<1	<1	<1	<1	<1	<1
1,3,5-Trimethylbenzene	ug/L	72 (E)	45	61,000 (S)	ID	<1	<1	<1	<1	<1	<1	<1	<1	**80**	**250 Y**	<1	<1	<1	<1	<1	<1	<1	<1
2-Butanone	ug/L	38,000	2,200	2.4E+08 (S)	ID	<25	<25	<30	<30	<25	<25	<25	<25	<600	<500	<30	<30	<25	<25	<25	<25	<30	<30
2-Hexanone	ug/L	2,900	ID	8.70E+06	NA	<50	<50	<50	<50	<50	<50	<50	<50	<1,000	<1000	<50	<50	<50	<50	<50	<50	<50	<50
4-Methyl-2-pentanone	ug/L	5,200	ID	2.0E+07 (S)	ID	<50	<50	<50	<50	<50	<50	<50	<50	<1,000	<1000	<50	<50	<50	<50	<50	<50	<50	<50
Acetone	ug/L	2,100	1,700	1.0E+09 (D,S)	1.50E+07	<50	<50	<50	<50	<50	<50	<50	<50	<1,000	<1000	<50	<50	<50	<50	<50	<50	<50	<50
Benzene	ug/L	5.0 (A)	200 (X)	35,000	68,000	<1	<1	<1	<1	<1	<1	<1	<1	**1,460**	**1000 Y**	<1	<1	<1	<1	<1	<1	<1	<1
Bromochloromethane	ug/L	none	none	none	none	<1	<1	<1	<1	<1	<1	<1	<1	<30	<20	<1	<1	<1	<1	<1	<1	<1	<1
Bromoform	ug/L	80 (A,W)	ID	3.10E+06	ID	<1	<1	<1	<1	<1	<1	<1	<1	<30	<20	<1	<1	<1	<1	<1	<1	<1	<1
Bromomethane	ug/L	29	35	9,000	ID	<5	<5	<5	<5	<5	<5	<5	<5	<100	<100	<5	<5	<5	<5	<5	<5	<5	<5
n-Butylbenzene	ug/L	230	ID	ID	ID	<1	<1	<1	<1	<1	<1	<1	<1	<30	<20	<1	<1	<1	<1	<1	<1	<1	<1
sec-Butylbenzene	ug/L	230	ID	ID	ID	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon disulfide	ug/L	2,300	ID	5.50E+05	13,000	<5	<5	<5	<5	<5	<5	<5	<5	<100	<100	<5	<5	<5	<5	<5	<5	<5	<5
Carbon tetrachloride	ug/L	5.0 (A)	45 (X)	2,400	ID	<1	<1	<1	<1	<1	<1	<1	<1	<30	<20	<1	<1	<1	<1	<1	<1	<1	<1
Chlorobenzene	ug/L	100 (A)	25	4.70E+05	1.60E+05	<1	<1	<1	<1	<1	<1	<1	<1	<30	<20	<1	<1	<1	<1	<1	<1	<1	<1
Chloroethane	ug/L	1,700	1,100 (X)	5.7E+06 (S)	1.10E+05	<5	<5	<5	<5	<5	<5	<5	<5	<100	<100	<5	<5	<5	<5	<5	<5	<5	<5
Chloroform	ug/L	80 (A, W)	350	1.80E+05	ID	<1	<1	<1	<1	<1	<1	<1	<1	<30	<20	<1	<1	<1	<1	<1	<1	<1	<1
Chloromethane	ug/L	1,100	ID	45,000	36,000	<5	<5	<5	<5	<5	<5	<5	<5	<100	<100	<5	<5	<5	<5	<5	<5	<5	<5
Dibromochloromethane	ug/L	80 (A, W)	ID	1.10E+05	ID	<5	<5	<5	<5	<5	<5	<5	<5	<100	<100	<5	<5	<5	<5	<5	<5	<5	<5
Ethylbenzene	ug/L	74 (E)	18	1.7E+05 (S)	43,000	<1	<1	<1	<1	<1	<1	<1	<1	**640**	**1320 Y**	<1	<1	<1	<1	<1	<1	<1	<1
Isopropylbenzene	ug/L	2,300	28	56,000 (S)	29,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	ug/L	5.0 (A)	1,500 (X)	1.40E+06	ID	<5	<5	<5	<5	<5	<5	<5	<5	<100	<100	<5	<5	<5	<5	<5	<5	<5	<5
n-Propylbenzene	ug/L	230	ID	ID	ID	<1	<1	<1	<1	<1	<1	<1	<1	40	100 Y	<1	<1	<1	<1	<1	<1	<1	<1
Styrene	ug/L	100 (A)	80 (X)	3.1E+05 (S)	1.40E+05	<1	<1	<1	<1	<1	<1	<1	<1	<30	<20	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethylene	ug/L	5.0 (A)	60 (X)	1.70E+05	ID	<1	<1	<1	<1	<1	<1	<1	<1	<30	<20	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	ug/L	790 (E)	270	5.3E+05 (S)	61,000	<1	<1	<1	<1	<1	<1	<1	<1	**2,760**	**1410 Y**	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethene	ug/L	5.0 (A)	200 (X)	4,900	ID	<1	<1	<1	<1	<1	<1	<1	<1	<30	<20	<1	<1	<1	<1	<1	<1	<1	<1
Vinyl chloride	ug/L	2.0 (A)	13 (X)	13,000	33,000	<1	<1	<1	<1	<1	<1	<1	<1	<30	<20	<1	<1	<1	<1	<1	<1	<1	<1
cis-1,2-Dichloroethene	ug/L	70 (A)	620	2.10E+05	5.30E+05	<1	<1	<1	<1	<1	<1	<1	<1	**80**	20 Y	<1	<1	<1	<1	<1	<1	<1	<1
cis-1,3-Dichloropropene	ug/L	none	none	none	none	<1	<1	<1	<1	<1	<1	<1	<1	<30	<20	<1	<1	<1	<1	<1	<1	<1	<1
m,p-Xylene	ug/L	none	none	none	none	<1	<2	<2	<2	<1	<1	<1	<2	1,410	3020 Y	<2	<2	<1	<1	<1	<2	<2	<2
o-Xylene	ug/L	none	none	none	none	<2	<1	<1	<1	<2	<2	<2	<1	350	580 Y	<1	<1	<2	<2	<2	<1	<1	<1
Xylenes, Total	ug/L	280 (E)	41	1.9E+05 (S)	70,000	<3	<3	<3	<3	<3	<3	<3	<3	**1,710**	**3600 Y**	NA	<3	<3	<3	<3	<3	<3	<3
trans-1,2-Dichloroethene	ug/L	100 (A)	1,500 (X)	2.0E+05 (S)	2.3E+05 (S)	<1	<1	<1	<1	<1	<1	<1	<1	<30	<20	<1	<1	<1	<1	<1	<1	<1	<1
trans-1,3-Dichloropropene	ug/L	none	none	none	none	<1	<1	<1	<1	<1	<1	<1	<1	<30	<20	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethene (total)	ug/L	none	none	none	none	NA	NA	<1	NA	NA	NA	NA	NA	<30	NA	NA	NA	NA	NA	NA	NA	<2	<2
1,2,3-Trimethylbenzene	ug/L	none	none	none	none	<1	<1	<1	<1	<1	<1	<1	<1	80	270 Y	<1	<1	<1	<1	<1	<1	<5	<5
Other Target VOCs	ug/L	various	various	various	various	ND	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)	7,100 (X)	4.7E+07 (S)	ID	<5	<5	<5	<5	<5	<5	<5	<5	<100	<5	<5	<5	<5	<5	<5	<5	<5	<5
Dissolved Metals (Method 6020)																							
Lead	mg/L	0.004 (L)	(G,X)	NLV	ID	<0.003	<0.003	<0.001	<0.003	<0.003	<0.003	<0.003	<0.003	0.001	<0.003	0.001	<0.003	<0.003	<0.003	<0.003	<0.003	**0.011**	**0.011**

Notes: See Last Page

Table 2
Groundwater Analytical Data
Former GM Employee Development Center
65 East University
Pontiac, Michigan

Sample ID:	Units	Michigan Groundwater Cleanup Criteria and Risk Based Screening Levels				MW-17 East of Building - Auditorium	MW-17 East of Building - Auditorium	MW-17 East of Building - Auditorium	MW-17 East of Building - Auditorium	MW-17 East of Building - Auditorium	MW-18 East of Building - Auditorium	MW-18 East of Building - Auditorium	MW-18 East of Building - Auditorium	MW-18 East of Building - Auditorium	MW-18 East of Building - Auditorium	MW-18 East of Building - Auditorium	MW-19 Off-site - City of Pontiac Property West of the Site	MW-19 Off-site - City of Pontiac Property West of the Site	MW-19 Off-site - City of Pontiac Property West of the Site	MW-19 Off-site - City of Pontiac Property West of the Site	MW-19 Off-site - City of Pontiac Property West of the Site	MW-20 Off-site - City of Pontiac Property West	MW-20 Off-site - City of Pontiac Property West
Date Collected:		Non-Residential Drinking Water Protection Criteria & RBSLs	Groundwater Surface Water Interface Criteria & RBSLs	Non-Residential Groundwater Volatilization to Indoor Air Inhalation Criteria & RBSLs	Flammability and Explosivity Screening Level	11/2/2010	2/1/2013	6/26/2013	9/17/2013	5/22/2014	2/13/2008	11/2/2010	2/1/2013	6/26/2013	9/17/2013	5/22/2014	12/2/2010	1/30/2013	6/27/2013	9/19/2013	5/23/2014	12/2/2010	1/30/2013
Screened Interval (feet bgl):						2-7	2-7	2-7	2-7	2-7	4-14	4-14	4-14	4-14	4-14	4-14	3-13'	3-13'	3-13'	3-13'	3-13'	3-13'	3-13'	3-13'
Analytical Parameter																							
TPH (EPA Method 418.1)	mg/L	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	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	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	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	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	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	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	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	<5	NA	NA	<5	<5	<5	NA	<5	<5	<5	<5	NA	<5	<5	<5	<5	NA	<5
2-Methylnaphthalene	ug/L	750	19	25,000 (S)	ID	<5	<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)	ID	<5	<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)	ID	<5	<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)	ID	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<1	<5	<5	<5	<5	<5	<5
Benz(a)anthracene	ug/L	8.5	ID	NLV	ID	<1	<1	<1	<1	<1	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Benzo(a)pyrene	ug/L	5.0 (A)	ID	NLV	ID	<1	<1	<1	<1	<1	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Benzo(b)fluoranthene	ug/L	1.5 (S, AA)	ID	ID	ID	<1	<1	<1	<1	<1	<5	<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	ID	<1	<1	<1	<1	<1	<5	<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	ID	<1	<1	<1	<1	<1	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chrysene	ug/L	1.6 (S)	ID	ID	ID	<1	<1	<1	<1	<1	<5	<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	ID	<2	<2	<2	<2	<2	<5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Fluoranthene	ug/L	210 (S)	1.6	210 (S)	ID	<1	<1	<1	<1	<1	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Fluorene	ug/L	2,000 (S)	12	2,000 (S)	ID	<5	<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	ID	<2	<2	<2	<2	<2	<5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Naphthalene	ug/L	1,500	11	31,000 (S)	NA	<5	<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)	ID	<2	<2	<2	<2	<2	<5	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Pyrene	ug/L	140 (S)	ID	140 (S)	ID	<5	<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	ND	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)	89	1.3E+06 (S)	ID	<1	<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	ID	<1	<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	NA	<1	<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	3.80E+05	<1	<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)	130	1,300	97,000	<1	<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)	<1	<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	2.50E+06	<1	<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)	230 (X)	36,000	5.50E+05	<1	<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)	ID	<1	<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)	ID	<25	<30	<30	<25	<25	<30	<30	<25	<25	<25	<25	<30	<25	<25	<25	<25	<30	<25
2-Hexanone	ug/L	2,900	ID	8.70E+06	NA	<50	<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)	ID	<50	<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)	1.50E+07	<50	<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	68,000	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromochloromethane	ug/L	none	none	none	none	<1	<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	ID	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromomethane	ug/L	29	35	9,000	ID	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
n-Butylbenzene	ug/L	230	ID	ID	ID	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
sec-Butylbenzene	ug/L	230	ID	ID	ID	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon disulfide	ug/L	2,300	ID	5.50E+05	13,000	<5	<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	ID	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlorobenzene	ug/L	100 (A)	25	4.70E+05	1.60E+05	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroethane	ug/L	1,700	1,100 (X)	5.7E+06 (S)	1.10E+05	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Chloroform	ug/L	80 (A, W)	350	1.80E+05	ID	<1	<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	36,000	<5	<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	ID	<5	<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)	43,000	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Isopropylbenzene	ug/L	2,300	28	56,000 (S)	29,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	ug/L	5.0 (A)	1,500 (X)	1.40E+06	ID	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
n-Propylbenzene	ug/L	230	ID	ID	ID	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Styrene	ug/L	100 (A)	80 (X)	3.1E+05 (S)	1.40E+05	<1	<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	ID	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	ug/L	790 (E)	270	5.3E+05 (S)	61,000	<1	<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	ID	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vinyl chloride	ug/L	2.0 (A)	13 (X)	13,000	33,000	<1	<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	5.30E+05	<1	<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	<1	<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	<1	<2	<2	<2	<2	<2	<2	<1	<1	<1	<2	<2	<1	<1	<1	<2	<2	<1
o-Xylene	ug/L	none	none	none	none	<2	<1	<1	<1	<1	<1	<1	<2	<2	<2	<1	<1	<2	<2	<2	<1	<1	<2
Xylenes, Total	ug/L	280 (E)	41	1.9E+05 (S)	70,000	<3	<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 (X)	2.0E+05 (S)	2.3E+05 (S)	<1	<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	<1	<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	NA	NA	NA	NA	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,3-Trimethylbenzene	ug/L	none	none	none	none	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Other Target VOCs	ug/L	various	various	various	various	ND	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)	7,100 (X)	4.7E+07 (S)	ID	<5	<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	<0.003	<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	<0.003	<0.003	<0.003

Notes: See Last Page

Table 2
Groundwater Analytical Data
Former GM Employee Development Center
65 East University
Pontiac, Michigan

Sample ID:	Units	Michigan Groundwater Cleanup Criteria and Risk Based Screening Levels				MW-20	MW-20	MW-20	MW-20	MW-21	MW-21	MW-21	MW-21	MW-21	MW-22	MW-22	MW-22	MW-22	MW-22	MW-23	MW-23	MW-23	MW-23
						Off-site - City of Pontiac Property West	Off-site - City of Pontiac Property West	Off-site - City of Pontiac Property West	Off-site - City of Pontiac Property West	East-Northeast of Building, Along Augusta Relief Drain	East-Northeast of Building, Along Augusta Relief Drain	East-Northeast of Building, Along Augusta Relief Drain	East-Northeast of Building, Along Augusta Relief Drain	East-Northeast of Building, Along Augusta Relief Drain	East-Northeast of Building, Along Augusta Relief Drain	East-Northeast of Building, Along Augusta Relief Drain	East-Northeast of Building, Along Augusta Relief Drain	East-Northeast of Building, Along Augusta Relief Drain	East-Northeast of Building, Along Augusta Relief Drain	Inside - Eastern Garage, Within Excavation Area	Inside - Eastern Garage, Within Excavation Area	Inside - Eastern Garage, Within Excavation Area	Inside - Eastern Garage, Within Excavation Area
Date Collected:		Non-Residential Drinking Water Protection Criteria & RBSLs	Groundwater Surface Water Interface Criteria & RBSLs	Non-Residential Groundwater Volatilization to Indoor Air Inhalation Criteria & RBSLs	Flammability and Explosivity Screening Level	6/27/2013	9/20/2013	5/22/2014	10/27/2014	1/28/2013	6/25/2013	9/19/2013	5/21/2014	10/28/2014	1/31/2013	6/25/2013	9/19/2013	5/21/2014	10/28/2014	1/31/2013	6/26/2013	9/20/2013	5/22/2014
Screened Interval (feet bgl):						3-13'	3-13'	3-13'	3-13'	5.5-10.5'	5.5-10.5'	5.5-10.5'	5.5-10.5'	5.5-10.5'	4-14'	4-14'	4-14'	4-14'	4-14'	3-13'	3-13'	3-13'	3-13'
Analytical Parameter																							
TPH (EPA Method 418.1)	mg/L	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	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	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	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	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	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	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	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	<5	<5	<5	NA	<5	<5	<5	<5	NA	<5	<5	<5	<5	NA	<5	<5	<5	<5
2-Methylnaphthalene	ug/L	750	19	25,000 (S)	ID	<5	<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)	ID	<5	<5	<5	NA	<5	<5	<5	<5	NA	<5	<5	<5	<5	NA	<5	<5	<5	<5
Acenapthylene	ug/L	150	ID	3,900 (S)	ID	<5	<5	<5	NA	<5	<5	<5	<5	NA	<5	<5	<5	<5	NA	<5	<5	<5	<5
Anthracene	ug/L	43 (S)	ID	43 (S)	ID	<5	<5	<5	NA	<5	<5	<5	<5	NA	<5	<5	<5	<5	NA	<5	<5	<5	<5
Benz(a)anthracene	ug/L	8.5	ID	NLV	ID	<1	<1	<1	NA	<1	<1	<1	<1	NA	<1	<1	<1	<1	NA	<1	<1	<1	<1
Benzo(a)pyrene	ug/L	5.0 (A)	ID	NLV	ID	<1	<1	<1	NA	<1	<1	<1	<1	NA	<1	<1	<1	<1	NA	<1	<1	<1	<1
Benzo(b)fluoranthene	ug/L	1.5 (S, AA)	ID	ID	ID	<1	<1	<1	NA	<1	<1	<1	<1	NA	<1	<1	<1	<1	NA	<1	<1	<1	<1
Benzo(g,h,i)perylene	ug/L	1.0 (M); 0.26 (S)	NA	NLV	ID	<1	<1	<1	NA	<1	<1	<1	<1	NA	<1	<1	<1	<1	NA	<1	<1	<1	<1
Benzo(k)fluoranthene	ug/L	1.0 (M); 0.8 (S)	NA	NLV	ID	<1	<1	<1	NA	<1	<1	<1	<1	NA	<1	<1	<1	<1	NA	<1	<1	<1	<1
Chrysene	ug/L	1.6 (S)	ID	ID	ID	<1	<1	<1	NA	<1	<1	<1	<1	NA	<1	<1	<1	<1	NA	<1	<1	<1	<1
Dibenzo(a,h)anthracene	ug/L	2.0 (M); 0.85	ID	NLV	ID	<2	<2	<2	NA	<2	<2	<2	<2	NA	<2	<2	<2	<2	NA	<2	<2	<2	<2
Fluoranthene	ug/L	210 (S)	1.6	210 (S)	ID	<1	<1	<1	NA	<1	<1	<1	<1	NA	<1	<1	<1	<1	NA	<1	<1	<1	<1
Fluorene	ug/L	2,000 (S)	12	2,000 (S)	ID	<5	<5	<5	NA	<5	<5	<5	<5	NA	<5	<5	<5	<5	NA	<5	<5	<5	<5
Indeno(1,2,3-cd)pyrene	ug/L	2.0 (M); 0.022 (S)	ID	NLV	ID	<2	<2	<2	NA	<2	<2	<2	<2	NA	<2	<2	<2	<2	NA	<2	<2	<2	<2
Naphthalene	ug/L	1,500	11	31,000 (S)	NA	<5	<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)	ID	<2	<2	<2	NA	<2	<2	<2	<2	NA	<2	<2	<2	<2	NA	<2	<2	<2	<2
Pyrene	ug/L	140 (S)	ID	140 (S)	ID	<5	<5	<5	NA	<5	<5	<5	<5	NA	<5	<5	<5	<5	NA	<5	<5	<5	<5
Other Target PAHs	ug/L	various	various	various	various	ND	ND	ND	NA	ND	ND	ND	ND	NA	ND	ND	ND	ND	NA	ND	ND	ND	ND
VOCs (EPA Method 8260)																							
1,1,1-Trichloroethane	ug/L	200 (A)	89	1.3E+06 (S)	ID	<1	<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	ID	<1	<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	NA	<1	<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	3.80E+05	<1	<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)	130	1,300	97,000	<1	<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)	<1	<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	2.50E+06	<1	<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)	230 (X)	36,000	5.50E+05	<1	<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)	ID	<1	<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)	ID	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
2-Hexanone	ug/L	2,900	ID	8.70E+06	NA	<50	<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)	ID	<50	<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)	1.50E+07	<50	<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	68,000	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromochloromethane	ug/L	none	none	none	none	<1	<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	ID	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromomethane	ug/L	29	35	9,000	ID	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
n-Butylbenzene	ug/L	230	ID	ID	ID	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
sec-Butylbenzene	ug/L	230	ID	ID	ID	ND	ND	ND	<1	ND	ND	ND	ND	<1	ND	ND	ND	ND	<1	ND	ND	ND	ND
Carbon disulfide	ug/L	2,300	ID	5.50E+05	13,000	<5	<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	ID	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlorobenzene	ug/L	100 (A)	25	4.70E+05	1.60E+05	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroethane	ug/L	1,700	1,100 (X)	5.7E+06 (S)	1.10E+05	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Chloroform	ug/L	80 (A, W)	350	1.80E+05	ID	<1	<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	36,000	<5	<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	ID	<5	<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)	43,000	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Isopropylbenzene	ug/L	2,300	28	56,000 (S)	29,000	ND	ND	ND	<5	ND	ND	ND	ND	<5	ND	ND	ND	ND	<5	ND	ND	ND	ND
Methylene chloride	ug/L	5.0 (A)	1,500 (X)	1.40E+06	ID	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
n-Propylbenzene	ug/L	230	ID	ID	ID	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Styrene	ug/L	100 (A)	80 (X)	3.1E+05 (S)	1.40E+05	<1	<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	ID	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	ug/L	790 (E)	270	5.3E+05 (S)	61,000	<1	<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	ID	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vinyl chloride	ug/L	2.0 (A)	13 (X)	13,000	33,000	<1	<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	5.30E+05	<1	<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	<1	<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	<1	<1	<2	<1	<1	<1	<1	<2	<1	<1	<1	<1	<2	<1	<1	<1	<1	<2
o-Xylene	ug/L	none	none	none	none	<2	<2	<1	<2	<2	<2	<2	<1	<2	<2	<2	<2	<1	<2	<2	<2	<2	<1
Xylenes, Total	ug/L	280 (E)	41	1.9E+05 (S)	70,000	<3	<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 (X)	2.0E+05 (S)	2.3E+05 (S)	<1	<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	<1	<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	NA	NA	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	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Other Target VOCs	ug/L	various	various	various	various	ND	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)	7,100 (X)	4.7E+07 (S)	ID	<5	<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	<0.003	<0.003	<0.003	NA	<0.003	<0.003	<0.003	<0.003	NA	<0.003	<0.003	<0.003	<0.003	NA	<0.003	<0.003	<0.003	<0.003

Notes: See Last Page

Table 2
Groundwater Analytical Data
Former GM Employee Development Center
65 East University
Pontiac, Michigan

Sample ID:	Units	Michigan Groundwater Cleanup Criteria and Risk Based Screening Levels				MW-23	MW-24S	MW-24S	MW-24S	MW-24S	MW-24S	MW-24D	MW-24D	MW-24D	MW-24D		MW-24D		MW-25	MW-25	MW-25	MW-25	MW-25
						Inside - Eastern Garage, Within Excavation Area	Southern Portion of West Garage - Within Excavation	Southern Portion of West Garage - Within Excavation	Southern Portion of West Garage - Within Excavation	Southern Portion of West Garage - Within Excavation	Southern Portion of West Garage - Within Excavation	Southern Portion of West Garage - Within Excavation	Southern Portion of West Garage - Within Excavation	Southern Portion of West Garage - Within Excavation	Southern Portion of West Garage - Within Excavation Area		Southern Portion of West Garage - Within Excavation Area		Off-site - Right-of-Way of Mill Street	Off-site - Right-of-Way of Mill Street	Off-site - Right-of-Way of Mill Street	Off-site - Right-of-Way of Mill Street	Off-site - Right-of-Way of Mill Street
Date Collected:						10/28/2014	1/31/2013	6/28/2013	9/20/2013	5/22/2014	10/29/2014	1/31/2013	6/28/2013	9/20/2013	5/22/2014		10/29/2014		1/30/2013	6/24/2013	9/19/2013	5/22/2014	10/28/2014
Screened Interval (feet bgl):						3-13'	4-9'	4-9'	4-9'	4-9'	4-9'	15-20'	15-20'	15-20'	15-20'		15-20'		4-14'	4-14'	4-14'	4-14'	4-14'
Analytical Parameter		Non-Residential Drinking Water Protection Criteria & RBSLs	Groundwater Surface Water Interface Criteria & RBSLs	Non-Residential Groundwater Volatilization to Indoor Air Inhalation Criteria & RBSLs	Flammability and Explosivity Screening Level																		
TPH (EPA Method 418.1)	mg/L	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	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	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA	NA	NA	NA	NA
Fuel Oil	mg/L	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	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA	NA	NA	NA	NA
Kerosene	mg/L	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	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA	NA	NA	NA	NA
Motor Oil	mg/L	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	NA	<5	<5	<5	<5	NA	12	6	10	10	12	NA		<5	<5	<5	<5	NA
2-Methylnaphthalene	ug/L	750	19	25,000 (S)	ID	<5**	<5	<5	<5	<5	<5**	**23**	13	19	18	**23**	<1,000	<1,000	<5	<5	<5	<5	<5**
Acenaphthene	ug/L	3,800	38	4,200 (S)	ID	NA	<5	<5	<5	<5	NA	<5	<5	<5	<5	<5	NA		<5	<5	<5	<5	NA
Acenapthylene	ug/L	150	ID	3,900 (S)	ID	NA	<5	<5	<5	<5	NA	<5	<5	<5	<5	<5	NA		<5	<5	<5	<5	NA
Anthracene	ug/L	43 (S)	ID	43 (S)	ID	NA	<5	<5	<5	<5	NA	<5	<5	<5	<5	<5	NA		<5	<5	<5	<5	NA
Benz(a)anthracene	ug/L	8.5	ID	NLV	ID	NA	<1	<1	<1	<1	NA	<4	<5	<5	<1	<1	NA		<1	<1	<1	<1	NA
Benzo(a)pyrene	ug/L	5.0 (A)	ID	NLV	ID	NA	<1	<1	<1	<1	NA	<4	<5	<5	<1	<1	NA		<1	<1	<1	<1	NA
Benzo(b)fluoranthene	ug/L	1.5 (S, AA)	ID	ID	ID	NA	<1	<1	<1	<1	NA	<4	<5	<5	<1	<1	NA		<1	<1	<1	<1	NA
Benzo(g,h,i)perylene	ug/L	1.0 (M); 0.26 (S)	NA	NLV	ID	NA	<1	<1	<1	<1	NA	<4	<5	<5	<1	<1	NA		<1	<1	<1	<1	NA
Benzo(k)fluoranthene	ug/L	1.0 (M); 0.8 (S)	NA	NLV	ID	NA	<1	<1	<1	<1	NA	<4	<5	<5	<1	<1	NA		<1	<1	<1	<1	NA
Chrysene	ug/L	1.6 (S)	ID	ID	ID	NA	<1	<1	<1	<1	NA	<4	<5	<5	<1	<1	NA		<1	<1	<1	<1	NA
Dibenzo(a,h)anthracene	ug/L	2.0 (M); 0.85	ID	NLV	ID	NA	<2	<2	<2	<2	NA	<4	<5	<5	<2	<2	NA		<2	<2	<2	<2	NA
Fluoranthene	ug/L	210 (S)	1.6	210 (S)	ID	NA	<1	<1	<1	<1	NA	<4	<5	<5	<1	<1	NA		<1	<1	<1	<1	NA
Fluorene	ug/L	2,000 (S)	12	2,000 (S)	ID	NA	<5	<5	<5	<5	NA	<5	<5	<5	<5	<5	NA		<5	<5	<5	<5	NA
Indeno(1,2,3-cd)pyrene	ug/L	2.0 (M); 0.022 (S)	ID	NLV	ID	NA	<2	<2	<2	<2	NA	<4	<5	<5	<2	<2	NA		<2	<2	<2	<2	NA
Naphthalene	ug/L	1,500	11	31,000 (S)	NA	<5**	<5	<5	<5	<5	<5**	**133**	**71**	**101**	**94**	**118**	<1,000**	<1,000**	<5	<5	<5	<5	<5**
Phenanthrene	ug/L	150	2.0 (M); 1.4	1,000 (S)	ID	NA	<2	<2	<2	<2	NA	<4	<5	<5	<2	<2	NA		<2	<2	<2	<2	NA
Pyrene	ug/L	140 (S)	ID	140 (S)	ID	NA	<5	<5	<5	<5	NA	<5	<5	<5	<5	<5	NA		<5	<5	<5	<5	NA
Other Target PAHs	ug/L	various	various	various	various	NA	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	NA		ND	ND	ND	ND	NA
VOCs (EPA Method 8260)																							
1,1,1-Trichloroethane	ug/L	200 (A)	89	1.3E+06 (S)	ID	<1	<1	<1	<1	<1	<1	<200	<200	<200	<200	<200	<200	<200	<1	<1	<1	<1	<1
1,1,2,2-Tetrachloroethane	ug/L	35	78 (X)	77,000	ID	<1	<1	<1	<1	<1	<1	<200	<200	<200	<200	<200	<200	<200	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	ug/L	5.0 (A)	330 (X)	1.10E+05	NA	<1	<1	<1	<1	<1	<1	<200	<200	<200	<200	<200	<200	<200	<1	<1	<1	<1	<1
1,1-Dichloroethane	ug/L	2,500	740	2.30E+06	3.80E+05	<1	<1	<1	<1	<1	<1	<200	<200	<200	<200	<200	<200	<200	<1	<1	<1	<1	<1
1,1-Dichloroethene	ug/L	7.0 (A)	130	1,300	97,000	<1	<1	<1	<1	<1	<1	<200	<200	<200	<200	<200	<200	<200	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene	ug/L	63 (E)	17	56,000 (S)	56,000 (S)	<1	<1	<1	<1	<1	<1	**700**	**800**	**600**	**900**	**1,000**	**900**	**800**	<1	<1	<1	<1	<1
1,2-Dichloroethane	ug/L	5.0 (A)	360 (X)	59,000	2.50E+06	<1	<1	<1	<1	<1	<1	<200	<200	<200	<200	<200	<200	<200	<1	<1	<1	<1	<1
1,2-Dichloropropane	ug/L	5.0 (A)	230 (X)	36,000	5.50E+05	<1	<1	<1	<1	<1	<1	<200	<200	<200	<200	<200	<200	<200	<1	<1	<1	<1	<1
1,3,5-Trimethylbenzene	ug/L	72 (E)	45	61,000 (S)	ID	<1	<1	<1	<1	<1	<1	<200	<200	<200	**300**	**300**	**300**	**300**	<1	<1	<1	<1	<1
2-Butanone	ug/L	38,000	2,200	2.4E+08 (S)	ID	<25	<25	<25	<25	<25	<25	<5,000	<5,000	<500	<500	<500	<5000	<5000	<25	<25	<25	<25	<25
2-Hexanone	ug/L	2,900	ID	8.70E+06	NA	<50	<50	<50	<50	<50	<50	<10,000	<10,000	<10,000	<10,000	<10,000	<10000	<10000	<50	<50	<50	<50	<50
4-Methyl-2-pentanone	ug/L	5,200	ID	2.0E+07 (S)	ID	<50	<50	<50	<50	<50	<50	<10,000	<10,000	<10,000	<10,000	<10,000	<10000	<10000	<50	<50	<50	<50	<50
Acetone	ug/L	2,100	1,700	1.0E+09 (D,S)	1.50E+07	<50	<50	<50	<50	<50	<50	<10,000	<10,000	<10,000	<10,000	<10,000	<10000	<10000	<50	<50	<50	<50	<50
Benzene	ug/L	5.0 (A)	200 (X)	35,000	68,000	<1	<1	<1	<1	<1	<1	**20,900**	**21,300**	**19,700**	**26,200**	**28,200**	**27,200**	**25,900**	<1	<1	<1	<1	<1
Bromochloromethane	ug/L	none	none	none	none	<1	<1	<1	<1	<1	<1	<200	<200	<200	<200	<200	<200	<200	<1	<1	<1	<1	<1
Bromoform	ug/L	80 (A,W)	ID	3.10E+06	ID	<1	<1	<1	<1	<1	<1	<200	<200	<200	<200	<200	<200	<200	<1	<1	<1	<1	<1
Bromomethane	ug/L	29	35	9,000	ID	<5	<5	<5	<5	<5	<5	<1,000	<1,000	<1,000	<1,000	<1,000	<1000	<1000	<5	<5	<5	<5	<5
n-Butylbenzene	ug/L	230	ID	ID	ID	<1	<1	<1	<1	<1	<1	<200	<200	<200	<200	<200	<200	<200	<1	<1	<1	<1	<1
sec-Butylbenzene	ug/L	230	ID	ID	ID	<1	ND	ND	ND	ND	<1	ND	ND	ND	ND	ND	<200	<200	ND	ND	ND	ND	<1
Carbon disulfide	ug/L	2,300	ID	5.50E+05	13,000	<5	<5	<5	<5	<5	<5	<1,000	<1,000	<1,000	<1,000	<1,000	<1000	<1000	<5	<5	<5	<5	<5
Carbon tetrachloride	ug/L	5.0 (A)	45 (X)	2,400	ID	<1	<1	<1	<1	<1	<1	<200	<200	<200	<200	<200	<200	<200	<1	<1	<1	<1	<1
Chlorobenzene	ug/L	100 (A)	25	4.70E+05	1.60E+05	<1	<1	<1	<1	<1	<1	<200	<200	<200	<200	<200	<200	<200	<1	<1	<1	<1	<1
Chloroethane	ug/L	1,700	1,100 (X)	5.7E+06 (S)	1.10E+05	<5	<5	<5	<5	<5	<5	<1,000	<1,000	<1,000	<1,000	<1,000	<1000	<1000	<5	<5	<5	<5	<5
Chloroform	ug/L	80 (A, W)	350	1.80E+05	ID	<1	<1	<1	<1	<1	<1	<200	<200	<200	<200	<200	<200	<200	<1	<1	<1	<1	<1
Chloromethane	ug/L	1,100	ID	45,000	36,000	<5	<5	<5	<5	<5	<5	<1,000	<1,000	<1,000	<1,000	<1,000	<1000	<1000	<5	<5	<5	<5	<5
Dibromochloromethane	ug/L	80 (A, W)	ID	1.10E+05	ID	<5	<5	<5	<5	<5	<5	<1,000	<1,000	<1,000	<1,000	<1,000	<1000	<1000	<5	<5	<5	<5	<5
Ethylbenzene	ug/L	74 (E)	18	1.7E+05 (S)	43,000	<1	<1	<1	<1	<1	<1	**1,800**	**2,000**	**1,600**	**2,100**	**2,300**	**2,100**	**2,100**	<1	<1	<1	<1	<1
Isopropylbenzene	ug/L	2,300	28	56,000 (S)	29,000	<5	ND	ND	ND	ND	<5	ND	ND	ND	ND	ND	<1000	<1000	ND	ND	ND	ND	<5
Methylene chloride	ug/L	5.0 (A)	1,500 (X)	1.40E+06	ID	<5	<5	<5	<5	<5	<5	<1,000	<1,000	<1,000	<1,000	<1,000	<1000	<1000	<5	<5	<5	<5	<5
n-Propylbenzene	ug/L	230	ID	ID	ID	<1	<1	<1	<1	<1	<1	<200	<200	<200	<200	<200	<200	<200	<1	<1	<1	<1	<1
Styrene	ug/L	100 (A)	80 (X)	3.1E+05 (S)	1.40E+05	<1	<1	<1	<1	<1	<1	<200	<200	<200	<200	<200	<200	<200	<1	<1	<1	<1	<1
Tetrachloroethylene	ug/L	5.0 (A)	60 (X)	1.70E+05	ID	<1	<1	<1	<1	<1	<1	<200	<200	<200	<200	<200	<200	<200	<1	<1	<1	<1	<1
Toluene	ug/L	790 (E)	270	5.3E+05 (S)	61,000	<1	<1	<1	<1	<1	<1	**23,300**	**23,100**	**17,500**	**25,800**	**27,900**	**27,000**	**26,200**	<1	<1	<1	<1	<1
Trichloroethene	ug/L	5.0 (A)	200 (X)	4,900	ID	<1	<1	<1	<1	<1	<1	<200	<200	<200	<200	<200	<200	<200	<1	<1	<1	<1	<1
Vinyl chloride	ug/L	2.0 (A)	13 (X)	13,000	33,000	<1	<1	<1	<1	<1	<1	<200	<200	<200	<200	<200	<200	<200	<1	<1	<1	<1	<1
cis-1,2-Dichloroethene	ug/L	70 (A)	620	2.10E+05	5.30E+05	<1	<1	<1	<1	<1	<1	<200	<200	<200	<200	<200	<200	<200	<1	<1	<1	<1	<1
cis-1,3-Dichloropropene	ug/L	none	none	none	none	<1	<1	<1	<1	<1	<1	<200	<200	<200	<200	<200	<200	<200	<1	<1	<1	<1	<1
m,p-Xylene	ug/L	none	none	none	none	<1	<1	<1	<1	<2	<1	6,800	7,400	5,600	8,200	8,800	3,500	3,400	<1	<1	<1	<2	<1
o-Xylene	ug/L	none	none	none	none	<2	<2	<2	<2	<1	<2	3,100	3,500	2,600	3,600	3,800	7,700	7,600	<2	<2	<2	<1	<2
Xylenes, Total	ug/L	280 (E)	41	1.9E+05 (S)	70,000	<3	<3	<3	<3	<3	<3	**9,900**	**10,900**	**8,200**	**11,800**	**12,600**	**11,200**	**11,000**	<3	<3	<3	<3	<3
trans-1,2-Dichloroethene	ug/L	100 (A)	1,500 (X)	2.0E+05 (S)	2.3E+05 (S)	<1	<1	<1	<1	<1	<1	<200	<200	<200	<200	<200	<200	<200	<1	<1	<1	<1	<1
trans-1,3-Dichloropropene	ug/L	none	none	none	none	<1	<1	<1	<1	<1	<1	<200	<200	<200	<200	<200	<200	<200	<1	<1	<1	<1	<1
1,2-Dichloroethene (total)	ug/L	none	none	none	none	NA	NA	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	<1	<1	<1	<1	<1	<1	<200	200	<200	300	300	200	200	<1	<1	<1	<1	<1
Other Target VOCs	ug/L	various	various	various	various	ND	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)	7,100 (X)	4.7E+07 (S)	ID	<5	<5	<5	<5	<5	<5	<1,000	<1,000	<1,000	<1,000	<1,000	<1000	<1000	<5	<5	<5	<5	<5
Dissolved Metals (Method 6020)																							
Lead	mg/L	0.004 (L)	(G,X)	NLV	ID	NA	<0.003	<0.003	<0.003	<0.003	NA	0.003	0.004	<0.003	<0.003	<0.003	NA	NA	<0.003	<0.003	<0.003	<0.003	NA

Notes: See Last Page

Table 2
Groundwater Analytical Data
Former GM Employee Development Center
65 East University
Pontiac, Michigan

Sample ID:	Units	Michigan Groundwater Cleanup Criteria and Risk Based Screening Levels				MW-26	MW-26	MW-26	MW-26		MW-26		MW-27	MW-27	MW-27	MW-27	MW-27	MW-28	MW-28	MW-28	MW-28	MW-28	MW-29
						Off-site - Right-of-Way of Mill Street	Off-site - Right-of-Way of Mill Street	Off-site - Right-of-Way of Mill Street	Off-site - Right-of-Way of Mill Street		Off-site - Right-of-Way of Mill Street		Off-site - Right-of-Way of Mill Street	Off-site - Right-of-Way of Mill Street	Off-site - Right-of-Way of Mill Street	Off-site - Right-of-Way of Mill Street	Off-site - Right-of-Way of Mill Street	North of Building, within Excavation Area	North of Building, within Excavation Area	North of Building, within Excavation Area	North of Building, within Excavation Area	North of Building, within Excavation Area	Northeast of Building, Along Augusta Relief Drain
Date Collected:		Non-Residential Drinking Water Protection Criteria & RBSLs	Groundwater Surface Water Interface Criteria & RBSLs	Non-Residential Groundwater Volatilization to Indoor Air Inhalation Criteria & RBSLs	Flammability and Explosivity Screening Level	1/30/2013	6/24/2013	9/19/2013	5/23/2014		10/27/2014		1/30/2013	6/24/2013	9/19/2013	5/23/2014	10/27/2014	1/28/2013	6/27/2013	9/19/2013	5/21/2014	10/28/2014	1/29/2013
Screened Interval (feet bgl):						3-13'	3-13'	3-13'	3-13'		3-13'		6.5-16.5'	6.5-16.5'	6.5-16.5'	6.5-16.5'	6.5-16.5'	4-9'	4-9'	4-9'	4-9'	4-9'	4.5-9.5'
Analytical Parameter																							
TPH (EPA Method 418.1)	mg/L	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	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	NA	NA	NA	NA		NA		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fuel Oil	mg/L	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	NA	NA	NA	NA		NA		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Kerosene	mg/L	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	NA	NA	NA	NA		NA		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Motor Oil	mg/L	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	<5	<5	<5	<5	<5	NA		<5	<5	<5	<5	NA	<5	<5	<5	<5	NA	<5
2-Methylnaphthalene	ug/L	750	19	25,000 (S)	ID	<5	<5	<5	<5	<5	<300	<300	<5	<5	<5	<5	<5**	<5	<5	<5	<5	<5**	<5
Acenaphthene	ug/L	3,800	38	4,200 (S)	ID	<5	<5	<5	<5	<5	NA		<5	<5	<5	<5	NA	<5	<5	<5	<5	NA	<5
Acenapthylene	ug/L	150	ID	3,900 (S)	ID	<5	<5	<5	<5	<5	NA		<5	<5	<5	<5	NA	<5	<5	<5	<5	NA	<5
Anthracene	ug/L	43 (S)	ID	43 (S)	ID	<5	<5	<5	<5	<5	NA		<5	<5	<5	<5	NA	<5	<5	<5	<5	NA	<5
Benz(a)anthracene	ug/L	8.5	ID	NLV	ID	<1	<1	<1	<1	<1	NA		<1	<1	<1	<1	NA	<1	<1	<1	<1	NA	<1
Benzo(a)pyrene	ug/L	5.0 (A)	ID	NLV	ID	<1	<1	<1	<1	<1	NA		<1	<1	<1	<1	NA	<1	<1	<1	<1	NA	<1
Benzo(b)fluoranthene	ug/L	1.5 (S, AA)	ID	ID	ID	<1	<1	<1	<1	<1	NA		<1	<1	<1	<1	NA	<1	<1	<1	<1	NA	<1
Benzo(g,h,i)perylene	ug/L	1.0 (M); 0.26 (S)	NA	NLV	ID	<1	<1	<1	<1	<1	NA		<1	<1	<1	<1	NA	<1	<1	<1	<1	NA	<1
Benzo(k)fluoranthene	ug/L	1.0 (M); 0.8 (S)	NA	NLV	ID	<1	<1	<1	<1	<1	NA		<1	<1	<1	<1	NA	<1	<1	<1	<1	NA	<1
Chrysene	ug/L	1.6 (S)	ID	ID	ID	<1	<1	<1	<1	<1	NA		<1	<1	<1	<1	NA	<1	<1	<1	<1	NA	<1
Dibenzo(a,h)anthracene	ug/L	2.0 (M); 0.85	ID	NLV	ID	<2	<2	<2	<2	<2	NA		<2	<2	<2	<2	NA	<2	<2	<2	<2	NA	<2
Fluoranthene	ug/L	210 (S)	1.6	210 (S)	ID	<1	<1	<1	<1	<1	NA		<1	<1	<1	<1	NA	<1	<1	<1	<1	NA	<1
Fluorene	ug/L	2,000 (S)	12	2,000 (S)	ID	<5	<5	<5	<5	<5	NA		<5	<5	<5	<5	NA	<5	<5	<5	<5	NA	<5
Indeno(1,2,3-cd)pyrene	ug/L	2.0 (M); 0.022 (S)	ID	NLV	ID	<2	<2	<2	<2	<2	NA		<2	<2	<2	<2	NA	<2	<2	<2	<2	NA	<2
Naphthalene	ug/L	1,500	11	31,000 (S)	NA	<5	<5	<5	<5	<5	<300	<300	<5	<5	<5	<5	<5**	<5	<5	<5	<5	<5**	<5
Phenanthrene	ug/L	150	2.0 (M); 1.4	1,000 (S)	ID	<2	<2	<2	<2	<2	NA		<2	<2	<2	<2	NA	<2	<2	<2	<2	NA	<2
Pyrene	ug/L	140 (S)	ID	140 (S)	ID	<5	<5	<5	<5	<5	NA		<5	<5	<5	<5	NA	<5	<5	<5	<5	NA	<5
Other Target PAHs	ug/L	various	various	various	various	ND	ND	ND	ND	ND	NA		ND	ND	ND	ND	NA	ND	ND	ND	ND	NA	ND
VOCs (EPA Method 8260)																							
1,1,1-Trichloroethane	ug/L	200 (A)	89	1.3E+06 (S)	ID	<50	<50	<100	<50	<50	<50	<50	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-Tetrachloroethane	ug/L	35	78 (X)	77,000	ID	<50	<50	<100	<50	<50	<50	<50	<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	NA	<50	<50	<100	<50	<50	<50	<50	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-Dichloroethane	ug/L	2,500	740	2.30E+06	3.80E+05	<50	<50	<100	<50	<50	<50	<50	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-Dichloroethene	ug/L	7.0 (A)	130	1,300	97,000	<50	<50	<100	<50	<50	<50	<50	<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)	<50	<50	<100	<50	<50	<50	<50	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	ug/L	5.0 (A)	360 (X)	59,000	2.50E+06	<50	<50	<100	<50	<50	<50	<50	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloropropane	ug/L	5.0 (A)	230 (X)	36,000	5.50E+05	<50	<50	<100	<50	<50	<50	<50	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,3,5-Trimethylbenzene	ug/L	72 (E)	45	61,000 (S)	ID	<50	<50	<100	<50	<50	<50	<50	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
2-Butanone	ug/L	38,000	2,200	2.4E+08 (S)	ID	<1,300	<1,300	<250	<1,300	<1,300	<1300	<1300	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
2-Hexanone	ug/L	2,900	ID	8.70E+06	NA	<2,500	<2,500	<500	<2,500	<2,500	<2500	<2500	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
4-Methyl-2-pentanone	ug/L	5,200	ID	2.0E+07 (S)	ID	<2,500	<2,500	<500	<2,500	<2,500	<2500	<2500	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
Acetone	ug/L	2,100	1,700	1.0E+09 (D,S)	1.50E+07	<2,500	<2,500	<500	<2,500	<2,500	<2500	<2500	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
Benzene	ug/L	5.0 (A)	200 (X)	35,000	68,000	**3,360**	**3,020**	**2,600**	**2,450**	**2,530**	**2,870**	**3,200**	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromochloromethane	ug/L	none	none	none	none	<50	<50	<100	<50	<50	<50	<50	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromoform	ug/L	80 (A,W)	ID	3.10E+06	ID	<50	<50	<100	<50	<50	<50	<50	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromomethane	ug/L	29	35	9,000	ID	<300	<300	<500	<300	<300	<300	<300	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
n-Butylbenzene	ug/L	230	ID	ID	ID	<50	<50	<100	<50	<50	<50	<50	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
sec-Butylbenzene	ug/L	230	ID	ID	ID	ND	ND	ND	ND	ND	<50	<50	ND	ND	ND	ND	<1	ND	ND	ND	ND	<1	ND
Carbon disulfide	ug/L	2,300	ID	5.50E+05	13,000	<300	<300	<500	<300	<300	<300	<300	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Carbon tetrachloride	ug/L	5.0 (A)	45 (X)	2,400	ID	<50	<50	<100	<50	<50	<50	<50	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlorobenzene	ug/L	100 (A)	25	4.70E+05	1.60E+05	<50	<50	<100	<50	<50	<50	<50	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroethane	ug/L	1,700	1,100 (X)	5.7E+06 (S)	1.10E+05	<300	<300	<500	<300	<300	<300	<300	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Chloroform	ug/L	80 (A, W)	350	1.80E+05	ID	<50	<50	<100	<50	<50	<50	<50	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloromethane	ug/L	1,100	ID	45,000	36,000	<300	<300	<500	<300	<300	<300	<300	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Dibromochloromethane	ug/L	80 (A, W)	ID	1.10E+05	ID	<300	<300	<500	<300	<300	<300	<300	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Ethylbenzene	ug/L	74 (E)	18	1.7E+05 (S)	43,000	<50	<50	<100	<50	<50	<50	<50	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Isopropylbenzene	ug/L	2,300	28	56,000 (S)	29,000	ND	ND	ND	ND	ND	<300	<300	ND	ND	ND	ND	<5	ND	ND	ND	ND	<5	ND
Methylene chloride	ug/L	5.0 (A)	1,500 (X)	1.40E+06	ID	<300	<300	<500	<300	<300	<300	<300	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
n-Propylbenzene	ug/L	230	ID	ID	ID	<50	<50	<100	<50	<50	<50	<50	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Styrene	ug/L	100 (A)	80 (X)	3.1E+05 (S)	1.40E+05	<50	<50	<100	<50	<50	<50	<50	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethylene	ug/L	5.0 (A)	60 (X)	1.70E+05	ID	<50	<50	<100	<50	<50	<50	<50	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	ug/L	790 (E)	270	5.3E+05 (S)	61,000	<50	50	<100	<50	<50	<50	<50	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethene	ug/L	5.0 (A)	200 (X)	4,900	ID	<50	<50	<100	<50	<50	<50	<50	<1	4	**6**	4	5	<1	<1	<1	<1	<1	<1
Vinyl chloride	ug/L	2.0 (A)	13 (X)	13,000	33,000	<50	<50	<100	<50	<50	<50	<50	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
cis-1,2-Dichloroethene	ug/L	70 (A)	620	2.10E+05	5.30E+05	<50	<50	<100	<50	<50	<50	<50	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
cis-1,3-Dichloropropene	ug/L	none	none	none	none	<50	<50	<100	<50	<50	<50	<50	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
m,p-Xylene	ug/L	none	none	none	none	<50	<50	<100	<100	<100	<50	<50	<1	<1	<1	<2	<1	<1	<1	<1	<2	<1	<1
o-Xylene	ug/L	none	none	none	none	<100	<100	<300	<50	<50	<100	<100	<2	<2	<2	<1	<2	<2	<2	<2	<2	<1	<2
Xylenes, Total	ug/L	280 (E)	41	1.9E+05 (S)	70,000	<150	<150	<400	<150	<150	<150	<150	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
trans-1,2-Dichloroethene	ug/L	100 (A)	1,500 (X)	2.0E+05 (S)	2.3E+05 (S)	<50	<50	<100	<50	<50	<50	<50	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
trans-1,3-Dichloropropene	ug/L	none	none	none	none	<50	<50	<100	<50	<50	<50	<50	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethene (total)	ug/L	none	none	none	none	NA	NA	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	<50	<50	<100	<50	<50	<50	<50	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Other Target VOCs	ug/L	various	various	various	various	ND	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)	7,100 (X)	4.7E+07 (S)	ID	<300	<300	<500	<300	<300	<300	<300	<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	<0.003	<0.003	<0.003	<0.003	<0.003	NA	NA	<0.003	0.003	<0.003	<0.003	NA	<0.003	<0.003	<0.003	<0.003	NA	<0.003

Notes: See Last Page

Table 2
Groundwater Analytical Data
Former GM Employee Development Center
65 East University
Pontiac, Michigan

Sample ID: / Date Collected: / Screened Interval (feet bgl): / Analytical Parameter	Units	Michigan Groundwater Cleanup Criteria and Risk Based Screening Levels: Non-Residential Drinking Water Protection Criteria & RBSLs	Groundwater Surface Water Interface Criteria & RBSLs	Non-Residential Groundwater Volatilization to Indoor Air Inhalation Criteria & RBSLs	Flammability and Explosivity Screening Level	MW-29 Northeast of Building, Along Augusta Relief Drain 6/26/2013 4.5-9.5'	MW-29 Northeast of Building, Along Augusta Relief Drain 9/17/2013 4.5-9.5'	MW-29 Northeast of Building, Along Augusta Relief Drain 5/21/2014 4.5-9.5'	MW-29 Northeast of Building, Along Augusta Relief Drain 10/28/2014 4.5-9.5'	MW-30 East of Building, Along Augusta Relief Drain 1/31/2013 3-13'	MW-30 East of Building, Along Augusta Relief Drain 6/25/2013 3-13'	MW-30 East of Building, Along Augusta Relief Drain 9/20/2013 3-13'	MW-30 East of Building, Along Augusta Relief Drain 5/22/2014 3-13'	MW-30 East of Building, Along Augusta Relief Drain 10/28/2014 3-13'	MW-31 South of Building - Adjecent to Storm Sewer 2/1/2013 3-8'	MW-31 South of Building - Adjecent to Storm Sewer 6/25/2013 3-8'	MW-31 South of Building - Adjecent to Storm Sewer 9/20/2013 3-8'	MW-31 South of Building - Adjacent to Storm Sewer 5/22/2014 3-8'	MW-31 South of Building - Adjacent to Storm Sewer 10/27/2014 3-8'	MW-32S Southwest Corner of Property (Shallow) 10/27/2014 7-12'	MW-32D Southwest Corner of Property (Deep) 10/27/2014 14-19'	MW-33 Southwest Portion of Former Garage Area North of 10/28/2014 13-18'	B-58 Appr 25-30 ft SE of MW-24S/D 9/23/2014 15-20' Temp Well
TPH (EPA Method 418.1)	mg/L	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	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	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	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	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	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	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	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	<5	<5	<5	NA	<5	<5	<5	<5	NA	<5	<5	<5	<5	NA	NA	NA	NA	NA
2-Methylnaphthalene	ug/L	750	19	25,000 (S)	ID	<5	<5	<5	<5**	<5	<5	<5	<5	<5**	<5	<5	<5	<5	<5**	<5**	<5**	<5**	NA
Acenaphthene	ug/L	3,800	38	4,200 (S)	ID	<5	<5	<5	NA	<5	<5	<5	<5	NA	<5	<5	<5	<5	NA	NA	NA	NA	NA
Acenapthylene	ug/L	150	ID	3,900 (S)	ID	<5	<5	<5	NA	<5	<5	<5	<5	NA	<5	<5	<5	<5	NA	NA	NA	NA	NA
Anthracene	ug/L	43 (S)	ID	43 (S)	ID	<5	<5	<5	NA	<5	<5	<5	<5	NA	<5	<5	<5	<5	NA	NA	NA	NA	NA
Benz(a)anthracene	ug/L	8.5	ID	NLV	ID	<1	<1	<1	NA	<1	<1	<1	<1	NA	<1	<1	<1	<1	NA	NA	NA	NA	NA
Benzo(a)pyrene	ug/L	5.0 (A)	ID	NLV	ID	<1	<1	<1	NA	<1	<1	<1	<1	NA	<1	<1	<1	<1	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	ug/L	1.5 (S, AA)	ID	ID	ID	<1	<1	<1	NA	<1	<1	<1	<1	NA	<1	<1	<1	<1	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	ug/L	1.0 (M); 0.26 (S)	NA	NLV	ID	<1	<1	<1	NA	<1	<1	<1	<1	NA	<1	<1	<1	<1	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	ug/L	1.0 (M); 0.8 (S)	NA	NLV	ID	<1	<1	<1	NA	<1	<1	<1	<1	NA	<1	<1	<1	<1	NA	NA	NA	NA	NA
Chrysene	ug/L	1.6 (S)	ID	ID	ID	<1	<1	<1	NA	<1	<1	<1	<1	NA	<1	<1	<1	<1	NA	NA	NA	NA	NA
Dibenzo(a,h)anthracene	ug/L	2.0 (M); 0.85	ID	NLV	ID	<2	<2	<2	NA	<2	<2	<2	<2	NA	<2	<2	<2	<2	NA	NA	NA	NA	NA
Fluoranthene	ug/L	210 (S)	1.6	210 (S)	ID	<1	<1	<1	NA	<1	<1	<1	<1	NA	<1	<1	<1	<1	NA	NA	NA	NA	NA
Fluorene	ug/L	2,000 (S)	12	2,000 (S)	ID	<5	<5	<5	NA	<5	<5	<5	<5	NA	<5	<5	<5	<5	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	ug/L	2.0 (M); 0.022 (S)	ID	NLV	ID	<2	<2	<2	NA	<2	<2	<2	<2	NA	<2	<2	<2	<2	NA	NA	NA	NA	NA
Naphthalene	ug/L	1,500	11	31,000 (S)	NA	<5	<5	<5	<5**	<5	<5	<5	<5	<5**	<5	<5	<5	<5	<5**	<5**	<5**	<5**	NA
Phenanthrene	ug/L	150	2.0 (M); 1.4	1,000 (S)	ID	<2	<2	<2	NA	<2	<2	<2	<2	NA	<2	<2	<2	<2	NA	NA	NA	NA	NA
Pyrene	ug/L	140 (S)	ID	140 (S)	ID	<5	<5	<5	NA	<5	<5	<5	<5	NA	<5	<5	<5	<5	NA	NA	NA	NA	NA
Other Target PAHs	ug/L	various	various	various	various	ND	ND	ND	NA	ND	ND	ND	ND	NA	ND	ND	ND	ND	NA	NA	NA	NA	NA
VOCs (EPA Method 8260)																							
1,1,1-Trichloroethane	ug/L	200 (A)	89	1.3E+06 (S)	ID	<1	<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	ID	<1	<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	NA	<1	<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	3.80E+05	<1	<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)	130	1,300	97,000	<1	<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)	<1	<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	2.50E+06	<1	<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)	230 (X)	36,000	5.50E+05	<1	<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)	ID	<1	<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)	ID	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
2-Hexanone	ug/L	2,900	ID	8.70E+06	NA	<50	<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)	ID	<50	<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)	1.50E+07	<50	<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	68,000	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	**40**	1
Bromochloromethane	ug/L	none	none	none	none	<1	<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	ID	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromomethane	ug/L	29	35	9,000	ID	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
n-Butylbenzene	ug/L	230	ID	ID	ID	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
sec-Butylbenzene	ug/L	230	ID	ID	ID	ND	ND	ND	<1	ND	ND	ND	ND	<1	ND	ND	ND	ND	<1	<1	<1	<1	<1
Carbon disulfide	ug/L	2,300	ID	5.50E+05	13,000	<5	<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	ID	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlorobenzene	ug/L	100 (A)	25	4.70E+05	1.60E+05	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroethane	ug/L	1,700	1,100 (X)	5.7E+06 (S)	1.10E+05	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Chloroform	ug/L	80 (A, W)	350	1.80E+05	ID	<1	<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	36,000	<5	<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	ID	<5	<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)	43,000	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	5	<1
Isopropylbenzene	ug/L	2,300	28	56,000 (S)	29,000	ND	ND	ND	<5	ND	ND	ND	ND	<5	ND	ND	ND	ND	<5	<5	<5	<5	<5
Methylene chloride	ug/L	5.0 (A)	1,500 (X)	1.40E+06	ID	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
n-Propylbenzene	ug/L	230	ID	ID	ID	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Styrene	ug/L	100 (A)	80 (X)	3.1E+05 (S)	1.40E+05	<1	<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	ID	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	ug/L	790 (E)	270	5.3E+05 (S)	61,000	<1	<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	ID	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	3
Vinyl chloride	ug/L	2.0 (A)	13 (X)	13,000	33,000	<1	<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	5.30E+05	<1	<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	<1	<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	<1	<1	<2	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<2	<1	<1	<1	<2
o-Xylene	ug/L	none	none	none	none	<2	<2	<1	<2	<2	<2	<2	<1	<2	<2	<2	<2	<2	<1	<2	<2	<2	<1
Xylenes, Total	ug/L	280 (E)	41	1.9E+05 (S)	70,000	<3	<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 (X)	2.0E+05 (S)	2.3E+05 (S)	<1	<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	<1	<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	NA	NA	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	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Other Target VOCs	ug/L	various	various	various	various	ND	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)	7,100 (X)	4.7E+07 (S)	ID	<5	<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	<0.003	<0.003	<0.003	NA	<0.003	<0.003	<0.003	<0.003	NA	<0.003	<0.003	<0.003	<0.003	NA	NA	NA	NA	NA

Notes: See Last Page

Table 2
Groundwater Analytical Data
Former GM Employee Development Center
65 East University
Pontiac, Michigan

Sample ID:	Units	Michigan Groundwater Cleanup Criteria and Risk Based Screening Levels				B-59 Appr 25-30 ft S-SW of MW-24S/D	B-60 Appr 25 ft E of MW-24S/D	B-62 Appr 60 ft SW of MW-24S/D	B-63 Appr 60 ft W-NW of MW-24S/D	B-64 Appr 75 ft S of MW-24S/D in Basement Area
Date Collected:		Non-Residential Drinking Water Protection Criteria & RBSLs	Groundwater Surface Water Interface Criteria & RBSLs	Non-Residential Groundwater Volatilization to Indoor Air Inhalation Criteria & RBSLs	Flammability and Explosivity Screening Level	9/24/2014	9/23/2014	9/24/2014	9/24/2014	9/24/2014
Screened Interval (feet bgl):						11-16' Temp Well	10.5-15.5' Temp Well	13-18' Temp Well	8-18' Temp Well	8-13' Temp Well
Analytical Parameter										
TPH (EPA Method 418.1)	mg/L	none	none	none	none	NA	NA	NA	NA	NA
Semivolatile Hydrocarbons (EPA Method 8015B)										
Gasoline Range Organics	mg/L	none	none	none	none	NA	NA	NA	NA	NA
Diesel Range Organics	mg/L	none	none	none	none	NA	NA	NA	NA	NA
Fuel Oil	mg/L	none	none	none	none	NA	NA	NA	NA	NA
Hydraulic Fluid	mg/L	none	none	none	none	NA	NA	NA	NA	NA
Kerosene	mg/L	none	none	none	none	NA	NA	NA	NA	NA
Mineral Spirits	mg/L	none	none	none	none	NA	NA	NA	NA	NA
Motor Oil	mg/L	none	none	none	none	NA	NA	NA	NA	NA
PAH (EPA Method 8310)										
1-Methylnaphthalene	ug/L	none	none	none	none	NA	NA	NA	NA	NA
2-Methylnaphthalene	ug/L	750	19	25,000 (S)	ID	NA	NA	NA	NA	NA
Acenaphthene	ug/L	3,800	38	4,200 (S)	ID	NA	NA	NA	NA	NA
Acenapthylene	ug/L	150	ID	3,900 (S)	ID	NA	NA	NA	NA	NA
Anthracene	ug/L	43 (S)	ID	43 (S)	ID	NA	NA	NA	NA	NA
Benz(a)anthracene	ug/L	8.5	ID	NLV	ID	NA	NA	NA	NA	NA
Benzo(a)pyrene	ug/L	5.0 (A)	ID	NLV	ID	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	ug/L	1.5 (S, AA)	ID	ID	ID	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	ug/L	1.0 (M); 0.26 (S)	NA	NLV	ID	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	ug/L	1.0 (M); 0.8 (S)	NA	NLV	ID	NA	NA	NA	NA	NA
Chrysene	ug/L	1.6 (S)	ID	ID	ID	NA	NA	NA	NA	NA
Dibenzo(a,h)anthracene	ug/L	2.0 (M); 0.85	ID	NLV	ID	NA	NA	NA	NA	NA
Fluoranthene	ug/L	210 (S)	1.6	210 (S)	ID	NA	NA	NA	NA	NA
Fluorene	ug/L	2,000 (S)	12	2,000 (S)	ID	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	ug/L	2.0 (M); 0.022 (S)	ID	NLV	ID	NA	NA	NA	NA	NA
Naphthalene	ug/L	1,500	11	31,000 (S)	NA	NA	NA	NA	NA	NA
Phenanthrene	ug/L	150	2.0 (M); 1.4	1,000 (S)	ID	NA	NA	NA	NA	NA
Pyrene	ug/L	140 (S)	ID	140 (S)	ID	NA	NA	NA	NA	NA
Other Target PAHs	ug/L	various	various	various	various	NA	NA	NA	NA	NA
VOCs (EPA Method 8260)										
1,1,1-Trichloroethane	ug/L	200 (A)	89	1.3E+06 (S)	ID	<1	<50	<2	<1	<1
1,1,2,2-Tetrachloroethane	ug/L	35	78 (X)	77,000	ID	<1	<50	<2	<1	<1
1,1,2-Trichloroethane	ug/L	5.0 (A)	330 (X)	1.10E+05	NA	<1	<50	<2	<1	<1
1,1-Dichloroethane	ug/L	2,500	740	2.30E+06	3.80E+05	<1	<50	<2	<1	<1
1,1-Dichloroethene	ug/L	7.0 (A)	130	1,300	97,000	<1	<50	<2	<1	<1
1,2,4-Trimethylbenzene	ug/L	63 (E)	17	56,000 (S)	56,000 (S)	3	**540**	3	<1	<1
1,2-Dichloroethane	ug/L	5.0 (A)	360 (X)	59,000	2.50E+06	<1	<50	<2	<1	<1
1,2-Dichloropropane	ug/L	5.0 (A)	230 (X)	36,000	5.50E+05	<1	<50	<2	<1	<1
1,3,5-Trimethylbenzene	ug/L	72 (E)	45	61,000 (S)	ID	<1	**150**	<2	<1	<1
2-Butanone	ug/L	38,000	2,200	2.4E+08 (S)	ID	<25	<1300	<50	<25	<25
2-Hexanone	ug/L	2,900	ID	8.70E+06	NA	<50	<2500	<100	<50	<50
4-Methyl-2-pentanone	ug/L	5,200	ID	2.0E+07 (S)	ID	<50	<2500	<100	<50	<50
Acetone	ug/L	2,100	1,700	1.0E+09 (D,S)	1.50E+07	<50	<2500	<100	<50	<50
Benzene	ug/L	5.0 (A)	200 (X)	35,000	68,000	**99**	**3,600**	**153**	<1	<1
Bromochloromethane	ug/L	none	none	none	none	<1	<50	<2	<1	<1
Bromoform	ug/L	80 (A,W)	ID	3.10E+06	ID	<1	<50	<2	<1	<1
Bromomethane	ug/L	29	35	9,000	ID	<5	<300	<10	<5	<5
n-Butylbenzene	ug/L	230	ID	ID	ID	<1	<50	<2	<1	<1
sec-Butylbenzene	ug/L	230	ID	ID	ID	3	<50	<2	<1	<1
Carbon disulfide	ug/L	2,300	ID	5.50E+05	13,000	<5	<300	<10	<5	<5
Carbon tetrachloride	ug/L	5.0 (A)	45 (X)	2,400	ID	<1	<50	<2	<1	<1
Chlorobenzene	ug/L	100 (A)	25	4.70E+05	1.60E+05	<1	<50	<2	<1	<1
Chloroethane	ug/L	1,700	1,100 (X)	5.7E+06 (S)	1.10E+05	<5	<300	<10	<5	<5
Chloroform	ug/L	80 (A, W)	350	1.80E+05	ID	<1	<50	<2	<1	<1
Chloromethane	ug/L	1,100	ID	45,000	36,000	<5	<300	<10	<5	<5
Dibromochloromethane	ug/L	80 (A, W)	ID	1.10E+05	ID	<5	<300	<10	<5	<5
Ethylbenzene	ug/L	74 (E)	18	1.7E+05 (S)	43,000	**38**	**1,460**	**101**	<1	<1
Isopropylbenzene	ug/L	2,300	28	56,000 (S)	29,000	7	<300	<10	<5	<5
Methylene chloride	ug/L	5.0 (A)	1,500 (X)	1.40E+06	ID	<5	<300	<10	<5	<5
n-Propylbenzene	ug/L	230	ID	ID	ID	9	90	11	<1	<1
Styrene	ug/L	100 (A)	80 (X)	3.1E+05 (S)	1.40E+05	<1	<50	<2	<1	<1
Tetrachloroethylene	ug/L	5.0 (A)	60 (X)	1.70E+05	ID	<1	<50	<2	<1	<1
Toluene	ug/L	790 (E)	270	5.3E+05 (S)	61,000	<1	**890**	<2	<1	<1
Trichloroethene	ug/L	5.0 (A)	200 (X)	4,900	ID	<1	<50	<2	<1	<1
Vinyl chloride	ug/L	2.0 (A)	13 (X)	13,000	33,000	<1	<50	<2	<1	<1
cis-1,2-Dichloroethene	ug/L	70 (A)	620	2.10E+05	5.30E+05	<1	<50	<2	<1	<1
cis-1,3-Dichloropropene	ug/L	none	none	none	none	<1	<50	<2	<1	<1
m,p-Xylene	ug/L	none	none	none	none	8	4,600	61	<2	<2
o-Xylene	ug/L	none	none	none	none	10	1,340	2	<1	<1
Xylenes, Total	ug/L	280 (E)	41	1.9E+05 (S)	70,000	18	**5,940**	**63**	<3	<3
trans-1,2-Dichloroethene	ug/L	100 (A)	1,500 (X)	2.0E+05 (S)	2.3E+05 (S)	<1	<50	<2	<1	<1
trans-1,3-Dichloropropene	ug/L	none	none	none	none	<1	<50	<2	<1	<1
1,2-Dichloroethene (total)	ug/L	none	none	none	none	NA	NA	NA	NA	NA
1,2,3-Trimethylbenzene	ug/L	none	none	none	none	<1	170	<2	<1	<1
Other Target VOCs	ug/L	various	various	various	various	ND	ND	ND	ND	ND
MTBE (EPA Method 8021B)	ug/L	40 (E)	7,100 (X)	4.7E+07 (S)	ID	<5	<300	<10	<5	<5
Dissolved Metals (Method 6020)										
Lead	mg/L	0.004 (L)	(G,X)	NLV	ID	NA	NA	NA	NA	NA

Notes: See Last Page

Table 2
Groundwater Analytical Data

Former GM Employee Development Center
65 East University
Pontiac, Michigan

Notes:

Exceedances:	Cleanup criteria exceedances are bolded.
	Monitoring Well was properly abandoned prior to the June 2012 excavation activities
NS :	Not sampled.
**:	Analyzed via USEPA Method 8260B
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 December 30, 2013). 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.

Table 3
Groundwater Level and Elevation Data

Former GM Employee Development Center
65 East University
Pontiac, Michigan

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
	917.46	5/21/2014	NP	5.39	NP	912.07
	917.46	10/27/2014	NP	6.25	NP	911.21
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
	912.78	5/21/2014	NP	2.75	NP	910.03
	912.78	10/27/2014	NP	3.52	NP	909.26

Table 3
Groundwater Level and Elevation Data

Former GM Employee Development Center
65 East University
Pontiac, Michigan

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
	916.14	5/21/2014	NP	3.71	NP	912.43
	916.14	10/27/2014	NP	4.52	NP	911.62
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
	916.66	5/21/2014	NP	3.46	NP	913.20
	916.66	10/27/2014	NP	3.74	NP	912.92
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
	915.19	5/21/2014	NP	3.89	NP	911.30
	915.19	10/27/2014	NP	4.65	NP	910.54

Table 3
Groundwater Level and Elevation Data

Former GM Employee Development Center
65 East University
Pontiac, Michigan

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
	918.71	5/21/2014	NP	8.25	NP	910.46
	918.71	10/27/2014	NP	9.22	NP	909.49
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
	916.50	5/21/2014	NP	3.99	NP	912.51
	916.50	10/27/2014	NP	8.30	NP	908.20
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
	916.10	5/21/2014	NP	2.96	NP	913.14
	916.10	10/27/2014	NP	3.95	NP	912.15
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
	915.12	5/21/2014	NP	3.80	NP	911.32
	915.12	10/27/2014	NP	4.72	NP	910.40
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
	915.34	5/21/2014	NP	4.02	NP	911.32
	915.34	10/27/2014	NP	4.90	NP	910.44

Table 3
Groundwater Level and Elevation Data

Former GM Employee Development Center
65 East University
Pontiac, Michigan

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
	918.37	5/21/2014	NP	2.05	NP	916.32
	918.37	10/27/2014	NP	2.03	NP	916.34
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	5/21/2014	NP	1.89	NP	915.10
	916.99	10/27/2014	NP	1.97	NP	915.02
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
	916.43	5/21/2014	NP	4.36	NP	912.07
	916.43	10/27/2014	NP	5.28	NP	911.15
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
	917.38	5/21/2014	NP	4.29	NP	913.09
	917.38	10/27/2014	NP	5.67	NP	911.71
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
	917.44	5/21/2014	NP	6.24	NP	911.20
	917.44	10/27/2014	NP	6.72	NP	910.72
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
	917.42	5/21/2014	NP	1.21	NP	916.21
	917.42	10/27/2014	NP	2.63	NP	914.79

Table 3
Groundwater Level and Elevation Data

Former GM Employee Development Center
65 East University
Pontiac, Michigan

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
	917.44	5/21/2014	NP	1.22	NP	916.22
	917.44	10/27/2014	NP	2.61	NP	914.83
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
	916.7	5/21/2014	NP	1.60	NP	915.10
	916.7	10/27/2014	NP	2.22	NP	914.48
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
	916.56	5/21/2014	NP	3.23	NP	913.33
	916.56	10/27/2014	NP	3.40	NP	913.16
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
	917.37	5/21/2014	NP	2.93	NP	914.44
	917.37	10/27/2014	NP	4.05	NP	913.32
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
	915.68	5/21/2014	NP	4.11	NP	911.57
	915.68	10/27/2014	NP	4.91	NP	910.77
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
	916.67	5/21/2014	NP	3.40	NP	913.27
	916.67	10/27/2014	NP	3.19	NP	913.48
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
	916.75	5/21/2014	NP	6.79	NP	909.96
	916.75	10/27/2014	NP	8.00	NP	908.75
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
	917.01	5/21/2014	NP	2.89	NP	914.12
	917.01	10/27/2014	NP	2.78	NP	914.23
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
	918.48	5/21/2014	NP	4.50	NP	913.98
	918.48	10/27/2014	NP	5.41	NP	913.07

Table 3
Groundwater Level and Elevation Data

Former GM Employee Development Center
65 East University
Pontiac, Michigan

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-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
	917.38	5/21/2014	NP	2.53	NP	914.85
	917.38	10/27/2014	NP	3.58	NP	913.80
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
	915.11	5/21/2014	NP	5.06	NP	910.05
	915.11	10/27/2014	NP	6.07	NP	909.04
MW-32S (7-12')	916.84	10/27/2014	NP	6.42	NP	910.42
MW-32D (14-19')	916.75	10/27/2014	NP	6.52	NP	910.23
MW-33 (13-18')	916.87	10/27/2014	NP	4.55	NP	912.32

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, November 1, 2010, January 30, 2013 and October 24, 2014.

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

Table 4
Storm Sewer Sample Analytical Data

Former Employee Development Center
65 East University
Pontiac, Michigan

Sample ID:	Units	Michigan Groundwater Cleanup Criteria and Risk Based Screening Levels				SS-1	SS-1	SS-2	SS-2	SS-3
		Non-Residential Drinking Water Protection Criteria & RBSLs	Groundwater Surface Water Interface Criteria & RBSLs	Non-Residential Groundwater Volatilization to Indoor Air Inhalation Criteria & RBSLs	Flammability and Explosivity Screening Level					
Date Collected:						5/21/2014	10/27/2014	5/21/2014	10/27/2014	5/23/2014
Analytical Parameter										
PAH (EPA Method 8310)										
1-Methylnaphthalene	ug/L	none	none	none	none	<5	NA	<5	NA	<5
2-Methylnaphthalene	ug/L	750	19	25,000 (S)	ID	<5	<5**	<5	<5**	<5
Acenaphthene	ug/L	3,800	38	4,200 (S)	ID	<5	NA	<5	NA	<5
Acenapthylene	ug/L	150	ID	3,900 (S)	ID	<5	NA	<5	NA	<5
Anthracene	ug/L	43 (S)	ID	43 (S)	ID	<5	NA	<5	NA	<5
Benz(a)anthracene	ug/L	8.5	ID	NLV	ID	<1	NA	<1	NA	<1
Benzo(a)pyrene	ug/L	5.0 (A)	ID	NLV	ID	<1	NA	<1	NA	<1
Benzo(b)fluoranthene	ug/L	1.5 (S, AA)	ID	ID	ID	<1	NA	<1	NA	<1
Benzo(g,h,i)perylene	ug/L	1.0 (M); 0.26 (S)	NA	NLV	ID	<1	NA	<1	NA	<1
Benzo(k)fluoranthene	ug/L	1.0 (M); 0.8 (S)	NA	NLV	ID	<1	NA	<1	NA	<1
Chrysene	ug/L	1.6 (S)	ID	ID	ID	<1	NA	<1	NA	<1
Dibenzo(a,h)anthracene	ug/L	2.0 (M); 0.85	ID	NLV	ID	<2	NA	<2	NA	<2
Fluoranthene	ug/L	210 (S)	1.6	210 (S)	ID	<1	NA	<1	NA	<1
Fluorene	ug/L	2,000 (S)	12	2,000 (S)	ID	<5	NA	<5	NA	<5
Indeno(1,2,3-cd)pyrene	ug/L	2.0 (M); 0.022 (S)	ID	NLV	ID	<2	NA	<2	NA	<2
Naphthalene	ug/L	1,500	11	31,000 (S)	NA	<5	<5**	<5	<5**	<5
Phenanthrene	ug/L	150	2.0 (M); 1.4	1,000 (S)	ID	<2	NA	<2	NA	<2
Pyrene	ug/L	140 (S)	ID	140 (S)	ID	<5	NA	<5	NA	<5
Other Target PAHs	ug/L	various	various	various	various	ND	NA	ND	NA	ND
VOCs (EPA Method 8260)										
1,1,1-Trichloroethane	ug/L	200 (A)	89	1.3E+06 (S)	ID	<1	NS*	<1	<1	<1
1,1,2,2-Tetrachloroethane	ug/L	35	78 (X)	77,000	ID	<1	NS*	<1	<1	<1
1,1,2-Trichloroethane	ug/L	5.0 (A)	330 (X)	1.10E+05	NA	<1	NS*	<1	<1	<1
1,1-Dichloroethane	ug/L	2,500	740	2.30E+06	3.80E+05	<1	NS*	<1	<1	<1
1,1-Dichloroethene	ug/L	7.0 (A)	130	1,300	97,000	<1	NS*	<1	<1	<1
1,2,4-Trimethylbenzene	ug/L	63 (E)	17	56,000 (S)	56,000 (S)	<1	NS*	<1	<1	<1
1,2-Dichloroethane	ug/L	5.0 (A)	360 (X)	59,000	2.50E+06	<1	NS*	<1	<1	<1
1,2-Dichloropropane	ug/L	5.0 (A)	230 (X)	36,000	5.50E+05	<1	NS*	<1	<1	<1
1,3,5-Trimethylbenzene	ug/L	72 (E)	45	61,000 (S)	ID	<1	NS*	<1	<1	<1
2-Butanone	ug/L	38,000	2,200	2.4E+08 (S)	ID	<25	NS*	<25	<25	<25
2-Hexanone	ug/L	2,900	ID	8.70E+06	NA	<50	NS*	<50	<50	<50
4-Methyl-2-pentanone	ug/L	5,200	ID	2.0E+07 (S)	ID	<50	NS*	<50	<50	<50
Acetone	ug/L	2,100	1,700	1.0E+09 (D,S)	1.50E+07	<50	NS*	<50	<50	<50
Benzene	ug/L	5.0 (A)	200 (X)	35,000	68,000	<1	NS*	<1	<1	<1
Bromochloromethane	ug/L	none	none	none	none	<1	NS*	<1	<1	<1
Bromoform	ug/L	80 (A,W)	ID	3.10E+06	ID	<1	NS*	<1	<1	<1
Bromomethane	ug/L	29	35	9,000	ID	<5	NS*	<5	<5	<5
n-Butylbenzene	ug/L	230	ID	ID	ID	<1	NS*	<1	<1	<1
Carbon disulfide	ug/L	2,300	ID	5.50E+05	13,000	<5	NS*	<5	<5	<5
Carbon tetrachloride	ug/L	5.0 (A)	45 (X)	2,400	ID	<1	NS*	<1	<1	<1
Chlorobenzene	ug/L	100 (A)	25	4.70E+05	1.60E+05	<1	NS*	<1	<1	<1
Chloroethane	ug/L	1,700	1,100 (X)	5.7E+06 (S)	1.10E+05	<5	NS*	<5	<5	<5
Chloroform	ug/L	80 (A, W)	350	1.80E+05	ID	<1	NS*	<1	<1	<1
Chloromethane	ug/L	1,100	ID	45,000	36,000	<5	NS*	<5	<5	<5
Dibromochloromethane	ug/L	80 (A, W)	ID	1.10E+05	ID	<5	NS*	<5	<5	<5
Ethylbenzene	ug/L	74 (E)	18	1.7E+05 (S)	43,000	<1	NS*	<1	<1	<1
Methylene chloride	ug/L	5.0 (A)	1,500 (X)	1.40E+06	ID	<5	NS*	<5	<5	<5
n-Propylbenzene	ug/L	230	ID	ID	ID	<1	NS*	<1	<1	<1
Styrene	ug/L	100 (A)	80 (X)	3.1E+05 (S)	1.40E+05	<1	NS*	<1	<1	<1
Tetrachloroethylene	ug/L	5.0 (A)	60 (X)	1.70E+05	ID	<1	NS*	<1	<1	<1
Toluene	ug/L	790 (E)	270	5.3E+05 (S)	61,000	5	NS*	2	<1	<1
Trichloroethene	ug/L	5.0 (A)	200 (X)	4,900	ID	<1	NS*	<1	<1	<1
Vinyl chloride	ug/L	2.0 (A)	13 (X)	13,000	33,000	<1	NS*	<1	<1	<1
cis-1,2-Dichloroethene	ug/L	70 (A)	620	2.10E+05	5.30E+05	<1	NS*	<1	<1	<1
cis-1,3-Dichloropropene	ug/L	none	none	none	none	<1	NS*	<1	<1	<1
m,p-Xylene	ug/L	none	none	none	none	<2	NS*	<2	<2	<2
o-Xylene	ug/L	none	none	none	none	<1	NS*	<1	<1	<1
Xylenes, Total	ug/L	280 (E)	41	1.9E+05 (S)	70,000	<3	NS*	<3	<3	<3
trans-1,2-Dichloroethene	ug/L	100 (A)	1,500 (X)	2.0E+05 (S)	2.3E+05 (S)	<1	NS*	<1	<1	<1
trans-1,3-Dichloropropene	ug/L	none	none	none	none	<1	NS*	<1	<1	<1
1,2-Dichloroethene (total)	ug/L	none	none	none	none	NA	NS*	NA	NA	NA
1,2,3-Trimethylbenzene	ug/L	none	none	none	none	<1	NS*	<1	<1	<1
Other Target VOCs	ug/L	various	various	various	various	ND	NS*	ND	ND	ND
MTBE (EPA Method 8021B)	ug/L	40 (E)	7,100 (X)	4.7E+07 (S)	ID	<5	NS*	<5	<5	<5

Notes: See Last Page

Table 4
Storm Sewer Sample Analytical Data

Former Employee Development Center
65 East University
Pontiac, Michigan

Sample ID:	Units	Michigan Groundwater Cleanup Criteria and Risk Based Screening Levels				SS-3	SS-4	SS-4	SS-5	SS-5
		Non-Residential Drinking Water Protection Criteria & RBSLs	Groundwater Surface Water Interface Criteria & RBSLs	Non-Residential Groundwater Volatilization to Indoor Air Inhalation Criteria & RBSLs	Flammability and Explosivity Screening Level					
Date Collected:						10/27/2014	5/23/2014	10/27/2014	5/23/2014	10/27/2014
Analytical Parameter										
PAH (EPA Method 8310)										
1-Methylnaphthalene	ug/L	none	none	none	none	NA	<5	NA	<5	NA
2-Methylnaphthalene	ug/L	750	19	25,000 (S)	ID	<5**	<5	<5**	<5	<5**
Acenaphthene	ug/L	3,800	38	4,200 (S)	ID	NA	<5	NA	<5	NA
Acenapthylene	ug/L	150	ID	3,900 (S)	ID	NA	<5	NA	<5	NA
Anthracene	ug/L	43 (S)	ID	43 (S)	ID	NA	<5	NA	<5	NA
Benz(a)anthracene	ug/L	8.5	ID	NLV	ID	NA	<1	NA	<1	NA
Benzo(a)pyrene	ug/L	5.0 (A)	ID	NLV	ID	NA	<1	NA	<1	NA
Benzo(b)fluoranthene	ug/L	1.5 (S, AA)	ID	ID	ID	NA	<1	NA	<1	NA
Benzo(g,h,i)perylene	ug/L	1.0 (M); 0.26 (S)	NA	NLV	ID	NA	<1	NA	<1	NA
Benzo(k)fluoranthene	ug/L	1.0 (M); 0.8 (S)	NA	NLV	ID	NA	<1	NA	<1	NA
Chrysene	ug/L	1.6 (S)	ID	ID	ID	NA	<1	NA	<1	NA
Dibenzo(a,h)anthracene	ug/L	2.0 (M); 0.85	ID	NLV	ID	NA	<2	NA	<2	NA
Fluoranthene	ug/L	210 (S)	1.6	210 (S)	ID	NA	<1	NA	<1	NA
Fluorene	ug/L	2,000 (S)	12	2,000 (S)	ID	NA	<5	NA	<5	NA
Indeno(1,2,3-cd)pyrene	ug/L	2.0 (M); 0.022 (S)	ID	NLV	ID	NA	<2	NA	<2	NA
Naphthalene	ug/L	1,500	11	31,000 (S)	NA	<5**	<5	<5**	<5	<5**
Phenanthrene	ug/L	150	2.0 (M); 1.4	1,000 (S)	ID	NA	<2	NA	<2	NA
Pyrene	ug/L	140 (S)	ID	140 (S)	ID	NA	<5	NA	<5	NA
Other Target PAHs	ug/L	various	various	various	various	NA	ND	NA	ND	NA
VOCs (EPA Method 8260)										
1,1,1-Trichloroethane	ug/L	200 (A)	89	1.3E+06 (S)	ID	<1	<1	<1	<1	<1
1,1,2,2-Tetrachloroethane	ug/L	35	78 (X)	77,000	ID	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	ug/L	5.0 (A)	330 (X)	1.10E+05	NA	<1	<1	<1	<1	<1
1,1-Dichloroethane	ug/L	2,500	740	2.30E+06	3.80E+05	<1	<1	<1	<1	<1
1,1-Dichloroethene	ug/L	7.0 (A)	130	1,300	97,000	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene	ug/L	63 (E)	17	56,000 (S)	56,000 (S)	<1	<1	<1	<1	<1
1,2-Dichloroethane	ug/L	5.0 (A)	360 (X)	59,000	2.50E+06	<1	<1	<1	<1	<1
1,2-Dichloropropane	ug/L	5.0 (A)	230 (X)	36,000	5.50E+05	<1	<1	<1	<1	<1
1,3,5-Trimethylbenzene	ug/L	72 (E)	45	61,000 (S)	ID	<1	<1	<1	<1	<1
2-Butanone	ug/L	38,000	2,200	2.4E+08 (S)	ID	<25	<25	<25	<25	<25
2-Hexanone	ug/L	2,900	ID	8.70E+06	NA	<50	<50	<50	<50	<50
4-Methyl-2-pentanone	ug/L	5,200	ID	2.0E+07 (S)	ID	<50	<50	<50	<50	<50
Acetone	ug/L	2,100	1,700	1.0E+09 (D,S)	1.50E+07	<50	<50	<50	<50	<50
Benzene	ug/L	5.0 (A)	200 (X)	35,000	68,000	<1	<1	<1	<1	<1
Bromochloromethane	ug/L	none	none	none	none	<1	<1	<1	<1	<1
Bromoform	ug/L	80 (A,W)	ID	3.10E+06	ID	<1	<1	<1	<1	<1
Bromomethane	ug/L	29	35	9,000	ID	<5	<5	<5	<5	<5
n-Butylbenzene	ug/L	230	ID	ID	ID	<1	<1	<1	<1	<1
Carbon disulfide	ug/L	2,300	ID	5.50E+05	13,000	<5	<5	<5	<5	<5
Carbon tetrachloride	ug/L	5.0 (A)	45 (X)	2,400	ID	<1	<1	<1	<1	<1
Chlorobenzene	ug/L	100 (A)	25	4.70E+05	1.60E+05	<1	<1	<1	<1	<1
Chloroethane	ug/L	1,700	1,100 (X)	5.7E+06 (S)	1.10E+05	<5	<5	<5	<5	<5
Chloroform	ug/L	80 (A, W)	350	1.80E+05	ID	<1	<1	<1	<1	<1
Chloromethane	ug/L	1,100	ID	45,000	36,000	<5	<5	<5	<5	<5
Dibromochloromethane	ug/L	80 (A, W)	ID	1.10E+05	ID	<5	<5	<5	<5	<5
Ethylbenzene	ug/L	74 (E)	18	1.7E+05 (S)	43,000	<1	<1	<1	<1	<1
Methylene chloride	ug/L	5.0 (A)	1,500 (X)	1.40E+06	ID	<5	<5	<5	<5	<5
n-Propylbenzene	ug/L	230	ID	ID	ID	<1	<1	<1	<1	<1
Styrene	ug/L	100 (A)	80 (X)	3.1E+05 (S)	1.40E+05	<1	<1	<1	<1	<1
Tetrachloroethylene	ug/L	5.0 (A)	60 (X)	1.70E+05	ID	<1	<1	<1	<1	<1
Toluene	ug/L	790 (E)	270	5.3E+05 (S)	61,000	<1	<1	<1	<1	<1
Trichloroethene	ug/L	5.0 (A)	200 (X)	4,900	ID	<1	<1	<1	2	2
Vinyl chloride	ug/L	2.0 (A)	13 (X)	13,000	33,000	<1	<1	<1	<1	<1
cis-1,2-Dichloroethene	ug/L	70 (A)	620	2.10E+05	5.30E+05	<1	<1	<1	<1	<1
cis-1,3-Dichloropropene	ug/L	none	none	none	none	<1	<1	<1	<1	<1
m,p-Xylene	ug/L	none	none	none	none	<2	<2	<2	<2	<2
o-Xylene	ug/L	none	none	none	none	<1	<1	<1	<1	<1
Xylenes, Total	ug/L	280 (E)	41	1.9E+05 (S)	70,000	<3	<3	<3	<3	<3
trans-1,2-Dichloroethene	ug/L	100 (A)	1,500 (X)	2.0E+05 (S)	2.3E+05 (S)	<1	<1	<1	<1	<1
trans-1,3-Dichloropropene	ug/L	none	none	none	none	<1	<1	<1	<1	<1
1,2-Dichloroethene (total)	ug/L	none	none	none	none	NA	NA	NA	NA	NA
1,2,3-Trimethylbenzene	ug/L	none	none	none	none	<1	<1	<1	<1	<1
Other Target VOCs	ug/L	various	various	various	various	ND	ND	ND	ND	ND
MTBE (EPA Method 8021B)	ug/L	40 (E)	7,100 (X)	4.7E+07 (S)	ID	<5	<5	<5	<5	<5

Notes: See Last Page

Table 4
Storm Sewer Sample Analytical Data

Former Employee Development Center
65 East University
Pontiac, Michigan

Notes:

Exceedances: Cleanup criteria exceedances are bolded.

NS *: Not sampled. No water was observed in the storm sewer during the sampling event.

NA: Not analyzed.

ND / <: Not detected / <detection limit

**: Analyzed via USEPA Method 8260B

Cleanup Criteria: Part 201 (Environmental Remediation) and Part 213 (Leaking Underground Storage Tanks) of the Michigan Natural Resources and Environmental Protection 1994 PA 451 (Revised December 30, 2013). Referenced are Non-Residential Cleanup Criteria and Screening Act (NREPA), 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

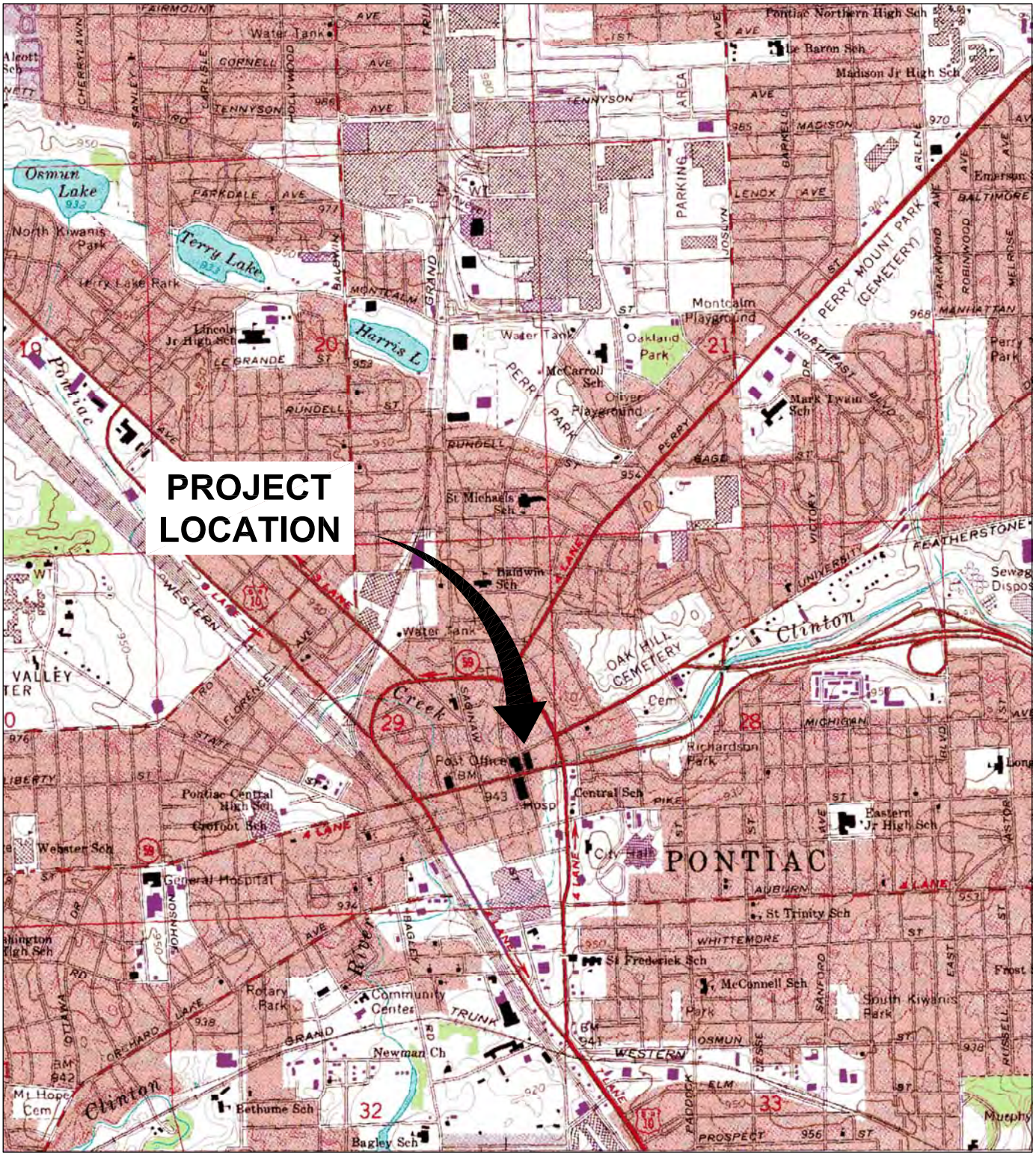
(X) The GSI criterion shown in the generic cleanup criteria tables is not protective for surface water that is used as a drinking water source. For a groundwater discharge to the Great Lakes and their connecting waters or discharge in close proximity to a water supply intake in inland surface waters, 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.

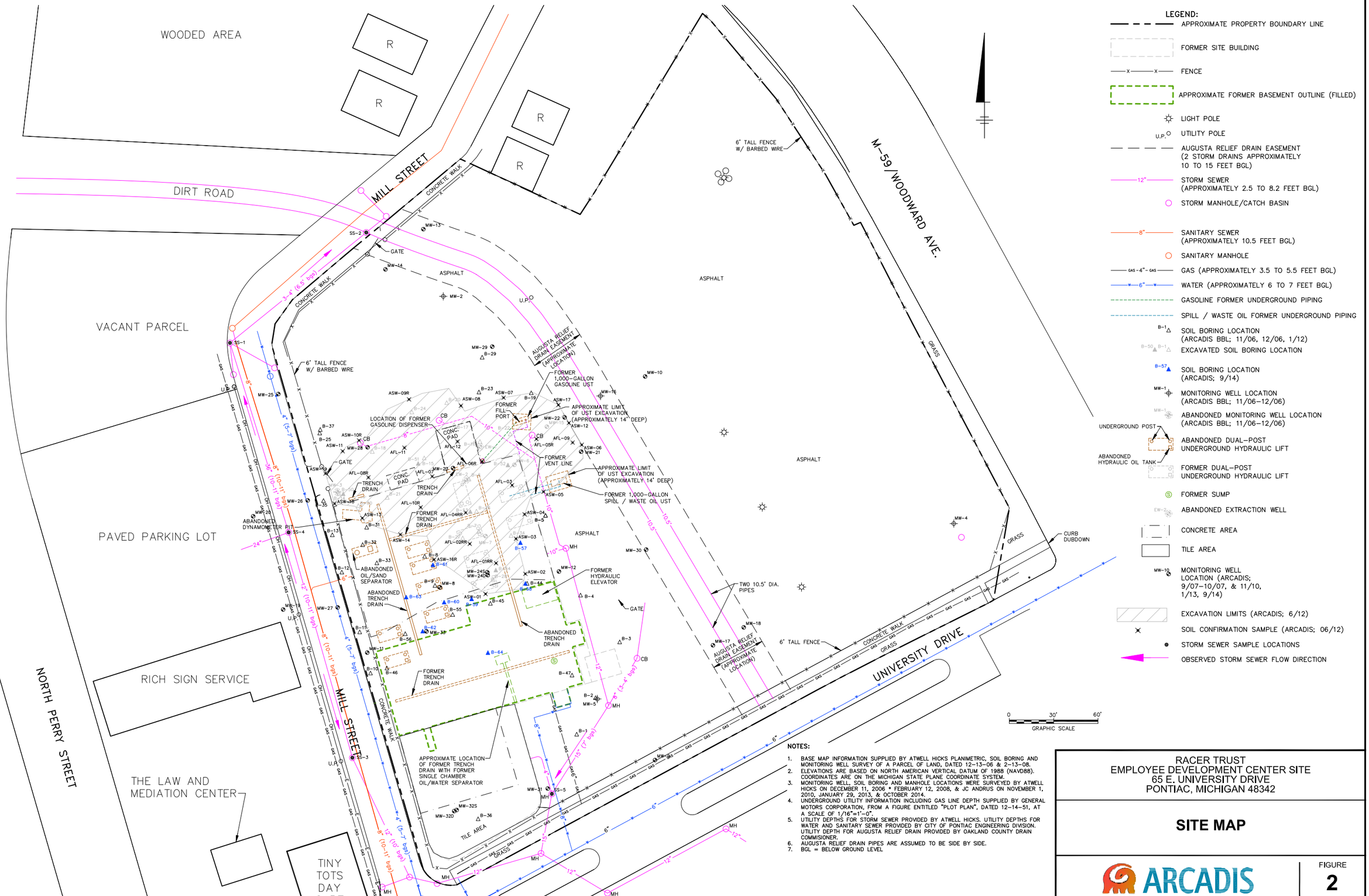
(Y) Elevated Reporting Limit due to high target concentration

(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


PROJECT LOCATION
Osmun Lake
Terry Lake
Harris L
PONTIAC
Clinton
Pontiac Northern High Sch
Madison Jr High Sch
Oakland Park
Richardson Park
Eastern Jr High Sch
Central Sch
Pontiac Central High Sch
General Hospital
Rotary Park
Community Center
South Kiwanis Park
Lincoln Jr High Sch
Mark Twain Sch
McCarroll Sch
St Michaels Sch
Baldwin Sch
St Trinity Sch
St Frederick Sch
McConnell Sch
Newman Ch
Bethume Sch
Bagley Sch
Oak Hill Cemetery
Perry Mount Park (Cemetery)
Montcalm Playground
Oliver Playground
Post Office
City Hall
Water Tank
North Kiwanis Park
Terry Lake Park
Webster Sch
Mt Hope Cem
Sewage Disposal
Grand River
Clinton River
Saginaw
Western
Woodward
Telegraph
Perry
Square Lake
Featherstone
University
Michigan
Auburn
Whittemore
Osmun
Elm
Prospect
Sage
Manhattan
Baltimore
Lenox
Madison
Tennyson
Cornell
Fairmount
Parkdale
Rundell
Montcalm
Le Grande
Florence
Johnson
Orchard Lake
Trunk
Bagley
Sanford
Russell
Astor
Frost
Elizabeth Lake
Pontiac
Water Tank
Water Tank
Water Tank



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, 1/12)
- EXCAVATED SOIL BORING LOCATION
- SOIL BORING LOCATION (ARCADIS; 9/14)
- 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, 1/13, 9/14)
- EXCAVATION LIMITS (ARCADIS; 6/12)
- SOIL CONFIRMATION SAMPLE (ARCADIS; 06/12)
- STORM SEWER SAMPLE LOCATIONS
- OBSERVED STORM SEWER 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, & OCTOBER 2014.
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 2

CITY:BRIGHTON DIV/GROUP:85 DB:ADF LD:(Opt) PIC:(Opt) PM:(Reqd) TM:(Opt) LYR:(Opt)ON=*;OFF=*REF*
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XREFS: IMAGES: PROJECTNAME: ---
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64486x04 SMI03P01140619094430_Page_1.tif

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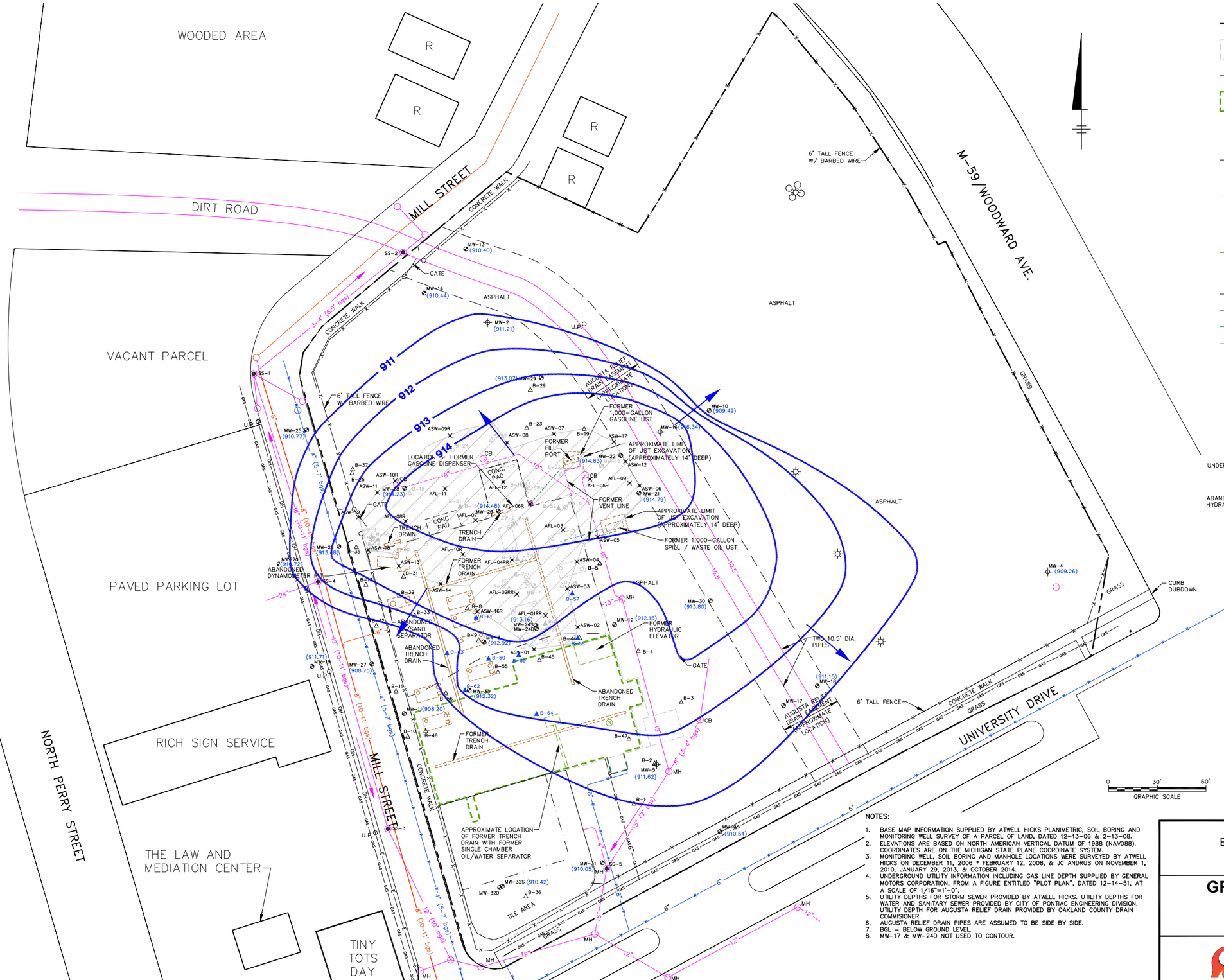

LEGEND:

- 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, 1/12)
- EXCAVATED SOIL BORING LOCATION
- SOIL BORING LOCATION (ARCADIS; 9/14)
- 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, 1/13, & 9/14)
- EXCAVATION LIMITS (ARCADIS; 6/12)
- SOIL CONFIRMATION SAMPLE (ARCADIS; 06/12)
- STORM SEWER SAMPLE LOCATIONS
- OBSERVED STORM SEWER FLOW DIRECTION
- 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.
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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 OCTOBER 27, 2014

ARCADIS

FIGURE 3

MW-13
DATE | 6/26/2013 | 9/18/2013 | 5/21/2014
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
Trichloroethene | <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 | 9/20/2013 | 10/29/2014
PAHs
1-Methylnaphthalene | 10 | 6 | 10 | 10 | NA
2-Methylnaphthalene | 73 [DW] | 53 | 76 | 73 [DW] | <1,000**
Naphthalene | 133 [GSI] | 71 [GSI] | 101 [GSI] | 118 [GSI] | <1,000**
Other Target PAHs | ND | ND | ND | ND | NA
VOCs
Benzene | 20,900 [DW,GSI] | 21,300 [DW,GSI] | 19,700 [DW,GSI] | 28,200 [DW,GSI] | 27,300 [DW,GSI]
Toluene | 23,900 [DW,GSI] | 23,100 [DW,GSI] | 17,500 [DW,GSI] | 27,500 [DW,GSI] | 27,600 [DW,GSI]
Ethylbenzene | 1,800 [DW,GSI] | 2,000 [DW,GSI] | 1,400 [DW,GSI] | 2,000 [DW,GSI] | 2,100 [DW,GSI]
Xylenes, Total | 9,350 [DW,GSI] | 10,300 [DW,GSI] | 8,250 [DW,GSI] | 12,600 [DW,GSI] | 13,200 [DW,GSI]
MTBE | <1,000 | <1,000 | <1,000 | <1,000 | <1000
Trichloroethene | <200 | <200 | <200 | <200 | <200
1,2,4-Trimethylbenzene | 700 [DW,GSI] | 800 [DW,GSI] | 600 [DW,GSI] | 1,000 [DW,GSI] | 900 [DW,GSI]
1,3,5-Trimethylbenzene | 200 | 200 [DW,GSI] | 200 | 300 [DW,GSI] | 300 [DW,GSI]
Other Target VOCs | ND | ND | ND | ND | ND
Dissolved Metals
Lead | 0.003 | 0.004 | <0.003 | <0.003 | NA
MW-21
DATE | 6/25/2013 | 9/19/2013 | 5/21/2014 | 10/28/2014
PAHs
1-Methylnaphthalene | <5 | <5 | <5 | NA
2-Methylnaphthalene | <5 | <5 | <5 | <5**
Naphthalene | <5 | <5 | <5 | <5**
Other Target PAHs | ND | ND | ND | NA
VOCs
Benzene | <1 | <1 | <1 | <1
Toluene | <1 | <1 | <1 | <1
Ethylbenzene | <1 | <1 | <1 | <1
Xylenes, Total | <3 | <3 | <3 | <3
MTBE | <5 | <5 | <5 | <5
Trichloroethene | <1 | <1 | <1 | <1
1,2,4-Trimethylbenzene | <1 | <1 | <1 | <1
1,3,5-Trimethylbenzene | <1 | <1 | <1 | <1
Other Target VOCs | ND | ND | ND | ND
Dissolved Metals
Lead | <0.003 | <0.003 | <0.003 | NA
MW-16
DATE | 6/25/2013 | 9/17/2013 | 5/21/2014
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
Trichloroethene | <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 | 6/25/2013 | 9/17/2013 | 5/21/2014
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
Trichloroethene | <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-14
DATE | 6/26/2013 | 9/19/2013 | 5/21/2014
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
Trichloroethene | <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
SS-2
DATE | 5/21/2014 | 10/27/2014
PAHs
1-Methylnaphthalene | <5 | NA
2-Methylnaphthalene | <5 | <5**
Naphthalene | <5 | <5**
Other Target PAHs | ND | NA
VOCs
Benzene | <1 | <1
Toluene | <1 | <1
Ethylbenzene | <1 | <1
Xylenes, Total | <3 | <3
MTBE | <5 | <5
Trichloroethene | <1 | <1
1,2,4-Trimethylbenzene | <1 | <1
1,3,5-Trimethylbenzene | <1 | <1
Other Target VOCs | ND | NA
MW-29
DATE | 6/26/2013 | 9/17/2013 | 5/21/2014 | 10/28/2014
PAHs
1-Methylnaphthalene | <5 | <5 | <5 | NA
2-Methylnaphthalene | <5 | <5 | <5 | <5**
Naphthalene | <5 | <5 | <5 | <5**
Other Target PAHs | ND | ND | ND | NA
VOCs
Benzene | <1 | <1 | <1 | <1
Toluene | <1 | <1 | <1 | <1
Ethylbenzene | <1 | <1 | <1 | <1
Xylenes, Total | <3 | <3 | <3 | <3
MTBE | <5 | <5 | <5 | <5
Trichloroethene | <1 | <1 | <1 | <1
1,2,4-Trimethylbenzene | <1 | <1 | <1 | <1
1,3,5-Trimethylbenzene | <1 | <1 | <1 | <1
Other Target VOCs | ND | ND | ND | ND
Dissolved Metals
Lead | <0.003 | <0.003 | <0.003 | NA
MW-24S
DATE | 6/28/2013 | 9/20/2013 | 5/22/2014 | 10/29/2014
PAHs
1-Methylnaphthalene | <5 | <5 | <5 | NA
2-Methylnaphthalene | <5 | <5 | <5 | <5**
Naphthalene | <5 | <5 | <5 | <5**
Other Target PAHs | NA | NA | NA | NA
VOCs
Benzene | <1 | <1 | <1 | <1
Toluene | <1 | <1 | <1 | <1
Ethylbenzene | <1 | <1 | <1 | <1
Xylenes, Total | <3 | <3 | <3 | <3
MTBE | <5 | <5 | <5 | <5
Trichloroethene | <1 | <1 | <1 | <1
1,2,4-Trimethylbenzene | <1 | <1 | <1 | <1
1,3,5-Trimethylbenzene | <1 | <1 | <1 | <1
Other Target VOCs | NA | NA | NA | NA
Dissolved Metals
Lead | <0.003 | <0.003 | <0.003 | NA
MW-22
DATE | 6/25/2013 | 9/19/2013 | 5/21/2014 | 10/28/2014
PAHs
1-Methylnaphthalene | <5 | <5 | <5 | NA
2-Methylnaphthalene | <5 | <5 | <5 | <5**
Naphthalene | <5 | <5 | <5 | <5**
Other Target PAHs | ND | ND | ND | NA
VOCs
Benzene | <1 | <1 | <1 | <1
Toluene | <1 | <1 | <1 | <1
Ethylbenzene | <1 | <1 | <1 | <1
Xylenes, Total | <3 | <3 | <3 | <3
MTBE | <5 | <5 | <5 | <5
Trichloroethene | <1 | <1 | <1 | <1
1,2,4-Trimethylbenzene | <1 | <1 | <1 | <1
1,3,5-Trimethylbenzene | <1 | <1 | <1 | <1
Other Target VOCs | ND | ND | ND | ND
Dissolved Metals
Lead | <0.003 | <0.003 | <0.003 | NA
MW-2
DATE | 6/26/2013 | 9/18/2013 | 5/21/2014
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
Trichloroethene | <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 | 6/24/2013 | 9/18/2013 | 5/22/2014 | 10/28/2014
PAHs
1-Methylnaphthalene | <5 | <5 | <5 | NA
2-Methylnaphthalene | <5 | <5 | <5 | <5**
Naphthalene | <5 | <5 | <5 | <5**
Other Target PAHs | ND | ND | ND | NA
VOCs
Benzene | <1 | <1 | <1 | <1
Toluene | <1 | <1 | <1 | <1
Ethylbenzene | <1 | <1 | <1 | <1
Xylenes, Total | <3 | <3 | <3 | <3
MTBE | <5 | <5 | <5 | <5
Trichloroethene | <1 | <1 | <1 | <1
1,2,4-Trimethylbenzene | <1 | <1 | <1 | <1
1,3,5-Trimethylbenzene | <1 | <1 | <1 | <1
Other Target VOCs | ND | ND | ND | ND
Dissolved Metals
Lead | <0.003 | <0.003 | <0.003 | NA
SS-1
DATE | 5/21/2014 | 10/27/2014
PAHs
1-Methylnaphthalene | <5 | NS*
2-Methylnaphthalene | <5 | NS*
Naphthalene | <5 | NS*
Other Target PAHs | ND | NS*
VOCs
Benzene | <1 | NS*
Toluene | 5 | NS*
Ethylbenzene | <1 | NS*
Xylenes, Total | <3 | NS*
MTBE | <5 | NS*
1,2,4-Trimethylbenzene | <1 | NS*
1,3,5-Trimethylbenzene | <1 | NS*
Other Target VOCs | ND | NS*
MW-28
DATE | 6/27/2013 | 9/19/2013 | 5/21/2014 | 10/28/2014
PAHs
1-Methylnaphthalene | <5 | <5 | <5 | NA
2-Methylnaphthalene | <5 | <5 | <5 | <5**
Naphthalene | <5 | <5 | <5 | <5**
Other Target PAHs | ND | ND | ND | NA
VOCs
Benzene | <1 | <1 | <1 | <1
Toluene | <1 | <1 | <1 | <1
Ethylbenzene | <1 | <1 | <1 | <1
Xylenes, Total | <3 | <3 | <3 | <3
MTBE | <5 | <5 | <5 | <5
Trichloroethene | <1 | <1 | <1 | <1
1,2,4-Trimethylbenzene | <1 | <1 | <1 | <1
1,3,5-Trimethylbenzene | <1 | <1 | <1 | <1
Other Target VOCs | ND | ND | ND | NA
Dissolved Metals
Lead | <0.003 | <0.003 | <0.003 | NA
MW-23
DATE | 6/26/2013 | 9/20/2013 | 5/22/2014 | 10/28/2014
PAHs
1-Methylnaphthalene | <5 | <5 | <5 | NA
2-Methylnaphthalene | <5 | <5 | <5 | <5**
Naphthalene | <5 | <5 | <5 | <5**
Other Target PAHs | ND | ND | ND | NA
VOCs
Benzene | <1 | <1 | <1 | <1
Toluene | <1 | <1 | <1 | <1
Ethylbenzene | <1 | <1 | <1 | <1
Xylenes, Total | <3 | <3 | <3 | <3
MTBE | <5 | <5 | <5 | <5
Trichloroethene | <1 | <1 | <1 | <1
1,2,4-Trimethylbenzene | <1 | <1 | <1 | <1
1,3,5-Trimethylbenzene | <1 | <1 | <1 | <1
Other Target VOCs | ND | ND | ND | NA
Dissolved Metals
Lead | <0.003 | <0.003 | <0.003 | NA
MW-26
DATE | 1/30/2013 | 6/24/2013 | 9/19/2013 | 5/23/2014 | 10/27/2014
PAHs
1-Methylnaphthalene | <5 | <5 | <5 | <5 | NA
2-Methylnaphthalene | <5 | <5 | <5 | <5 | <300**
Naphthalene | <5 | <5 | <5 | <5 | <300**
Other Target PAHs | ND | ND | ND | ND | NA
VOCs
Benzene | 3,360 [DW,GSI] | 3,020 [DW,GSI] | 2,600 [DW,GSI] | 2,830 [DW,GSI] | 3,200 [DW,GSI]
Toluene | <50 | <50 | <100 | <100 | <50
Ethylbenzene | <50 | <50 | <100 | <100 | <50
Xylenes, Total | <150 | <150 | <400 | <400 | <150
MTBE | <300 | <300 | <500 | <500 | <300
Trichloroethene | <50 | <50 | <100 | <50 | <50
1,2,4-Trimethylbenzene | <50 | <50 | <100 | <100 | <50
1,3,5-Trimethylbenzene | <50 | <50 | <100 | <100 | <50
Other Target VOCs | ND | ND | ND | ND | ND
Dissolved Metals
Lead | <0.003 | <0.003 | <0.003 | <0.003 | NA
MW-27
DATE | 6/24/2013 | 9/19/2013 | 5/23/2014 | 10/27/2014
PAHs
1-Methylnaphthalene | <5 | <5 | <5 | NA
2-Methylnaphthalene | <5 | <5 | <5 | <5**
Naphthalene | <5 | <5 | <5 | <5**
Other Target PAHs | ND | ND | ND | NA
VOCs
Benzene | <1 | <1 | <1 | <1
Toluene | <1 | <1 | <1 | <1
Ethylbenzene | <1 | <1 | <1 | <1
Xylenes, Total | <3 | <3 | <3 | <3
MTBE | <5 | <5 | <5 | <5
Trichloroethene | 4 | 6 [DW] | 4 | 5
1,2,4-Trimethylbenzene | <1 | <1 | <1 | <1
1,3,5-Trimethylbenzene | <1 | <1 | <1 | <1
Other Target VOCs | ND | ND | ND | ND
Dissolved Metals
Lead | <0.003 | <0.003 | <0.003 | NA
MW-19
DATE | 6/27/2013 | 9/19/2013 | 5/23/2014
PAHs
1-Methylnaphthalene | <5 | <5 | <5
2-Methylnaphthalene | <5 | <5 | <5
Naphthalene | <5 | <5 | <5
Other Target PAHs | NS | NS | NS
VOCs
Benzene | <1 | <1 | <1
Toluene | <1 | <1 | <1
Ethylbenzene | <1 | <1 | <1
Xylenes, Total | <3 | <3 | <3
MTBE | <5 | <5 | <5
Trichloroethene | <1 | <1 | <1
1,2,4-Trimethylbenzene | <1 | <1 | <1
1,3,5-Trimethylbenzene | <1 | <1 | <1
Other Target VOCs | NS | NS | NS
Dissolved Metals
Lead | <0.003 | <0.003 | <0.003
B-63
DATE | 9/24/2014
PAHs
1-Methylnaphthalene | NA
2-Methylnaphthalene | <50**
Naphthalene | <50**
Other Target PAHs | NA
VOCs
Benzene | <1
Toluene | <1
Ethylbenzene | <1
Xylenes, Total | <3
MTBE | <5
Trichloroethene | <1
1,2,4-Trimethylbenzene | <1
1,3,5-Trimethylbenzene | <1
Other Target VOCs | NO
Dissolved Metals
Lead | NA
MW-8
DATE | 1/31/2013 | 6/27/2013 | 9/20/2013 | 5/22/2014 | 10/28/2014
PAHs
1-Methylnaphthalene | <5 | <5 | <5 | <5 | NA
2-Methylnaphthalene | <5 | <5 | <5 | <5 | <50**
Naphthalene | 39 [GSI] | 39 [GSI] | 43 [GSI] | 54 [GSI] | 100** [GSI]
Other Target PAHs | ND | ND | ND | ND | NA
VOCs
Benzene | 1,530 [DW,GSI] | 2,100 [DW,GSI] | 2,350 [DW,GSI] | 3,870 [DW,GSI] | 3,880 [DW,GSI]
Toluene | 40 | 130 | 290 [GSI] | 240 | 240
Ethylbenzene | 480 [DW,GSI] | 770 [DW,GSI] | 910 [DW,GSI] | 1,730 [DW,GSI] | 2,050 [DW,GSI]
Xylenes, Total | 2,100 [DW,GSI] | 3,170 [DW,GSI] | 3,700 [DW,GSI] | 6,900 [DW,GSI] | 8,090 [DW,GSI]
MTBE | <100 | <100 | <100 | <100 | <100
1,2,4-Trimethylbenzene | 40 | 80 | 80 | 160 |
1,3,5-Trimethylbenzene | <20 | <20 | <20 | <20 | <20
Other Target VOCs | ND | <10 | <10 | <10 |
Dissolved Metals
Lead | <0.003 | <0.003 | <0.003 | <0.003 | NA
MW-11
DATE | 6/27/2013 | 9/19/2013 | 5/23/2014 | 10/27/2014
PAHs
1-Methylnaphthalene | <5 | <5 | <5 | NA
2-Methylnaphthalene | <5 | <5 | <5 | <5**
Naphthalene | <5 | <5 | <5 | <5**
Other Target PAHs | NS | NS | NS | NA
VOCs
Benzene | <1 | <1 | <1 | <1
Toluene | <1 | <1 | <1 | <1
Ethylbenzene | <1 | <1 | <1 | <1
Xylenes, Total | <3 | <3 | <3 | <3
MTBE | <5 | <5 | <5 | <5
Trichloroethene | <1 | <1 | <1 | <1
1,2,4-Trimethylbenzene | <1 | <1 | <1 | <1
1,3,5-Trimethylbenzene | <1 | <1 | <1 | <1
Other Target VOCs | NS | NS | NS | NA
Dissolved Metals
Lead | <0.003 | <0.003 | <0.003 | NA
B-60
DATE | 9/23/2014
PAHs
1-Methylnaphthalene | NA
2-Methylnaphthalene | <300**
Naphthalene | <300**
Other Target PAHs | NA
VOCs
Benzene | 3,600 [DW,GSI]
Toluene | 690 [DW,GSI]
Ethylbenzene | 4,900 [DW,GSI]
Xylenes, Total | 5,340 [DW,GSI]
MTBE | <300
Trichloroethene | <50
1,2,4-Trimethylbenzene | 540 [DW,GSI]
1,3,5-Trimethylbenzene | 130 [DW,GSI]
Other Target VOCs | ND
Dissolved Metals
Lead | NA
B-33/MW-33
DATE | 9/24/2014 | 10/28/2014
PAHs
1-Methylnaphthalene | NA | NA
2-Methylnaphthalene | <120** | <5**
Naphthalene | <120** | <5**
Other Target PAHs | NA | NA
VOCs
Benzene | 153 [DW] | 40 [DW]
Toluene | 3.3 | 1
Ethylbenzene | 101 [DW,GSI] | 3
Xylenes, Total | 83 [GSI] | <3
MTBE | <10 | <5
Trichloroethene | <2 | <1
1,2,4-Trimethylbenzene | 7 | <1
1,3,5-Trimethylbenzene | 3 | <1
Other Target VOCs | ND | ND
Dissolved Metals
Lead | NA | NA
SS-3
DATE | 5/23/2014 | 10/27/2014
PAHs
1-Methylnaphthalene | <5 | NA
2-Methylnaphthalene | <5 | <5**
Naphthalene | <5 | <5**
Other Target PAHs | ND | NA
VOCs
Benzene | <1 | <1
Toluene | <1 | <1
Ethylbenzene | <1 | <1
Xylenes, Total | <3 | <3
MTBE | <5 | <5
Trichloroethene | <1 | <1
1,2,4-Trimethylbenzene | <1 | <1
1,3,5-Trimethylbenzene | <1 | <1
Other Target VOCs | ND | ND
B-59
DATE | 9/23/2014
PAHs
1-Methylnaphthalene | NA
2-Methylnaphthalene | <50**
Naphthalene | <50**
Other Target PAHs | NA
VOCs
Benzene | 1
Toluene | 1
Ethylbenzene | <1
Xylenes, Total | <3
MTBE | <5
1,2,4-Trimethylbenzene | 3
1,3,5-Trimethylbenzene | <1
Other Target VOCs | ND
Dissolved Metals
Lead | NA
B-59
DATE | 9/24/2014
PAHs
1-Methylnaphthalene | NA
2-Methylnaphthalene | <50**
Naphthalene | <50**
Other Target PAHs | NA
VOCs
Benzene | 59 [DW]
Toluene | 13
Ethylbenzene | 19 [GSI]
Xylenes, Total | 18
MTBE | <5
1,2,4-Trimethylbenzene | 3
1,3,5-Trimethylbenzene | <1
Other Target VOCs | ND
Dissolved Metals
Lead | NA
MW-32D
DATE | 10/27/2014
PAHs
1-Methylnaphthalene | NA
2-Methylnaphthalene | <5**
Naphthalene | <5**
Other Target PAHs | NA
VOCs
Benzene | <1
Toluene | <1
Ethylbenzene | <1
Xylenes, Total | <3
MTBE | <5
Trichloroethene | <1
1,2,4-Trimethylbenzene | <1
1,3,5-Trimethylbenzene | <1
Other Target VOCs | ND
Dissolved Metals
Lead | NA
MW-33S
DATE | 10/27/2014
PAHs
1-Methylnaphthalene | NA
2-Methylnaphthalene | <5**
Naphthalene | <5**
Other Target PAHs | NA
VOCs
Benzene | <1
Toluene | <1
Ethylbenzene | <1
Xylenes, Total | <3
MTBE | <5
1,2,4-Trimethylbenzene | <1
1,3,5-Trimethylbenzene | <1
Other Target VOCs | ND
Dissolved Metals
Lead | NA
MW-31
DATE | 6/25/2013 | 9/20/2013 | 5/22/2014 | 10/27/2014
PAHs
1-Methylnaphthalene | <5 | <5 | <5 | NA
2-Methylnaphthalene | <5 | <5 | <5 | <5**
Naphthalene | <5 | <5 | <5 | <5**
Other Target PAHs | ND | ND | ND | NA
VOCs
Benzene | <1 | <1 | <1 | <1
Toluene | <1 | <1 | <1 | <1
Ethylbenzene | <1 | <1 | <1 | <1
Xylenes, Total | <3 | <3 | <3 | <3
MTBE | <5 | <5 | <5 | <5
1,2,4-Trimethylbenzene | <1 | <1 | <1 | <1
1,3,5-Trimethylbenzene | <1 | <1 | <1 | <1
Other Target VOCs | ND | ND | ND | ND
Dissolved Metals
Lead | <0.003 | <0.003 | <0.003 | NA
B-64
DATE | 9/24/2014
PAHs
1-Methylnaphthalene | NA
2-Methylnaphthalene | <50**
Naphthalene | <50**
Other Target PAHs | NA
VOCs
Benzene | <1
Toluene | <1
Ethylbenzene | <1
Xylenes, Total | <3
MTBE | <5
Trichloroethene | <1
1,2,4-Trimethylbenzene | <1
1,3,5-Trimethylbenzene | <1
Other Target VOCs | ND
Dissolved Metals
Lead | NA
SS-4
DATE | 5/23/2014 | 10/27/2014
PAHs
1-Methylnaphthalene | <5 | NA
2-Methylnaphthalene | <5 | <5**
Naphthalene | <5 | <5**
Other Target PAHs | NS | NA
VOCs
Benzene | <1 | <1
Toluene | <1 | <1
Ethylbenzene | <1 | <1
Xylenes, Total | <3 | <3
MTBE | <5 | <5
1,2,4-Trimethylbenzene | <1 | <1
1,3,5-Trimethylbenzene | <1 | <1
Other Target VOCs | NS | NO
MW-5
DATE | 6/25/2013 | 9/19/2013 | 5/22/2014 | 10/27/2014
PAHs
1-Methylnaphthalene | <5 | <5 | <5 | NA
2-Methylnaphthalene | <5 | <5 | <5 | <5**
Naphthalene | <5 | <5 | <5 | <5**
Other Target PAHs | ND | ND | ND | NA
VOCs
Benzene | <1 | <1 | <1 | <1
Toluene | <1 | <1 | <1 | <1
Ethylbenzene | <1 | <1 | <1 | <1
Xylenes, Total | <3 | <3 | <3 | <3
MTBE | <5 | <5 | <5 | <5
cis-1,2-Dichloroethene | 9 | 10 | 8 | 11
Trichloroethene | 62 [DW] | 65 [DW] | 49 [DW] | 65 [DW]
1,2,4-Trimethylbenzene | <1 | <1 | <1 | <1
1,3,5-Trimethylbenzene | <1 | <1 | <1 | <1
Other Target VOCs | ND | ND | ND | ND
Dissolved Metals
Lead | <0.003 | <0.003 | <0.003 | NA
MW-9
DATE | 6/27/2013 | 9/19/2013 | 5/23/2014 | 10/27/2014
PAHs
1-Methylnaphthalene | <5 | <5 | <5 | NA
2-Methylnaphthalene | <5 | <5 | <5 | <5**
Naphthalene | <5 | <5 | <5 | <5**
Other Target PAHs | ND | ND | ND | NA
VOCs
Benzene | <1 | <1 | <1 | <1
Toluene | <1 | <1 | <1 | <1
Ethylbenzene | <1 | <1 | <1 | <1
Xylenes, Total | <3 | <3 | <3 | <3
MTBE | <5 | <5 | <5 | <5
Trichloroethene | <1 | <1 | <1 | <1
1,2,4-Trimethylbenzene | <1 | <1 | <1 | <1
1,3,5-Trimethylbenzene | <1 | <1 | <1 | <1
Other Target VOCs | ND | ND | ND | ND
Dissolved Metals
Lead | <0.003 | <0.003 | <0.003 | NA
SS-5
DATE | 5/23/2014 | 10/27/2014
PAHs
1-Methylnaphthalene | <5 | NA
2-Methylnaphthalene | <5 | <5**
Naphthalene | <5 | <5**
Other Target PAHs | ND | NA
VOCs
Benzene | <1 | <1
Toluene | <1 | <1
Ethylbenzene | <1 | <1
Xylenes, Total | <3 | <3
MTBE | <5 | <5
1,2,4-Trimethylbenzene | <1 | <1
1,3,5-Trimethylbenzene | <1 | <1
Other Target VOCs | ND | ND
MW-12
DATE | 6/27/2013 | 9/19/2013 | 5/22/2014 | 10/28/2014
PAHs
1-Methylnaphthalene | <5 | <5 | <5 | NA
2-Methylnaphthalene | <5 | <5 | <5 | <5**
Naphthalene | <5 | <5 | <5 | <5**
Other Target PAHs | ND | ND | ND | NA
VOCs
Benzene | <1 | <1 | <1 | <1
Toluene | <1 | <1 | <1 | <1
Ethylbenzene | <1 | <1 | <1 | <1
Xylenes, Total | <3 | <3 | <3 | <3
MTBE | <5 | <5 | <5 | <5
Trichloroethene | 2 [DW] | 8 [DW] | 5 | 8 [DW]
1,2,4-Trimethylbenzene | <1 | <1 | <1 | <1
1,3,5-Trimethylbenzene | <1 | <1 | <1 | <1
Other Target VOCs | ND | ND | ND | ND
Dissolved Metals
Lead | <0.003 | <0.003 | <0.003 | NA
MW-20
DATE | 6/25/2013 | 9/20/2013 | 5/22/2014 | 10/28/2014
PAHs
1-Methylnaphthalene | <5 | <5 | <5 | NA
2-Methylnaphthalene | <5 | <5 | <5 | <5**
Naphthalene | <5 | <5 | <5 | <5**
Other Target PAHs | ND | ND | ND | NA
VOCs
Benzene | <1 | <1 | <1 | <1
Toluene | <1 | <1 | <1 | <1
Ethylbenzene | <1 | <1 | <1 | <1
Xylenes, Total | <3 | <3 | <3 | <3
MTBE | <5 | <5 | <5 | <5
Trichloroethene | <1 | <1 | <1 | <1
1,2,4-Trimethylbenzene | <1 | <1 | <1 | <1
1,3,5-Trimethylbenzene | <1 | <1 | <1 | <1
Other Target VOCs | ND | ND | ND | ND
Dissolved Metals
Lead | <0.003 | <0.003 | <0.003 | NA
MW-3
DATE | 6/26/2013 | 9/17/2013 | 5/22/2014
PAHs
1-Methylnaphthalene | <5 | <5 | <5
2-Methylnaphthalene | <5 | <5 | <5
Naphthalene | <5 | <5 | <5
VOCs
Benzene | <1 | <1 | <1
Toluene | <1 | <1 | <1
Ethylbenzene | <1 | <1 | <1
Xylenes, Total | <3 | <3 | <3
MTBE | <5 | <5 | <5
Trichloroethene | <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 | 6/25/2013 | 9/17/2013 | 5/22/2014
PAHs
1-Methylnaphthalene | <5 | <5 | <5
2-Methylnaphthalene | <5 | <5 | <5
Naphthalene | <5 | ND | ND
VOCs
Benzene | <1 | <1 | <1
Toluene | <1 | <1 | <1
Ethylbenzene | <1 | <1 | <1
Xylenes, Total | <3 | <3 | <3
MTBE | <5 | <5 | <5
Trichloroethene | <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 | 6/26/2013 | 9/17/2013 | 5/22/2014
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
Trichloroethene | <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
NOTES
PAHs | Polyaromatic Hydrocarbons
VOCs | Volatile Organic Compounds
"<" | Greater Reporting Limit due to high target concentration
[DW] | Concentration exceeds Part 201 Drinking Water Criteria and RBSLs
[GSI] | Concentration exceeds Part 201 Non-Residential Groundwater Surface Water Interface Criteria and RBSLs
[VI] | Concentration exceeds Part 201 Non-Residential Volatilization to Indoor Air Inhalation Criteria and RBSLs
ND, <1 | Not detected above laboratory method detection limits
[GC] | Concentration exceeds Part 201 Non-Residential Groundwater Contact Criteria and RBSLs
Groundwater analytical results for VOCs and PAHs are shown as in micrograms/liter
or ug/L. Groundwater analytical results for Lead are shown in milligrams/liter or mg/L.
NS | Not sampled due to insufficient water in the storm sewer during the sampling event
NA | Analyzed via USEPA Method 8260B
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, & OCTOBER 2014.
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 COMMISSIONER.
6. AUGUSTA RELIEF DRAIN PIPES ARE ASSUMED TO BE SIDE BY SIDE.
7. BGL = BELOW GROUND LEVEL
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)
12" STORM SEWER (APPROXIMATELY 2.5 TO 8.2 FEET BGL)
STORM MANHOLE/CATCH BASIN
8" SANITARY SEWER (APPROXIMATELY 10.5 FEET BGL)
SANITARY MANHOLE
GAS (APPROXIMATELY 3.5 TO 5.5 FEET BGL)
6" WATER (APPROXIMATELY 6 TO 7 FEET BGL)
GASOLINE FORMER UNDERGROUND PIPING
SPILL / WASTE OIL FORMER UNDERGROUND PIPING
B-1 SOIL BORING LOCATION (ARCADIS BBL; 11/06, 12/06, 1/12)
B-50 EXCAVATED SOIL BORING LOCATION
B-50 SOIL BORING LOCATION (ARCADIS; 9/14)
MW-1 MONITORING WELL LOCATION (ARCADIS BBL; 11/06-12/06)
ABANDONED MONITORING WELL LOCATION (ARCADIS BBL; 11/06-12/06)
UNDERGROUND POST
ABANDONED HYDRAULIC OIL TANK
ABANDONED DUAL-POST UNDERGROUND HYDRAULIC LIFT
FORMER DUAL-POST UNDERGROUND HYDRAULIC LIFT
FORMER SUMP
ABANDONED EXTRACTION WELL
CONCRETE AREA
TILE AREA
MW-18 MONITORING WELL LOCATION (ARCADIS; 9/07-10/07, 11/10, 1/13, & 9/14)
EXCAVATION LIMITS (ARCADIS; 6/12)
SOIL CONFIRMATION SAMPLE (ARCADIS; 06/12)
STORM SEWER SAMPLE LOCATIONS
OBSERVED STORM SEWER FLOW DIRECTION
0 30' 60'
GRAPHIC SCALE
RACER TRUST
EMPLOYEE DEVELOPMENT CENTER SITE
65 E. UNIVERSITY DRIVE
PONTIAC, MICHIGAN 48342
GROUNDWATER ANALYTICAL MAP
ARCADIS
FIGURE 4
CITY:(R)HIGHTOM/(D)GROUP/DB/JB XREFS: IMAGES: PROJECTNAME: ---
G:\ENVCAD\BRIGHTON\ACT\BD0644860201400003\dwg\644860C14.dwg LAYOUT: 4 SAVED: 1/7/2015 8:59 AM ACADVER: 18.1S (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE: PLTFULL.CTB PLOTTED: 1/7/2015 8:57 AM BY: FOX, AARON
10x12152B SMI03P01140D1909430_Page_1.tif
6448bx04 SMI03P01140D1909430_Page_1.tif

ARCADIS

Appendix A

Soil Boring and Monitoring Well Construction Logs

Date Start: 9/23/14
Date Finish: 9/23/14
Drilling Company: Fibertec
Driller's Name: Nick Wiseman
Drilling Method: Direct Push/ Hand Auger
Sampling Method: Macrocore/ Hand Auger
Rig Type: 6620 DT Geoprobe
Water Level Start (ft. bgs.): NA
Water Level Finish (ft. btoc.): NA

Northing: NA
Easting: NA
Casing Elevation:

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

Descriptions By: Megan Castles-Humphrey

Well/Boring ID: **B-57**

Client: RACER Trust

Location: Former Pontiac Employment Development Center

Weather Conditions: Sunny, 75 F

DEPTH (feet bgs.) / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Water Level (ft. bgs.)	Well/Boring Construction
0 / 0							(0-0.5') CONCRETE.		
	1	0-5'	5.0	0.0 0.7 0.4			(0.5-4.5') FILL, gravel; wet.		
5 / -5				0.0			(4.5-20.0') CLAY, little silt, medium plasticity, no dilatancy; some small to large pebbles, subrounded to subangular; trace sand; dry; very stiff; very dark gray (10YR 3/1).		
	2	5-10'	4.25	0.0 0.0 0.0 0.0					
10 / -10									Borehole backfilled with bentonite.
	3	10-15'	2.6	0.0 0.0 0.0	X		Note: Very large pebble at 14.0' bgs.		
15 / -15									
	4	15-20'	1.42	0.0 0.0					
20 / -20							End of boring at 20' bgs.		

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Remarks: bgs = below ground surface

Hand auger from 0-5' bgs.
Groundwater encountered at 0.5' bgs.
No staining or odor observed.

Date Start: 9/23/14
Date Finish: 9/23/14
Drilling Company: Fibertec
Driller's Name: Nick and Richard
Drilling Method: Direct Push/ Hand Auger
Sampling Method: Macrocore/ Hand Auger
Rig Type: 6620 DT Geoprobe
Water Level Start (ft. bgs.): NA
Water Level Finish (ft. btoc.): NA

Northing: NA
Easting: NA
Casing Elevation:

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

Descriptions By: Megan Castles-Humphrey

Well/Boring ID: **B-58**

Client: RACER Trust

Location: Former Pontiac Employment Development Center

Weather Conditions: Sunny, 75 F

DEPTH (feet bgs.) / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Water Level (ft. bgs.)	Well/Boring Construction
0 / 0									
	1	0-5'	5.0	0.0 0.0 0.0			(0.0-3.0') CLAY, medium plasticity, no dilatancy; and SAND, fine to coarse, subrounded; dry; medium stiff; little small to large pebbles, subrounded; dark yellowish brown (10YR 3/4). Note: Wet at 2.0' bgs.		
5 / -5							(3.0-11.0') SAND, fine to coarse, subrounded; some small to large pebbles, subrounded; little clay; poorly sorted; wet; dark yellowish brown (10YR 3/4).		
	2	5-10'	2.58	0.0 0.0 0.0 0.0 0.0					
10 / -10									Borehole backfilled with bentonite.
	3	10-15'	2.75	0.0 0.0 0.0	X		(11.0-20.0') SAND, medium to coarse, subangular; well sorted; wet; loose; black (10YR 2/1).		
15 / -15									
	4	15-20'	1.92	0.0 0.0					
20 / -20							End of boring at 20' bgs.		

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Remarks: bgs = below ground surface

Hand auger from 0-5' bgs.
Groundwater encountered at 11' bgs.
Temporary well screened from 15-20' bgs.
No staining or odor observed.

Date Start: 9/23/14
Date Finish: 9/23/14
Drilling Company: Fibertec
Driller's Name: Nick and Richard
Drilling Method: Direct Push/ Hand Auger
Sampling Method: Macrocore/ Hand Auger
Rig Type: 6620 DT Geoprobe
Water Level Start (ft. bgs.): NA
Water Level Finish (ft. btoc.): NA

Northing: NA
Easting: NA
Casing Elevation:

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

Descriptions By: Megan Castles-Humphrey

Well/Boring ID: **B-59**

Client: RACER Trust

Location: Former Pontiac Employment Development Center

Weather Conditions: Sunny, 75 F

DEPTH (feet bgs.) / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Water Level (ft. bgs.)	Well/Boring Construction
0 / 0	1	0-5'	5.0	0.0 0.0 0.0			(0.0-4.0') CLAY, medium plasticity, no dilatancy; some small to large pebbles, little sand, subrounded; dry; soft; dark yellowish brown (10YR 4/4). (4.0-5.0') SAND, medium to coarse, subangular; some clay; little small to large pebbles; trace granules; poorly sorted; dark yellowish brown (10YR 4/4).		
5 / -5	2	5-10'	2.58	0.0 0.0 0.0			(5.0-7.5') No recovery. (7.5-11.25') CLAY, high plasticity, slow dilatancy; some sand; little small to large pebbles, subrounded to subangular; moist; medium stiff; brown (10YR 4/3).		
10 / -10	3	10-15'	4.12	0.0 0.0 1.0 0.0 0.0			(11.25-13.0') SAND, medium to coarse, subangular; well sorted; wet; loose; black (10YR 2/1). (13.0-20.0') CLAY, medium plasticity; slow dilatancy; some small to large pebbles, subrounded to subangular; moist; stiff; dark gray (10YR 4/1). Note: 2 inch thick sand layer, wet, black at 14.5' bgs. Note: Dry, stiff from 15.0-20.0' bgs.		
15 / -15	4	15-20'	3.42	0.0 0.0 0.0 0.0					
20 / -20							End of boring at 20' bgs.		

Borehole backfilled with bentonite.

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Remarks: bgs = below ground surface

Hand auger from 0-5' bgs.
Groundwater encountered at 11.25' bgs.
Temporary well screened from 11-16' bgs.
No staining or odor observed.

Date Start: 9/23/14
Date Finish: 9/23/14
Drilling Company: Fibertec
Driller's Name: Nick and Richard
Drilling Method: Direct Push/ Hand Auger
Sampling Method: Macrocore/ Hand Auger
Rig Type: 6620 DT Geoprobe
Water Level Start (ft. bgs.): NA
Water Level Finish (ft. btoc.): NA

Northing: NA
Easting: NA
Casing Elevation:

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

Descriptions By: Megan Castles-Humphrey

Well/Boring ID: **B-60**

Client: RACER Trust

Location: Former Pontiac Employment Development Center

Weather Conditions: Sunny, 75 F

DEPTH (feet bgs.) / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Water Level (ft. bgs.)	Well/Boring Construction
0 / 0							(0.0-0.5') CONCRETE.		
				0.0			(0.5-2.0) SAND, fine to coarse, subrounded; and CLAY, medium plasticity, no dilatancy; dry; soft to medium stiff; very dark brown (10YR 2/2).		
	1	0-5'	5.0	0.0			(2.0-10.0') CLAY, medium plasticity, no dilatancy; some sand, fine to coarse, subrounded; dry; soft to medium stiff; brown (10YR 4/3).		
5 / -5				0.0					
				0.0					
	2	5-10'	2.58	0.0			Note: Wet at 7.0' bgs. Note: Interbedded clay and sand layers, 2 to 6 inches thick from 7.0-9.5' bgs.	▽	
				0.0					
10 / -10				2.5			(10.0-14.5') SAND, fine to coarse, subrounded; some small to large pebbles, subrounded; little clay; poorly sorted; moist to wet; loose to medium dense; gray (10YR 5/1). Note: Strong odor, black discoloration.		Borehole backfilled with bentonite.
				2.9					
	3	10-15'	4.12	10.6					
				9.6					
				8.4					
15 / -15				3.7			(14.5-20.0') CLAY, medium plasticity, no dilatancy; some small to large pebbles, subrounded; little sand, fine to coarse, subrounded; dry; very stiff. Note: Slight odor.		
	4	15-20'	3.42	0.0					
				0.0					
20 / -20				0.0			End of boring at 20' bgs.		

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Remarks: bgs = below ground surface

Hand auger from 0-5' bgs.
Groundwater encountered at 7.0' bgs.
Temporary well screened from 10.5-15.5' bgs.

Date Start: 9/23/14
Date Finish: 9/23/14
Drilling Company: Fibertec
Driller's Name: Nick and Richard
Drilling Method: Direct Push/ Hand Auger
Sampling Method: Macrocore/ Hand Auger
Rig Type: 6620 DT Geoprobe
Water Level Start (ft. bgs.): NA
Water Level Finish (ft. btoc.): NA

Northing: NA
Easting: NA
Casing Elevation:

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

Descriptions By: Megan Castles-Humphrey

Well/Boring ID: **B-61**

Client: RACER Trust

Location: Former Pontiac Employment Development Center

Weather Conditions: Sunny, 75 F

DEPTH (feet bgs.) / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Water Level (ft. bgs.)	Well/Boring Construction
0 / 0	1	0-5'	5.0	0.0 0.6 0.1			(0.0-5.0') SAND, fine to very coarse, subrounded to subangular; some granules, subangular; little small to medium pebbles, subrounded; poorly sorted; dry; loose; brownish yellow (10YR 6/6). Note: Wet at 2.0' bgs.		
5 / -5	2	5-10'	1.08				(5.0-9.0') No recovery.		
10 / -10				0.4			(9.0-12.0') SAND, fine to coarse, subrounded; some granules, subrounded; little small to large pebbles, subrounded; poorly sorted; moist; medium dense; yellowish brown (10YR 5/6). Note: Clay layer, 10 inches thick at 9.5' bgs.		Borehole backfilled with bentonite.
15 / -15	3	10-15'	3.58	0.0 0.0 0.0 0.0			(12.0-20.0') CLAY, medium plasticity, no dilatancy; some small to large pebbles, subrounded; little sand; dry; very stiff; gray (10YR 5/1). Note: Sand layer, 1 inch thick at 13.0' bgs.		
20 / -20	4	15-20'	2.33	0.0 0.0 0.0			End of boring at 20' bgs.		

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Remarks: bgs = below ground surface

Hand auger from 0-5' bgs.
Groundwater encountered at 2.0' bgs.
No staining or odor observed.

Date Start: 9/24/14
Date Finish: 10/24/14
Drilling Company: Fibertec
Driller's Name: Nick and Richard
Drilling Method: Direct Push/ Hand Auger
Sampling Method: Macrocore/ Hand Auger
Rig Type: 6620 DT Geoprobe
Water Level Start (ft. bgs.): NA
Water Level Finish (ft. btoc.): NA

Northing: NA
Easting: NA
Casing Elevation:

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

Descriptions By: Megan Castles-Humphrey

Well/Boring ID: **B-62/MW-33**

Client: RACER Trust

Location: Former Pontiac Employment Development Center

Weather Conditions: Sunny, 75 F

DEPTH (feet bgs.) / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Water Level (ft. bgs.)	Well/Boring Construction
0 / 0							(0.0-0.5') CONCRETE.		
	1	0-5'	5.0	0.4 0.7 1.1			(0.5-9.0') CLAY, medium plasticity, slow dilatancy; and SAND, fine to coarse, subrounded; some small to medium pebbles, subangular; trace granules, subangular; moist; soft; very dark grayish brown (10YR 3/2).		
5 / -5	2	5-10'	1.08	0.0 0.0 0.0 0.0			(9.0-13.0') SAND, medium to coarse, subrounded; wet; well sorted; loose; black (10YR 2/1).		Bentonite Pellets (0.5-12' bgs) Sch-40 PVC Riser
10 / -10	3	10-15'	3.58	0.0 0.0 0.0 0.0			(13.0-14.5') CLAY, medium plasticity, rapid dilatancy; and SAND; fine to coarse, subrounded; little small to medium pebbles, subrounded; wet; soft; brown (10YR 5/3). (14.5-17.5') PEBBLES, small to large, rounded to subangular; little sand; trace clay, poorly sorted; wet; medium dense; dark gray (10YR 4/1). Note: Slight odor.		Sand Pack (12-18' bgs) 2" Sch-40 PVC 10 Slot Well Screen (13-18' bgs)
15 / -15	4	15-20'	2.33	0.0 0.0 0.0 0.0			(17.5-20.0') CLAY, high plasticity, no dilatancy; trace small to medium pebbles, subrounded; dry; medium stiff; dark gray (10YR 4/1).		
20 / -20							End of boring at 20' bgs.		

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Remarks: bgs = below ground surface

Hand auger from 0-5' bgs.
Groundwater encountered at 2.0' bgs.
No staining observed.

Date Start: 9/23/14
Date Finish: 9/23/14
Drilling Company: Fibertec
Driller's Name: Nick and Richard
Drilling Method: Direct Push/ Hand Auger
Sampling Method: Macrocore/ Hand Auger
Rig Type: 6620 DT Geoprobe
Water Level Start (ft. bgs.): NA
Water Level Finish (ft. btoc.): NA

Northing: NA
Easting: NA
Casing Elevation:

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

Descriptions By: Megan Castles-Humphrey

Well/Boring ID: **B-63**

Client: RACER Trust

Location: Former Pontiac Employment Development Center

Weather Conditions: Sunny, 75 F

DEPTH (feet bgs.) / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Water Level (ft. bgs.)	Well/Boring Construction
0 / 0							(0.0-0.5') CONCRETE.		
				0.0			(0.5-2.0') SAND, fine to coarse, subrounded; some small to medium pebbles, subrounded; trace granules; poorly sorted; dry; loose; yellowish brown (10YR 5/6).		
	1	0-5'	5.0	0.0			(2.0-11.0') CLAY, high plasticity, rapid dilatancy; and SAND, fine to coarse, subrounded; little small to large pebbles, subrounded; wet; soft; yellowish brown (10YR 5/4).		
				0.1					
5 / -5				0.0					
				0.0					
	2	5-10'	4.17	0.0					
				0.0					
				0.0					
10 / -10				0.0					Borehole backfilled with bentonite.
				0.0			(11.0-20.0') CLAY, high plasticity, no dilatancy; some small to large pebbles, subrounded; little sand, fine to coarse, subrounded; dry; stiff; dark gray (10YR 4/1). Note: Medium stiff at 12.0' bgs.		
	3	10-15'	3.92	0.0					
				0.0					
				0.0					
15 / -15									
	4	15-20'	2.42	0.0					
				0.0					
				0.0					
20 / -20							End of boring at 20' bgs.		

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Remarks: bgs = below ground surface

Hand auger from 0-5' bgs.
Groundwater encountered at 2.0' bgs.
Temporary well screened from 8-18' bgs.
No staining or odor observed.

Date Start: 9/24/14
Date Finish: 9/24/14
Drilling Company: Fibertec
Driller's Name: Nick and Richard
Drilling Method: Direct Push/ Hand Auger
Sampling Method: Macrocore/ Hand Auger
Rig Type: 6620 DT Geoprobe
Water Level Start (ft. bgs.): NA
Water Level Finish (ft. btoc.): NA

Northing: NA
Easting: NA
Casing Elevation:

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

Descriptions By: Megan Castles-Humphrey

Well/Boring ID: **B-64**

Client: RACER Trust

Location: Former Pontiac Employment Development Center

Weather Conditions: Sunny, 75 F

DEPTH (feet bgs.) / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Water Level (ft. bgs.)	Well/Boring Construction
0 / 0									
				0.0			(0.0-2.0') SAND, fine to coarse, subrounded; little clay; little small to large pebbles; poorly sorted; moist; loose; dark brown (10YR 3/2).		
	1	0-5'	5.0	0.0			(2.0-8.5') SAND, fine to coarse, subrounded; and CLAY, medium plasticity, slow dilatancy; little small to large pebbles, subrounded; poorly sorted; moist; medium dense; brown (10YR 4/2).		
5 / -5									
	2	5-10'	2.92	0.0					
				0.0	X		(8.5-9.5') SAND, fine to coarse, subrounded; little small to medium pebbles, subrounded; little clay; moist; medium dense; dark brown (10YR 3/3).	▽	
				0.0			(9.5-14.0') CLAY, medium plasticity, no dilatancy; some sand, fine to coarse, subrounded; little small to medium pebbles, subrounded; moist to dry; medium stiff; dark grayish brown (10YR 4/2).		
10 / -10									
	3	10-14'	2.25	0.0					
				0.0					
							End of boring at 14' bgs.		
15 / -15									
20 / -20									

Borehole backfilled with bentonite.

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Remarks: bgs = below ground surface

Hand auger from 0-5' bgs.
Groundwater encountered at 9.46' bgs.
Temporary well screened from 8-13' bgs.
No staining or odor observed.

Date Start: 9/24/14
Date Finish: 9/24/14
Drilling Company: Fibertec
Driller's Name: Nick and Richard
Drilling Method: Direct Push/ Hand Auger
Sampling Method: Macrocore/ Hand Auger
Rig Type: 6620 DT Geoprobe
Water Level Start (ft. bgs.): NA
Water Level Finish (ft. btoc.): NA

Northing: NA
Easting: NA
Casing Elevation:

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

Descriptions By: Megan Castles-Humphrey

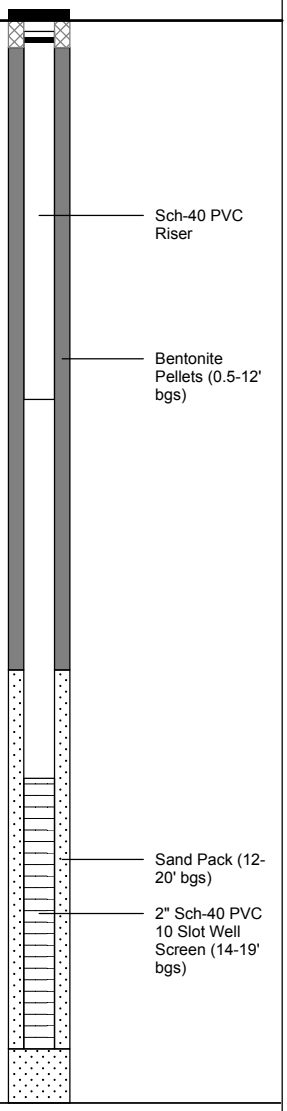
Well/Boring ID: **MW-32D**

Client: RACER Trust

Location: Former Pontiac Employment Development Center

Weather Conditions: Sunny, 75 F

DEPTH (feet bgs.) / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Water Level (ft. bgs.)
0 / 0							(0.0-0.5') CONCRETE.	
	1	0-5'	5.0	0.1 0.1 0.0			(0.5-5.0') SAND, medium to coarse, subrounded; well sorted; dry; loose; black (10YR 2/1). Note: Brick and stone fragments from 4.0-5.0' bgs.	
5 / -5				0.0			(5.0-10.5') CLAY, low plasticity, no dilatancy; dry; some small to large pebbles, subangular; very stiff; yellowish brown (10YR 5/6).	
	2	5-10'	4.42	0.0 0.0 0.0 0.0 0.0				
10 / -10				0.0			(10.5-11.5') CLAY, high plasticity, slow dilatancy; and SAND, fine to coarse; subrounded; little small to large pebbles, subrounded; wet; soft; yellowish brown (10YR 5/6). Note: Some black discoloration.	
	3	10-15'	5.0	0.0 0.0 0.0 0.0 0.0			(11.5-16.0') CLAY, low plasticity, no dilatancy; little small to medium pebbles, subrounded; dry; very stiff; dark grayish brown (10YR 4/2).	
15 / -15				0.0			(16.0-17.0') SAND, medium to coarse, subrounded; well sorted; moist; medium dense; black (10YR 2/1).	
	4	15-20'	4.58	0.0 0.0 0.0 0.0			(17.0-20.0') CLAY, low plasticity, slow dilatancy; little small to medium pebbles, subrounded; dry; very stiff; very dark gray (10YR 3/1).	
20 / -20							End of boring at 20' bgs.	



ARCADIS
Infrastructure · Water · Environment · Buildings

Remarks: bgs = below ground surface

Hand auger from 0-5' bgs.
Groundwater not encountered.
No odor observed.

Date Start: 9/24/14
Date Finish: 9/24/14
Drilling Company: Fibertec
Driller's Name: Nick and Richard
Drilling Method: Direct Push/ Hand Auger/HSA
Sampling Method: Macrocore/ Hand Auger
Rig Type: 6620 DT Geoprobe
Water Level Start (ft. bgs.): NA
Water Level Finish (ft. btoc.): NA

Northing: NA
Easting: NA
Casing Elevation:

Borehole Depth (ft. bgs.): 12.0
Surface Elevation: NA

Descriptions By: Megan Castles-Humphrey

Well/Boring ID: **MW-32S**

Client: RACER Trust

Location: Former Pontiac Employment Development Center

Weather Conditions: Sunny, 75 F

DEPTH (feet bgs.) / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Analytical Sample	Geologic Column	Stratigraphic Description	Water Level (ft. bgs.)	Well/Boring Construction
0 / 0							(0.0-12.0') No lithology recorded. See MW-32D.		Bentonite Pellets (1.0-5.0' bgs); Sch-40 PVC Riser; Sand Pack (5-12' bgs); 2" Sch-40 PVC 10 Slot Well Screen (7-12' bgs)
5 / -5									
10 / -10									
12 / -12							End of boring at 12' bgs.		
15 / -15									
20 / -20									

ARCADIS
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Remarks: bgs = below ground surface
HSA = hollow stem auger

Hand auger from 0-5' bgs.
Groundwater not encountered.
No odor observed.

ARCADIS

Appendix B

Laboratory Analytical Reports

Analytical Laboratory Report

Report ID: S62919.01(01)
Generated on 10/06/2014

Report to

Attention: Renee Pionk
Arcadis
10559 Citation Drive
Suite 100
Brighton, MI 48116

Phone: 810-229-8594 FAX: 810-229-8837
Email: renee.pionk@arcadis-us.com

Report produced by

Merit Laboratories, Inc.
2680 East Lansing Drive
East Lansing, MI 48823

Phone: (517) 332-0167 FAX: (517) 332-6333

Contacts for report questions:
Kevin George (kgeorge@meritlabs.com)
Barbara Ball (bball@meritlabs.com)

Report Summary

Lab Sample ID(s): S62919.01-S62919.26
Project: RACER Pontiac EDC
Collected Date: 09/23/2014 - 09/24/2014
Submitted Date/Time: 09/25/2014 12:25
Sampled by: M Castles-Humphrey
P.O. #: B0064486.2014.00001

Maya Murshak
Technical Director

General Report Notes

Results relate only to items tested as received by laboratory.
Methods may be modified for improved performance.
Results reported on a dry weight basis were applicable.
'Not detected' indicates that parameter was not found at a level equal to or greater than the reporting limit (RL).
40 CFR Part 136 Table II Required Containers, Preservation Techniques and Holding Times for the Clean Water Act specify that samples for acrolein and acrylonitrile need to be preserved at a pH in the range of 4 to 5 or if not preserved, analyzed within 3 days of sampling.
QA/QC corresponding to this analytical report is a separate document with the same Merit ID reference and is available upon request.
Full accreditation certificates are available upon request.
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.

Report Narrative

There is no additional narrative for this analytical report

Laboratory Certifications

Authority	Certification ID
Michigan DEQ	#9956
DOD ELAP/ISO 17025	#69699
WBENC	#2005110032
Ohio VAP	#CL0002
Indiana DOH	#C-MI-07
New York NELAC	#11814
North Carolina DENR	#680
North Carolina DOH	#26702

Qualifier Descriptions

Qualifier	Description
!	Result is outside of stated limit criteria
B	Compound also found in associated method blank
E	Concentration exceeds calibration range
F	Analysis run outside of holding time
G	Estimated result due to extraction run outside of holding time
H	Sample submitted and run outside of holding time
I	Matrix interference with internal standard
J	Estimated value less than reporting limit, but greater than MDL
L	Elevated reporting limit due to low sample amount
M	Result reported to MDL not RDL
O	Analysis performed by outside laboratory. See attached report.
R	Preliminary result
S	Surrogate recovery outside of control limits
T	No correction for total solids
X	Elevated reporting limit due to matrix interference
Y	Elevated reporting limit due to high target concentration
b	Value detected less than reporting limit, but greater than MDL
e	Reported value estimated due to interference
j	Analyte also found in associated method blank
p	Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.
x	Preserved from bulk sample

Glossary of Abbreviations

Abbreviation	Description
RL/RDL	Reporting Limit
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
SW	EPA SW 846 (Soil and Wastewater) Methods
E	EPA Methods
SM	Standard Methods

Method Summary

Method	Version
N/A	Not Applicable
SM2540B	Standard Method 2540 B 20th Edition
SW8260C	SW 846 Method 8260C Revision 3 August 2006
SW8260C/5035A	SW 846 Method 8260C Revision 3 August 2006 / 5035A

Sample Summary (26 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S62919.01	B-57_092314_(14-15)	Soil	09/23/2014 10:10
S62919.02	B-58_092314_(14-15)	Soil	09/23/2014 10:50
S62919.03	DUP-01_092314	Soil	09/23/2014 00:01
S62919.04	B-58_092314	Groundwater	09/23/2014 12:00
S62919.05	B-59_092314_(12-13)	Soil	09/23/2014 12:40
S62919.06	B-60_092314_(12-13)	Soil	09/23/2014 13:45
S62919.07	B-60_092314_(8-10)	Soil	09/23/2014 13:55
S62919.08	B-60_092314_(18-20)	Soil	09/23/2014 14:00
S62919.09	B-60_092314	Groundwater	09/23/2014 14:45
S62919.10	DUP-02_092314	Groundwater	09/23/2014 00:01
S62919.11	B-61_092314_(11-13)	Soil	09/23/2014 15:30
S62919.12	B-61_092314_(11-13) MS	Soil	09/23/2014 15:30
S62919.13	B-61_092314_(11-13) MSD	Soil	09/23/2014 15:30
S62919.14	B-63_092314_(11-12)	Soil	09/23/2014 16:10
S62919.15	Trip_blank	Water	09/23/2014 00:01
S62919.16	B-62_092414_(12-13)	Soil	09/24/2014 09:25
S62919.17	B-62_092414_(7-9)	Soil	09/24/2014 09:45
S62919.18	B-62_092414_(17.5-19.5)	Soil	09/24/2014 09:50
S62919.19	DUP-01_092414	Soil	09/24/2014 00:01
S62919.20	B-62_092414	Groundwater	09/24/2014 10:40
S62919.21	B-62_092414 MS	Groundwater	09/24/2014 10:40
S62919.22	B-62_092414 MSD	Groundwater	09/24/2014 10:40
S62919.23	B-64_092414_(8.5-9.5)	Soil	09/24/2014 11:40
S62919.24	B-64_092414	Groundwater	09/24/2014 12:10
S62919.25	B-63_092414	Groundwater	09/24/2014 14:00
S62919.26	B-59_092414	Groundwater	09/24/2014 15:20

Analytical Laboratory Report

Lab Sample ID: S62919.01
Sample Tag: B-57_092314_(14-15)
Collected Date/Time: 09/23/2014 10:10
Matrix: Soil
COC Reference: 87141

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	40ml Glass	MeOH	Yes	4.9	IR
1	4oz Glass	None	Yes	4.9	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Inorganics								
Total Solids	91	%	1	SM2540B	09/29/14 11:10	WAR		
Organics - Volatiles								
Volatile Organics 5035								
Diethyl ether	Not detected	ug/kg	200	SW8260C/5035A	09/29/14 19:07	WAT	60-29-7	
Acetone	Not detected	ug/kg	1,000	SW8260C/5035A	09/29/14 19:07	WAT	67-64-1	
Methyl iodide	Not detected	ug/kg	100	SW8260C/5035A	09/29/14 19:07	WAT	74-88-4	
Carbon disulfide	Not detected	ug/kg	300	SW8260C/5035A	09/29/14 19:07	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	200	SW8260C/5035A	09/29/14 19:07	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/kg	100	SW8260C/5035A	09/29/14 19:07	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/kg	890	SW8260C/5035A	09/29/14 19:07	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	300	SW8260C/5035A	09/29/14 19:07	WAT	75-71-8	
Chloromethane	Not detected	ug/kg	300	SW8260C/5035A	09/29/14 19:07	WAT	74-87-3	
Vinyl chloride	Not detected	ug/kg	60	SW8260C/5035A	09/29/14 19:07	WAT	75-01-4	
Bromomethane	Not detected	ug/kg	200	SW8260C/5035A	09/29/14 19:07	WAT	74-83-9	
Chloroethane	Not detected	ug/kg	300	SW8260C/5035A	09/29/14 19:07	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	100	SW8260C/5035A	09/29/14 19:07	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	60	SW8260C/5035A	09/29/14 19:07	WAT	75-35-4	
Methylene chloride	Not detected	ug/kg	100	SW8260C/5035A	09/29/14 19:07	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	60	SW8260C/5035A	09/29/14 19:07	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	60	SW8260C/5035A	09/29/14 19:07	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	60	SW8260C/5035A	09/29/14 19:07	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/kg	1,000	SW8260C/5035A	09/29/14 19:07	WAT	109-99-9	
Chloroform	Not detected	ug/kg	60	SW8260C/5035A	09/29/14 19:07	WAT	67-66-3	
Bromochloromethane	Not detected	ug/kg	100	SW8260C/5035A	09/29/14 19:07	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/kg	60	SW8260C/5035A	09/29/14 19:07	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	3,000	SW8260C/5035A	09/29/14 19:07	WAT	108-10-1	
2-Hexanone	Not detected	ug/kg	3,000	SW8260C/5035A	09/29/14 19:07	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	60	SW8260C/5035A	09/29/14 19:07	WAT	56-23-5	
Benzene	Not detected	ug/kg	60	SW8260C/5035A	09/29/14 19:07	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	60	SW8260C/5035A	09/29/14 19:07	WAT	107-06-2	
Trichloroethene	Not detected	ug/kg	60	SW8260C/5035A	09/29/14 19:07	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	60	SW8260C/5035A	09/29/14 19:07	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/kg	100	SW8260C/5035A	09/29/14 19:07	WAT	75-27-4	
Dibromomethane	Not detected	ug/kg	300	SW8260C/5035A	09/29/14 19:07	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/kg	60	SW8260C/5035A	09/29/14 19:07	WAT	10061-01-5	
Toluene	Not detected	ug/kg	100	SW8260C/5035A	09/29/14 19:07	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	60	SW8260C/5035A	09/29/14 19:07	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	60	SW8260C/5035A	09/29/14 19:07	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/kg	60	SW8260C/5035A	09/29/14 19:07	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/kg	60	SW8260C/5035A	09/29/14 19:07	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/kg	100	SW8260C/5035A	09/29/14 19:07	WAT	124-48-1	

Lab Sample ID: S62919.01 (continued)
Sample Tag: B-57_092314_(14-15)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics 5035 (continued)								
1,2-Dibromoethane	Not detected	ug/kg	20	SW8260C/5035A	09/29/14 19:07	WAT	106-93-4	M
Chlorobenzene	Not detected	ug/kg	60	SW8260C/5035A	09/29/14 19:07	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/kg	100	SW8260C/5035A	09/29/14 19:07	WAT	630-20-6	
Ethylbenzene	Not detected	ug/kg	60	SW8260C/5035A	09/29/14 19:07	WAT	100-41-4	
p,m-Xylene	Not detected	ug/kg	100	SW8260C/5035A	09/29/14 19:07	WAT		
o-Xylene	Not detected	ug/kg	60	SW8260C/5035A	09/29/14 19:07	WAT	95-47-6	
Styrene	Not detected	ug/kg	60	SW8260C/5035A	09/29/14 19:07	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/kg	300	SW8260C/5035A	09/29/14 19:07	WAT	98-82-8	
Bromoform	Not detected	ug/kg	100	SW8260C/5035A	09/29/14 19:07	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	60	SW8260C/5035A	09/29/14 19:07	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/kg	100	SW8260C/5035A	09/29/14 19:07	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/kg	100	SW8260C/5035A	09/29/14 19:07	WAT	103-65-1	
Bromobenzene	Not detected	ug/kg	100	SW8260C/5035A	09/29/14 19:07	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/kg	100	SW8260C/5035A	09/29/14 19:07	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/kg	60	SW8260C/5035A	09/29/14 19:07	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/kg	100	SW8260C/5035A	09/29/14 19:07	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/kg	60	SW8260C/5035A	09/29/14 19:07	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/kg	100	SW8260C/5035A	09/29/14 19:07	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/kg	100	SW8260C/5035A	09/29/14 19:07	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	100	SW8260C/5035A	09/29/14 19:07	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	100	SW8260C/5035A	09/29/14 19:07	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/kg	100	SW8260C/5035A	09/29/14 19:07	WAT	526-73-8	
n-Butylbenzene	Not detected	ug/kg	60	SW8260C/5035A	09/29/14 19:07	WAT	104-51-8	
Hexachloroethane	Not detected	ug/kg	400	SW8260C/5035A	09/29/14 19:07	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	300	SW8260C/5035A	09/29/14 19:07	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	390	SW8260C/5035A	09/29/14 19:07	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/kg	390	SW8260C/5035A	09/29/14 19:07	WAT	87-61-6	
Naphthalene	Not detected	ug/kg	390	SW8260C/5035A	09/29/14 19:07	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/kg	390	SW8260C/5035A	09/29/14 19:07	WAT	91-57-6	

M-Result reported to MDL not RDL

Analytical Laboratory Report

Lab Sample ID: S62919.02
Sample Tag: B-58_092314_(14-15)
Collected Date/Time: 09/23/2014 10:50
Matrix: Soil
COC Reference: 87141

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	40ml Glass	MeOH	Yes	4.9	IR
1	4oz Glass	None	Yes	4.9	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Inorganics								
Total Solids	85	%	1	SM2540B	09/29/14 11:10	WAR		
Organics - Volatiles								
Volatile Organics 5035								
Diethyl ether	Not detected	ug/kg	300	SW8260C/5035A	09/29/14 19:25	WAT	60-29-7	
Acetone	Not detected	ug/kg	1,000	SW8260C/5035A	09/29/14 19:25	WAT	67-64-1	
Methyl iodide	Not detected	ug/kg	100	SW8260C/5035A	09/29/14 19:25	WAT	74-88-4	
Carbon disulfide	Not detected	ug/kg	300	SW8260C/5035A	09/29/14 19:25	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	300	SW8260C/5035A	09/29/14 19:25	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/kg	100	SW8260C/5035A	09/29/14 19:25	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/kg	990	SW8260C/5035A	09/29/14 19:25	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	300	SW8260C/5035A	09/29/14 19:25	WAT	75-71-8	
Chloromethane	Not detected	ug/kg	300	SW8260C/5035A	09/29/14 19:25	WAT	74-87-3	
Vinyl chloride	Not detected	ug/kg	70	SW8260C/5035A	09/29/14 19:25	WAT	75-01-4	
Bromomethane	Not detected	ug/kg	300	SW8260C/5035A	09/29/14 19:25	WAT	74-83-9	
Chloroethane	Not detected	ug/kg	300	SW8260C/5035A	09/29/14 19:25	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	100	SW8260C/5035A	09/29/14 19:25	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	70	SW8260C/5035A	09/29/14 19:25	WAT	75-35-4	
Methylene chloride	Not detected	ug/kg	100	SW8260C/5035A	09/29/14 19:25	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	70	SW8260C/5035A	09/29/14 19:25	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	70	SW8260C/5035A	09/29/14 19:25	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	70	SW8260C/5035A	09/29/14 19:25	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/kg	1,000	SW8260C/5035A	09/29/14 19:25	WAT	109-99-9	
Chloroform	Not detected	ug/kg	70	SW8260C/5035A	09/29/14 19:25	WAT	67-66-3	
Bromochloromethane	Not detected	ug/kg	100	SW8260C/5035A	09/29/14 19:25	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/kg	70	SW8260C/5035A	09/29/14 19:25	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	3,000	SW8260C/5035A	09/29/14 19:25	WAT	108-10-1	
2-Hexanone	Not detected	ug/kg	3,000	SW8260C/5035A	09/29/14 19:25	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	70	SW8260C/5035A	09/29/14 19:25	WAT	56-23-5	
Benzene	Not detected	ug/kg	70	SW8260C/5035A	09/29/14 19:25	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	70	SW8260C/5035A	09/29/14 19:25	WAT	107-06-2	
Trichloroethene	340	ug/kg	70	SW8260C/5035A	09/29/14 19:25	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	70	SW8260C/5035A	09/29/14 19:25	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/kg	100	SW8260C/5035A	09/29/14 19:25	WAT	75-27-4	
Dibromomethane	Not detected	ug/kg	300	SW8260C/5035A	09/29/14 19:25	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/kg	70	SW8260C/5035A	09/29/14 19:25	WAT	10061-01-5	
Toluene	200	ug/kg	100	SW8260C/5035A	09/29/14 19:25	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	70	SW8260C/5035A	09/29/14 19:25	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	70	SW8260C/5035A	09/29/14 19:25	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/kg	70	SW8260C/5035A	09/29/14 19:25	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/kg	70	SW8260C/5035A	09/29/14 19:25	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/kg	100	SW8260C/5035A	09/29/14 19:25	WAT	124-48-1	

Lab Sample ID: S62919.02 (continued)
Sample Tag: B-58_092314_(14-15)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics 5035 (continued)								
1,2-Dibromoethane	Not detected	ug/kg	30	SW8260C/5035A	09/29/14 19:25	WAT	106-93-4	M
Chlorobenzene	Not detected	ug/kg	70	SW8260C/5035A	09/29/14 19:25	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/kg	100	SW8260C/5035A	09/29/14 19:25	WAT	630-20-6	
Ethylbenzene	Not detected	ug/kg	70	SW8260C/5035A	09/29/14 19:25	WAT	100-41-4	
p,m-Xylene	300	ug/kg	100	SW8260C/5035A	09/29/14 19:25	WAT		
o-Xylene	130	ug/kg	70	SW8260C/5035A	09/29/14 19:25	WAT	95-47-6	
Styrene	Not detected	ug/kg	70	SW8260C/5035A	09/29/14 19:25	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/kg	300	SW8260C/5035A	09/29/14 19:25	WAT	98-82-8	
Bromoform	Not detected	ug/kg	100	SW8260C/5035A	09/29/14 19:25	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	70	SW8260C/5035A	09/29/14 19:25	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/kg	100	SW8260C/5035A	09/29/14 19:25	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/kg	100	SW8260C/5035A	09/29/14 19:25	WAT	103-65-1	
Bromobenzene	Not detected	ug/kg	100	SW8260C/5035A	09/29/14 19:25	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/kg	100	SW8260C/5035A	09/29/14 19:25	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/kg	70	SW8260C/5035A	09/29/14 19:25	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/kg	100	SW8260C/5035A	09/29/14 19:25	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/kg	70	SW8260C/5035A	09/29/14 19:25	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/kg	100	SW8260C/5035A	09/29/14 19:25	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/kg	100	SW8260C/5035A	09/29/14 19:25	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	100	SW8260C/5035A	09/29/14 19:25	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	100	SW8260C/5035A	09/29/14 19:25	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/kg	100	SW8260C/5035A	09/29/14 19:25	WAT	526-73-8	
n-Butylbenzene	Not detected	ug/kg	70	SW8260C/5035A	09/29/14 19:25	WAT	104-51-8	
Hexachloroethane	Not detected	ug/kg	400	SW8260C/5035A	09/29/14 19:25	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	300	SW8260C/5035A	09/29/14 19:25	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	440	SW8260C/5035A	09/29/14 19:25	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/kg	440	SW8260C/5035A	09/29/14 19:25	WAT	87-61-6	
Naphthalene	Not detected	ug/kg	440	SW8260C/5035A	09/29/14 19:25	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/kg	440	SW8260C/5035A	09/29/14 19:25	WAT	91-57-6	

M-Result reported to MDL not RDL

Lab Sample ID: S62919.03
Sample Tag: DUP-01_092314
Collected Date/Time: 09/23/2014 00:01
Matrix: Soil
COC Reference: 87141

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	40ml Glass	MeOH	Yes	4.9	IR
1	4oz Glass	None	Yes	4.9	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Inorganics								
Total Solids	85	%	1	SM2540B	09/29/14 11:10	WAR		
Organics - Volatiles								
Volatile Organics 5035								
Diethyl ether	Not detected	ug/kg	300	SW8260C/5035A	09/29/14 19:43	WAT	60-29-7	
Acetone	Not detected	ug/kg	1,000	SW8260C/5035A	09/29/14 19:43	WAT	67-64-1	
Methyl iodide	Not detected	ug/kg	100	SW8260C/5035A	09/29/14 19:43	WAT	74-88-4	
Carbon disulfide	Not detected	ug/kg	300	SW8260C/5035A	09/29/14 19:43	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	300	SW8260C/5035A	09/29/14 19:43	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/kg	100	SW8260C/5035A	09/29/14 19:43	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/kg	1,000	SW8260C/5035A	09/29/14 19:43	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	300	SW8260C/5035A	09/29/14 19:43	WAT	75-71-8	
Chloromethane	Not detected	ug/kg	300	SW8260C/5035A	09/29/14 19:43	WAT	74-87-3	
Vinyl chloride	Not detected	ug/kg	70	SW8260C/5035A	09/29/14 19:43	WAT	75-01-4	
Bromomethane	Not detected	ug/kg	300	SW8260C/5035A	09/29/14 19:43	WAT	74-83-9	
Chloroethane	Not detected	ug/kg	300	SW8260C/5035A	09/29/14 19:43	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	100	SW8260C/5035A	09/29/14 19:43	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	70	SW8260C/5035A	09/29/14 19:43	WAT	75-35-4	
Methylene chloride	Not detected	ug/kg	100	SW8260C/5035A	09/29/14 19:43	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	70	SW8260C/5035A	09/29/14 19:43	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	70	SW8260C/5035A	09/29/14 19:43	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	70	SW8260C/5035A	09/29/14 19:43	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/kg	1,000	SW8260C/5035A	09/29/14 19:43	WAT	109-99-9	
Chloroform	Not detected	ug/kg	70	SW8260C/5035A	09/29/14 19:43	WAT	67-66-3	
Bromochloromethane	Not detected	ug/kg	100	SW8260C/5035A	09/29/14 19:43	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/kg	70	SW8260C/5035A	09/29/14 19:43	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	3,000	SW8260C/5035A	09/29/14 19:43	WAT	108-10-1	
2-Hexanone	Not detected	ug/kg	3,000	SW8260C/5035A	09/29/14 19:43	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	70	SW8260C/5035A	09/29/14 19:43	WAT	56-23-5	
Benzene	Not detected	ug/kg	70	SW8260C/5035A	09/29/14 19:43	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	70	SW8260C/5035A	09/29/14 19:43	WAT	107-06-2	
Trichloroethene	330	ug/kg	70	SW8260C/5035A	09/29/14 19:43	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	70	SW8260C/5035A	09/29/14 19:43	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/kg	100	SW8260C/5035A	09/29/14 19:43	WAT	75-27-4	
Dibromomethane	Not detected	ug/kg	300	SW8260C/5035A	09/29/14 19:43	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/kg	70	SW8260C/5035A	09/29/14 19:43	WAT	10061-01-5	
Toluene	200	ug/kg	100	SW8260C/5035A	09/29/14 19:43	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	70	SW8260C/5035A	09/29/14 19:43	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	70	SW8260C/5035A	09/29/14 19:43	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/kg	70	SW8260C/5035A	09/29/14 19:43	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/kg	70	SW8260C/5035A	09/29/14 19:43	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/kg	100	SW8260C/5035A	09/29/14 19:43	WAT	124-48-1	

Lab Sample ID: S62919.03 (continued)
Sample Tag: DUP-01_092314

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics 5035 (continued)								
1,2-Dibromoethane	Not detected	ug/kg	30	SW8260C/5035A	09/29/14 19:43	WAT	106-93-4	M
Chlorobenzene	Not detected	ug/kg	70	SW8260C/5035A	09/29/14 19:43	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/kg	100	SW8260C/5035A	09/29/14 19:43	WAT	630-20-6	
Ethylbenzene	Not detected	ug/kg	70	SW8260C/5035A	09/29/14 19:43	WAT	100-41-4	
p,m-Xylene	300	ug/kg	100	SW8260C/5035A	09/29/14 19:43	WAT		
o-Xylene	160	ug/kg	70	SW8260C/5035A	09/29/14 19:43	WAT	95-47-6	
Styrene	Not detected	ug/kg	70	SW8260C/5035A	09/29/14 19:43	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/kg	300	SW8260C/5035A	09/29/14 19:43	WAT	98-82-8	
Bromoform	Not detected	ug/kg	100	SW8260C/5035A	09/29/14 19:43	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	70	SW8260C/5035A	09/29/14 19:43	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/kg	100	SW8260C/5035A	09/29/14 19:43	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/kg	100	SW8260C/5035A	09/29/14 19:43	WAT	103-65-1	
Bromobenzene	Not detected	ug/kg	100	SW8260C/5035A	09/29/14 19:43	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/kg	100	SW8260C/5035A	09/29/14 19:43	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/kg	70	SW8260C/5035A	09/29/14 19:43	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/kg	100	SW8260C/5035A	09/29/14 19:43	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/kg	70	SW8260C/5035A	09/29/14 19:43	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/kg	100	SW8260C/5035A	09/29/14 19:43	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/kg	100	SW8260C/5035A	09/29/14 19:43	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	100	SW8260C/5035A	09/29/14 19:43	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	100	SW8260C/5035A	09/29/14 19:43	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/kg	100	SW8260C/5035A	09/29/14 19:43	WAT	526-73-8	
n-Butylbenzene	Not detected	ug/kg	70	SW8260C/5035A	09/29/14 19:43	WAT	104-51-8	
Hexachloroethane	Not detected	ug/kg	400	SW8260C/5035A	09/29/14 19:43	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	300	SW8260C/5035A	09/29/14 19:43	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	440	SW8260C/5035A	09/29/14 19:43	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/kg	440	SW8260C/5035A	09/29/14 19:43	WAT	87-61-6	
Naphthalene	Not detected	ug/kg	440	SW8260C/5035A	09/29/14 19:43	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/kg	440	SW8260C/5035A	09/29/14 19:43	WAT	91-57-6	

M-Result reported to MDL not RDL

Analytical Laboratory Report

Lab Sample ID: S62919.04
Sample Tag: B-58_092314
Collected Date/Time: 09/23/2014 12:00
Matrix: Groundwater
COC Reference: 87141

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	4.9	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
pH check for VOCs	<2	STD Units		N/A	10/03/14 10:35	LBR		
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	10	SW8260C	10/02/14 17:01	JGH	60-29-7	
Acetone	Not detected	ug/L	50	SW8260C	10/02/14 17:01	JGH	67-64-1	
Methyl iodide	Not detected	ug/L	1	SW8260C	10/02/14 17:01	JGH	74-88-4	
Carbon disulfide	Not detected	ug/L	5	SW8260C	10/02/14 17:01	JGH	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW8260C	10/02/14 17:01	JGH	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	SW8260C	10/02/14 17:01	JGH	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	SW8260C	10/02/14 17:01	JGH	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW8260C	10/02/14 17:01	JGH	75-71-8	
Chloromethane	Not detected	ug/L	5	SW8260C	10/02/14 17:01	JGH	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW8260C	10/02/14 17:01	JGH	75-01-4	
Bromomethane	Not detected	ug/L	5	SW8260C	10/02/14 17:01	JGH	74-83-9	
Chloroethane	Not detected	ug/L	5	SW8260C	10/02/14 17:01	JGH	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260C	10/02/14 17:01	JGH	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260C	10/02/14 17:01	JGH	75-35-4	
Methylene chloride	Not detected	ug/L	5	SW8260C	10/02/14 17:01	JGH	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260C	10/02/14 17:01	JGH	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260C	10/02/14 17:01	JGH	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260C	10/02/14 17:01	JGH	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	SW8260C	10/02/14 17:01	JGH	109-99-9	
Chloroform	Not detected	ug/L	1	SW8260C	10/02/14 17:01	JGH	67-66-3	
Bromochloromethane	Not detected	ug/L	1	SW8260C	10/02/14 17:01	JGH	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260C	10/02/14 17:01	JGH	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW8260C	10/02/14 17:01	JGH	108-10-1	
2-Hexanone	Not detected	ug/L	50	SW8260C	10/02/14 17:01	JGH	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW8260C	10/02/14 17:01	JGH	56-23-5	
Benzene	1	ug/L	1	SW8260C	10/02/14 17:01	JGH	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260C	10/02/14 17:01	JGH	107-06-2	
Trichloroethene	3	ug/L	1	SW8260C	10/02/14 17:01	JGH	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260C	10/02/14 17:01	JGH	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW8260C	10/02/14 17:01	JGH	75-27-4	
Dibromomethane	Not detected	ug/L	5	SW8260C	10/02/14 17:01	JGH	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260C	10/02/14 17:01	JGH	10061-01-5	
Toluene	1	ug/L	1	SW8260C	10/02/14 17:01	JGH	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260C	10/02/14 17:01	JGH	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260C	10/02/14 17:01	JGH	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW8260C	10/02/14 17:01	JGH	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW8260C	10/02/14 17:01	JGH	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	SW8260C	10/02/14 17:01	JGH	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260C	10/02/14 17:01	JGH	106-93-4	

Lab Sample ID: S62919.04 (continued)
Sample Tag: B-58_092314

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	SW8260C	10/02/14 17:01	JGH	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW8260C	10/02/14 17:01	JGH	630-20-6	
Ethylbenzene	Not detected	ug/L	1	SW8260C	10/02/14 17:01	JGH	100-41-4	
p,m-Xylene	Not detected	ug/L	2	SW8260C	10/02/14 17:01	JGH		
o-Xylene	Not detected	ug/L	1	SW8260C	10/02/14 17:01	JGH	95-47-6	
Styrene	Not detected	ug/L	1	SW8260C	10/02/14 17:01	JGH	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	SW8260C	10/02/14 17:01	JGH	98-82-8	
Bromoform	Not detected	ug/L	1	SW8260C	10/02/14 17:01	JGH	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260C	10/02/14 17:01	JGH	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	SW8260C	10/02/14 17:01	JGH	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	SW8260C	10/02/14 17:01	JGH	103-65-1	
Bromobenzene	Not detected	ug/L	1	SW8260C	10/02/14 17:01	JGH	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW8260C	10/02/14 17:01	JGH	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	SW8260C	10/02/14 17:01	JGH	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW8260C	10/02/14 17:01	JGH	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	SW8260C	10/02/14 17:01	JGH	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	SW8260C	10/02/14 17:01	JGH	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260C	10/02/14 17:01	JGH	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260C	10/02/14 17:01	JGH	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260C	10/02/14 17:01	JGH	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW8260C	10/02/14 17:01	JGH	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	SW8260C	10/02/14 17:01	JGH	104-51-8	
Hexachloroethane	Not detected	ug/L	5	SW8260C	10/02/14 17:01	JGH	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW8260C	10/02/14 17:01	JGH	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW8260C	10/02/14 17:01	JGH	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW8260C	10/02/14 17:01	JGH	87-61-6	
Naphthalene	Not detected	ug/L	5	SW8260C	10/02/14 17:01	JGH	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	SW8260C	10/02/14 17:01	JGH	91-57-6	

Analytical Laboratory Report

Lab Sample ID: S62919.05
Sample Tag: B-59_092314_(12-13)
Collected Date/Time: 09/23/2014 12:40
Matrix: Soil
COC Reference: 87141

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	40ml Glass	MeOH	Yes	4.9	IR
1	4oz Glass	None	Yes	4.9	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Inorganics								
Total Solids	86	%	1	SM2540B	09/29/14 11:10	WAR		
Organics - Volatiles								
Volatile Organics 5035								
Diethyl ether	Not detected	ug/kg	300	SW8260C/5035A	09/29/14 20:02	WAT	60-29-7	
Acetone	Not detected	ug/kg	1,000	SW8260C/5035A	09/29/14 20:02	WAT	67-64-1	
Methyl iodide	Not detected	ug/kg	100	SW8260C/5035A	09/29/14 20:02	WAT	74-88-4	
Carbon disulfide	Not detected	ug/kg	300	SW8260C/5035A	09/29/14 20:02	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	300	SW8260C/5035A	09/29/14 20:02	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/kg	100	SW8260C/5035A	09/29/14 20:02	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/kg	980	SW8260C/5035A	09/29/14 20:02	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	300	SW8260C/5035A	09/29/14 20:02	WAT	75-71-8	
Chloromethane	Not detected	ug/kg	300	SW8260C/5035A	09/29/14 20:02	WAT	74-87-3	
Vinyl chloride	Not detected	ug/kg	70	SW8260C/5035A	09/29/14 20:02	WAT	75-01-4	
Bromomethane	Not detected	ug/kg	300	SW8260C/5035A	09/29/14 20:02	WAT	74-83-9	
Chloroethane	Not detected	ug/kg	300	SW8260C/5035A	09/29/14 20:02	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	100	SW8260C/5035A	09/29/14 20:02	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	70	SW8260C/5035A	09/29/14 20:02	WAT	75-35-4	
Methylene chloride	Not detected	ug/kg	100	SW8260C/5035A	09/29/14 20:02	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	70	SW8260C/5035A	09/29/14 20:02	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	70	SW8260C/5035A	09/29/14 20:02	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	70	SW8260C/5035A	09/29/14 20:02	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/kg	1,000	SW8260C/5035A	09/29/14 20:02	WAT	109-99-9	
Chloroform	Not detected	ug/kg	70	SW8260C/5035A	09/29/14 20:02	WAT	67-66-3	
Bromochloromethane	Not detected	ug/kg	100	SW8260C/5035A	09/29/14 20:02	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/kg	70	SW8260C/5035A	09/29/14 20:02	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	3,000	SW8260C/5035A	09/29/14 20:02	WAT	108-10-1	
2-Hexanone	Not detected	ug/kg	3,000	SW8260C/5035A	09/29/14 20:02	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	70	SW8260C/5035A	09/29/14 20:02	WAT	56-23-5	
Benzene	7,630	ug/kg	70	SW8260C/5035A	09/29/14 20:02	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	70	SW8260C/5035A	09/29/14 20:02	WAT	107-06-2	
Trichloroethene	Not detected	ug/kg	70	SW8260C/5035A	09/29/14 20:02	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	70	SW8260C/5035A	09/29/14 20:02	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/kg	100	SW8260C/5035A	09/29/14 20:02	WAT	75-27-4	
Dibromomethane	Not detected	ug/kg	300	SW8260C/5035A	09/29/14 20:02	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/kg	70	SW8260C/5035A	09/29/14 20:02	WAT	10061-01-5	
Toluene	Not detected	ug/kg	100	SW8260C/5035A	09/29/14 20:02	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	70	SW8260C/5035A	09/29/14 20:02	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	70	SW8260C/5035A	09/29/14 20:02	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/kg	70	SW8260C/5035A	09/29/14 20:02	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/kg	70	SW8260C/5035A	09/29/14 20:02	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/kg	100	SW8260C/5035A	09/29/14 20:02	WAT	124-48-1	

Lab Sample ID: S62919.05 (continued)
Sample Tag: B-59_092314_(12-13)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics 5035 (continued)								
1,2-Dibromoethane	Not detected	ug/kg	30	SW8260C/5035A	09/29/14 20:02	WAT	106-93-4	M
Chlorobenzene	Not detected	ug/kg	70	SW8260C/5035A	09/29/14 20:02	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/kg	100	SW8260C/5035A	09/29/14 20:02	WAT	630-20-6	
Ethylbenzene	2,180	ug/kg	70	SW8260C/5035A	09/29/14 20:02	WAT	100-41-4	
p,m-Xylene	400	ug/kg	100	SW8260C/5035A	09/29/14 20:02	WAT		
o-Xylene	150	ug/kg	70	SW8260C/5035A	09/29/14 20:02	WAT	95-47-6	
Styrene	Not detected	ug/kg	70	SW8260C/5035A	09/29/14 20:02	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/kg	300	SW8260C/5035A	09/29/14 20:02	WAT	98-82-8	
Bromoform	Not detected	ug/kg	100	SW8260C/5035A	09/29/14 20:02	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	70	SW8260C/5035A	09/29/14 20:02	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/kg	100	SW8260C/5035A	09/29/14 20:02	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/kg	100	SW8260C/5035A	09/29/14 20:02	WAT	103-65-1	
Bromobenzene	Not detected	ug/kg	100	SW8260C/5035A	09/29/14 20:02	WAT	108-86-1	
1,3,5-Trimethylbenzene	200	ug/kg	100	SW8260C/5035A	09/29/14 20:02	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/kg	70	SW8260C/5035A	09/29/14 20:02	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/kg	100	SW8260C/5035A	09/29/14 20:02	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/kg	70	SW8260C/5035A	09/29/14 20:02	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/kg	100	SW8260C/5035A	09/29/14 20:02	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/kg	100	SW8260C/5035A	09/29/14 20:02	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	100	SW8260C/5035A	09/29/14 20:02	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	100	SW8260C/5035A	09/29/14 20:02	WAT	95-50-1	
1,2,3-Trimethylbenzene	100	ug/kg	100	SW8260C/5035A	09/29/14 20:02	WAT	526-73-8	
n-Butylbenzene	Not detected	ug/kg	70	SW8260C/5035A	09/29/14 20:02	WAT	104-51-8	
Hexachloroethane	Not detected	ug/kg	400	SW8260C/5035A	09/29/14 20:02	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	300	SW8260C/5035A	09/29/14 20:02	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	430	SW8260C/5035A	09/29/14 20:02	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/kg	430	SW8260C/5035A	09/29/14 20:02	WAT	87-61-6	
Naphthalene	Not detected	ug/kg	430	SW8260C/5035A	09/29/14 20:02	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/kg	430	SW8260C/5035A	09/29/14 20:02	WAT	91-57-6	

M-Result reported to MDL not RDL

Lab Sample ID: S62919.06
Sample Tag: B-60_092314_(12-13)
Collected Date/Time: 09/23/2014 13:45
Matrix: Soil
COC Reference: 87141

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	40ml Glass	MeOH	Yes	4.9	IR
1	4oz Glass	None	Yes	4.9	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Inorganics								
Total Solids	88	%	1	SM2540B	09/29/14 11:10	WAR		
Organics - Volatiles								
Volatile Organics 5035								
Diethyl ether	Not detected	ug/kg	300	SW8260C/5035A	09/29/14 20:20	WAT	60-29-7	
Acetone	Not detected	ug/kg	2,200	SW8260C/5035A	09/29/14 20:20	WAT	67-64-1	X
Methyl iodide	Not detected	ug/kg	100	SW8260C/5035A	09/29/14 20:20	WAT	74-88-4	
Carbon disulfide	Not detected	ug/kg	300	SW8260C/5035A	09/29/14 20:20	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	300	SW8260C/5035A	09/29/14 20:20	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/kg	100	SW8260C/5035A	09/29/14 20:20	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/kg	960	SW8260C/5035A	09/29/14 20:20	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	300	SW8260C/5035A	09/29/14 20:20	WAT	75-71-8	
Chloromethane	Not detected	ug/kg	300	SW8260C/5035A	09/29/14 20:20	WAT	74-87-3	
Vinyl chloride	Not detected	ug/kg	60	SW8260C/5035A	09/29/14 20:20	WAT	75-01-4	
Bromomethane	Not detected	ug/kg	300	SW8260C/5035A	09/29/14 20:20	WAT	74-83-9	
Chloroethane	Not detected	ug/kg	300	SW8260C/5035A	09/29/14 20:20	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	100	SW8260C/5035A	09/29/14 20:20	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	60	SW8260C/5035A	09/29/14 20:20	WAT	75-35-4	
Methylene chloride	Not detected	ug/kg	100	SW8260C/5035A	09/29/14 20:20	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	60	SW8260C/5035A	09/29/14 20:20	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	60	SW8260C/5035A	09/29/14 20:20	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	60	SW8260C/5035A	09/29/14 20:20	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/kg	1,000	SW8260C/5035A	09/29/14 20:20	WAT	109-99-9	
Chloroform	Not detected	ug/kg	60	SW8260C/5035A	09/29/14 20:20	WAT	67-66-3	
Bromochloromethane	Not detected	ug/kg	100	SW8260C/5035A	09/29/14 20:20	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/kg	60	SW8260C/5035A	09/29/14 20:20	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	3,000	SW8260C/5035A	09/29/14 20:20	WAT	108-10-1	
2-Hexanone	Not detected	ug/kg	3,000	SW8260C/5035A	09/29/14 20:20	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	60	SW8260C/5035A	09/29/14 20:20	WAT	56-23-5	
Benzene	3,410	ug/kg	60	SW8260C/5035A	09/29/14 20:20	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	60	SW8260C/5035A	09/29/14 20:20	WAT	107-06-2	
Trichloroethene	Not detected	ug/kg	60	SW8260C/5035A	09/29/14 20:20	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	60	SW8260C/5035A	09/29/14 20:20	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/kg	100	SW8260C/5035A	09/29/14 20:20	WAT	75-27-4	
Dibromomethane	Not detected	ug/kg	300	SW8260C/5035A	09/29/14 20:20	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/kg	60	SW8260C/5035A	09/29/14 20:20	WAT	10061-01-5	
Toluene	200	ug/kg	100	SW8260C/5035A	09/29/14 20:20	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	60	SW8260C/5035A	09/29/14 20:20	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	60	SW8260C/5035A	09/29/14 20:20	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/kg	60	SW8260C/5035A	09/29/14 20:20	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/kg	60	SW8260C/5035A	09/29/14 20:20	WAT	110-57-6	

X-Elevated reporting limit due to matrix interference

Lab Sample ID: S62919.06 (continued)
Sample Tag: B-60_092314_(12-13)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics 5035 (continued)								
Dibromochloromethane	Not detected	ug/kg	100	SW8260C/5035A	09/29/14 20:20	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	30	SW8260C/5035A	09/29/14 20:20	WAT	106-93-4	M
Chlorobenzene	Not detected	ug/kg	60	SW8260C/5035A	09/29/14 20:20	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/kg	100	SW8260C/5035A	09/29/14 20:20	WAT	630-20-6	
Ethylbenzene	9,790	ug/kg	60	SW8260C/5035A	09/29/14 20:20	WAT	100-41-4	
p,m-Xylene	21,800	ug/kg	100	SW8260C/5035A	09/29/14 20:20	WAT		
o-Xylene	410	ug/kg	60	SW8260C/5035A	09/29/14 20:20	WAT	95-47-6	
Styrene	Not detected	ug/kg	60	SW8260C/5035A	09/29/14 20:20	WAT	100-42-5	
Isopropylbenzene	600	ug/kg	300	SW8260C/5035A	09/29/14 20:20	WAT	98-82-8	
Bromoform	Not detected	ug/kg	100	SW8260C/5035A	09/29/14 20:20	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	60	SW8260C/5035A	09/29/14 20:20	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/kg	100	SW8260C/5035A	09/29/14 20:20	WAT	96-18-4	
n-Propylbenzene	2,000	ug/kg	100	SW8260C/5035A	09/29/14 20:20	WAT	103-65-1	
Bromobenzene	Not detected	ug/kg	100	SW8260C/5035A	09/29/14 20:20	WAT	108-86-1	
1,3,5-Trimethylbenzene	2,800	ug/kg	100	SW8260C/5035A	09/29/14 20:20	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/kg	60	SW8260C/5035A	09/29/14 20:20	WAT	98-06-6	
1,2,4-Trimethylbenzene	7,700	ug/kg	100	SW8260C/5035A	09/29/14 20:20	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/kg	60	SW8260C/5035A	09/29/14 20:20	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/kg	100	SW8260C/5035A	09/29/14 20:20	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/kg	100	SW8260C/5035A	09/29/14 20:20	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	100	SW8260C/5035A	09/29/14 20:20	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	100	SW8260C/5035A	09/29/14 20:20	WAT	95-50-1	
1,2,3-Trimethylbenzene	2,100	ug/kg	100	SW8260C/5035A	09/29/14 20:20	WAT	526-73-8	
n-Butylbenzene	370	ug/kg	60	SW8260C/5035A	09/29/14 20:20	WAT	104-51-8	
Hexachloroethane	Not detected	ug/kg	400	SW8260C/5035A	09/29/14 20:20	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	300	SW8260C/5035A	09/29/14 20:20	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	420	SW8260C/5035A	09/29/14 20:20	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/kg	420	SW8260C/5035A	09/29/14 20:20	WAT	87-61-6	
Naphthalene	1,820	ug/kg	420	SW8260C/5035A	09/29/14 20:20	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/kg	420	SW8260C/5035A	09/29/14 20:20	WAT	91-57-6	

M-Result reported to MDL not RDL

Lab Sample ID: S62919.07
Sample Tag: B-60_092314_(8-10)
Collected Date/Time: 09/23/2014 13:55
Matrix: Soil
COC Reference: 87141

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	40ml Glass	MeOH	Yes	4.9	IR
1	4oz Glass	None	Yes	4.9	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Inorganics								
Total Solids	93	%	1	SM2540B	09/29/14 11:10	WAR		
Organics - Volatiles								
Volatile Organics 5035								
Diethyl ether	Not detected	ug/kg	200	SW8260C/5035A	09/30/14 17:08	WAT	60-29-7	
Acetone	Not detected	ug/kg	1,000	SW8260C/5035A	09/30/14 17:08	WAT	67-64-1	
Methyl iodide	Not detected	ug/kg	100	SW8260C/5035A	09/30/14 17:08	WAT	74-88-4	
Carbon disulfide	Not detected	ug/kg	300	SW8260C/5035A	09/30/14 17:08	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	200	SW8260C/5035A	09/30/14 17:08	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/kg	100	SW8260C/5035A	09/30/14 17:08	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/kg	840	SW8260C/5035A	09/30/14 17:08	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	300	SW8260C/5035A	09/30/14 17:08	WAT	75-71-8	
Chloromethane	Not detected	ug/kg	300	SW8260C/5035A	09/30/14 17:08	WAT	74-87-3	
Vinyl chloride	Not detected	ug/kg	60	SW8260C/5035A	09/30/14 17:08	WAT	75-01-4	
Bromomethane	Not detected	ug/kg	200	SW8260C/5035A	09/30/14 17:08	WAT	74-83-9	
Chloroethane	Not detected	ug/kg	300	SW8260C/5035A	09/30/14 17:08	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	100	SW8260C/5035A	09/30/14 17:08	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	60	SW8260C/5035A	09/30/14 17:08	WAT	75-35-4	
Methylene chloride	Not detected	ug/kg	100	SW8260C/5035A	09/30/14 17:08	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	60	SW8260C/5035A	09/30/14 17:08	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	60	SW8260C/5035A	09/30/14 17:08	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	60	SW8260C/5035A	09/30/14 17:08	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/kg	1,000	SW8260C/5035A	09/30/14 17:08	WAT	109-99-9	
Chloroform	Not detected	ug/kg	60	SW8260C/5035A	09/30/14 17:08	WAT	67-66-3	
Bromochloromethane	Not detected	ug/kg	100	SW8260C/5035A	09/30/14 17:08	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/kg	60	SW8260C/5035A	09/30/14 17:08	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	3,000	SW8260C/5035A	09/30/14 17:08	WAT	108-10-1	
2-Hexanone	Not detected	ug/kg	3,000	SW8260C/5035A	09/30/14 17:08	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	60	SW8260C/5035A	09/30/14 17:08	WAT	56-23-5	
Benzene	Not detected	ug/kg	60	SW8260C/5035A	09/30/14 17:08	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	60	SW8260C/5035A	09/30/14 17:08	WAT	107-06-2	
Trichloroethene	Not detected	ug/kg	60	SW8260C/5035A	09/30/14 17:08	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	60	SW8260C/5035A	09/30/14 17:08	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/kg	100	SW8260C/5035A	09/30/14 17:08	WAT	75-27-4	
Dibromomethane	Not detected	ug/kg	300	SW8260C/5035A	09/30/14 17:08	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/kg	60	SW8260C/5035A	09/30/14 17:08	WAT	10061-01-5	
Toluene	Not detected	ug/kg	100	SW8260C/5035A	09/30/14 17:08	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	60	SW8260C/5035A	09/30/14 17:08	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	60	SW8260C/5035A	09/30/14 17:08	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/kg	60	SW8260C/5035A	09/30/14 17:08	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/kg	60	SW8260C/5035A	09/30/14 17:08	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/kg	100	SW8260C/5035A	09/30/14 17:08	WAT	124-48-1	

Lab Sample ID: S62919.07 (continued)
Sample Tag: B-60_092314_(8-10)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics 5035 (continued)								
1,2-Dibromoethane	Not detected	ug/kg	20	SW8260C/5035A	09/30/14 17:08	WAT	106-93-4	M
Chlorobenzene	Not detected	ug/kg	60	SW8260C/5035A	09/30/14 17:08	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/kg	100	SW8260C/5035A	09/30/14 17:08	WAT	630-20-6	
Ethylbenzene	Not detected	ug/kg	60	SW8260C/5035A	09/30/14 17:08	WAT	100-41-4	
p,m-Xylene	Not detected	ug/kg	100	SW8260C/5035A	09/30/14 17:08	WAT		
o-Xylene	Not detected	ug/kg	60	SW8260C/5035A	09/30/14 17:08	WAT	95-47-6	
Styrene	Not detected	ug/kg	60	SW8260C/5035A	09/30/14 17:08	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/kg	300	SW8260C/5035A	09/30/14 17:08	WAT	98-82-8	
Bromoform	Not detected	ug/kg	100	SW8260C/5035A	09/30/14 17:08	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	60	SW8260C/5035A	09/30/14 17:08	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/kg	100	SW8260C/5035A	09/30/14 17:08	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/kg	100	SW8260C/5035A	09/30/14 17:08	WAT	103-65-1	
Bromobenzene	Not detected	ug/kg	100	SW8260C/5035A	09/30/14 17:08	WAT	108-86-1	
1,3,5-Trimethylbenzene	100	ug/kg	100	SW8260C/5035A	09/30/14 17:08	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/kg	60	SW8260C/5035A	09/30/14 17:08	WAT	98-06-6	
1,2,4-Trimethylbenzene	400	ug/kg	100	SW8260C/5035A	09/30/14 17:08	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/kg	60	SW8260C/5035A	09/30/14 17:08	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/kg	100	SW8260C/5035A	09/30/14 17:08	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/kg	100	SW8260C/5035A	09/30/14 17:08	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	100	SW8260C/5035A	09/30/14 17:08	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	100	SW8260C/5035A	09/30/14 17:08	WAT	95-50-1	
1,2,3-Trimethylbenzene	200	ug/kg	100	SW8260C/5035A	09/30/14 17:08	WAT	526-73-8	
n-Butylbenzene	100	ug/kg	60	SW8260C/5035A	09/30/14 17:08	WAT	104-51-8	
Hexachloroethane	Not detected	ug/kg	300	SW8260C/5035A	09/30/14 17:08	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	300	SW8260C/5035A	09/30/14 17:08	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	370	SW8260C/5035A	09/30/14 17:08	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/kg	370	SW8260C/5035A	09/30/14 17:08	WAT	87-61-6	
Naphthalene	Not detected	ug/kg	370	SW8260C/5035A	09/30/14 17:08	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/kg	370	SW8260C/5035A	09/30/14 17:08	WAT	91-57-6	

M-Result reported to MDL not RDL

Analytical Laboratory Report

Lab Sample ID: S62919.08
Sample Tag: B-60_092314_(18-20)
Collected Date/Time: 09/23/2014 14:00
Matrix: Soil
COC Reference: 87141

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	40ml Glass	MeOH	Yes	4.9	IR
1	4oz Glass	None	Yes	4.9	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Inorganics								
Total Solids	92	%	1	SM2540B	09/29/14 11:10	WAR		
Organics - Volatiles								
Volatile Organics 5035								
Diethyl ether	Not detected	ug/kg	200	SW8260C/5035A	09/29/14 20:56	WAT	60-29-7	
Acetone	Not detected	ug/kg	1,000	SW8260C/5035A	09/29/14 20:56	WAT	67-64-1	
Methyl iodide	Not detected	ug/kg	100	SW8260C/5035A	09/29/14 20:56	WAT	74-88-4	
Carbon disulfide	Not detected	ug/kg	300	SW8260C/5035A	09/29/14 20:56	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	200	SW8260C/5035A	09/29/14 20:56	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/kg	100	SW8260C/5035A	09/29/14 20:56	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/kg	890	SW8260C/5035A	09/29/14 20:56	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	300	SW8260C/5035A	09/29/14 20:56	WAT	75-71-8	
Chloromethane	Not detected	ug/kg	300	SW8260C/5035A	09/29/14 20:56	WAT	74-87-3	
Vinyl chloride	Not detected	ug/kg	60	SW8260C/5035A	09/29/14 20:56	WAT	75-01-4	
Bromomethane	Not detected	ug/kg	200	SW8260C/5035A	09/29/14 20:56	WAT	74-83-9	
Chloroethane	Not detected	ug/kg	300	SW8260C/5035A	09/29/14 20:56	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	100	SW8260C/5035A	09/29/14 20:56	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	60	SW8260C/5035A	09/29/14 20:56	WAT	75-35-4	
Methylene chloride	Not detected	ug/kg	100	SW8260C/5035A	09/29/14 20:56	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	60	SW8260C/5035A	09/29/14 20:56	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	60	SW8260C/5035A	09/29/14 20:56	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	60	SW8260C/5035A	09/29/14 20:56	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/kg	1,000	SW8260C/5035A	09/29/14 20:56	WAT	109-99-9	
Chloroform	Not detected	ug/kg	60	SW8260C/5035A	09/29/14 20:56	WAT	67-66-3	
Bromochloromethane	Not detected	ug/kg	100	SW8260C/5035A	09/29/14 20:56	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/kg	60	SW8260C/5035A	09/29/14 20:56	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	3,000	SW8260C/5035A	09/29/14 20:56	WAT	108-10-1	
2-Hexanone	Not detected	ug/kg	3,000	SW8260C/5035A	09/29/14 20:56	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	60	SW8260C/5035A	09/29/14 20:56	WAT	56-23-5	
Benzene	Not detected	ug/kg	60	SW8260C/5035A	09/29/14 20:56	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	60	SW8260C/5035A	09/29/14 20:56	WAT	107-06-2	
Trichloroethene	Not detected	ug/kg	60	SW8260C/5035A	09/29/14 20:56	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	60	SW8260C/5035A	09/29/14 20:56	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/kg	100	SW8260C/5035A	09/29/14 20:56	WAT	75-27-4	
Dibromomethane	Not detected	ug/kg	300	SW8260C/5035A	09/29/14 20:56	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/kg	60	SW8260C/5035A	09/29/14 20:56	WAT	10061-01-5	
Toluene	Not detected	ug/kg	100	SW8260C/5035A	09/29/14 20:56	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	60	SW8260C/5035A	09/29/14 20:56	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	60	SW8260C/5035A	09/29/14 20:56	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/kg	60	SW8260C/5035A	09/29/14 20:56	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/kg	60	SW8260C/5035A	09/29/14 20:56	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/kg	100	SW8260C/5035A	09/29/14 20:56	WAT	124-48-1	

Lab Sample ID: S62919.08 (continued)
Sample Tag: B-60_092314_(18-20)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics 5035 (continued)								
1,2-Dibromoethane	Not detected	ug/kg	20	SW8260C/5035A	09/29/14 20:56	WAT	106-93-4	M
Chlorobenzene	Not detected	ug/kg	60	SW8260C/5035A	09/29/14 20:56	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/kg	100	SW8260C/5035A	09/29/14 20:56	WAT	630-20-6	
Ethylbenzene	Not detected	ug/kg	60	SW8260C/5035A	09/29/14 20:56	WAT	100-41-4	
p,m-Xylene	Not detected	ug/kg	100	SW8260C/5035A	09/29/14 20:56	WAT		
o-Xylene	Not detected	ug/kg	60	SW8260C/5035A	09/29/14 20:56	WAT	95-47-6	
Styrene	Not detected	ug/kg	60	SW8260C/5035A	09/29/14 20:56	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/kg	300	SW8260C/5035A	09/29/14 20:56	WAT	98-82-8	
Bromoform	Not detected	ug/kg	100	SW8260C/5035A	09/29/14 20:56	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	60	SW8260C/5035A	09/29/14 20:56	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/kg	100	SW8260C/5035A	09/29/14 20:56	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/kg	100	SW8260C/5035A	09/29/14 20:56	WAT	103-65-1	
Bromobenzene	Not detected	ug/kg	100	SW8260C/5035A	09/29/14 20:56	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/kg	100	SW8260C/5035A	09/29/14 20:56	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/kg	60	SW8260C/5035A	09/29/14 20:56	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/kg	100	SW8260C/5035A	09/29/14 20:56	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/kg	60	SW8260C/5035A	09/29/14 20:56	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/kg	100	SW8260C/5035A	09/29/14 20:56	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/kg	100	SW8260C/5035A	09/29/14 20:56	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	100	SW8260C/5035A	09/29/14 20:56	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	100	SW8260C/5035A	09/29/14 20:56	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/kg	100	SW8260C/5035A	09/29/14 20:56	WAT	526-73-8	
n-Butylbenzene	Not detected	ug/kg	60	SW8260C/5035A	09/29/14 20:56	WAT	104-51-8	
Hexachloroethane	Not detected	ug/kg	400	SW8260C/5035A	09/29/14 20:56	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	300	SW8260C/5035A	09/29/14 20:56	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	390	SW8260C/5035A	09/29/14 20:56	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/kg	390	SW8260C/5035A	09/29/14 20:56	WAT	87-61-6	
Naphthalene	Not detected	ug/kg	390	SW8260C/5035A	09/29/14 20:56	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/kg	390	SW8260C/5035A	09/29/14 20:56	WAT	91-57-6	

M-Result reported to MDL not RDL

Analytical Laboratory Report

Lab Sample ID: S62919.09
Sample Tag: B-60_092314
Collected Date/Time: 09/23/2014 14:45
Matrix: Groundwater
COC Reference: 87141

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	4.9	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
pH check for VOCs	<2	STD Units		N/A	10/03/14 10:35	LBR		
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	500	SW8260C	10/03/14 20:22	WAT	60-29-7	Y
Acetone	Not detected	ug/L	2,500	SW8260C	10/03/14 20:22	WAT	67-64-1	Y
Methyl iodide	Not detected	ug/L	50	SW8260C	10/03/14 20:22	WAT	74-88-4	Y
Carbon disulfide	Not detected	ug/L	300	SW8260C	10/03/14 20:22	WAT	75-15-0	Y
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	300	SW8260C	10/03/14 20:22	WAT	1634-04-4	Y
Acrylonitrile	Not detected	ug/L	100	SW8260C	10/03/14 20:22	WAT	107-13-1	Y
2-Butanone (MEK)	Not detected	ug/L	1,300	SW8260C	10/03/14 20:22	WAT	78-93-3	Y
Dichlorodifluoromethane	Not detected	ug/L	300	SW8260C	10/03/14 20:22	WAT	75-71-8	Y
Chloromethane	Not detected	ug/L	300	SW8260C	10/03/14 20:22	WAT	74-87-3	Y
Vinyl chloride	Not detected	ug/L	50	SW8260C	10/03/14 20:22	WAT	75-01-4	Y
Bromomethane	Not detected	ug/L	300	SW8260C	10/03/14 20:22	WAT	74-83-9	Y
Chloroethane	Not detected	ug/L	300	SW8260C	10/03/14 20:22	WAT	75-00-3	Y
Trichlorofluoromethane	Not detected	ug/L	50	SW8260C	10/03/14 20:22	WAT	75-69-4	Y
1,1-Dichloroethene	Not detected	ug/L	50	SW8260C	10/03/14 20:22	WAT	75-35-4	Y
Methylene chloride	Not detected	ug/L	300	SW8260C	10/03/14 20:22	WAT	75-09-2	Y
trans-1,2-Dichloroethene	Not detected	ug/L	50	SW8260C	10/03/14 20:22	WAT	156-60-5	Y
1,1-Dichloroethane	Not detected	ug/L	50	SW8260C	10/03/14 20:22	WAT	75-34-3	Y
cis-1,2-Dichloroethene	Not detected	ug/L	50	SW8260C	10/03/14 20:22	WAT	156-59-2	Y
Tetrahydrofuran	Not detected	ug/L	4,500	SW8260C	10/03/14 20:22	WAT	109-99-9	Y
Chloroform	Not detected	ug/L	50	SW8260C	10/03/14 20:22	WAT	67-66-3	Y
Bromochloromethane	Not detected	ug/L	50	SW8260C	10/03/14 20:22	WAT	74-97-5	Y
1,1,1-Trichloroethane	Not detected	ug/L	50	SW8260C	10/03/14 20:22	WAT	71-55-6	Y
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	2,500	SW8260C	10/03/14 20:22	WAT	108-10-1	Y
2-Hexanone	Not detected	ug/L	2,500	SW8260C	10/03/14 20:22	WAT	591-78-6	Y
Carbon tetrachloride	Not detected	ug/L	50	SW8260C	10/03/14 20:22	WAT	56-23-5	Y
Benzene	3,600	ug/L	50	SW8260C	10/03/14 20:22	WAT	71-43-2	Y
1,2-Dichloroethane	Not detected	ug/L	50	SW8260C	10/03/14 20:22	WAT	107-06-2	Y
Trichloroethene	Not detected	ug/L	50	SW8260C	10/03/14 20:22	WAT	79-01-6	Y
1,2-Dichloropropane	Not detected	ug/L	50	SW8260C	10/03/14 20:22	WAT	78-87-5	Y
Bromodichloromethane	Not detected	ug/L	50	SW8260C	10/03/14 20:22	WAT	75-27-4	Y
Dibromomethane	Not detected	ug/L	300	SW8260C	10/03/14 20:22	WAT	74-95-3	Y
cis-1,3-Dichloropropene	Not detected	ug/L	50	SW8260C	10/03/14 20:22	WAT	10061-01-5	Y
Toluene	890	ug/L	50	SW8260C	10/03/14 20:22	WAT	108-88-3	Y
trans-1,3-Dichloropropene	Not detected	ug/L	50	SW8260C	10/03/14 20:22	WAT	10061-02-6	Y
1,1,2-Trichloroethane	Not detected	ug/L	50	SW8260C	10/03/14 20:22	WAT	79-00-5	Y
Tetrachloroethene	Not detected	ug/L	50	SW8260C	10/03/14 20:22	WAT	127-18-4	Y
trans-1,4-Dichloro-2-butene	Not detected	ug/L	50	SW8260C	10/03/14 20:22	WAT	110-57-6	Y
Dibromochloromethane	Not detected	ug/L	300	SW8260C	10/03/14 20:22	WAT	124-48-1	Y

Y-Elevated reporting limit due to high target concentration

Lab Sample ID: S62919.09 (continued)
Sample Tag: B-60_092314

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
1,2-Dibromoethane	Not detected	ug/L	50	SW8260C	10/03/14 20:22	WAT	106-93-4	Y
Chlorobenzene	Not detected	ug/L	50	SW8260C	10/03/14 20:22	WAT	108-90-7	Y
1,1,1,2-Tetrachloroethane	Not detected	ug/L	50	SW8260C	10/03/14 20:22	WAT	630-20-6	Y
Ethylbenzene	1,460	ug/L	50	SW8260C	10/03/14 20:22	WAT	100-41-4	Y
p,m-Xylene	4,600	ug/L	100	SW8260C	10/03/14 20:22	WAT		Y
o-Xylene	1,340	ug/L	50	SW8260C	10/03/14 20:22	WAT	95-47-6	Y
Styrene	Not detected	ug/L	50	SW8260C	10/03/14 20:22	WAT	100-42-5	Y
Isopropylbenzene	Not detected	ug/L	300	SW8260C	10/03/14 20:22	WAT	98-82-8	Y
Bromoform	Not detected	ug/L	50	SW8260C	10/03/14 20:22	WAT	75-25-2	Y
1,1,2,2-Tetrachloroethane	Not detected	ug/L	50	SW8260C	10/03/14 20:22	WAT	79-34-5	Y
1,2,3-Trichloropropane	Not detected	ug/L	50	SW8260C	10/03/14 20:22	WAT	96-18-4	Y
n-Propylbenzene	90	ug/L	50	SW8260C	10/03/14 20:22	WAT	103-65-1	Y
Bromobenzene	Not detected	ug/L	50	SW8260C	10/03/14 20:22	WAT	108-86-1	Y
1,3,5-Trimethylbenzene	150	ug/L	50	SW8260C	10/03/14 20:22	WAT	108-67-8	Y
tert-Butylbenzene	Not detected	ug/L	50	SW8260C	10/03/14 20:22	WAT	98-06-6	Y
1,2,4-Trimethylbenzene	540	ug/L	50	SW8260C	10/03/14 20:22	WAT	95-63-6	Y
sec-Butylbenzene	Not detected	ug/L	50	SW8260C	10/03/14 20:22	WAT	135-98-8	Y
p-Isopropyltoluene	Not detected	ug/L	300	SW8260C	10/03/14 20:22	WAT	99-87-6	Y
1,3-Dichlorobenzene	Not detected	ug/L	50	SW8260C	10/03/14 20:22	WAT	541-73-1	Y
1,4-Dichlorobenzene	Not detected	ug/L	50	SW8260C	10/03/14 20:22	WAT	106-46-7	Y
1,2-Dichlorobenzene	Not detected	ug/L	50	SW8260C	10/03/14 20:22	WAT	95-50-1	Y
1,2,3-Trimethylbenzene	170	ug/L	50	SW8260C	10/03/14 20:22	WAT	526-73-8	Y
n-Butylbenzene	Not detected	ug/L	50	SW8260C	10/03/14 20:22	WAT	104-51-8	Y
Hexachloroethane	Not detected	ug/L	300	SW8260C	10/03/14 20:22	WAT	67-72-1	Y
1,2-Dibromo-3-chloropropane	Not detected	ug/L	300	SW8260C	10/03/14 20:22	WAT	96-12-8	Y
1,2,4-Trichlorobenzene	Not detected	ug/L	300	SW8260C	10/03/14 20:22	WAT	120-82-1	Y
1,2,3-Trichlorobenzene	Not detected	ug/L	300	SW8260C	10/03/14 20:22	WAT	87-61-6	Y
Naphthalene	Not detected	ug/L	300	SW8260C	10/03/14 20:22	WAT	91-20-3	Y
2-Methylnaphthalene	Not detected	ug/L	300	SW8260C	10/03/14 20:22	WAT	91-57-6	Y

Y-Elevated reporting limit due to high target concentration

Analytical Laboratory Report

Lab Sample ID: S62919.10
Sample Tag: DUP-02_092314
Collected Date/Time: 09/23/2014 00:01
Matrix: Groundwater
COC Reference: 87141

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	4.9	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
pH check for VOCs	<2	STD Units		N/A	10/03/14 10:35	LBR		
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	500	SW8260C	10/03/14 20:43	WAT	60-29-7	Y
Acetone	Not detected	ug/L	2,500	SW8260C	10/03/14 20:43	WAT	67-64-1	Y
Methyl iodide	Not detected	ug/L	50	SW8260C	10/03/14 20:43	WAT	74-88-4	Y
Carbon disulfide	Not detected	ug/L	300	SW8260C	10/03/14 20:43	WAT	75-15-0	Y
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	300	SW8260C	10/03/14 20:43	WAT	1634-04-4	Y
Acrylonitrile	Not detected	ug/L	100	SW8260C	10/03/14 20:43	WAT	107-13-1	Y
2-Butanone (MEK)	Not detected	ug/L	1,300	SW8260C	10/03/14 20:43	WAT	78-93-3	Y
Dichlorodifluoromethane	Not detected	ug/L	300	SW8260C	10/03/14 20:43	WAT	75-71-8	Y
Chloromethane	Not detected	ug/L	300	SW8260C	10/03/14 20:43	WAT	74-87-3	Y
Vinyl chloride	Not detected	ug/L	50	SW8260C	10/03/14 20:43	WAT	75-01-4	Y
Bromomethane	Not detected	ug/L	300	SW8260C	10/03/14 20:43	WAT	74-83-9	Y
Chloroethane	Not detected	ug/L	300	SW8260C	10/03/14 20:43	WAT	75-00-3	Y
Trichlorofluoromethane	Not detected	ug/L	50	SW8260C	10/03/14 20:43	WAT	75-69-4	Y
1,1-Dichloroethene	Not detected	ug/L	50	SW8260C	10/03/14 20:43	WAT	75-35-4	Y
Methylene chloride	Not detected	ug/L	300	SW8260C	10/03/14 20:43	WAT	75-09-2	Y
trans-1,2-Dichloroethene	Not detected	ug/L	50	SW8260C	10/03/14 20:43	WAT	156-60-5	Y
1,1-Dichloroethane	Not detected	ug/L	50	SW8260C	10/03/14 20:43	WAT	75-34-3	Y
cis-1,2-Dichloroethene	Not detected	ug/L	50	SW8260C	10/03/14 20:43	WAT	156-59-2	Y
Tetrahydrofuran	Not detected	ug/L	4,500	SW8260C	10/03/14 20:43	WAT	109-99-9	Y
Chloroform	Not detected	ug/L	50	SW8260C	10/03/14 20:43	WAT	67-66-3	Y
Bromochloromethane	Not detected	ug/L	50	SW8260C	10/03/14 20:43	WAT	74-97-5	Y
1,1,1-Trichloroethane	Not detected	ug/L	50	SW8260C	10/03/14 20:43	WAT	71-55-6	Y
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	2,500	SW8260C	10/03/14 20:43	WAT	108-10-1	Y
2-Hexanone	Not detected	ug/L	2,500	SW8260C	10/03/14 20:43	WAT	591-78-6	Y
Carbon tetrachloride	Not detected	ug/L	50	SW8260C	10/03/14 20:43	WAT	56-23-5	Y
Benzene	3,930	ug/L	50	SW8260C	10/03/14 20:43	WAT	71-43-2	Y
1,2-Dichloroethane	Not detected	ug/L	50	SW8260C	10/03/14 20:43	WAT	107-06-2	Y
Trichloroethene	Not detected	ug/L	50	SW8260C	10/03/14 20:43	WAT	79-01-6	Y
1,2-Dichloropropane	Not detected	ug/L	50	SW8260C	10/03/14 20:43	WAT	78-87-5	Y
Bromodichloromethane	Not detected	ug/L	50	SW8260C	10/03/14 20:43	WAT	75-27-4	Y
Dibromomethane	Not detected	ug/L	300	SW8260C	10/03/14 20:43	WAT	74-95-3	Y
cis-1,3-Dichloropropene	Not detected	ug/L	50	SW8260C	10/03/14 20:43	WAT	10061-01-5	Y
Toluene	990	ug/L	50	SW8260C	10/03/14 20:43	WAT	108-88-3	Y
trans-1,3-Dichloropropene	Not detected	ug/L	50	SW8260C	10/03/14 20:43	WAT	10061-02-6	Y
1,1,2-Trichloroethane	Not detected	ug/L	50	SW8260C	10/03/14 20:43	WAT	79-00-5	Y
Tetrachloroethene	Not detected	ug/L	50	SW8260C	10/03/14 20:43	WAT	127-18-4	Y
trans-1,4-Dichloro-2-butene	Not detected	ug/L	50	SW8260C	10/03/14 20:43	WAT	110-57-6	Y
Dibromochloromethane	Not detected	ug/L	300	SW8260C	10/03/14 20:43	WAT	124-48-1	Y

Y-Elevated reporting limit due to high target concentration

Lab Sample ID: S62919.10 (continued)
Sample Tag: DUP-02_092314

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
1,2-Dibromoethane	Not detected	ug/L	50	SW8260C	10/03/14 20:43	WAT	106-93-4	Y
Chlorobenzene	Not detected	ug/L	50	SW8260C	10/03/14 20:43	WAT	108-90-7	Y
1,1,1,2-Tetrachloroethane	Not detected	ug/L	50	SW8260C	10/03/14 20:43	WAT	630-20-6	Y
Ethylbenzene	1,600	ug/L	50	SW8260C	10/03/14 20:43	WAT	100-41-4	Y
p,m-Xylene	5,100	ug/L	100	SW8260C	10/03/14 20:43	WAT		Y
o-Xylene	1,490	ug/L	50	SW8260C	10/03/14 20:43	WAT	95-47-6	Y
Styrene	Not detected	ug/L	50	SW8260C	10/03/14 20:43	WAT	100-42-5	Y
Isopropylbenzene	Not detected	ug/L	300	SW8260C	10/03/14 20:43	WAT	98-82-8	Y
Bromoform	Not detected	ug/L	50	SW8260C	10/03/14 20:43	WAT	75-25-2	Y
1,1,2,2-Tetrachloroethane	Not detected	ug/L	50	SW8260C	10/03/14 20:43	WAT	79-34-5	Y
1,2,3-Trichloropropane	Not detected	ug/L	50	SW8260C	10/03/14 20:43	WAT	96-18-4	Y
n-Propylbenzene	100	ug/L	50	SW8260C	10/03/14 20:43	WAT	103-65-1	Y
Bromobenzene	Not detected	ug/L	50	SW8260C	10/03/14 20:43	WAT	108-86-1	Y
1,3,5-Trimethylbenzene	170	ug/L	50	SW8260C	10/03/14 20:43	WAT	108-67-8	Y
tert-Butylbenzene	Not detected	ug/L	50	SW8260C	10/03/14 20:43	WAT	98-06-6	Y
1,2,4-Trimethylbenzene	600	ug/L	50	SW8260C	10/03/14 20:43	WAT	95-63-6	Y
sec-Butylbenzene	Not detected	ug/L	50	SW8260C	10/03/14 20:43	WAT	135-98-8	Y
p-Isopropyltoluene	Not detected	ug/L	300	SW8260C	10/03/14 20:43	WAT	99-87-6	Y
1,3-Dichlorobenzene	Not detected	ug/L	50	SW8260C	10/03/14 20:43	WAT	541-73-1	Y
1,4-Dichlorobenzene	Not detected	ug/L	50	SW8260C	10/03/14 20:43	WAT	106-46-7	Y
1,2-Dichlorobenzene	Not detected	ug/L	50	SW8260C	10/03/14 20:43	WAT	95-50-1	Y
1,2,3-Trimethylbenzene	190	ug/L	50	SW8260C	10/03/14 20:43	WAT	526-73-8	Y
n-Butylbenzene	Not detected	ug/L	50	SW8260C	10/03/14 20:43	WAT	104-51-8	Y
Hexachloroethane	Not detected	ug/L	300	SW8260C	10/03/14 20:43	WAT	67-72-1	Y
1,2-Dibromo-3-chloropropane	Not detected	ug/L	300	SW8260C	10/03/14 20:43	WAT	96-12-8	Y
1,2,4-Trichlorobenzene	Not detected	ug/L	300	SW8260C	10/03/14 20:43	WAT	120-82-1	Y
1,2,3-Trichlorobenzene	Not detected	ug/L	300	SW8260C	10/03/14 20:43	WAT	87-61-6	Y
Naphthalene	Not detected	ug/L	300	SW8260C	10/03/14 20:43	WAT	91-20-3	Y
2-Methylnaphthalene	Not detected	ug/L	300	SW8260C	10/03/14 20:43	WAT	91-57-6	Y

Y-Elevated reporting limit due to high target concentration

Lab Sample ID: S62919.11
Sample Tag: B-61_092314_(11-13)
Collected Date/Time: 09/23/2014 15:30
Matrix: Soil
COC Reference: 87141

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	40ml Glass	MeOH	Yes	4.9	IR
1	4oz Glass	None	Yes	4.9	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Inorganics								
Total Solids	90	%	1	SM2540B	09/29/14 11:10	WAR		
Organics - Volatiles								
Volatile Organics 5035								
Diethyl ether	Not detected	ug/kg	200	SW8260C/5035A	10/02/14 14:04	JGH	60-29-7	
Acetone	Not detected	ug/kg	1,000	SW8260C/5035A	10/02/14 14:04	JGH	67-64-1	
Methyl iodide	Not detected	ug/kg	100	SW8260C/5035A	10/02/14 14:04	JGH	74-88-4	
Carbon disulfide	Not detected	ug/kg	300	SW8260C/5035A	10/02/14 14:04	JGH	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	200	SW8260C/5035A	10/02/14 14:04	JGH	1634-04-4	
Acrylonitrile	Not detected	ug/kg	100	SW8260C/5035A	10/02/14 14:04	JGH	107-13-1	
2-Butanone (MEK)	Not detected	ug/kg	930	SW8260C/5035A	10/02/14 14:04	JGH	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	300	SW8260C/5035A	10/02/14 14:04	JGH	75-71-8	
Chloromethane	Not detected	ug/kg	300	SW8260C/5035A	10/02/14 14:04	JGH	74-87-3	
Vinyl chloride	Not detected	ug/kg	60	SW8260C/5035A	10/02/14 14:04	JGH	75-01-4	
Bromomethane	Not detected	ug/kg	200	SW8260C/5035A	10/02/14 14:04	JGH	74-83-9	
Chloroethane	Not detected	ug/kg	300	SW8260C/5035A	10/02/14 14:04	JGH	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	100	SW8260C/5035A	10/02/14 14:04	JGH	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	60	SW8260C/5035A	10/02/14 14:04	JGH	75-35-4	
Methylene chloride	Not detected	ug/kg	100	SW8260C/5035A	10/02/14 14:04	JGH	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	60	SW8260C/5035A	10/02/14 14:04	JGH	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	60	SW8260C/5035A	10/02/14 14:04	JGH	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	60	SW8260C/5035A	10/02/14 14:04	JGH	156-59-2	
Tetrahydrofuran	Not detected	ug/kg	1,000	SW8260C/5035A	10/02/14 14:04	JGH	109-99-9	
Chloroform	Not detected	ug/kg	60	SW8260C/5035A	10/02/14 14:04	JGH	67-66-3	
Bromochloromethane	Not detected	ug/kg	100	SW8260C/5035A	10/02/14 14:04	JGH	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/kg	60	SW8260C/5035A	10/02/14 14:04	JGH	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	3,000	SW8260C/5035A	10/02/14 14:04	JGH	108-10-1	
2-Hexanone	Not detected	ug/kg	3,000	SW8260C/5035A	10/02/14 14:04	JGH	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	60	SW8260C/5035A	10/02/14 14:04	JGH	56-23-5	
Benzene	4,200	ug/kg	60	SW8260C/5035A	10/02/14 14:04	JGH	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	60	SW8260C/5035A	10/02/14 14:04	JGH	107-06-2	
Trichloroethene	Not detected	ug/kg	60	SW8260C/5035A	10/02/14 14:04	JGH	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	60	SW8260C/5035A	10/02/14 14:04	JGH	78-87-5	
Bromodichloromethane	Not detected	ug/kg	100	SW8260C/5035A	10/02/14 14:04	JGH	75-27-4	
Dibromomethane	Not detected	ug/kg	300	SW8260C/5035A	10/02/14 14:04	JGH	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/kg	60	SW8260C/5035A	10/02/14 14:04	JGH	10061-01-5	
Toluene	Not detected	ug/kg	100	SW8260C/5035A	10/02/14 14:04	JGH	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	60	SW8260C/5035A	10/02/14 14:04	JGH	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	60	SW8260C/5035A	10/02/14 14:04	JGH	79-00-5	
Tetrachloroethene	Not detected	ug/kg	60	SW8260C/5035A	10/02/14 14:04	JGH	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/kg	60	SW8260C/5035A	10/02/14 14:04	JGH	110-57-6	
Dibromochloromethane	Not detected	ug/kg	100	SW8260C/5035A	10/02/14 14:04	JGH	124-48-1	

Lab Sample ID: S62919.11 (continued)
Sample Tag: B-61_092314_(11-13)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics 5035 (continued)								
1,2-Dibromoethane	Not detected	ug/kg	20	SW8260C/5035A	10/02/14 14:04	JGH	106-93-4	M
Chlorobenzene	Not detected	ug/kg	60	SW8260C/5035A	10/02/14 14:04	JGH	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/kg	100	SW8260C/5035A	10/02/14 14:04	JGH	630-20-6	
Ethylbenzene	Not detected	ug/kg	60	SW8260C/5035A	10/02/14 14:04	JGH	100-41-4	
p,m-Xylene	Not detected	ug/kg	100	SW8260C/5035A	10/02/14 14:04	JGH		
o-Xylene	Not detected	ug/kg	60	SW8260C/5035A	10/02/14 14:04	JGH	95-47-6	
Styrene	Not detected	ug/kg	60	SW8260C/5035A	10/02/14 14:04	JGH	100-42-5	
Isopropylbenzene	Not detected	ug/kg	300	SW8260C/5035A	10/02/14 14:04	JGH	98-82-8	
Bromoform	Not detected	ug/kg	100	SW8260C/5035A	10/02/14 14:04	JGH	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	60	SW8260C/5035A	10/02/14 14:04	JGH	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/kg	100	SW8260C/5035A	10/02/14 14:04	JGH	96-18-4	
n-Propylbenzene	Not detected	ug/kg	100	SW8260C/5035A	10/02/14 14:04	JGH	103-65-1	
Bromobenzene	Not detected	ug/kg	100	SW8260C/5035A	10/02/14 14:04	JGH	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/kg	100	SW8260C/5035A	10/02/14 14:04	JGH	108-67-8	
tert-Butylbenzene	Not detected	ug/kg	60	SW8260C/5035A	10/02/14 14:04	JGH	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/kg	100	SW8260C/5035A	10/02/14 14:04	JGH	95-63-6	
sec-Butylbenzene	Not detected	ug/kg	60	SW8260C/5035A	10/02/14 14:04	JGH	135-98-8	
p-Isopropyltoluene	Not detected	ug/kg	100	SW8260C/5035A	10/02/14 14:04	JGH	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/kg	100	SW8260C/5035A	10/02/14 14:04	JGH	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	100	SW8260C/5035A	10/02/14 14:04	JGH	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	100	SW8260C/5035A	10/02/14 14:04	JGH	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/kg	100	SW8260C/5035A	10/02/14 14:04	JGH	526-73-8	
n-Butylbenzene	Not detected	ug/kg	60	SW8260C/5035A	10/02/14 14:04	JGH	104-51-8	
Hexachloroethane	Not detected	ug/kg	400	SW8260C/5035A	10/02/14 14:04	JGH	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	300	SW8260C/5035A	10/02/14 14:04	JGH	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	410	SW8260C/5035A	10/02/14 14:04	JGH	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/kg	410	SW8260C/5035A	10/02/14 14:04	JGH	87-61-6	
Naphthalene	Not detected	ug/kg	410	SW8260C/5035A	10/02/14 14:04	JGH	91-20-3	
2-Methylnaphthalene	Not detected	ug/kg	410	SW8260C/5035A	10/02/14 14:04	JGH	91-57-6	

M-Result reported to MDL not RDL

Analytical Laboratory Report

Lab Sample ID: S62919.12
Sample Tag: B-61_092314_(11-13) MS
Collected Date/Time: 09/23/2014 15:30
Matrix: Soil
COC Reference: 87141

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	40ml Glass	MeOH	Yes	4.9	IR
1	4oz Glass	None	Yes	4.9	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Inorganics								
Total Solids	88	%	1	SM2540B	09/29/14 11:10	WAR		
Organics - Volatiles								
Volatile Organics 5035								
Diethyl ether	3,000	ug/kg	300	SW8260C/5035A	10/02/14 16:48	JGH	60-29-7	1
Acetone	3,000	ug/kg	1,000	SW8260C/5035A	10/02/14 16:48	JGH	67-64-1	1
Methyl iodide	3,100	ug/kg	100	SW8260C/5035A	10/02/14 16:48	JGH	74-88-4	1
Carbon disulfide	2,900	ug/kg	300	SW8260C/5035A	10/02/14 16:48	JGH	75-15-0	1
tert-Methyl butyl ether (MTBE)	3,100	ug/kg	300	SW8260C/5035A	10/02/14 16:48	JGH	1634-04-4	1
Acrylonitrile	3,000	ug/kg	100	SW8260C/5035A	10/02/14 16:48	JGH	107-13-1	1
2-Butanone (MEK)	2,650	ug/kg	970	SW8260C/5035A	10/02/14 16:48	JGH	78-93-3	1
Dichlorodifluoromethane	3,200	ug/kg	300	SW8260C/5035A	10/02/14 16:48	JGH	75-71-8	1
Chloromethane	3,000	ug/kg	300	SW8260C/5035A	10/02/14 16:48	JGH	74-87-3	1
Vinyl chloride	3,070	ug/kg	60	SW8260C/5035A	10/02/14 16:48	JGH	75-01-4	1
Bromomethane	3,100	ug/kg	300	SW8260C/5035A	10/02/14 16:48	JGH	74-83-9	1
Chloroethane	3,100	ug/kg	300	SW8260C/5035A	10/02/14 16:48	JGH	75-00-3	1
Trichlorofluoromethane	3,300	ug/kg	100	SW8260C/5035A	10/02/14 16:48	JGH	75-69-4	1
1,1-Dichloroethene	3,130	ug/kg	60	SW8260C/5035A	10/02/14 16:48	JGH	75-35-4	1
Methylene chloride	2,900	ug/kg	100	SW8260C/5035A	10/02/14 16:48	JGH	75-09-2	1
trans-1,2-Dichloroethene	3,120	ug/kg	60	SW8260C/5035A	10/02/14 16:48	JGH	156-60-5	1
1,1-Dichloroethane	3,070	ug/kg	60	SW8260C/5035A	10/02/14 16:48	JGH	75-34-3	1
cis-1,2-Dichloroethene	3,080	ug/kg	60	SW8260C/5035A	10/02/14 16:48	JGH	156-59-2	1
Tetrahydrofuran	3,000	ug/kg	1,000	SW8260C/5035A	10/02/14 16:48	JGH	109-99-9	1
Chloroform	3,120	ug/kg	60	SW8260C/5035A	10/02/14 16:48	JGH	67-66-3	1
Bromochloromethane	3,100	ug/kg	100	SW8260C/5035A	10/02/14 16:48	JGH	74-97-5	1
1,1,1-Trichloroethane	3,110	ug/kg	60	SW8260C/5035A	10/02/14 16:48	JGH	71-55-6	1
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	3,000	SW8260C/5035A	10/02/14 16:48	JGH	108-10-1	1
2-Hexanone	Not detected	ug/kg	3,000	SW8260C/5035A	10/02/14 16:48	JGH	591-78-6	1
Carbon tetrachloride	3,220	ug/kg	60	SW8260C/5035A	10/02/14 16:48	JGH	56-23-5	1
Benzene	8,860	ug/kg	60	SW8260C/5035A	10/02/14 16:48	JGH	71-43-2	1
1,2-Dichloroethane	3,250	ug/kg	60	SW8260C/5035A	10/02/14 16:48	JGH	107-06-2	1
Trichloroethene	3,250	ug/kg	60	SW8260C/5035A	10/02/14 16:48	JGH	79-01-6	1
1,2-Dichloropropane	3,180	ug/kg	60	SW8260C/5035A	10/02/14 16:48	JGH	78-87-5	1
Bromodichloromethane	3,100	ug/kg	100	SW8260C/5035A	10/02/14 16:48	JGH	75-27-4	1
Dibromomethane	3,300	ug/kg	300	SW8260C/5035A	10/02/14 16:48	JGH	74-95-3	1
cis-1,3-Dichloropropene	3,070	ug/kg	60	SW8260C/5035A	10/02/14 16:48	JGH	10061-01-5	1
Toluene	3,200	ug/kg	100	SW8260C/5035A	10/02/14 16:48	JGH	108-88-3	1
trans-1,3-Dichloropropene	3,090	ug/kg	60	SW8260C/5035A	10/02/14 16:48	JGH	10061-02-6	1
1,1,2-Trichloroethane	3,210	ug/kg	60	SW8260C/5035A	10/02/14 16:48	JGH	79-00-5	1
Tetrachloroethene	3,300	ug/kg	60	SW8260C/5035A	10/02/14 16:48	JGH	127-18-4	1
trans-1,4-Dichloro-2-butene	3,510	ug/kg	60	SW8260C/5035A	10/02/14 16:48	JGH	110-57-6	1

1-Spiked at 3.23mg/kg

Lab Sample ID: S62919.12 (continued)
Sample Tag: B-61_092314_(11-13) MS

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics 5035 (continued)								
Dibromochloromethane	3,200	ug/kg	100	SW8260C/5035A	10/02/14 16:48	JGH	124-48-1	1
1,2-Dibromoethane	3,400	ug/kg	30	SW8260C/5035A	10/02/14 16:48	JGH	106-93-4	M1
Chlorobenzene	3,260	ug/kg	60	SW8260C/5035A	10/02/14 16:48	JGH	108-90-7	1
1,1,1,2-Tetrachloroethane	3,200	ug/kg	100	SW8260C/5035A	10/02/14 16:48	JGH	630-20-6	1
Ethylbenzene	3,270	ug/kg	60	SW8260C/5035A	10/02/14 16:48	JGH	100-41-4	1
p,m-Xylene	6,700	ug/kg	100	SW8260C/5035A	10/02/14 16:48	JGH		1
o-Xylene	3,260	ug/kg	60	SW8260C/5035A	10/02/14 16:48	JGH	95-47-6	1
Styrene	3,380	ug/kg	60	SW8260C/5035A	10/02/14 16:48	JGH	100-42-5	1
Isopropylbenzene	3,300	ug/kg	300	SW8260C/5035A	10/02/14 16:48	JGH	98-82-8	1
Bromoform	3,100	ug/kg	100	SW8260C/5035A	10/02/14 16:48	JGH	75-25-2	1
1,1,2,2-Tetrachloroethane	3,360	ug/kg	60	SW8260C/5035A	10/02/14 16:48	JGH	79-34-5	1
1,2,3-Trichloropropane	3,300	ug/kg	100	SW8260C/5035A	10/02/14 16:48	JGH	96-18-4	1
n-Propylbenzene	3,400	ug/kg	100	SW8260C/5035A	10/02/14 16:48	JGH	103-65-1	1
Bromobenzene	3,300	ug/kg	100	SW8260C/5035A	10/02/14 16:48	JGH	108-86-1	1
1,3,5-Trimethylbenzene	3,300	ug/kg	100	SW8260C/5035A	10/02/14 16:48	JGH	108-67-8	1
tert-Butylbenzene	3,320	ug/kg	60	SW8260C/5035A	10/02/14 16:48	JGH	98-06-6	1
1,2,4-Trimethylbenzene	3,400	ug/kg	100	SW8260C/5035A	10/02/14 16:48	JGH	95-63-6	1
sec-Butylbenzene	3,290	ug/kg	60	SW8260C/5035A	10/02/14 16:48	JGH	135-98-8	1
p-Isopropyltoluene	3,300	ug/kg	100	SW8260C/5035A	10/02/14 16:48	JGH	99-87-6	1
1,3-Dichlorobenzene	3,200	ug/kg	100	SW8260C/5035A	10/02/14 16:48	JGH	541-73-1	1
1,4-Dichlorobenzene	3,200	ug/kg	100	SW8260C/5035A	10/02/14 16:48	JGH	106-46-7	1
1,2-Dichlorobenzene	3,100	ug/kg	100	SW8260C/5035A	10/02/14 16:48	JGH	95-50-1	1
1,2,3-Trimethylbenzene	3,200	ug/kg	100	SW8260C/5035A	10/02/14 16:48	JGH	526-73-8	1
n-Butylbenzene	3,330	ug/kg	60	SW8260C/5035A	10/02/14 16:48	JGH	104-51-8	1
Hexachloroethane	3,200	ug/kg	400	SW8260C/5035A	10/02/14 16:48	JGH	67-72-1	1
1,2-Dibromo-3-chloropropane	3,000	ug/kg	300	SW8260C/5035A	10/02/14 16:48	JGH	96-12-8	1
1,2,4-Trichlorobenzene	3,340	ug/kg	430	SW8260C/5035A	10/02/14 16:48	JGH	120-82-1	1
1,2,3-Trichlorobenzene	3,290	ug/kg	430	SW8260C/5035A	10/02/14 16:48	JGH	87-61-6	1
Naphthalene	3,270	ug/kg	430	SW8260C/5035A	10/02/14 16:48	JGH	91-20-3	1
2-Methylnaphthalene	3,680	ug/kg	430	SW8260C/5035A	10/02/14 16:48	JGH	91-57-6	1

1-Spiked at 3.23mg/kg
M-Result reported to MDL not RDL

Analytical Laboratory Report

Lab Sample ID: S62919.13
Sample Tag: B-61_092314_(11-13) MSD
Collected Date/Time: 09/23/2014 15:30
Matrix: Soil
COC Reference: 87141

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	40ml Glass	MeOH	Yes	4.9	IR
1	4oz Glass	None	Yes	4.9	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Inorganics								
Total Solids	90	%	1	SM2540B	09/29/14 11:10	WAR		
Organics - Volatiles								
Volatile Organics 5035								
Diethyl ether	3,100	ug/kg	200	SW8260C/5035A	10/02/14 17:07	JGH	60-29-7	1
Acetone	3,000	ug/kg	1,000	SW8260C/5035A	10/02/14 17:07	JGH	67-64-1	1
Methyl iodide	3,200	ug/kg	100	SW8260C/5035A	10/02/14 17:07	JGH	74-88-4	1
Carbon disulfide	3,000	ug/kg	300	SW8260C/5035A	10/02/14 17:07	JGH	75-15-0	1
tert-Methyl butyl ether (MTBE)	3,300	ug/kg	200	SW8260C/5035A	10/02/14 17:07	JGH	1634-04-4	1
Acrylonitrile	3,100	ug/kg	100	SW8260C/5035A	10/02/14 17:07	JGH	107-13-1	1
2-Butanone (MEK)	2,750	ug/kg	910	SW8260C/5035A	10/02/14 17:07	JGH	78-93-3	1
Dichlorodifluoromethane	3,300	ug/kg	300	SW8260C/5035A	10/02/14 17:07	JGH	75-71-8	1
Chloromethane	3,100	ug/kg	300	SW8260C/5035A	10/02/14 17:07	JGH	74-87-3	1
Vinyl chloride	3,120	ug/kg	60	SW8260C/5035A	10/02/14 17:07	JGH	75-01-4	1
Bromomethane	3,200	ug/kg	200	SW8260C/5035A	10/02/14 17:07	JGH	74-83-9	1
Chloroethane	3,200	ug/kg	300	SW8260C/5035A	10/02/14 17:07	JGH	75-00-3	1
Trichlorofluoromethane	3,400	ug/kg	100	SW8260C/5035A	10/02/14 17:07	JGH	75-69-4	1
1,1-Dichloroethene	3,200	ug/kg	60	SW8260C/5035A	10/02/14 17:07	JGH	75-35-4	1
Methylene chloride	3,000	ug/kg	100	SW8260C/5035A	10/02/14 17:07	JGH	75-09-2	1
trans-1,2-Dichloroethene	3,160	ug/kg	60	SW8260C/5035A	10/02/14 17:07	JGH	156-60-5	1
1,1-Dichloroethane	3,110	ug/kg	60	SW8260C/5035A	10/02/14 17:07	JGH	75-34-3	1
cis-1,2-Dichloroethene	3,160	ug/kg	60	SW8260C/5035A	10/02/14 17:07	JGH	156-59-2	1
Tetrahydrofuran	3,000	ug/kg	1,000	SW8260C/5035A	10/02/14 17:07	JGH	109-99-9	1
Chloroform	3,170	ug/kg	60	SW8260C/5035A	10/02/14 17:07	JGH	67-66-3	1
Bromochloromethane	3,200	ug/kg	100	SW8260C/5035A	10/02/14 17:07	JGH	74-97-5	1
1,1,1-Trichloroethane	3,240	ug/kg	60	SW8260C/5035A	10/02/14 17:07	JGH	71-55-6	1
4-Methyl-2-pentanone (MIBK)	3,000	ug/kg	3,000	SW8260C/5035A	10/02/14 17:07	JGH	108-10-1	1
2-Hexanone	3,000	ug/kg	3,000	SW8260C/5035A	10/02/14 17:07	JGH	591-78-6	1
Carbon tetrachloride	3,320	ug/kg	60	SW8260C/5035A	10/02/14 17:07	JGH	56-23-5	1
Benzene	8,540	ug/kg	60	SW8260C/5035A	10/02/14 17:07	JGH	71-43-2	1
1,2-Dichloroethane	3,290	ug/kg	60	SW8260C/5035A	10/02/14 17:07	JGH	107-06-2	1
Trichloroethene	3,270	ug/kg	60	SW8260C/5035A	10/02/14 17:07	JGH	79-01-6	1
1,2-Dichloropropane	3,210	ug/kg	60	SW8260C/5035A	10/02/14 17:07	JGH	78-87-5	1
Bromodichloromethane	3,100	ug/kg	100	SW8260C/5035A	10/02/14 17:07	JGH	75-27-4	1
Dibromomethane	3,400	ug/kg	300	SW8260C/5035A	10/02/14 17:07	JGH	74-95-3	1
cis-1,3-Dichloropropene	3,150	ug/kg	60	SW8260C/5035A	10/02/14 17:07	JGH	10061-01-5	1
Toluene	3,200	ug/kg	100	SW8260C/5035A	10/02/14 17:07	JGH	108-88-3	1
trans-1,3-Dichloropropene	3,170	ug/kg	60	SW8260C/5035A	10/02/14 17:07	JGH	10061-02-6	1
1,1,2-Trichloroethane	3,310	ug/kg	60	SW8260C/5035A	10/02/14 17:07	JGH	79-00-5	1
Tetrachloroethene	3,370	ug/kg	60	SW8260C/5035A	10/02/14 17:07	JGH	127-18-4	1
trans-1,4-Dichloro-2-butene	3,690	ug/kg	60	SW8260C/5035A	10/02/14 17:07	JGH	110-57-6	1

1-Spiked at 3.23mg/kg

Lab Sample ID: S62919.13 (continued)
Sample Tag: B-61_092314_(11-13) MSD

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics 5035 (continued)								
Dibromochloromethane	3,200	ug/kg	100	SW8260C/5035A	10/02/14 17:07	JGH	124-48-1	1
1,2-Dibromoethane	3,500	ug/kg	20	SW8260C/5035A	10/02/14 17:07	JGH	106-93-4	M1
Chlorobenzene	3,230	ug/kg	60	SW8260C/5035A	10/02/14 17:07	JGH	108-90-7	1
1,1,1,2-Tetrachloroethane	3,300	ug/kg	100	SW8260C/5035A	10/02/14 17:07	JGH	630-20-6	1
Ethylbenzene	3,350	ug/kg	60	SW8260C/5035A	10/02/14 17:07	JGH	100-41-4	1
p,m-Xylene	6,800	ug/kg	100	SW8260C/5035A	10/02/14 17:07	JGH		1
o-Xylene	3,270	ug/kg	60	SW8260C/5035A	10/02/14 17:07	JGH	95-47-6	1
Styrene	3,370	ug/kg	60	SW8260C/5035A	10/02/14 17:07	JGH	100-42-5	1
Isopropylbenzene	3,300	ug/kg	300	SW8260C/5035A	10/02/14 17:07	JGH	98-82-8	1
Bromoform	3,200	ug/kg	100	SW8260C/5035A	10/02/14 17:07	JGH	75-25-2	1
1,1,2,2-Tetrachloroethane	3,420	ug/kg	60	SW8260C/5035A	10/02/14 17:07	JGH	79-34-5	1
1,2,3-Trichloropropane	3,300	ug/kg	100	SW8260C/5035A	10/02/14 17:07	JGH	96-18-4	1
n-Propylbenzene	3,300	ug/kg	100	SW8260C/5035A	10/02/14 17:07	JGH	103-65-1	1
Bromobenzene	3,300	ug/kg	100	SW8260C/5035A	10/02/14 17:07	JGH	108-86-1	1
1,3,5-Trimethylbenzene	3,300	ug/kg	100	SW8260C/5035A	10/02/14 17:07	JGH	108-67-8	1
tert-Butylbenzene	3,320	ug/kg	60	SW8260C/5035A	10/02/14 17:07	JGH	98-06-6	1
1,2,4-Trimethylbenzene	3,300	ug/kg	100	SW8260C/5035A	10/02/14 17:07	JGH	95-63-6	1
sec-Butylbenzene	3,400	ug/kg	60	SW8260C/5035A	10/02/14 17:07	JGH	135-98-8	1
p-Isopropyltoluene	3,400	ug/kg	100	SW8260C/5035A	10/02/14 17:07	JGH	99-87-6	1
1,3-Dichlorobenzene	3,300	ug/kg	100	SW8260C/5035A	10/02/14 17:07	JGH	541-73-1	1
1,4-Dichlorobenzene	3,200	ug/kg	100	SW8260C/5035A	10/02/14 17:07	JGH	106-46-7	1
1,2-Dichlorobenzene	3,200	ug/kg	100	SW8260C/5035A	10/02/14 17:07	JGH	95-50-1	1
1,2,3-Trimethylbenzene	3,300	ug/kg	100	SW8260C/5035A	10/02/14 17:07	JGH	526-73-8	1
n-Butylbenzene	3,350	ug/kg	60	SW8260C/5035A	10/02/14 17:07	JGH	104-51-8	1
Hexachloroethane	3,300	ug/kg	400	SW8260C/5035A	10/02/14 17:07	JGH	67-72-1	1
1,2-Dibromo-3-chloropropane	3,200	ug/kg	300	SW8260C/5035A	10/02/14 17:07	JGH	96-12-8	1
1,2,4-Trichlorobenzene	3,210	ug/kg	400	SW8260C/5035A	10/02/14 17:07	JGH	120-82-1	1
1,2,3-Trichlorobenzene	3,170	ug/kg	400	SW8260C/5035A	10/02/14 17:07	JGH	87-61-6	1
Naphthalene	3,220	ug/kg	400	SW8260C/5035A	10/02/14 17:07	JGH	91-20-3	1
2-Methylnaphthalene	3,490	ug/kg	400	SW8260C/5035A	10/02/14 17:07	JGH	91-57-6	1

1-Spiked at 3.23mg/kg
M-Result reported to MDL not RDL

Analytical Laboratory Report

Lab Sample ID: S62919.14
Sample Tag: B-63_092314_(11-12)
Collected Date/Time: 09/23/2014 16:10
Matrix: Soil
COC Reference: 87141

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	40ml Glass	MeOH	Yes	4.9	IR
1	4oz Glass	None	Yes	4.9	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Inorganics								
Total Solids	90	%	1	SM2540B	09/29/14 11:10	WAR		
Organics - Volatiles								
Volatile Organics 5035								
Diethyl ether	Not detected	ug/kg	200	SW8260C/5035A	10/02/14 14:24	JGH	60-29-7	
Acetone	Not detected	ug/kg	1,000	SW8260C/5035A	10/02/14 14:24	JGH	67-64-1	
Methyl iodide	Not detected	ug/kg	100	SW8260C/5035A	10/02/14 14:24	JGH	74-88-4	
Carbon disulfide	Not detected	ug/kg	300	SW8260C/5035A	10/02/14 14:24	JGH	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	200	SW8260C/5035A	10/02/14 14:24	JGH	1634-04-4	
Acrylonitrile	Not detected	ug/kg	100	SW8260C/5035A	10/02/14 14:24	JGH	107-13-1	
2-Butanone (MEK)	Not detected	ug/kg	920	SW8260C/5035A	10/02/14 14:24	JGH	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	300	SW8260C/5035A	10/02/14 14:24	JGH	75-71-8	
Chloromethane	Not detected	ug/kg	300	SW8260C/5035A	10/02/14 14:24	JGH	74-87-3	
Vinyl chloride	Not detected	ug/kg	60	SW8260C/5035A	10/02/14 14:24	JGH	75-01-4	
Bromomethane	Not detected	ug/kg	200	SW8260C/5035A	10/02/14 14:24	JGH	74-83-9	
Chloroethane	Not detected	ug/kg	300	SW8260C/5035A	10/02/14 14:24	JGH	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	100	SW8260C/5035A	10/02/14 14:24	JGH	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	60	SW8260C/5035A	10/02/14 14:24	JGH	75-35-4	
Methylene chloride	Not detected	ug/kg	100	SW8260C/5035A	10/02/14 14:24	JGH	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	60	SW8260C/5035A	10/02/14 14:24	JGH	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	60	SW8260C/5035A	10/02/14 14:24	JGH	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	60	SW8260C/5035A	10/02/14 14:24	JGH	156-59-2	
Tetrahydrofuran	Not detected	ug/kg	1,000	SW8260C/5035A	10/02/14 14:24	JGH	109-99-9	
Chloroform	Not detected	ug/kg	60	SW8260C/5035A	10/02/14 14:24	JGH	67-66-3	
Bromochloromethane	Not detected	ug/kg	100	SW8260C/5035A	10/02/14 14:24	JGH	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/kg	60	SW8260C/5035A	10/02/14 14:24	JGH	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	3,000	SW8260C/5035A	10/02/14 14:24	JGH	108-10-1	
2-Hexanone	Not detected	ug/kg	3,000	SW8260C/5035A	10/02/14 14:24	JGH	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	60	SW8260C/5035A	10/02/14 14:24	JGH	56-23-5	
Benzene	Not detected	ug/kg	60	SW8260C/5035A	10/02/14 14:24	JGH	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	60	SW8260C/5035A	10/02/14 14:24	JGH	107-06-2	
Trichloroethene	Not detected	ug/kg	60	SW8260C/5035A	10/02/14 14:24	JGH	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	60	SW8260C/5035A	10/02/14 14:24	JGH	78-87-5	
Bromodichloromethane	Not detected	ug/kg	100	SW8260C/5035A	10/02/14 14:24	JGH	75-27-4	
Dibromomethane	Not detected	ug/kg	300	SW8260C/5035A	10/02/14 14:24	JGH	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/kg	60	SW8260C/5035A	10/02/14 14:24	JGH	10061-01-5	
Toluene	Not detected	ug/kg	100	SW8260C/5035A	10/02/14 14:24	JGH	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	60	SW8260C/5035A	10/02/14 14:24	JGH	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	60	SW8260C/5035A	10/02/14 14:24	JGH	79-00-5	
Tetrachloroethene	Not detected	ug/kg	60	SW8260C/5035A	10/02/14 14:24	JGH	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/kg	60	SW8260C/5035A	10/02/14 14:24	JGH	110-57-6	
Dibromochloromethane	Not detected	ug/kg	100	SW8260C/5035A	10/02/14 14:24	JGH	124-48-1	

Lab Sample ID: S62919.14 (continued)
Sample Tag: B-63_092314_(11-12)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics 5035 (continued)								
1,2-Dibromoethane	Not detected	ug/kg	20	SW8260C/5035A	10/02/14 14:24	JGH	106-93-4	M
Chlorobenzene	Not detected	ug/kg	60	SW8260C/5035A	10/02/14 14:24	JGH	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/kg	100	SW8260C/5035A	10/02/14 14:24	JGH	630-20-6	
Ethylbenzene	Not detected	ug/kg	60	SW8260C/5035A	10/02/14 14:24	JGH	100-41-4	
p,m-Xylene	Not detected	ug/kg	100	SW8260C/5035A	10/02/14 14:24	JGH		
o-Xylene	Not detected	ug/kg	60	SW8260C/5035A	10/02/14 14:24	JGH	95-47-6	
Styrene	Not detected	ug/kg	60	SW8260C/5035A	10/02/14 14:24	JGH	100-42-5	
Isopropylbenzene	Not detected	ug/kg	300	SW8260C/5035A	10/02/14 14:24	JGH	98-82-8	
Bromoform	Not detected	ug/kg	100	SW8260C/5035A	10/02/14 14:24	JGH	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	60	SW8260C/5035A	10/02/14 14:24	JGH	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/kg	100	SW8260C/5035A	10/02/14 14:24	JGH	96-18-4	
n-Propylbenzene	Not detected	ug/kg	100	SW8260C/5035A	10/02/14 14:24	JGH	103-65-1	
Bromobenzene	Not detected	ug/kg	100	SW8260C/5035A	10/02/14 14:24	JGH	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/kg	100	SW8260C/5035A	10/02/14 14:24	JGH	108-67-8	
tert-Butylbenzene	Not detected	ug/kg	60	SW8260C/5035A	10/02/14 14:24	JGH	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/kg	100	SW8260C/5035A	10/02/14 14:24	JGH	95-63-6	
sec-Butylbenzene	Not detected	ug/kg	60	SW8260C/5035A	10/02/14 14:24	JGH	135-98-8	
p-Isopropyltoluene	Not detected	ug/kg	100	SW8260C/5035A	10/02/14 14:24	JGH	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/kg	100	SW8260C/5035A	10/02/14 14:24	JGH	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	100	SW8260C/5035A	10/02/14 14:24	JGH	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	100	SW8260C/5035A	10/02/14 14:24	JGH	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/kg	100	SW8260C/5035A	10/02/14 14:24	JGH	526-73-8	
n-Butylbenzene	Not detected	ug/kg	60	SW8260C/5035A	10/02/14 14:24	JGH	104-51-8	
Hexachloroethane	Not detected	ug/kg	400	SW8260C/5035A	10/02/14 14:24	JGH	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	300	SW8260C/5035A	10/02/14 14:24	JGH	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	410	SW8260C/5035A	10/02/14 14:24	JGH	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/kg	410	SW8260C/5035A	10/02/14 14:24	JGH	87-61-6	
Naphthalene	Not detected	ug/kg	410	SW8260C/5035A	10/02/14 14:24	JGH	91-20-3	
2-Methylnaphthalene	Not detected	ug/kg	410	SW8260C/5035A	10/02/14 14:24	JGH	91-57-6	

M-Result reported to MDL not RDL

Analytical Laboratory Report

Lab Sample ID: S62919.15
Sample Tag: Trip_blank
Collected Date/Time: 09/23/2014 00:01
Matrix: Water
COC Reference: 87138

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	40ml Glass	HCL	Yes	4.9	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
pH check for VOCs	<2	STD Units		N/A	10/03/14 10:35	LBR		
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	10	SW8260C	10/03/14 16:41	WAT	60-29-7	
Acetone	Not detected	ug/L	50	SW8260C	10/03/14 16:41	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	SW8260C	10/03/14 16:41	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	SW8260C	10/03/14 16:41	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW8260C	10/03/14 16:41	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	SW8260C	10/03/14 16:41	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	SW8260C	10/03/14 16:41	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW8260C	10/03/14 16:41	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	SW8260C	10/03/14 16:41	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW8260C	10/03/14 16:41	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	SW8260C	10/03/14 16:41	WAT	74-83-9	
Chloroethane	Not detected	ug/L	5	SW8260C	10/03/14 16:41	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260C	10/03/14 16:41	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260C	10/03/14 16:41	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	SW8260C	10/03/14 16:41	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260C	10/03/14 16:41	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260C	10/03/14 16:41	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260C	10/03/14 16:41	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	SW8260C	10/03/14 16:41	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	SW8260C	10/03/14 16:41	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	SW8260C	10/03/14 16:41	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260C	10/03/14 16:41	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW8260C	10/03/14 16:41	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	SW8260C	10/03/14 16:41	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW8260C	10/03/14 16:41	WAT	56-23-5	
Benzene	Not detected	ug/L	1	SW8260C	10/03/14 16:41	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260C	10/03/14 16:41	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW8260C	10/03/14 16:41	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260C	10/03/14 16:41	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW8260C	10/03/14 16:41	WAT	75-27-4	
Dibromomethane	Not detected	ug/L	5	SW8260C	10/03/14 16:41	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260C	10/03/14 16:41	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	SW8260C	10/03/14 16:41	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260C	10/03/14 16:41	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260C	10/03/14 16:41	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW8260C	10/03/14 16:41	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW8260C	10/03/14 16:41	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	SW8260C	10/03/14 16:41	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260C	10/03/14 16:41	WAT	106-93-4	

Lab Sample ID: S62919.15 (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	SW8260C	10/03/14 16:41	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW8260C	10/03/14 16:41	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	SW8260C	10/03/14 16:41	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	SW8260C	10/03/14 16:41	WAT		
o-Xylene	Not detected	ug/L	1	SW8260C	10/03/14 16:41	WAT	95-47-6	
Styrene	Not detected	ug/L	1	SW8260C	10/03/14 16:41	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	SW8260C	10/03/14 16:41	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	SW8260C	10/03/14 16:41	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260C	10/03/14 16:41	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	SW8260C	10/03/14 16:41	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	SW8260C	10/03/14 16:41	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	SW8260C	10/03/14 16:41	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW8260C	10/03/14 16:41	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	SW8260C	10/03/14 16:41	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW8260C	10/03/14 16:41	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	SW8260C	10/03/14 16:41	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	SW8260C	10/03/14 16:41	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260C	10/03/14 16:41	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260C	10/03/14 16:41	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260C	10/03/14 16:41	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW8260C	10/03/14 16:41	WAT	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	SW8260C	10/03/14 16:41	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	SW8260C	10/03/14 16:41	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW8260C	10/03/14 16:41	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW8260C	10/03/14 16:41	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW8260C	10/03/14 16:41	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	SW8260C	10/03/14 16:41	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	SW8260C	10/03/14 16:41	WAT	91-57-6	

Lab Sample ID: S62919.16
Sample Tag: B-62_092414_(12-13)
Collected Date/Time: 09/24/2014 09:25
Matrix: Soil
COC Reference: 87139

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	40ml Glass	MeOH	Yes	4.9	IR
1	4oz Glass	None	Yes	4.9	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Inorganics								
Total Solids	78	%	1	SM2540B	09/29/14 11:10	WAR		
Organics - Volatiles								
Volatile Organics 5035								
Diethyl ether	Not detected	ug/kg	300	SW8260C/5035A	10/02/14 14:44	JGH	60-29-7	
Acetone	Not detected	ug/kg	2,000	SW8260C/5035A	10/02/14 14:44	JGH	67-64-1	
Methyl iodide	Not detected	ug/kg	200	SW8260C/5035A	10/02/14 14:44	JGH	74-88-4	
Carbon disulfide	Not detected	ug/kg	400	SW8260C/5035A	10/02/14 14:44	JGH	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	300	SW8260C/5035A	10/02/14 14:44	JGH	1634-04-4	
Acrylonitrile	Not detected	ug/kg	200	SW8260C/5035A	10/02/14 14:44	JGH	107-13-1	
2-Butanone (MEK)	Not detected	ug/kg	1,100	SW8260C/5035A	10/02/14 14:44	JGH	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	400	SW8260C/5035A	10/02/14 14:44	JGH	75-71-8	
Chloromethane	Not detected	ug/kg	400	SW8260C/5035A	10/02/14 14:44	JGH	74-87-3	
Vinyl chloride	Not detected	ug/kg	80	SW8260C/5035A	10/02/14 14:44	JGH	75-01-4	
Bromomethane	Not detected	ug/kg	300	SW8260C/5035A	10/02/14 14:44	JGH	74-83-9	
Chloroethane	Not detected	ug/kg	400	SW8260C/5035A	10/02/14 14:44	JGH	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	200	SW8260C/5035A	10/02/14 14:44	JGH	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	80	SW8260C/5035A	10/02/14 14:44	JGH	75-35-4	
Methylene chloride	Not detected	ug/kg	200	SW8260C/5035A	10/02/14 14:44	JGH	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	80	SW8260C/5035A	10/02/14 14:44	JGH	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	80	SW8260C/5035A	10/02/14 14:44	JGH	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	80	SW8260C/5035A	10/02/14 14:44	JGH	156-59-2	
Tetrahydrofuran	Not detected	ug/kg	2,000	SW8260C/5035A	10/02/14 14:44	JGH	109-99-9	
Chloroform	Not detected	ug/kg	80	SW8260C/5035A	10/02/14 14:44	JGH	67-66-3	
Bromochloromethane	Not detected	ug/kg	200	SW8260C/5035A	10/02/14 14:44	JGH	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/kg	80	SW8260C/5035A	10/02/14 14:44	JGH	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	4,000	SW8260C/5035A	10/02/14 14:44	JGH	108-10-1	
2-Hexanone	Not detected	ug/kg	4,000	SW8260C/5035A	10/02/14 14:44	JGH	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	80	SW8260C/5035A	10/02/14 14:44	JGH	56-23-5	
Benzene	Not detected	ug/kg	80	SW8260C/5035A	10/02/14 14:44	JGH	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	80	SW8260C/5035A	10/02/14 14:44	JGH	107-06-2	
Trichloroethene	100	ug/kg	80	SW8260C/5035A	10/02/14 14:44	JGH	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	80	SW8260C/5035A	10/02/14 14:44	JGH	78-87-5	
Bromodichloromethane	Not detected	ug/kg	200	SW8260C/5035A	10/02/14 14:44	JGH	75-27-4	
Dibromomethane	Not detected	ug/kg	400	SW8260C/5035A	10/02/14 14:44	JGH	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/kg	80	SW8260C/5035A	10/02/14 14:44	JGH	10061-01-5	
Toluene	Not detected	ug/kg	200	SW8260C/5035A	10/02/14 14:44	JGH	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	80	SW8260C/5035A	10/02/14 14:44	JGH	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	80	SW8260C/5035A	10/02/14 14:44	JGH	79-00-5	
Tetrachloroethene	Not detected	ug/kg	80	SW8260C/5035A	10/02/14 14:44	JGH	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/kg	80	SW8260C/5035A	10/02/14 14:44	JGH	110-57-6	
Dibromochloromethane	Not detected	ug/kg	200	SW8260C/5035A	10/02/14 14:44	JGH	124-48-1	

Lab Sample ID: S62919.16 (continued)
Sample Tag: B-62_092414_(12-13)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics 5035 (continued)								
1,2-Dibromoethane	Not detected	ug/kg	30	SW8260C/5035A	10/02/14 14:44	JGH	106-93-4	M
Chlorobenzene	Not detected	ug/kg	80	SW8260C/5035A	10/02/14 14:44	JGH	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/kg	200	SW8260C/5035A	10/02/14 14:44	JGH	630-20-6	
Ethylbenzene	Not detected	ug/kg	80	SW8260C/5035A	10/02/14 14:44	JGH	100-41-4	
p,m-Xylene	Not detected	ug/kg	200	SW8260C/5035A	10/02/14 14:44	JGH		
o-Xylene	Not detected	ug/kg	80	SW8260C/5035A	10/02/14 14:44	JGH	95-47-6	
Styrene	Not detected	ug/kg	80	SW8260C/5035A	10/02/14 14:44	JGH	100-42-5	
Isopropylbenzene	Not detected	ug/kg	400	SW8260C/5035A	10/02/14 14:44	JGH	98-82-8	
Bromoform	Not detected	ug/kg	200	SW8260C/5035A	10/02/14 14:44	JGH	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	80	SW8260C/5035A	10/02/14 14:44	JGH	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/kg	200	SW8260C/5035A	10/02/14 14:44	JGH	96-18-4	
n-Propylbenzene	Not detected	ug/kg	200	SW8260C/5035A	10/02/14 14:44	JGH	103-65-1	
Bromobenzene	Not detected	ug/kg	200	SW8260C/5035A	10/02/14 14:44	JGH	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/kg	200	SW8260C/5035A	10/02/14 14:44	JGH	108-67-8	
tert-Butylbenzene	Not detected	ug/kg	80	SW8260C/5035A	10/02/14 14:44	JGH	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/kg	200	SW8260C/5035A	10/02/14 14:44	JGH	95-63-6	
sec-Butylbenzene	Not detected	ug/kg	80	SW8260C/5035A	10/02/14 14:44	JGH	135-98-8	
p-Isopropyltoluene	Not detected	ug/kg	200	SW8260C/5035A	10/02/14 14:44	JGH	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/kg	200	SW8260C/5035A	10/02/14 14:44	JGH	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	200	SW8260C/5035A	10/02/14 14:44	JGH	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	200	SW8260C/5035A	10/02/14 14:44	JGH	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/kg	200	SW8260C/5035A	10/02/14 14:44	JGH	526-73-8	
n-Butylbenzene	Not detected	ug/kg	80	SW8260C/5035A	10/02/14 14:44	JGH	104-51-8	
Hexachloroethane	Not detected	ug/kg	500	SW8260C/5035A	10/02/14 14:44	JGH	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	400	SW8260C/5035A	10/02/14 14:44	JGH	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	500	SW8260C/5035A	10/02/14 14:44	JGH	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/kg	500	SW8260C/5035A	10/02/14 14:44	JGH	87-61-6	
Naphthalene	Not detected	ug/kg	500	SW8260C/5035A	10/02/14 14:44	JGH	91-20-3	
2-Methylnaphthalene	Not detected	ug/kg	500	SW8260C/5035A	10/02/14 14:44	JGH	91-57-6	

M-Result reported to MDL not RDL

Analytical Laboratory Report

Lab Sample ID: S62919.17
Sample Tag: B-62_092414_(7-9)
Collected Date/Time: 09/24/2014 09:45
Matrix: Soil
COC Reference: 87139

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	40ml Glass	MeOH	Yes	4.9	IR
1	4oz Glass	None	Yes	4.9	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Inorganics								
Total Solids	83	%	1	SM2540B	09/29/14 11:10	WAR		
Organics - Volatiles								
Volatile Organics 5035								
Diethyl ether	Not detected	ug/kg	300	SW8260C/5035A	10/02/14 15:05	JGH	60-29-7	
Acetone	Not detected	ug/kg	1,000	SW8260C/5035A	10/02/14 15:05	JGH	67-64-1	
Methyl iodide	Not detected	ug/kg	100	SW8260C/5035A	10/02/14 15:05	JGH	74-88-4	
Carbon disulfide	Not detected	ug/kg	300	SW8260C/5035A	10/02/14 15:05	JGH	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	300	SW8260C/5035A	10/02/14 15:05	JGH	1634-04-4	
Acrylonitrile	Not detected	ug/kg	100	SW8260C/5035A	10/02/14 15:05	JGH	107-13-1	
2-Butanone (MEK)	Not detected	ug/kg	1,000	SW8260C/5035A	10/02/14 15:05	JGH	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	300	SW8260C/5035A	10/02/14 15:05	JGH	75-71-8	
Chloromethane	Not detected	ug/kg	300	SW8260C/5035A	10/02/14 15:05	JGH	74-87-3	
Vinyl chloride	Not detected	ug/kg	70	SW8260C/5035A	10/02/14 15:05	JGH	75-01-4	
Bromomethane	Not detected	ug/kg	300	SW8260C/5035A	10/02/14 15:05	JGH	74-83-9	
Chloroethane	Not detected	ug/kg	300	SW8260C/5035A	10/02/14 15:05	JGH	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	100	SW8260C/5035A	10/02/14 15:05	JGH	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	70	SW8260C/5035A	10/02/14 15:05	JGH	75-35-4	
Methylene chloride	Not detected	ug/kg	100	SW8260C/5035A	10/02/14 15:05	JGH	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	70	SW8260C/5035A	10/02/14 15:05	JGH	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	70	SW8260C/5035A	10/02/14 15:05	JGH	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	70	SW8260C/5035A	10/02/14 15:05	JGH	156-59-2	
Tetrahydrofuran	Not detected	ug/kg	1,000	SW8260C/5035A	10/02/14 15:05	JGH	109-99-9	
Chloroform	Not detected	ug/kg	70	SW8260C/5035A	10/02/14 15:05	JGH	67-66-3	
Bromochloromethane	Not detected	ug/kg	100	SW8260C/5035A	10/02/14 15:05	JGH	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/kg	70	SW8260C/5035A	10/02/14 15:05	JGH	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	3,000	SW8260C/5035A	10/02/14 15:05	JGH	108-10-1	
2-Hexanone	Not detected	ug/kg	3,000	SW8260C/5035A	10/02/14 15:05	JGH	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	70	SW8260C/5035A	10/02/14 15:05	JGH	56-23-5	
Benzene	Not detected	ug/kg	70	SW8260C/5035A	10/02/14 15:05	JGH	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	70	SW8260C/5035A	10/02/14 15:05	JGH	107-06-2	
Trichloroethene	Not detected	ug/kg	70	SW8260C/5035A	10/02/14 15:05	JGH	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	70	SW8260C/5035A	10/02/14 15:05	JGH	78-87-5	
Bromodichloromethane	Not detected	ug/kg	100	SW8260C/5035A	10/02/14 15:05	JGH	75-27-4	
Dibromomethane	Not detected	ug/kg	300	SW8260C/5035A	10/02/14 15:05	JGH	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/kg	70	SW8260C/5035A	10/02/14 15:05	JGH	10061-01-5	
Toluene	Not detected	ug/kg	100	SW8260C/5035A	10/02/14 15:05	JGH	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	70	SW8260C/5035A	10/02/14 15:05	JGH	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	70	SW8260C/5035A	10/02/14 15:05	JGH	79-00-5	
Tetrachloroethene	Not detected	ug/kg	70	SW8260C/5035A	10/02/14 15:05	JGH	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/kg	70	SW8260C/5035A	10/02/14 15:05	JGH	110-57-6	
Dibromochloromethane	Not detected	ug/kg	100	SW8260C/5035A	10/02/14 15:05	JGH	124-48-1	

Lab Sample ID: S62919.17 (continued)
Sample Tag: B-62_092414_(7-9)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics 5035 (continued)								
1,2-Dibromoethane	Not detected	ug/kg	30	SW8260C/5035A	10/02/14 15:05	JGH	106-93-4	M
Chlorobenzene	Not detected	ug/kg	70	SW8260C/5035A	10/02/14 15:05	JGH	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/kg	100	SW8260C/5035A	10/02/14 15:05	JGH	630-20-6	
Ethylbenzene	Not detected	ug/kg	70	SW8260C/5035A	10/02/14 15:05	JGH	100-41-4	
p,m-Xylene	Not detected	ug/kg	100	SW8260C/5035A	10/02/14 15:05	JGH		
o-Xylene	Not detected	ug/kg	70	SW8260C/5035A	10/02/14 15:05	JGH	95-47-6	
Styrene	Not detected	ug/kg	70	SW8260C/5035A	10/02/14 15:05	JGH	100-42-5	
Isopropylbenzene	Not detected	ug/kg	300	SW8260C/5035A	10/02/14 15:05	JGH	98-82-8	
Bromoform	Not detected	ug/kg	100	SW8260C/5035A	10/02/14 15:05	JGH	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	70	SW8260C/5035A	10/02/14 15:05	JGH	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/kg	100	SW8260C/5035A	10/02/14 15:05	JGH	96-18-4	
n-Propylbenzene	Not detected	ug/kg	100	SW8260C/5035A	10/02/14 15:05	JGH	103-65-1	
Bromobenzene	Not detected	ug/kg	100	SW8260C/5035A	10/02/14 15:05	JGH	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/kg	100	SW8260C/5035A	10/02/14 15:05	JGH	108-67-8	
tert-Butylbenzene	Not detected	ug/kg	70	SW8260C/5035A	10/02/14 15:05	JGH	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/kg	100	SW8260C/5035A	10/02/14 15:05	JGH	95-63-6	
sec-Butylbenzene	Not detected	ug/kg	70	SW8260C/5035A	10/02/14 15:05	JGH	135-98-8	
p-Isopropyltoluene	Not detected	ug/kg	100	SW8260C/5035A	10/02/14 15:05	JGH	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/kg	100	SW8260C/5035A	10/02/14 15:05	JGH	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	100	SW8260C/5035A	10/02/14 15:05	JGH	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	100	SW8260C/5035A	10/02/14 15:05	JGH	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/kg	100	SW8260C/5035A	10/02/14 15:05	JGH	526-73-8	
n-Butylbenzene	Not detected	ug/kg	70	SW8260C/5035A	10/02/14 15:05	JGH	104-51-8	
Hexachloroethane	Not detected	ug/kg	400	SW8260C/5035A	10/02/14 15:05	JGH	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	300	SW8260C/5035A	10/02/14 15:05	JGH	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	450	SW8260C/5035A	10/02/14 15:05	JGH	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/kg	450	SW8260C/5035A	10/02/14 15:05	JGH	87-61-6	
Naphthalene	Not detected	ug/kg	450	SW8260C/5035A	10/02/14 15:05	JGH	91-20-3	
2-Methylnaphthalene	Not detected	ug/kg	450	SW8260C/5035A	10/02/14 15:05	JGH	91-57-6	

M-Result reported to MDL not RDL

Analytical Laboratory Report

Lab Sample ID: S62919.18
Sample Tag: B-62_092414_(17.5-19.5)
Collected Date/Time: 09/24/2014 09:50
Matrix: Soil
COC Reference: 87139

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	40ml Glass	MeOH	Yes	4.9	IR
1	4oz Glass	None	Yes	4.9	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Inorganics								
Total Solids	89	%	1	SM2540B	09/29/14 11:10	WAR		
Organics - Volatiles								
Volatile Organics 5035								
Diethyl ether	Not detected	ug/kg	200	SW8260C/5035A	10/02/14 15:25	JGH	60-29-7	
Acetone	Not detected	ug/kg	1,000	SW8260C/5035A	10/02/14 15:25	JGH	67-64-1	
Methyl iodide	Not detected	ug/kg	100	SW8260C/5035A	10/02/14 15:25	JGH	74-88-4	
Carbon disulfide	Not detected	ug/kg	300	SW8260C/5035A	10/02/14 15:25	JGH	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	200	SW8260C/5035A	10/02/14 15:25	JGH	1634-04-4	
Acrylonitrile	Not detected	ug/kg	100	SW8260C/5035A	10/02/14 15:25	JGH	107-13-1	
2-Butanone (MEK)	Not detected	ug/kg	930	SW8260C/5035A	10/02/14 15:25	JGH	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	300	SW8260C/5035A	10/02/14 15:25	JGH	75-71-8	
Chloromethane	Not detected	ug/kg	300	SW8260C/5035A	10/02/14 15:25	JGH	74-87-3	
Vinyl chloride	Not detected	ug/kg	60	SW8260C/5035A	10/02/14 15:25	JGH	75-01-4	
Bromomethane	Not detected	ug/kg	200	SW8260C/5035A	10/02/14 15:25	JGH	74-83-9	
Chloroethane	Not detected	ug/kg	300	SW8260C/5035A	10/02/14 15:25	JGH	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	100	SW8260C/5035A	10/02/14 15:25	JGH	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	60	SW8260C/5035A	10/02/14 15:25	JGH	75-35-4	
Methylene chloride	Not detected	ug/kg	100	SW8260C/5035A	10/02/14 15:25	JGH	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	60	SW8260C/5035A	10/02/14 15:25	JGH	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	60	SW8260C/5035A	10/02/14 15:25	JGH	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	60	SW8260C/5035A	10/02/14 15:25	JGH	156-59-2	
Tetrahydrofuran	Not detected	ug/kg	1,000	SW8260C/5035A	10/02/14 15:25	JGH	109-99-9	
Chloroform	Not detected	ug/kg	60	SW8260C/5035A	10/02/14 15:25	JGH	67-66-3	
Bromochloromethane	Not detected	ug/kg	100	SW8260C/5035A	10/02/14 15:25	JGH	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/kg	60	SW8260C/5035A	10/02/14 15:25	JGH	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	3,000	SW8260C/5035A	10/02/14 15:25	JGH	108-10-1	
2-Hexanone	Not detected	ug/kg	3,000	SW8260C/5035A	10/02/14 15:25	JGH	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	60	SW8260C/5035A	10/02/14 15:25	JGH	56-23-5	
Benzene	90	ug/kg	60	SW8260C/5035A	10/02/14 15:25	JGH	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	60	SW8260C/5035A	10/02/14 15:25	JGH	107-06-2	
Trichloroethene	Not detected	ug/kg	60	SW8260C/5035A	10/02/14 15:25	JGH	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	60	SW8260C/5035A	10/02/14 15:25	JGH	78-87-5	
Bromodichloromethane	Not detected	ug/kg	100	SW8260C/5035A	10/02/14 15:25	JGH	75-27-4	
Dibromomethane	Not detected	ug/kg	300	SW8260C/5035A	10/02/14 15:25	JGH	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/kg	60	SW8260C/5035A	10/02/14 15:25	JGH	10061-01-5	
Toluene	Not detected	ug/kg	100	SW8260C/5035A	10/02/14 15:25	JGH	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	60	SW8260C/5035A	10/02/14 15:25	JGH	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	60	SW8260C/5035A	10/02/14 15:25	JGH	79-00-5	
Tetrachloroethene	Not detected	ug/kg	60	SW8260C/5035A	10/02/14 15:25	JGH	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/kg	60	SW8260C/5035A	10/02/14 15:25	JGH	110-57-6	
Dibromochloromethane	Not detected	ug/kg	100	SW8260C/5035A	10/02/14 15:25	JGH	124-48-1	

Lab Sample ID: S62919.18 (continued)
Sample Tag: B-62_092414_(17.5-19.5)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics 5035 (continued)								
1,2-Dibromoethane	Not detected	ug/kg	20	SW8260C/5035A	10/02/14 15:25	JGH	106-93-4	M
Chlorobenzene	Not detected	ug/kg	60	SW8260C/5035A	10/02/14 15:25	JGH	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/kg	100	SW8260C/5035A	10/02/14 15:25	JGH	630-20-6	
Ethylbenzene	Not detected	ug/kg	60	SW8260C/5035A	10/02/14 15:25	JGH	100-41-4	
p,m-Xylene	Not detected	ug/kg	100	SW8260C/5035A	10/02/14 15:25	JGH		
o-Xylene	Not detected	ug/kg	60	SW8260C/5035A	10/02/14 15:25	JGH	95-47-6	
Styrene	Not detected	ug/kg	60	SW8260C/5035A	10/02/14 15:25	JGH	100-42-5	
Isopropylbenzene	Not detected	ug/kg	300	SW8260C/5035A	10/02/14 15:25	JGH	98-82-8	
Bromoform	Not detected	ug/kg	100	SW8260C/5035A	10/02/14 15:25	JGH	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	60	SW8260C/5035A	10/02/14 15:25	JGH	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/kg	100	SW8260C/5035A	10/02/14 15:25	JGH	96-18-4	
n-Propylbenzene	Not detected	ug/kg	100	SW8260C/5035A	10/02/14 15:25	JGH	103-65-1	
Bromobenzene	Not detected	ug/kg	100	SW8260C/5035A	10/02/14 15:25	JGH	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/kg	100	SW8260C/5035A	10/02/14 15:25	JGH	108-67-8	
tert-Butylbenzene	Not detected	ug/kg	60	SW8260C/5035A	10/02/14 15:25	JGH	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/kg	100	SW8260C/5035A	10/02/14 15:25	JGH	95-63-6	
sec-Butylbenzene	Not detected	ug/kg	60	SW8260C/5035A	10/02/14 15:25	JGH	135-98-8	
p-Isopropyltoluene	Not detected	ug/kg	100	SW8260C/5035A	10/02/14 15:25	JGH	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/kg	100	SW8260C/5035A	10/02/14 15:25	JGH	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	100	SW8260C/5035A	10/02/14 15:25	JGH	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	100	SW8260C/5035A	10/02/14 15:25	JGH	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/kg	100	SW8260C/5035A	10/02/14 15:25	JGH	526-73-8	
n-Butylbenzene	Not detected	ug/kg	60	SW8260C/5035A	10/02/14 15:25	JGH	104-51-8	
Hexachloroethane	Not detected	ug/kg	400	SW8260C/5035A	10/02/14 15:25	JGH	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	300	SW8260C/5035A	10/02/14 15:25	JGH	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	410	SW8260C/5035A	10/02/14 15:25	JGH	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/kg	410	SW8260C/5035A	10/02/14 15:25	JGH	87-61-6	
Naphthalene	Not detected	ug/kg	410	SW8260C/5035A	10/02/14 15:25	JGH	91-20-3	
2-Methylnaphthalene	Not detected	ug/kg	410	SW8260C/5035A	10/02/14 15:25	JGH	91-57-6	

M-Result reported to MDL not RDL

Analytical Laboratory Report

Lab Sample ID: S62919.19
Sample Tag: DUP-01_092414
Collected Date/Time: 09/24/2014 00:01
Matrix: Soil
COC Reference: 87139

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	40ml Glass	MeOH	Yes	4.9	IR
1	4oz Glass	None	Yes	4.9	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Inorganics								
Total Solids	89	%	1	SM2540B	09/29/14 11:10	WAR		
Organics - Volatiles								
Volatile Organics 5035								
Diethyl ether	Not detected	ug/kg	300	SW8260C/5035A	10/02/14 15:46	JGH	60-29-7	
Acetone	Not detected	ug/kg	1,000	SW8260C/5035A	10/02/14 15:46	JGH	67-64-1	
Methyl iodide	Not detected	ug/kg	100	SW8260C/5035A	10/02/14 15:46	JGH	74-88-4	
Carbon disulfide	Not detected	ug/kg	300	SW8260C/5035A	10/02/14 15:46	JGH	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	300	SW8260C/5035A	10/02/14 15:46	JGH	1634-04-4	
Acrylonitrile	Not detected	ug/kg	100	SW8260C/5035A	10/02/14 15:46	JGH	107-13-1	
2-Butanone (MEK)	Not detected	ug/kg	950	SW8260C/5035A	10/02/14 15:46	JGH	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	300	SW8260C/5035A	10/02/14 15:46	JGH	75-71-8	
Chloromethane	Not detected	ug/kg	300	SW8260C/5035A	10/02/14 15:46	JGH	74-87-3	
Vinyl chloride	Not detected	ug/kg	60	SW8260C/5035A	10/02/14 15:46	JGH	75-01-4	
Bromomethane	Not detected	ug/kg	300	SW8260C/5035A	10/02/14 15:46	JGH	74-83-9	
Chloroethane	Not detected	ug/kg	300	SW8260C/5035A	10/02/14 15:46	JGH	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	100	SW8260C/5035A	10/02/14 15:46	JGH	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	60	SW8260C/5035A	10/02/14 15:46	JGH	75-35-4	
Methylene chloride	Not detected	ug/kg	100	SW8260C/5035A	10/02/14 15:46	JGH	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	60	SW8260C/5035A	10/02/14 15:46	JGH	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	60	SW8260C/5035A	10/02/14 15:46	JGH	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	60	SW8260C/5035A	10/02/14 15:46	JGH	156-59-2	
Tetrahydrofuran	Not detected	ug/kg	1,000	SW8260C/5035A	10/02/14 15:46	JGH	109-99-9	
Chloroform	Not detected	ug/kg	60	SW8260C/5035A	10/02/14 15:46	JGH	67-66-3	
Bromochloromethane	Not detected	ug/kg	100	SW8260C/5035A	10/02/14 15:46	JGH	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/kg	60	SW8260C/5035A	10/02/14 15:46	JGH	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	3,000	SW8260C/5035A	10/02/14 15:46	JGH	108-10-1	
2-Hexanone	Not detected	ug/kg	3,000	SW8260C/5035A	10/02/14 15:46	JGH	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	60	SW8260C/5035A	10/02/14 15:46	JGH	56-23-5	
Benzene	180	ug/kg	60	SW8260C/5035A	10/02/14 15:46	JGH	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	60	SW8260C/5035A	10/02/14 15:46	JGH	107-06-2	
Trichloroethene	Not detected	ug/kg	60	SW8260C/5035A	10/02/14 15:46	JGH	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	60	SW8260C/5035A	10/02/14 15:46	JGH	78-87-5	
Bromodichloromethane	Not detected	ug/kg	100	SW8260C/5035A	10/02/14 15:46	JGH	75-27-4	
Dibromomethane	Not detected	ug/kg	300	SW8260C/5035A	10/02/14 15:46	JGH	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/kg	60	SW8260C/5035A	10/02/14 15:46	JGH	10061-01-5	
Toluene	Not detected	ug/kg	100	SW8260C/5035A	10/02/14 15:46	JGH	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	60	SW8260C/5035A	10/02/14 15:46	JGH	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	60	SW8260C/5035A	10/02/14 15:46	JGH	79-00-5	
Tetrachloroethene	Not detected	ug/kg	60	SW8260C/5035A	10/02/14 15:46	JGH	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/kg	60	SW8260C/5035A	10/02/14 15:46	JGH	110-57-6	
Dibromochloromethane	Not detected	ug/kg	100	SW8260C/5035A	10/02/14 15:46	JGH	124-48-1	

Lab Sample ID: S62919.19 (continued)
Sample Tag: DUP-01_092414

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics 5035 (continued)								
1,2-Dibromoethane	Not detected	ug/kg	30	SW8260C/5035A	10/02/14 15:46	JGH	106-93-4	M
Chlorobenzene	Not detected	ug/kg	60	SW8260C/5035A	10/02/14 15:46	JGH	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/kg	100	SW8260C/5035A	10/02/14 15:46	JGH	630-20-6	
Ethylbenzene	Not detected	ug/kg	60	SW8260C/5035A	10/02/14 15:46	JGH	100-41-4	
p,m-Xylene	Not detected	ug/kg	100	SW8260C/5035A	10/02/14 15:46	JGH		
o-Xylene	Not detected	ug/kg	60	SW8260C/5035A	10/02/14 15:46	JGH	95-47-6	
Styrene	Not detected	ug/kg	60	SW8260C/5035A	10/02/14 15:46	JGH	100-42-5	
Isopropylbenzene	Not detected	ug/kg	300	SW8260C/5035A	10/02/14 15:46	JGH	98-82-8	
Bromoform	Not detected	ug/kg	100	SW8260C/5035A	10/02/14 15:46	JGH	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	60	SW8260C/5035A	10/02/14 15:46	JGH	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/kg	100	SW8260C/5035A	10/02/14 15:46	JGH	96-18-4	
n-Propylbenzene	Not detected	ug/kg	100	SW8260C/5035A	10/02/14 15:46	JGH	103-65-1	
Bromobenzene	Not detected	ug/kg	100	SW8260C/5035A	10/02/14 15:46	JGH	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/kg	100	SW8260C/5035A	10/02/14 15:46	JGH	108-67-8	
tert-Butylbenzene	Not detected	ug/kg	60	SW8260C/5035A	10/02/14 15:46	JGH	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/kg	100	SW8260C/5035A	10/02/14 15:46	JGH	95-63-6	
sec-Butylbenzene	Not detected	ug/kg	60	SW8260C/5035A	10/02/14 15:46	JGH	135-98-8	
p-Isopropyltoluene	Not detected	ug/kg	100	SW8260C/5035A	10/02/14 15:46	JGH	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/kg	100	SW8260C/5035A	10/02/14 15:46	JGH	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	100	SW8260C/5035A	10/02/14 15:46	JGH	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	100	SW8260C/5035A	10/02/14 15:46	JGH	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/kg	100	SW8260C/5035A	10/02/14 15:46	JGH	526-73-8	
n-Butylbenzene	Not detected	ug/kg	60	SW8260C/5035A	10/02/14 15:46	JGH	104-51-8	
Hexachloroethane	Not detected	ug/kg	400	SW8260C/5035A	10/02/14 15:46	JGH	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	300	SW8260C/5035A	10/02/14 15:46	JGH	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	420	SW8260C/5035A	10/02/14 15:46	JGH	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/kg	420	SW8260C/5035A	10/02/14 15:46	JGH	87-61-6	
Naphthalene	Not detected	ug/kg	420	SW8260C/5035A	10/02/14 15:46	JGH	91-20-3	
2-Methylnaphthalene	Not detected	ug/kg	420	SW8260C/5035A	10/02/14 15:46	JGH	91-57-6	

M-Result reported to MDL not RDL

Analytical Laboratory Report

Lab Sample ID: S62919.20
Sample Tag: B-62_092414
Collected Date/Time: 09/24/2014 10:40
Matrix: Groundwater
COC Reference: 87139

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	4.9	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
pH check for VOCs	<2	STD Units		N/A	10/03/14 10:35	LBR		
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	20	SW8260C	10/03/14 19:38	WAT	60-29-7	Y
Acetone	Not detected	ug/L	100	SW8260C	10/03/14 19:38	WAT	67-64-1	Y
Methyl iodide	Not detected	ug/L	2	SW8260C	10/03/14 19:38	WAT	74-88-4	Y
Carbon disulfide	Not detected	ug/L	10	SW8260C	10/03/14 19:38	WAT	75-15-0	Y
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	10	SW8260C	10/03/14 19:38	WAT	1634-04-4	Y
Acrylonitrile	Not detected	ug/L	4	SW8260C	10/03/14 19:38	WAT	107-13-1	Y
2-Butanone (MEK)	Not detected	ug/L	50	SW8260C	10/03/14 19:38	WAT	78-93-3	Y
Dichlorodifluoromethane	Not detected	ug/L	10	SW8260C	10/03/14 19:38	WAT	75-71-8	Y
Chloromethane	Not detected	ug/L	10	SW8260C	10/03/14 19:38	WAT	74-87-3	Y
Vinyl chloride	Not detected	ug/L	2	SW8260C	10/03/14 19:38	WAT	75-01-4	Y
Bromomethane	Not detected	ug/L	10	SW8260C	10/03/14 19:38	WAT	74-83-9	Y
Chloroethane	Not detected	ug/L	10	SW8260C	10/03/14 19:38	WAT	75-00-3	Y
Trichlorofluoromethane	Not detected	ug/L	2	SW8260C	10/03/14 19:38	WAT	75-69-4	Y
1,1-Dichloroethene	Not detected	ug/L	2	SW8260C	10/03/14 19:38	WAT	75-35-4	Y
Methylene chloride	Not detected	ug/L	10	SW8260C	10/03/14 19:38	WAT	75-09-2	Y
trans-1,2-Dichloroethene	Not detected	ug/L	2	SW8260C	10/03/14 19:38	WAT	156-60-5	Y
1,1-Dichloroethane	Not detected	ug/L	2	SW8260C	10/03/14 19:38	WAT	75-34-3	Y
cis-1,2-Dichloroethene	Not detected	ug/L	2	SW8260C	10/03/14 19:38	WAT	156-59-2	Y
Tetrahydrofuran	Not detected	ug/L	180	SW8260C	10/03/14 19:38	WAT	109-99-9	Y
Chloroform	Not detected	ug/L	2	SW8260C	10/03/14 19:38	WAT	67-66-3	Y
Bromochloromethane	Not detected	ug/L	2	SW8260C	10/03/14 19:38	WAT	74-97-5	Y
1,1,1-Trichloroethane	Not detected	ug/L	2	SW8260C	10/03/14 19:38	WAT	71-55-6	Y
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	100	SW8260C	10/03/14 19:38	WAT	108-10-1	Y
2-Hexanone	Not detected	ug/L	100	SW8260C	10/03/14 19:38	WAT	591-78-6	Y
Carbon tetrachloride	Not detected	ug/L	2	SW8260C	10/03/14 19:38	WAT	56-23-5	Y
Benzene	153	ug/L	2	SW8260C	10/03/14 19:38	WAT	71-43-2	Y
1,2-Dichloroethane	Not detected	ug/L	2	SW8260C	10/03/14 19:38	WAT	107-06-2	Y
Trichloroethene	Not detected	ug/L	2	SW8260C	10/03/14 19:38	WAT	79-01-6	Y
1,2-Dichloropropane	Not detected	ug/L	2	SW8260C	10/03/14 19:38	WAT	78-87-5	Y
Bromodichloromethane	Not detected	ug/L	2	SW8260C	10/03/14 19:38	WAT	75-27-4	Y
Dibromomethane	Not detected	ug/L	10	SW8260C	10/03/14 19:38	WAT	74-95-3	Y
cis-1,3-Dichloropropene	Not detected	ug/L	2	SW8260C	10/03/14 19:38	WAT	10061-01-5	Y
Toluene	Not detected	ug/L	2	SW8260C	10/03/14 19:38	WAT	108-88-3	Y
trans-1,3-Dichloropropene	Not detected	ug/L	2	SW8260C	10/03/14 19:38	WAT	10061-02-6	Y
1,1,2-Trichloroethane	Not detected	ug/L	2	SW8260C	10/03/14 19:38	WAT	79-00-5	Y
Tetrachloroethene	Not detected	ug/L	2	SW8260C	10/03/14 19:38	WAT	127-18-4	Y
trans-1,4-Dichloro-2-butene	Not detected	ug/L	2	SW8260C	10/03/14 19:38	WAT	110-57-6	Y
Dibromochloromethane	Not detected	ug/L	10	SW8260C	10/03/14 19:38	WAT	124-48-1	Y

Y-Elevated reporting limit due to high target concentration

Lab Sample ID: S62919.20 (continued)
Sample Tag: B-62_092414

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
1,2-Dibromoethane	Not detected	ug/L	2	SW8260C	10/03/14 19:38	WAT	106-93-4	Y
Chlorobenzene	Not detected	ug/L	2	SW8260C	10/03/14 19:38	WAT	108-90-7	Y
1,1,1,2-Tetrachloroethane	Not detected	ug/L	2	SW8260C	10/03/14 19:38	WAT	630-20-6	Y
Ethylbenzene	101	ug/L	2	SW8260C	10/03/14 19:38	WAT	100-41-4	Y
p,m-Xylene	61	ug/L	4	SW8260C	10/03/14 19:38	WAT		Y
o-Xylene	2	ug/L	2	SW8260C	10/03/14 19:38	WAT	95-47-6	Y
Styrene	Not detected	ug/L	2	SW8260C	10/03/14 19:38	WAT	100-42-5	Y
Isopropylbenzene	Not detected	ug/L	10	SW8260C	10/03/14 19:38	WAT	98-82-8	Y
Bromoform	Not detected	ug/L	2	SW8260C	10/03/14 19:38	WAT	75-25-2	Y
1,1,2,2-Tetrachloroethane	Not detected	ug/L	2	SW8260C	10/03/14 19:38	WAT	79-34-5	Y
1,2,3-Trichloropropane	Not detected	ug/L	2	SW8260C	10/03/14 19:38	WAT	96-18-4	Y
n-Propylbenzene	11	ug/L	2	SW8260C	10/03/14 19:38	WAT	103-65-1	Y
Bromobenzene	Not detected	ug/L	2	SW8260C	10/03/14 19:38	WAT	108-86-1	Y
1,3,5-Trimethylbenzene	Not detected	ug/L	2	SW8260C	10/03/14 19:38	WAT	108-67-8	Y
tert-Butylbenzene	Not detected	ug/L	2	SW8260C	10/03/14 19:38	WAT	98-06-6	Y
1,2,4-Trimethylbenzene	3	ug/L	2	SW8260C	10/03/14 19:38	WAT	95-63-6	Y
sec-Butylbenzene	Not detected	ug/L	2	SW8260C	10/03/14 19:38	WAT	135-98-8	Y
p-Isopropyltoluene	Not detected	ug/L	10	SW8260C	10/03/14 19:38	WAT	99-87-6	Y
1,3-Dichlorobenzene	Not detected	ug/L	2	SW8260C	10/03/14 19:38	WAT	541-73-1	Y
1,4-Dichlorobenzene	Not detected	ug/L	2	SW8260C	10/03/14 19:38	WAT	106-46-7	Y
1,2-Dichlorobenzene	Not detected	ug/L	2	SW8260C	10/03/14 19:38	WAT	95-50-1	Y
1,2,3-Trimethylbenzene	Not detected	ug/L	2	SW8260C	10/03/14 19:38	WAT	526-73-8	Y
n-Butylbenzene	Not detected	ug/L	2	SW8260C	10/03/14 19:38	WAT	104-51-8	Y
Hexachloroethane	Not detected	ug/L	10	SW8260C	10/03/14 19:38	WAT	67-72-1	Y
1,2-Dibromo-3-chloropropane	Not detected	ug/L	10	SW8260C	10/03/14 19:38	WAT	96-12-8	Y
1,2,4-Trichlorobenzene	Not detected	ug/L	10	SW8260C	10/03/14 19:38	WAT	120-82-1	Y
1,2,3-Trichlorobenzene	Not detected	ug/L	10	SW8260C	10/03/14 19:38	WAT	87-61-6	Y
Naphthalene	Not detected	ug/L	10	SW8260C	10/03/14 19:38	WAT	91-20-3	Y
2-Methylnaphthalene	Not detected	ug/L	10	SW8260C	10/03/14 19:38	WAT	91-57-6	Y

Y-Elevated reporting limit due to high target concentration

Analytical Laboratory Report

Lab Sample ID: S62919.21
Sample Tag: B-62_092414 MS
Collected Date/Time: 09/24/2014 10:40
Matrix: Groundwater
COC Reference: 87139

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	4.9	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
pH check for VOCs	<2	STD Units		N/A	10/03/14 10:35	LBR		
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	92	ug/L	20	SW8260C	10/03/14 21:05	WAT	60-29-7	Y1
Acetone	Not detected	ug/L	100	SW8260C	10/03/14 21:05	WAT	67-64-1	Y1
Methyl iodide	92	ug/L	2	SW8260C	10/03/14 21:05	WAT	74-88-4	Y1
Carbon disulfide	90	ug/L	10	SW8260C	10/03/14 21:05	WAT	75-15-0	Y1
tert-Methyl butyl ether (MTBE)	100	ug/L	10	SW8260C	10/03/14 21:05	WAT	1634-04-4	Y1
Acrylonitrile	101	ug/L	4	SW8260C	10/03/14 21:05	WAT	107-13-1	Y1
2-Butanone (MEK)	87	ug/L	50	SW8260C	10/03/14 21:05	WAT	78-93-3	Y1
Dichlorodifluoromethane	70	ug/L	10	SW8260C	10/03/14 21:05	WAT	75-71-8	Y1
Chloromethane	100	ug/L	10	SW8260C	10/03/14 21:05	WAT	74-87-3	Y1
Vinyl chloride	96	ug/L	2	SW8260C	10/03/14 21:05	WAT	75-01-4	Y1
Bromomethane	100	ug/L	10	SW8260C	10/03/14 21:05	WAT	74-83-9	Y1
Chloroethane	100	ug/L	10	SW8260C	10/03/14 21:05	WAT	75-00-3	Y1
Trichlorofluoromethane	95	ug/L	2	SW8260C	10/03/14 21:05	WAT	75-69-4	Y1
1,1-Dichloroethene	92	ug/L	2	SW8260C	10/03/14 21:05	WAT	75-35-4	Y1
Methylene chloride	90	ug/L	10	SW8260C	10/03/14 21:05	WAT	75-09-2	Y1
trans-1,2-Dichloroethene	92	ug/L	2	SW8260C	10/03/14 21:05	WAT	156-60-5	Y1
1,1-Dichloroethane	96	ug/L	2	SW8260C	10/03/14 21:05	WAT	75-34-3	Y1
cis-1,2-Dichloroethene	96	ug/L	2	SW8260C	10/03/14 21:05	WAT	156-59-2	Y1
Tetrahydrofuran	Not detected	ug/L	180	SW8260C	10/03/14 21:05	WAT	109-99-9	Y1
Chloroform	99	ug/L	2	SW8260C	10/03/14 21:05	WAT	67-66-3	Y1
Bromochloromethane	98	ug/L	2	SW8260C	10/03/14 21:05	WAT	74-97-5	Y1
1,1,1-Trichloroethane	102	ug/L	2	SW8260C	10/03/14 21:05	WAT	71-55-6	Y1
4-Methyl-2-pentanone (MIBK)	110	ug/L	100	SW8260C	10/03/14 21:05	WAT	108-10-1	Y1
2-Hexanone	100	ug/L	100	SW8260C	10/03/14 21:05	WAT	591-78-6	Y1
Carbon tetrachloride	108	ug/L	2	SW8260C	10/03/14 21:05	WAT	56-23-5	Y1
Benzene	234	ug/L	2	SW8260C	10/03/14 21:05	WAT	71-43-2	Y1
1,2-Dichloroethane	104	ug/L	2	SW8260C	10/03/14 21:05	WAT	107-06-2	Y1
Trichloroethene	100	ug/L	2	SW8260C	10/03/14 21:05	WAT	79-01-6	Y1
1,2-Dichloropropane	99	ug/L	2	SW8260C	10/03/14 21:05	WAT	78-87-5	Y1
Bromodichloromethane	108	ug/L	2	SW8260C	10/03/14 21:05	WAT	75-27-4	Y1
Dibromomethane	100	ug/L	10	SW8260C	10/03/14 21:05	WAT	74-95-3	Y1
cis-1,3-Dichloropropene	107	ug/L	2	SW8260C	10/03/14 21:05	WAT	10061-01-5	Y1
Toluene	100	ug/L	2	SW8260C	10/03/14 21:05	WAT	108-88-3	Y1
trans-1,3-Dichloropropene	107	ug/L	2	SW8260C	10/03/14 21:05	WAT	10061-02-6	Y1
1,1,2-Trichloroethane	97	ug/L	2	SW8260C	10/03/14 21:05	WAT	79-00-5	Y1
Tetrachloroethene	94	ug/L	2	SW8260C	10/03/14 21:05	WAT	127-18-4	Y1
trans-1,4-Dichloro-2-butene	94	ug/L	2	SW8260C	10/03/14 21:05	WAT	110-57-6	Y1
Dibromochloromethane	110	ug/L	10	SW8260C	10/03/14 21:05	WAT	124-48-1	Y1

Y-Elevated reporting limit due to high target concentration 1-Spiked at 0.1mg/l

Lab Sample ID: S62919.21 (continued)
Sample Tag: B-62_092414 MS

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
1,2-Dibromoethane	99	ug/L	2	SW8260C	10/03/14 21:05	WAT	106-93-4	Y1
Chlorobenzene	96	ug/L	2	SW8260C	10/03/14 21:05	WAT	108-90-7	Y1
1,1,1,2-Tetrachloroethane	106	ug/L	2	SW8260C	10/03/14 21:05	WAT	630-20-6	Y1
Ethylbenzene	188	ug/L	2	SW8260C	10/03/14 21:05	WAT	100-41-4	Y1
p,m-Xylene	244	ug/L	4	SW8260C	10/03/14 21:05	WAT		Y1
o-Xylene	103	ug/L	2	SW8260C	10/03/14 21:05	WAT	95-47-6	Y1
Styrene	104	ug/L	2	SW8260C	10/03/14 21:05	WAT	100-42-5	Y1
Isopropylbenzene	110	ug/L	10	SW8260C	10/03/14 21:05	WAT	98-82-8	Y1
Bromoform	102	ug/L	2	SW8260C	10/03/14 21:05	WAT	75-25-2	Y1
1,1,2,2-Tetrachloroethane	100	ug/L	2	SW8260C	10/03/14 21:05	WAT	79-34-5	Y1
1,2,3-Trichloropropane	100	ug/L	2	SW8260C	10/03/14 21:05	WAT	96-18-4	Y1
n-Propylbenzene	109	ug/L	2	SW8260C	10/03/14 21:05	WAT	103-65-1	Y1
Bromobenzene	98	ug/L	2	SW8260C	10/03/14 21:05	WAT	108-86-1	Y1
1,3,5-Trimethylbenzene	99	ug/L	2	SW8260C	10/03/14 21:05	WAT	108-67-8	Y1
tert-Butylbenzene	101	ug/L	2	SW8260C	10/03/14 21:05	WAT	98-06-6	Y1
1,2,4-Trimethylbenzene	102	ug/L	2	SW8260C	10/03/14 21:05	WAT	95-63-6	Y1
sec-Butylbenzene	98	ug/L	2	SW8260C	10/03/14 21:05	WAT	135-98-8	Y1
p-Isopropyltoluene	100	ug/L	10	SW8260C	10/03/14 21:05	WAT	99-87-6	Y1
1,3-Dichlorobenzene	95	ug/L	2	SW8260C	10/03/14 21:05	WAT	541-73-1	Y1
1,4-Dichlorobenzene	94	ug/L	2	SW8260C	10/03/14 21:05	WAT	106-46-7	Y1
1,2-Dichlorobenzene	94	ug/L	2	SW8260C	10/03/14 21:05	WAT	95-50-1	Y1
1,2,3-Trimethylbenzene	102	ug/L	2	SW8260C	10/03/14 21:05	WAT	526-73-8	Y1
n-Butylbenzene	95	ug/L	2	SW8260C	10/03/14 21:05	WAT	104-51-8	Y1
Hexachloroethane	100	ug/L	10	SW8260C	10/03/14 21:05	WAT	67-72-1	Y1
1,2-Dibromo-3-chloropropane	100	ug/L	10	SW8260C	10/03/14 21:05	WAT	96-12-8	Y1
1,2,4-Trichlorobenzene	100	ug/L	10	SW8260C	10/03/14 21:05	WAT	120-82-1	Y1
1,2,3-Trichlorobenzene	100	ug/L	10	SW8260C	10/03/14 21:05	WAT	87-61-6	Y1
Naphthalene	110	ug/L	10	SW8260C	10/03/14 21:05	WAT	91-20-3	Y1
2-Methylnaphthalene	120	ug/L	10	SW8260C	10/03/14 21:05	WAT	91-57-6	Y1

Y-Elevated reporting limit due to high target concentration 1-Spiked at 0.1mg/l

Analytical Laboratory Report

Lab Sample ID: S62919.22
Sample Tag: B-62_092414 MSD
Collected Date/Time: 09/24/2014 10:40
Matrix: Groundwater
COC Reference: 87139

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	4.9	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
pH check for VOCs	<2	STD Units		N/A	10/03/14 10:35	LBR		
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	94	ug/L	20	SW8260C	10/03/14 21:27	WAT	60-29-7	Y1
Acetone	Not detected	ug/L	100	SW8260C	10/03/14 21:27	WAT	67-64-1	Y1
Methyl iodide	93	ug/L	2	SW8260C	10/03/14 21:27	WAT	74-88-4	Y1
Carbon disulfide	90	ug/L	10	SW8260C	10/03/14 21:27	WAT	75-15-0	Y1
tert-Methyl butyl ether (MTBE)	100	ug/L	10	SW8260C	10/03/14 21:27	WAT	1634-04-4	Y1
Acrylonitrile	100	ug/L	4	SW8260C	10/03/14 21:27	WAT	107-13-1	Y1
2-Butanone (MEK)	84	ug/L	50	SW8260C	10/03/14 21:27	WAT	78-93-3	Y1
Dichlorodifluoromethane	70	ug/L	10	SW8260C	10/03/14 21:27	WAT	75-71-8	Y1
Chloromethane	90	ug/L	10	SW8260C	10/03/14 21:27	WAT	74-87-3	Y1
Vinyl chloride	96	ug/L	2	SW8260C	10/03/14 21:27	WAT	75-01-4	Y1
Bromomethane	100	ug/L	10	SW8260C	10/03/14 21:27	WAT	74-83-9	Y1
Chloroethane	100	ug/L	10	SW8260C	10/03/14 21:27	WAT	75-00-3	Y1
Trichlorofluoromethane	93	ug/L	2	SW8260C	10/03/14 21:27	WAT	75-69-4	Y1
1,1-Dichloroethene	93	ug/L	2	SW8260C	10/03/14 21:27	WAT	75-35-4	Y1
Methylene chloride	90	ug/L	10	SW8260C	10/03/14 21:27	WAT	75-09-2	Y1
trans-1,2-Dichloroethene	92	ug/L	2	SW8260C	10/03/14 21:27	WAT	156-60-5	Y1
1,1-Dichloroethane	96	ug/L	2	SW8260C	10/03/14 21:27	WAT	75-34-3	Y1
cis-1,2-Dichloroethene	97	ug/L	2	SW8260C	10/03/14 21:27	WAT	156-59-2	Y1
Tetrahydrofuran	Not detected	ug/L	180	SW8260C	10/03/14 21:27	WAT	109-99-9	Y1
Chloroform	99	ug/L	2	SW8260C	10/03/14 21:27	WAT	67-66-3	Y1
Bromochloromethane	97	ug/L	2	SW8260C	10/03/14 21:27	WAT	74-97-5	Y1
1,1,1-Trichloroethane	102	ug/L	2	SW8260C	10/03/14 21:27	WAT	71-55-6	Y1
4-Methyl-2-pentanone (MIBK)	110	ug/L	100	SW8260C	10/03/14 21:27	WAT	108-10-1	Y1
2-Hexanone	Not detected	ug/L	100	SW8260C	10/03/14 21:27	WAT	591-78-6	Y1
Carbon tetrachloride	107	ug/L	2	SW8260C	10/03/14 21:27	WAT	56-23-5	Y1
Benzene	217	ug/L	2	SW8260C	10/03/14 21:27	WAT	71-43-2	Y1
1,2-Dichloroethane	100	ug/L	2	SW8260C	10/03/14 21:27	WAT	107-06-2	Y1
Trichloroethene	100	ug/L	2	SW8260C	10/03/14 21:27	WAT	79-01-6	Y1
1,2-Dichloropropane	98	ug/L	2	SW8260C	10/03/14 21:27	WAT	78-87-5	Y1
Bromodichloromethane	107	ug/L	2	SW8260C	10/03/14 21:27	WAT	75-27-4	Y1
Dibromomethane	100	ug/L	10	SW8260C	10/03/14 21:27	WAT	74-95-3	Y1
cis-1,3-Dichloropropene	104	ug/L	2	SW8260C	10/03/14 21:27	WAT	10061-01-5	Y1
Toluene	97	ug/L	2	SW8260C	10/03/14 21:27	WAT	108-88-3	Y1
trans-1,3-Dichloropropene	104	ug/L	2	SW8260C	10/03/14 21:27	WAT	10061-02-6	Y1
1,1,2-Trichloroethane	95	ug/L	2	SW8260C	10/03/14 21:27	WAT	79-00-5	Y1
Tetrachloroethene	92	ug/L	2	SW8260C	10/03/14 21:27	WAT	127-18-4	Y1
trans-1,4-Dichloro-2-butene	87	ug/L	2	SW8260C	10/03/14 21:27	WAT	110-57-6	Y1
Dibromochloromethane	110	ug/L	10	SW8260C	10/03/14 21:27	WAT	124-48-1	Y1

Y-Elevated reporting limit due to high target concentration 1-Spiked at 0.1mg/l

Lab Sample ID: S62919.22 (continued)
Sample Tag: B-62_092414 MSD

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
1,2-Dibromoethane	96	ug/L	2	SW8260C	10/03/14 21:27	WAT	106-93-4	Y1
Chlorobenzene	94	ug/L	2	SW8260C	10/03/14 21:27	WAT	108-90-7	Y1
1,1,1,2-Tetrachloroethane	106	ug/L	2	SW8260C	10/03/14 21:27	WAT	630-20-6	Y1
Ethylbenzene	175	ug/L	2	SW8260C	10/03/14 21:27	WAT	100-41-4	Y1
p,m-Xylene	234	ug/L	4	SW8260C	10/03/14 21:27	WAT		Y1
o-Xylene	100	ug/L	2	SW8260C	10/03/14 21:27	WAT	95-47-6	Y1
Styrene	102	ug/L	2	SW8260C	10/03/14 21:27	WAT	100-42-5	Y1
Isopropylbenzene	100	ug/L	10	SW8260C	10/03/14 21:27	WAT	98-82-8	Y1
Bromoform	100	ug/L	2	SW8260C	10/03/14 21:27	WAT	75-25-2	Y1
1,1,2,2-Tetrachloroethane	99	ug/L	2	SW8260C	10/03/14 21:27	WAT	79-34-5	Y1
1,2,3-Trichloropropane	97	ug/L	2	SW8260C	10/03/14 21:27	WAT	96-18-4	Y1
n-Propylbenzene	105	ug/L	2	SW8260C	10/03/14 21:27	WAT	103-65-1	Y1
Bromobenzene	97	ug/L	2	SW8260C	10/03/14 21:27	WAT	108-86-1	Y1
1,3,5-Trimethylbenzene	98	ug/L	2	SW8260C	10/03/14 21:27	WAT	108-67-8	Y1
tert-Butylbenzene	99	ug/L	2	SW8260C	10/03/14 21:27	WAT	98-06-6	Y1
1,2,4-Trimethylbenzene	99	ug/L	2	SW8260C	10/03/14 21:27	WAT	95-63-6	Y1
sec-Butylbenzene	99	ug/L	2	SW8260C	10/03/14 21:27	WAT	135-98-8	Y1
p-Isopropyltoluene	100	ug/L	10	SW8260C	10/03/14 21:27	WAT	99-87-6	Y1
1,3-Dichlorobenzene	96	ug/L	2	SW8260C	10/03/14 21:27	WAT	541-73-1	Y1
1,4-Dichlorobenzene	96	ug/L	2	SW8260C	10/03/14 21:27	WAT	106-46-7	Y1
1,2-Dichlorobenzene	96	ug/L	2	SW8260C	10/03/14 21:27	WAT	95-50-1	Y1
1,2,3-Trimethylbenzene	102	ug/L	2	SW8260C	10/03/14 21:27	WAT	526-73-8	Y1
n-Butylbenzene	97	ug/L	2	SW8260C	10/03/14 21:27	WAT	104-51-8	Y1
Hexachloroethane	110	ug/L	10	SW8260C	10/03/14 21:27	WAT	67-72-1	Y1
1,2-Dibromo-3-chloropropane	110	ug/L	10	SW8260C	10/03/14 21:27	WAT	96-12-8	Y1
1,2,4-Trichlorobenzene	100	ug/L	10	SW8260C	10/03/14 21:27	WAT	120-82-1	Y1
1,2,3-Trichlorobenzene	110	ug/L	10	SW8260C	10/03/14 21:27	WAT	87-61-6	Y1
Naphthalene	110	ug/L	10	SW8260C	10/03/14 21:27	WAT	91-20-3	Y1
2-Methylnaphthalene	140	ug/L	10	SW8260C	10/03/14 21:27	WAT	91-57-6	Y1

Y-Elevated reporting limit due to high target concentration 1-Spiked at 0.1mg/l

Analytical Laboratory Report

Lab Sample ID: S62919.23
Sample Tag: B-64_092414_(8.5-9.5)
Collected Date/Time: 09/24/2014 11:40
Matrix: Soil
COC Reference: 87139

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	40ml Glass	MeOH	Yes	4.9	IR
1	4oz Glass	None	Yes	4.9	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Inorganics								
Total Solids	87	%	1	SM2540B	09/29/14 11:10	WAR		
Organics - Volatiles								
Volatile Organics 5035								
Diethyl ether	Not detected	ug/kg	300	SW8260C/5035A	10/02/14 16:06	JGH	60-29-7	
Acetone	Not detected	ug/kg	1,000	SW8260C/5035A	10/02/14 16:06	JGH	67-64-1	
Methyl iodide	Not detected	ug/kg	100	SW8260C/5035A	10/02/14 16:06	JGH	74-88-4	
Carbon disulfide	Not detected	ug/kg	300	SW8260C/5035A	10/02/14 16:06	JGH	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	300	SW8260C/5035A	10/02/14 16:06	JGH	1634-04-4	
Acrylonitrile	Not detected	ug/kg	100	SW8260C/5035A	10/02/14 16:06	JGH	107-13-1	
2-Butanone (MEK)	Not detected	ug/kg	980	SW8260C/5035A	10/02/14 16:06	JGH	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	300	SW8260C/5035A	10/02/14 16:06	JGH	75-71-8	
Chloromethane	Not detected	ug/kg	300	SW8260C/5035A	10/02/14 16:06	JGH	74-87-3	
Vinyl chloride	Not detected	ug/kg	70	SW8260C/5035A	10/02/14 16:06	JGH	75-01-4	
Bromomethane	Not detected	ug/kg	300	SW8260C/5035A	10/02/14 16:06	JGH	74-83-9	
Chloroethane	Not detected	ug/kg	300	SW8260C/5035A	10/02/14 16:06	JGH	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	100	SW8260C/5035A	10/02/14 16:06	JGH	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	70	SW8260C/5035A	10/02/14 16:06	JGH	75-35-4	
Methylene chloride	Not detected	ug/kg	100	SW8260C/5035A	10/02/14 16:06	JGH	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	70	SW8260C/5035A	10/02/14 16:06	JGH	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	70	SW8260C/5035A	10/02/14 16:06	JGH	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	70	SW8260C/5035A	10/02/14 16:06	JGH	156-59-2	
Tetrahydrofuran	Not detected	ug/kg	1,000	SW8260C/5035A	10/02/14 16:06	JGH	109-99-9	
Chloroform	Not detected	ug/kg	70	SW8260C/5035A	10/02/14 16:06	JGH	67-66-3	
Bromochloromethane	Not detected	ug/kg	100	SW8260C/5035A	10/02/14 16:06	JGH	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/kg	70	SW8260C/5035A	10/02/14 16:06	JGH	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	3,000	SW8260C/5035A	10/02/14 16:06	JGH	108-10-1	
2-Hexanone	Not detected	ug/kg	3,000	SW8260C/5035A	10/02/14 16:06	JGH	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	70	SW8260C/5035A	10/02/14 16:06	JGH	56-23-5	
Benzene	Not detected	ug/kg	70	SW8260C/5035A	10/02/14 16:06	JGH	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	70	SW8260C/5035A	10/02/14 16:06	JGH	107-06-2	
Trichloroethene	Not detected	ug/kg	70	SW8260C/5035A	10/02/14 16:06	JGH	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	70	SW8260C/5035A	10/02/14 16:06	JGH	78-87-5	
Bromodichloromethane	Not detected	ug/kg	100	SW8260C/5035A	10/02/14 16:06	JGH	75-27-4	
Dibromomethane	Not detected	ug/kg	300	SW8260C/5035A	10/02/14 16:06	JGH	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/kg	70	SW8260C/5035A	10/02/14 16:06	JGH	10061-01-5	
Toluene	Not detected	ug/kg	100	SW8260C/5035A	10/02/14 16:06	JGH	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	70	SW8260C/5035A	10/02/14 16:06	JGH	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	70	SW8260C/5035A	10/02/14 16:06	JGH	79-00-5	
Tetrachloroethene	Not detected	ug/kg	70	SW8260C/5035A	10/02/14 16:06	JGH	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/kg	70	SW8260C/5035A	10/02/14 16:06	JGH	110-57-6	
Dibromochloromethane	Not detected	ug/kg	100	SW8260C/5035A	10/02/14 16:06	JGH	124-48-1	

Lab Sample ID: S62919.23 (continued)
Sample Tag: B-64_092414_(8.5-9.5)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics 5035 (continued)								
1,2-Dibromoethane	Not detected	ug/kg	30	SW8260C/5035A	10/02/14 16:06	JGH	106-93-4	M
Chlorobenzene	Not detected	ug/kg	70	SW8260C/5035A	10/02/14 16:06	JGH	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/kg	100	SW8260C/5035A	10/02/14 16:06	JGH	630-20-6	
Ethylbenzene	Not detected	ug/kg	70	SW8260C/5035A	10/02/14 16:06	JGH	100-41-4	
p,m-Xylene	Not detected	ug/kg	100	SW8260C/5035A	10/02/14 16:06	JGH		
o-Xylene	Not detected	ug/kg	70	SW8260C/5035A	10/02/14 16:06	JGH	95-47-6	
Styrene	Not detected	ug/kg	70	SW8260C/5035A	10/02/14 16:06	JGH	100-42-5	
Isopropylbenzene	Not detected	ug/kg	300	SW8260C/5035A	10/02/14 16:06	JGH	98-82-8	
Bromoform	Not detected	ug/kg	100	SW8260C/5035A	10/02/14 16:06	JGH	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	70	SW8260C/5035A	10/02/14 16:06	JGH	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/kg	100	SW8260C/5035A	10/02/14 16:06	JGH	96-18-4	
n-Propylbenzene	Not detected	ug/kg	100	SW8260C/5035A	10/02/14 16:06	JGH	103-65-1	
Bromobenzene	Not detected	ug/kg	100	SW8260C/5035A	10/02/14 16:06	JGH	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/kg	100	SW8260C/5035A	10/02/14 16:06	JGH	108-67-8	
tert-Butylbenzene	Not detected	ug/kg	70	SW8260C/5035A	10/02/14 16:06	JGH	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/kg	100	SW8260C/5035A	10/02/14 16:06	JGH	95-63-6	
sec-Butylbenzene	Not detected	ug/kg	70	SW8260C/5035A	10/02/14 16:06	JGH	135-98-8	
p-Isopropyltoluene	Not detected	ug/kg	100	SW8260C/5035A	10/02/14 16:06	JGH	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/kg	100	SW8260C/5035A	10/02/14 16:06	JGH	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	100	SW8260C/5035A	10/02/14 16:06	JGH	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	100	SW8260C/5035A	10/02/14 16:06	JGH	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/kg	100	SW8260C/5035A	10/02/14 16:06	JGH	526-73-8	
n-Butylbenzene	Not detected	ug/kg	70	SW8260C/5035A	10/02/14 16:06	JGH	104-51-8	
Hexachloroethane	Not detected	ug/kg	400	SW8260C/5035A	10/02/14 16:06	JGH	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	300	SW8260C/5035A	10/02/14 16:06	JGH	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	430	SW8260C/5035A	10/02/14 16:06	JGH	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/kg	430	SW8260C/5035A	10/02/14 16:06	JGH	87-61-6	
Naphthalene	Not detected	ug/kg	430	SW8260C/5035A	10/02/14 16:06	JGH	91-20-3	
2-Methylnaphthalene	Not detected	ug/kg	430	SW8260C/5035A	10/02/14 16:06	JGH	91-57-6	

M-Result reported to MDL not RDL

Analytical Laboratory Report

Lab Sample ID: S62919.24
Sample Tag: B-64_092414
Collected Date/Time: 09/24/2014 12:10
Matrix: Groundwater
COC Reference: 87139

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	4.9	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
pH check for VOCs	<2	STD Units		N/A	10/03/14 10:35	LBR		
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	10	SW8260C	10/02/14 17:23	JGH	60-29-7	
Acetone	Not detected	ug/L	50	SW8260C	10/02/14 17:23	JGH	67-64-1	
Methyl iodide	Not detected	ug/L	1	SW8260C	10/02/14 17:23	JGH	74-88-4	
Carbon disulfide	Not detected	ug/L	5	SW8260C	10/02/14 17:23	JGH	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW8260C	10/02/14 17:23	JGH	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	SW8260C	10/02/14 17:23	JGH	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	SW8260C	10/02/14 17:23	JGH	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW8260C	10/02/14 17:23	JGH	75-71-8	
Chloromethane	Not detected	ug/L	5	SW8260C	10/02/14 17:23	JGH	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW8260C	10/02/14 17:23	JGH	75-01-4	
Bromomethane	Not detected	ug/L	5	SW8260C	10/02/14 17:23	JGH	74-83-9	
Chloroethane	Not detected	ug/L	5	SW8260C	10/02/14 17:23	JGH	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260C	10/02/14 17:23	JGH	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260C	10/02/14 17:23	JGH	75-35-4	
Methylene chloride	Not detected	ug/L	5	SW8260C	10/02/14 17:23	JGH	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260C	10/02/14 17:23	JGH	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260C	10/02/14 17:23	JGH	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260C	10/02/14 17:23	JGH	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	SW8260C	10/02/14 17:23	JGH	109-99-9	
Chloroform	Not detected	ug/L	1	SW8260C	10/02/14 17:23	JGH	67-66-3	
Bromochloromethane	Not detected	ug/L	1	SW8260C	10/02/14 17:23	JGH	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260C	10/02/14 17:23	JGH	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW8260C	10/02/14 17:23	JGH	108-10-1	
2-Hexanone	Not detected	ug/L	50	SW8260C	10/02/14 17:23	JGH	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW8260C	10/02/14 17:23	JGH	56-23-5	
Benzene	Not detected	ug/L	1	SW8260C	10/02/14 17:23	JGH	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260C	10/02/14 17:23	JGH	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW8260C	10/02/14 17:23	JGH	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260C	10/02/14 17:23	JGH	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW8260C	10/02/14 17:23	JGH	75-27-4	
Dibromomethane	Not detected	ug/L	5	SW8260C	10/02/14 17:23	JGH	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260C	10/02/14 17:23	JGH	10061-01-5	
Toluene	Not detected	ug/L	1	SW8260C	10/02/14 17:23	JGH	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260C	10/02/14 17:23	JGH	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260C	10/02/14 17:23	JGH	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW8260C	10/02/14 17:23	JGH	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW8260C	10/02/14 17:23	JGH	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	SW8260C	10/02/14 17:23	JGH	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260C	10/02/14 17:23	JGH	106-93-4	

Lab Sample ID: S62919.24 (continued)
Sample Tag: B-64_092414

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	SW8260C	10/02/14 17:23	JGH	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW8260C	10/02/14 17:23	JGH	630-20-6	
Ethylbenzene	Not detected	ug/L	1	SW8260C	10/02/14 17:23	JGH	100-41-4	
p,m-Xylene	Not detected	ug/L	2	SW8260C	10/02/14 17:23	JGH		
o-Xylene	Not detected	ug/L	1	SW8260C	10/02/14 17:23	JGH	95-47-6	
Styrene	Not detected	ug/L	1	SW8260C	10/02/14 17:23	JGH	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	SW8260C	10/02/14 17:23	JGH	98-82-8	
Bromoform	Not detected	ug/L	1	SW8260C	10/02/14 17:23	JGH	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260C	10/02/14 17:23	JGH	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	SW8260C	10/02/14 17:23	JGH	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	SW8260C	10/02/14 17:23	JGH	103-65-1	
Bromobenzene	Not detected	ug/L	1	SW8260C	10/02/14 17:23	JGH	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW8260C	10/02/14 17:23	JGH	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	SW8260C	10/02/14 17:23	JGH	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW8260C	10/02/14 17:23	JGH	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	SW8260C	10/02/14 17:23	JGH	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	SW8260C	10/02/14 17:23	JGH	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260C	10/02/14 17:23	JGH	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260C	10/02/14 17:23	JGH	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260C	10/02/14 17:23	JGH	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW8260C	10/02/14 17:23	JGH	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	SW8260C	10/02/14 17:23	JGH	104-51-8	
Hexachloroethane	Not detected	ug/L	5	SW8260C	10/02/14 17:23	JGH	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW8260C	10/02/14 17:23	JGH	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW8260C	10/02/14 17:23	JGH	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW8260C	10/02/14 17:23	JGH	87-61-6	
Naphthalene	Not detected	ug/L	5	SW8260C	10/02/14 17:23	JGH	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	SW8260C	10/02/14 17:23	JGH	91-57-6	

Analytical Laboratory Report

Lab Sample ID: S62919.25
Sample Tag: B-63_092414
Collected Date/Time: 09/24/2014 14:00
Matrix: Groundwater
COC Reference: 87139

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	4.9	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
pH check for VOCs	>2	STD Units		N/A	10/03/14 10:35	LBR		
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	10	SW8260C	10/02/14 17:45	JGH	60-29-7	
Acetone	Not detected	ug/L	50	SW8260C	10/02/14 17:45	JGH	67-64-1	
Methyl iodide	Not detected	ug/L	1	SW8260C	10/02/14 17:45	JGH	74-88-4	
Carbon disulfide	Not detected	ug/L	5	SW8260C	10/02/14 17:45	JGH	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW8260C	10/02/14 17:45	JGH	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	SW8260C	10/02/14 17:45	JGH	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	SW8260C	10/02/14 17:45	JGH	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW8260C	10/02/14 17:45	JGH	75-71-8	
Chloromethane	Not detected	ug/L	5	SW8260C	10/02/14 17:45	JGH	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW8260C	10/02/14 17:45	JGH	75-01-4	
Bromomethane	Not detected	ug/L	5	SW8260C	10/02/14 17:45	JGH	74-83-9	
Chloroethane	Not detected	ug/L	5	SW8260C	10/02/14 17:45	JGH	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260C	10/02/14 17:45	JGH	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260C	10/02/14 17:45	JGH	75-35-4	
Methylene chloride	Not detected	ug/L	5	SW8260C	10/02/14 17:45	JGH	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260C	10/02/14 17:45	JGH	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260C	10/02/14 17:45	JGH	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260C	10/02/14 17:45	JGH	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	SW8260C	10/02/14 17:45	JGH	109-99-9	
Chloroform	Not detected	ug/L	1	SW8260C	10/02/14 17:45	JGH	67-66-3	
Bromochloromethane	Not detected	ug/L	1	SW8260C	10/02/14 17:45	JGH	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260C	10/02/14 17:45	JGH	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW8260C	10/02/14 17:45	JGH	108-10-1	
2-Hexanone	Not detected	ug/L	50	SW8260C	10/02/14 17:45	JGH	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW8260C	10/02/14 17:45	JGH	56-23-5	
Benzene	Not detected	ug/L	1	SW8260C	10/02/14 17:45	JGH	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260C	10/02/14 17:45	JGH	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW8260C	10/02/14 17:45	JGH	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260C	10/02/14 17:45	JGH	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW8260C	10/02/14 17:45	JGH	75-27-4	
Dibromomethane	Not detected	ug/L	5	SW8260C	10/02/14 17:45	JGH	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260C	10/02/14 17:45	JGH	10061-01-5	
Toluene	Not detected	ug/L	1	SW8260C	10/02/14 17:45	JGH	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260C	10/02/14 17:45	JGH	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260C	10/02/14 17:45	JGH	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW8260C	10/02/14 17:45	JGH	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW8260C	10/02/14 17:45	JGH	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	SW8260C	10/02/14 17:45	JGH	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260C	10/02/14 17:45	JGH	106-93-4	

Lab Sample ID: S62919.25 (continued)
Sample Tag: B-63_092414

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	SW8260C	10/02/14 17:45	JGH	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW8260C	10/02/14 17:45	JGH	630-20-6	
Ethylbenzene	Not detected	ug/L	1	SW8260C	10/02/14 17:45	JGH	100-41-4	
p,m-Xylene	Not detected	ug/L	2	SW8260C	10/02/14 17:45	JGH		
o-Xylene	Not detected	ug/L	1	SW8260C	10/02/14 17:45	JGH	95-47-6	
Styrene	Not detected	ug/L	1	SW8260C	10/02/14 17:45	JGH	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	SW8260C	10/02/14 17:45	JGH	98-82-8	
Bromoform	Not detected	ug/L	1	SW8260C	10/02/14 17:45	JGH	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260C	10/02/14 17:45	JGH	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	SW8260C	10/02/14 17:45	JGH	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	SW8260C	10/02/14 17:45	JGH	103-65-1	
Bromobenzene	Not detected	ug/L	1	SW8260C	10/02/14 17:45	JGH	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW8260C	10/02/14 17:45	JGH	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	SW8260C	10/02/14 17:45	JGH	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW8260C	10/02/14 17:45	JGH	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	SW8260C	10/02/14 17:45	JGH	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	SW8260C	10/02/14 17:45	JGH	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260C	10/02/14 17:45	JGH	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260C	10/02/14 17:45	JGH	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260C	10/02/14 17:45	JGH	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW8260C	10/02/14 17:45	JGH	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	SW8260C	10/02/14 17:45	JGH	104-51-8	
Hexachloroethane	Not detected	ug/L	5	SW8260C	10/02/14 17:45	JGH	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW8260C	10/02/14 17:45	JGH	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW8260C	10/02/14 17:45	JGH	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW8260C	10/02/14 17:45	JGH	87-61-6	
Naphthalene	Not detected	ug/L	5	SW8260C	10/02/14 17:45	JGH	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	SW8260C	10/02/14 17:45	JGH	91-57-6	

Analytical Laboratory Report

Lab Sample ID: S62919.26
Sample Tag: B-59_092414
Collected Date/Time: 09/24/2014 15:20
Matrix: Groundwater
COC Reference: 87139

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	4.9	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
pH check for VOCs	<2	STD Units		N/A	10/03/14 10:35	LBR		
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	10	SW8260C	10/02/14 18:29	JGH	60-29-7	
Acetone	Not detected	ug/L	50	SW8260C	10/02/14 18:29	JGH	67-64-1	
Methyl iodide	Not detected	ug/L	1	SW8260C	10/02/14 18:29	JGH	74-88-4	
Carbon disulfide	Not detected	ug/L	5	SW8260C	10/02/14 18:29	JGH	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW8260C	10/02/14 18:29	JGH	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	SW8260C	10/02/14 18:29	JGH	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	SW8260C	10/02/14 18:29	JGH	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW8260C	10/02/14 18:29	JGH	75-71-8	
Chloromethane	Not detected	ug/L	5	SW8260C	10/02/14 18:29	JGH	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW8260C	10/02/14 18:29	JGH	75-01-4	
Bromomethane	Not detected	ug/L	5	SW8260C	10/02/14 18:29	JGH	74-83-9	
Chloroethane	Not detected	ug/L	5	SW8260C	10/02/14 18:29	JGH	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260C	10/02/14 18:29	JGH	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260C	10/02/14 18:29	JGH	75-35-4	
Methylene chloride	Not detected	ug/L	5	SW8260C	10/02/14 18:29	JGH	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260C	10/02/14 18:29	JGH	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260C	10/02/14 18:29	JGH	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260C	10/02/14 18:29	JGH	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	SW8260C	10/02/14 18:29	JGH	109-99-9	
Chloroform	Not detected	ug/L	1	SW8260C	10/02/14 18:29	JGH	67-66-3	
Bromochloromethane	Not detected	ug/L	1	SW8260C	10/02/14 18:29	JGH	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260C	10/02/14 18:29	JGH	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW8260C	10/02/14 18:29	JGH	108-10-1	
2-Hexanone	Not detected	ug/L	50	SW8260C	10/02/14 18:29	JGH	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW8260C	10/02/14 18:29	JGH	56-23-5	
Benzene	99	ug/L	1	SW8260C	10/02/14 18:29	JGH	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260C	10/02/14 18:29	JGH	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW8260C	10/02/14 18:29	JGH	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260C	10/02/14 18:29	JGH	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW8260C	10/02/14 18:29	JGH	75-27-4	
Dibromomethane	Not detected	ug/L	5	SW8260C	10/02/14 18:29	JGH	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260C	10/02/14 18:29	JGH	10061-01-5	
Toluene	Not detected	ug/L	1	SW8260C	10/02/14 18:29	JGH	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260C	10/02/14 18:29	JGH	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260C	10/02/14 18:29	JGH	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW8260C	10/02/14 18:29	JGH	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW8260C	10/02/14 18:29	JGH	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	SW8260C	10/02/14 18:29	JGH	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260C	10/02/14 18:29	JGH	106-93-4	

Lab Sample ID: S62919.26 (continued)
Sample Tag: B-59_092414

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	SW8260C	10/02/14 18:29	JGH	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW8260C	10/02/14 18:29	JGH	630-20-6	
Ethylbenzene	38	ug/L	1	SW8260C	10/02/14 18:29	JGH	100-41-4	
p,m-Xylene	8	ug/L	2	SW8260C	10/02/14 18:29	JGH		
o-Xylene	10	ug/L	1	SW8260C	10/02/14 18:29	JGH	95-47-6	
Styrene	Not detected	ug/L	1	SW8260C	10/02/14 18:29	JGH	100-42-5	
Isopropylbenzene	7	ug/L	5	SW8260C	10/02/14 18:29	JGH	98-82-8	
Bromoform	Not detected	ug/L	1	SW8260C	10/02/14 18:29	JGH	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260C	10/02/14 18:29	JGH	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	SW8260C	10/02/14 18:29	JGH	96-18-4	
n-Propylbenzene	9	ug/L	1	SW8260C	10/02/14 18:29	JGH	103-65-1	
Bromobenzene	Not detected	ug/L	1	SW8260C	10/02/14 18:29	JGH	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW8260C	10/02/14 18:29	JGH	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	SW8260C	10/02/14 18:29	JGH	98-06-6	
1,2,4-Trimethylbenzene	3	ug/L	1	SW8260C	10/02/14 18:29	JGH	95-63-6	
sec-Butylbenzene	2	ug/L	1	SW8260C	10/02/14 18:29	JGH	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	SW8260C	10/02/14 18:29	JGH	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260C	10/02/14 18:29	JGH	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260C	10/02/14 18:29	JGH	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260C	10/02/14 18:29	JGH	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW8260C	10/02/14 18:29	JGH	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	SW8260C	10/02/14 18:29	JGH	104-51-8	
Hexachloroethane	Not detected	ug/L	5	SW8260C	10/02/14 18:29	JGH	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW8260C	10/02/14 18:29	JGH	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW8260C	10/02/14 18:29	JGH	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW8260C	10/02/14 18:29	JGH	87-61-6	
Naphthalene	Not detected	ug/L	5	SW8260C	10/02/14 18:29	JGH	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	SW8260C	10/02/14 18:29	JGH	91-57-6	

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C.O.C. PAGE # 1 OF 3

87141

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: Renee Piink
COMPANY: Arcadis
ADDRESS: 10559 Citation Drive #100
CITY: Brighton STATE: MI ZIP CODE: 48116
PHONE NO.: 810-229-8594 FAX NO.: 810-229-8837 P.O. NO.: B00674486 2014.0004
E-MAIL ADDRESS: Renee.Piink@Arcadis-US.com QUOTE NO.:

INVOICE TO

CONTACT NAME: Brad Saunders ☐ SAME
COMPANY: Arcadis
ADDRESS: 10559 Citation Drive #100
CITY: Brighton STATE: MI ZIP CODE: 48116
PHONE NO.: 810-229-8594 E-MAIL ADDRESS: 810-229-8837

PROJECT NO./NAME: RACER Pontiac EDC
SAMPLER(S) - PLEASE PRINT/SIGN NAME: Megan Costes-Humphrey/

TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☒ STANDARD ☐ OTHER

DELIVERABLES REQUIRED ☐ STD ☐ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR W=WASTE

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Certifications
☐ OHIO VAP ☐ Drinking Water
☐ DoD ☐ NPDES

Project Locations
☐ Detroit ☐ New York
☒ Other Pontiac, MI

Special Instructions

MERIT LAB NO. (FOR LAB USE ONLY)	YEAR DATE	TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCl	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	VOC	Dry Weight	Special Instructions
62919.01	9/23/14	10:10	B-57_092314_(14-15)	S	2	1					1		X	X	
.02		10:50	B-58_092314_(14-15)	S	2	1					1		X	X	
.03		—	DUP-01_092314	S	2	1					1		X	X	
.04		12:00	B-58_092314	GW	3		3						X		
.05		12:40	B-59_092314_(12-13)	S	2	1					1		X	X	
.06		13:45	B-60_092314_(12-13)	S	2	1					1		X	X	
.07		13:55	B-60_092314_(8-10)	S	2	1					1		X	X	
.08		14:00	B-60_092314_(18-20)	S	2	1					1		X	X	
.09		14:45	B-100_092314	GW	3		3						X		GW 3 bottles
.10		—	DUP-02_092314	GW	3		3						X		
.11/.12/.13		15:30	B-61_092314_(11-13)	S	6	3					3		X	X	MS/MSD
.14		16:10	B-63_092314_(11-12)	S	2	1					1		X	X	

RELINQUISHED BY: SIGNATURE/ORGANIZATION	Megan Costes-Humphrey / Arcadis (Sampler)	DATE 9/23/14	TIME 18:00
RECEIVED BY: SIGNATURE/ORGANIZATION	Nouv Cold Storage / Arcadis	DATE 9/23/14	TIME 18:00
RELINQUISHED BY: SIGNATURE/ORGANIZATION	Nouv Cold Storage	DATE 9/23/14	TIME 1044
RECEIVED BY: SIGNATURE/ORGANIZATION	Isa Mu	DATE 9/25/14	TIME 1044

RELINQUISHED BY: SIGNATURE/ORGANIZATION	Isa Mu	DATE 9/25/14	TIME 1225
RECEIVED BY: SIGNATURE/ORGANIZATION	Kevin Kluge	DATE 9/25/14	TIME 1225

SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS

SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS

NOTES: TEMP. ON ARRIVAL 4.9

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE

Rev. 5.18.12

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C.O.C. PAGE # 2 OF 3

87138

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME

COMPANY See page 1

ADDRESS

CITY | STATE | ZIP CODE

PHONE NO. | FAX NO. | P.O. NO.

E-MAIL ADDRESS | QUOTE NO.

INVOICE TO

CONTACT NAME ☐ SAME

COMPANY

ADDRESS

CITY | STATE | ZIP CODE

PHONE NO. | E-MAIL ADDRESS

PROJECT NO./NAME

SAMPLER(S) - PLEASE PRINT/SIGN NAME Megan Castles-Humphrey/

TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☒ STANDARD ☐ OTHER

DELIVERABLES REQUIRED ☐ STD ☐ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR W=WASTE

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Certifications
☐ OHIO VAP ☐ Drinking Water
☐ DoD ☐ NPDES

Project Locations
☐ Detroit ☐ New York
☒ Other Pontiac, MI

Special Instructions

MERIT LAB NO. FOR LAB USE ONLY	YEAR DATE	YEAR TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCl	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	VOC
629919.15	9/23/14	—	Trip blank	TB	1		1						1

RELINQUISHED BY: SIGNATURE/ORGANIZATION	Megan Castles-Humphrey/Arcadis (Sampler)	DATE 9/23/14	TIME 18:00
RECEIVED BY: SIGNATURE/ORGANIZATION	Novi Cold Storage/Arcadis	DATE 9/23/14	TIME 18:00
RELINQUISHED BY: SIGNATURE/ORGANIZATION	Novi Cold Storage	DATE 9/25/14	TIME 1044
RECEIVED BY: SIGNATURE/ORGANIZATION	Isaac	DATE 9/25/14	TIME 1044

RELINQUISHED BY: SIGNATURE/ORGANIZATION	Isaac	DATE 9/23/14	TIME 1225
RECEIVED BY: SIGNATURE/ORGANIZATION	Kevin George	DATE 9/25/14	TIME 1225

SEAL NO. | SEAL INTACT YES ☐ NO ☐ | INITIALS

SEAL NO. | SEAL INTACT YES ☐ NO ☐ | INITIALS

NOTES: TEMP. ON ARRIVAL 4.9

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE

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87139

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: Renee Pionk
COMPANY: Arcadis
ADDRESS: 10559 Citation Dr. #100
CITY: Brighton STATE: MI ZIP CODE: 48116
PHONE NO.: 810-225-1914 FAX NO.: 810-229-8837 P.O. NO.: B00644860 2014.0001
E-MAIL ADDRESS: Renee.Pionk@Arcadis-US.com QUOTE NO.:

INVOICE TO

CONTACT NAME: Brad Saunders ☐ SAME
COMPANY: Arcadis
ADDRESS: 10559 Citation Dr. #100
CITY: Brighton STATE: MI ZIP CODE: 48116
PHONE NO.: 810-225-1904 E-MAIL ADDRESS: Brad.Saunders@Arcadis-US.com

PROJECT NO./NAME: RACER Pontiac EDC
SAMPLER(S) - PLEASE PRINT/SIGN NAME: Megan Castles-Humphrey

TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☒ STANDARD ☐ OTHER

DELIVERABLES REQUIRED ☐ STD ☐ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR W=WASTE

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Certifications
☐ OHIO VAP ☐ Drinking Water
☐ DoD ☐ NPDES

Project Locations
☐ Detroit ☐ New York
☒ Other Pontiac, MI

Special Instructions

MERIT LAB NO. (FOR LAB USE ONLY)	YEAR DATE	TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCl	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	TCL VOC	Dry Weight	MS/MSD
629919.16	9/24/14	09:25	B-62-092414-(12-13)	S	2	1					1		X	X	
.17		09:45	B-62-092414-(7-9)	S	2	1					1		X	X	
.18		09:50	B-62-092414-(17.5-19.5)	S	2	1					1		X	X	
.19		—	DUP-01-092414	S	2	1				Z	1		X	X	
.20/.21/.22		10:40	B-62-092414	GW	9		9						X		MS/MSD
.23		11:40	B-64-092414-(8.5-9.5)	S	2	1					1		X	X	
.24		12:10	B-64-092414	GW	3		3						X		
.25		14:00	B-63-092414	GW	3		3						X		
.26		15:20	B-59-092414	GW	3		3						X		

RELINQUISHED BY: SIGNATURE/ORGANIZATION: Megan Castles-Humphrey / Arcadis (Sampler) DATE: 9/24/14 TIME: 19:45
RECEIVED BY: SIGNATURE/ORGANIZATION: Novi Cold Storage / Arcadis DATE: 9/24/14 TIME: 19:45
RELINQUISHED BY: SIGNATURE/ORGANIZATION: Novi Cold Storage DATE: 9/25/14 TIME: 1614
RECEIVED BY: SIGNATURE/ORGANIZATION: Isaac DATE: 9/25/14 TIME: 1614

RELINQUISHED BY: SIGNATURE/ORGANIZATION: Isaac DATE: 9/25/14 TIME: 1225
RECEIVED BY: SIGNATURE/ORGANIZATION: Kevin Kleage DATE: 9/25/14 TIME: 1225

SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS
SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS

NOTES: TEMP. ON ARRIVAL 4.9

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE

Rev. 5.18.12

Analytical Laboratory Report

Report ID: S63380.01(01)
Generated on 11/05/2014

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

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East Lansing, MI 48823

Phone: (517) 332-0167 FAX: (517) 332-6333

Contacts for report questions:
Kevin George (kgeorge@meritlabs.com)
Barbara Ball (bball@meritlabs.com)

Report Summary

Lab Sample ID(s): S63380.01-S63380.33
Project: B0064486.2014.00003
Collected Date: 10/27/2014 - 10/29/2014
Submitted Date/Time: 10/30/2014 14:20
Sampled by: Erik Pietrzak
P.O. #: B0064486.2014.00003

Maya Murshak
Technical Director

General Report Notes

Results relate only to items tested as received by laboratory.
Methods may be modified for improved performance.
Results reported on a dry weight basis were applicable.
'Not detected' indicates that parameter was not found at a level equal to or greater than the reporting limit (RL).
40 CFR Part 136 Table II Required Containers, Preservation Techniques and Holding Times for the Clean Water Act specify that samples for acrolein and acrylonitrile need to be preserved at a pH in the range of 4 to 5 or if not preserved, analyzed within 3 days of sampling.
QA/QC corresponding to this analytical report is a separate document with the same Merit ID reference and is available upon request.
Full accreditation certificates are available upon request.
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.

Report Narrative

There is no additional narrative for this analytical report

Laboratory Certifications

Authority	Certification ID
Michigan DEQ	#9956
DOD ELAP/ISO 17025	#69699
WBENC	#2005110032
Ohio VAP	#CL0002
Indiana DOH	#C-MI-07
New York NELAC	#11814
North Carolina DENR	#680
North Carolina DOH	#26702

Qualifier Descriptions

Qualifier	Description
!	Result is outside of stated limit criteria
B	Compound also found in associated method blank
E	Concentration exceeds calibration range
F	Analysis run outside of holding time
G	Estimated result due to extraction run outside of holding time
H	Sample submitted and run outside of holding time
I	Matrix interference with internal standard
J	Estimated value less than reporting limit, but greater than MDL
L	Elevated reporting limit due to low sample amount
M	Result reported to MDL not RDL
O	Analysis performed by outside laboratory. See attached report.
R	Preliminary result
S	Surrogate recovery outside of control limits
T	No correction for total solids
X	Elevated reporting limit due to matrix interference
Y	Elevated reporting limit due to high target concentration
b	Value detected less than reporting limit, but greater than MDL
e	Reported value estimated due to interference
j	Analyte also found in associated method blank
p	Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.
x	Preserved from bulk sample

Glossary of Abbreviations

Abbreviation	Description
RL/RDL	Reporting Limit
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
SW	EPA SW 846 (Soil and Wastewater) Methods
E	EPA Methods
SM	Standard Methods

Method Summary

Method	Version
N/A	Not Applicable
SW8260C	SW 846 Method 8260C Revision 3 August 2006

Sample Summary (33 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S63380.01	SS-3_10272014	Groundwater	10/27/2014 09:20
S63380.02	SS-4_10272014	Groundwater	10/27/2014 09:36
S63380.03	SS-2_10272014	Groundwater	10/27/2014 09:57
S63380.04	SS-5_10272014	Groundwater	10/27/2014 10:15
S63380.05	MW-9_10272014	Groundwater	10/27/2014 13:10
S63380.06	MW-32S_10272014	Groundwater	10/27/2014 13:42
S63380.07	MW-11_10272014	Groundwater	10/27/2014 14:00
S63380.08	MW-27_10272014	Groundwater	10/27/2014 15:00
S63380.09	MW-27_10272014 MS	Groundwater	10/27/2014 15:00
S63380.10	MW-27_10272014 MSD	Groundwater	10/27/2014 15:00
S63380.11	MW-32D_10272014	Groundwater	10/27/2014 14:42
S63380.12	MW-31_10272014	Groundwater	10/27/2014 15:47
S63380.13	MW-20_10272014	Groundwater	10/27/2014 15:50
S63380.14	MW-26_10272014	Groundwater	10/27/2014 16:40
S63380.15	MW-5_10272014	Groundwater	10/27/2014 16:57
S63380.16	DUP-01_10272014	Groundwater	10/27/2014 00:01
S63380.17	MW-25_10282014	Groundwater	10/28/2014 09:40
S63380.18	MW-30_10282014	Groundwater	10/28/2014 09:47
S63380.19	MW-29_10282014	Groundwater	10/28/2014 10:30
S63380.20	MW-12_10282014	Groundwater	10/28/2014 11:07
S63380.21	MW-23_10282014	Groundwater	10/28/2014 11:35
S63380.22	MW-23_10282014 MS	Groundwater	10/28/2014 11:35
S63380.23	MW-23_10282014 MSD	Groundwater	10/28/2014 11:35
S63380.24	MW-28_10282014	Groundwater	10/28/2014 12:20
S63380.25	MW-33_10282014	Groundwater	10/28/2014 12:32
S63380.26	MW-21_10282014	Groundwater	10/28/2014 13:20
S63380.27	MW-8_10282014	Groundwater	10/28/2014 13:42
S63380.28	MW-22_10282014	Groundwater	10/28/2014 14:25
S63380.29	Dup-02_10282014	Groundwater	10/28/2014 00:01
S63380.30	Trip Blanks	Groundwater	10/28/2014 00:01
S63380.31	MW-24S_10292014	Groundwater	10/29/2014 09:37
S63380.32	MW-24D_10292014	Groundwater	10/29/2014 10:32
S63380.33	Dup-03_10292014	Groundwater	10/29/2014 00:01

Analytical Laboratory Report

Lab Sample ID: S63380.01
Sample Tag: SS-3_10272014
Collected Date/Time: 10/27/2014 09:20
Matrix: Groundwater
COC Reference: 87709

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	4.9	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
pH check for VOCs	<2	STD Units		N/A	11/03/14 10:32	LBR		
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	10	SW8260C	10/31/14 14:39	WAT	60-29-7	
Acetone	Not detected	ug/L	50	SW8260C	10/31/14 14:39	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	SW8260C	10/31/14 14:39	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	SW8260C	10/31/14 14:39	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW8260C	10/31/14 14:39	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	SW8260C	10/31/14 14:39	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	SW8260C	10/31/14 14:39	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW8260C	10/31/14 14:39	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	SW8260C	10/31/14 14:39	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW8260C	10/31/14 14:39	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	SW8260C	10/31/14 14:39	WAT	74-83-9	
Chloroethane	Not detected	ug/L	5	SW8260C	10/31/14 14:39	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260C	10/31/14 14:39	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260C	10/31/14 14:39	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	SW8260C	10/31/14 14:39	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260C	10/31/14 14:39	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260C	10/31/14 14:39	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260C	10/31/14 14:39	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	SW8260C	10/31/14 14:39	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	SW8260C	10/31/14 14:39	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	SW8260C	10/31/14 14:39	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260C	10/31/14 14:39	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW8260C	10/31/14 14:39	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	SW8260C	10/31/14 14:39	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW8260C	10/31/14 14:39	WAT	56-23-5	
Benzene	Not detected	ug/L	1	SW8260C	10/31/14 14:39	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260C	10/31/14 14:39	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW8260C	10/31/14 14:39	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260C	10/31/14 14:39	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW8260C	10/31/14 14:39	WAT	75-27-4	
Dibromomethane	Not detected	ug/L	5	SW8260C	10/31/14 14:39	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260C	10/31/14 14:39	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	SW8260C	10/31/14 14:39	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260C	10/31/14 14:39	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260C	10/31/14 14:39	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW8260C	10/31/14 14:39	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW8260C	10/31/14 14:39	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	SW8260C	10/31/14 14:39	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260C	10/31/14 14:39	WAT	106-93-4	

Lab Sample ID: S63380.01 (continued)
Sample Tag: SS-3_10272014

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	SW8260C	10/31/14 14:39	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW8260C	10/31/14 14:39	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	SW8260C	10/31/14 14:39	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	SW8260C	10/31/14 14:39	WAT		
o-Xylene	Not detected	ug/L	1	SW8260C	10/31/14 14:39	WAT	95-47-6	
Styrene	Not detected	ug/L	1	SW8260C	10/31/14 14:39	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	SW8260C	10/31/14 14:39	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	SW8260C	10/31/14 14:39	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260C	10/31/14 14:39	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	SW8260C	10/31/14 14:39	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	SW8260C	10/31/14 14:39	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	SW8260C	10/31/14 14:39	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW8260C	10/31/14 14:39	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	SW8260C	10/31/14 14:39	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW8260C	10/31/14 14:39	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	SW8260C	10/31/14 14:39	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	SW8260C	10/31/14 14:39	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260C	10/31/14 14:39	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260C	10/31/14 14:39	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260C	10/31/14 14:39	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW8260C	10/31/14 14:39	WAT	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	SW8260C	10/31/14 14:39	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	SW8260C	10/31/14 14:39	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW8260C	10/31/14 14:39	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW8260C	10/31/14 14:39	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW8260C	10/31/14 14:39	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	SW8260C	10/31/14 14:39	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	SW8260C	10/31/14 14:39	WAT	91-57-6	

Analytical Laboratory Report

Lab Sample ID: S63380.02
Sample Tag: SS-4_10272014
Collected Date/Time: 10/27/2014 09:36
Matrix: Groundwater
COC Reference: 87709

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	4.9	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
pH check for VOCs	<2	STD Units		N/A	11/03/14 10:32	LBR		
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	10	SW8260C	10/31/14 14:59	WAT	60-29-7	
Acetone	Not detected	ug/L	50	SW8260C	10/31/14 14:59	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	SW8260C	10/31/14 14:59	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	SW8260C	10/31/14 14:59	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW8260C	10/31/14 14:59	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	SW8260C	10/31/14 14:59	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	SW8260C	10/31/14 14:59	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW8260C	10/31/14 14:59	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	SW8260C	10/31/14 14:59	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW8260C	10/31/14 14:59	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	SW8260C	10/31/14 14:59	WAT	74-83-9	
Chloroethane	Not detected	ug/L	5	SW8260C	10/31/14 14:59	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260C	10/31/14 14:59	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260C	10/31/14 14:59	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	SW8260C	10/31/14 14:59	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260C	10/31/14 14:59	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260C	10/31/14 14:59	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260C	10/31/14 14:59	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	SW8260C	10/31/14 14:59	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	SW8260C	10/31/14 14:59	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	SW8260C	10/31/14 14:59	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260C	10/31/14 14:59	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW8260C	10/31/14 14:59	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	SW8260C	10/31/14 14:59	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW8260C	10/31/14 14:59	WAT	56-23-5	
Benzene	Not detected	ug/L	1	SW8260C	10/31/14 14:59	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260C	10/31/14 14:59	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW8260C	10/31/14 14:59	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260C	10/31/14 14:59	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW8260C	10/31/14 14:59	WAT	75-27-4	
Dibromomethane	Not detected	ug/L	5	SW8260C	10/31/14 14:59	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260C	10/31/14 14:59	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	SW8260C	10/31/14 14:59	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260C	10/31/14 14:59	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260C	10/31/14 14:59	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW8260C	10/31/14 14:59	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW8260C	10/31/14 14:59	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	SW8260C	10/31/14 14:59	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260C	10/31/14 14:59	WAT	106-93-4	

Lab Sample ID: S63380.02 (continued)
Sample Tag: SS-4_10272014

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	SW8260C	10/31/14 14:59	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW8260C	10/31/14 14:59	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	SW8260C	10/31/14 14:59	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	SW8260C	10/31/14 14:59	WAT		
o-Xylene	Not detected	ug/L	1	SW8260C	10/31/14 14:59	WAT	95-47-6	
Styrene	Not detected	ug/L	1	SW8260C	10/31/14 14:59	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	SW8260C	10/31/14 14:59	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	SW8260C	10/31/14 14:59	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260C	10/31/14 14:59	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	SW8260C	10/31/14 14:59	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	SW8260C	10/31/14 14:59	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	SW8260C	10/31/14 14:59	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW8260C	10/31/14 14:59	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	SW8260C	10/31/14 14:59	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW8260C	10/31/14 14:59	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	SW8260C	10/31/14 14:59	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	SW8260C	10/31/14 14:59	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260C	10/31/14 14:59	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260C	10/31/14 14:59	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260C	10/31/14 14:59	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW8260C	10/31/14 14:59	WAT	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	SW8260C	10/31/14 14:59	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	SW8260C	10/31/14 14:59	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW8260C	10/31/14 14:59	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW8260C	10/31/14 14:59	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW8260C	10/31/14 14:59	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	SW8260C	10/31/14 14:59	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	SW8260C	10/31/14 14:59	WAT	91-57-6	

Lab Sample ID: S63380.03
Sample Tag: SS-2_10272014
Collected Date/Time: 10/27/2014 09:57
Matrix: Groundwater
COC Reference: 87709

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	4.9	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
pH check for VOCs	<2	STD Units		N/A	11/03/14 10:32	LBR		
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	10	SW8260C	10/31/14 15:39	WAT	60-29-7	
Acetone	Not detected	ug/L	50	SW8260C	10/31/14 15:39	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	SW8260C	10/31/14 15:39	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	SW8260C	10/31/14 15:39	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW8260C	10/31/14 15:39	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	SW8260C	10/31/14 15:39	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	SW8260C	10/31/14 15:39	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW8260C	10/31/14 15:39	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	SW8260C	10/31/14 15:39	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW8260C	10/31/14 15:39	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	SW8260C	10/31/14 15:39	WAT	74-83-9	
Chloroethane	Not detected	ug/L	5	SW8260C	10/31/14 15:39	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260C	10/31/14 15:39	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260C	10/31/14 15:39	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	SW8260C	10/31/14 15:39	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260C	10/31/14 15:39	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260C	10/31/14 15:39	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260C	10/31/14 15:39	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	SW8260C	10/31/14 15:39	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	SW8260C	10/31/14 15:39	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	SW8260C	10/31/14 15:39	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260C	10/31/14 15:39	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW8260C	10/31/14 15:39	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	SW8260C	10/31/14 15:39	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW8260C	10/31/14 15:39	WAT	56-23-5	
Benzene	Not detected	ug/L	1	SW8260C	10/31/14 15:39	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260C	10/31/14 15:39	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW8260C	10/31/14 15:39	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260C	10/31/14 15:39	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW8260C	10/31/14 15:39	WAT	75-27-4	
Dibromomethane	Not detected	ug/L	5	SW8260C	10/31/14 15:39	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260C	10/31/14 15:39	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	SW8260C	10/31/14 15:39	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260C	10/31/14 15:39	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260C	10/31/14 15:39	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW8260C	10/31/14 15:39	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW8260C	10/31/14 15:39	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	SW8260C	10/31/14 15:39	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260C	10/31/14 15:39	WAT	106-93-4	

Lab Sample ID: S63380.03 (continued)
Sample Tag: SS-2_10272014

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	SW8260C	10/31/14 15:39	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW8260C	10/31/14 15:39	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	SW8260C	10/31/14 15:39	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	SW8260C	10/31/14 15:39	WAT		
o-Xylene	Not detected	ug/L	1	SW8260C	10/31/14 15:39	WAT	95-47-6	
Styrene	Not detected	ug/L	1	SW8260C	10/31/14 15:39	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	SW8260C	10/31/14 15:39	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	SW8260C	10/31/14 15:39	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260C	10/31/14 15:39	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	SW8260C	10/31/14 15:39	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	SW8260C	10/31/14 15:39	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	SW8260C	10/31/14 15:39	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW8260C	10/31/14 15:39	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	SW8260C	10/31/14 15:39	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW8260C	10/31/14 15:39	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	SW8260C	10/31/14 15:39	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	SW8260C	10/31/14 15:39	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260C	10/31/14 15:39	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260C	10/31/14 15:39	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260C	10/31/14 15:39	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW8260C	10/31/14 15:39	WAT	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	SW8260C	10/31/14 15:39	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	SW8260C	10/31/14 15:39	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW8260C	10/31/14 15:39	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW8260C	10/31/14 15:39	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW8260C	10/31/14 15:39	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	SW8260C	10/31/14 15:39	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	SW8260C	10/31/14 15:39	WAT	91-57-6	

Lab Sample ID: S63380.04
Sample Tag: SS-5_10272014
Collected Date/Time: 10/27/2014 10:15
Matrix: Groundwater
COC Reference: 87709

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	4.9	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
pH check for VOCs	<2	STD Units		N/A	11/03/14 10:32	LBR		
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	10	SW8260C	10/31/14 15:19	WAT	60-29-7	
Acetone	Not detected	ug/L	50	SW8260C	10/31/14 15:19	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	SW8260C	10/31/14 15:19	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	SW8260C	10/31/14 15:19	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW8260C	10/31/14 15:19	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	SW8260C	10/31/14 15:19	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	SW8260C	10/31/14 15:19	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW8260C	10/31/14 15:19	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	SW8260C	10/31/14 15:19	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW8260C	10/31/14 15:19	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	SW8260C	10/31/14 15:19	WAT	74-83-9	
Chloroethane	Not detected	ug/L	5	SW8260C	10/31/14 15:19	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260C	10/31/14 15:19	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260C	10/31/14 15:19	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	SW8260C	10/31/14 15:19	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260C	10/31/14 15:19	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260C	10/31/14 15:19	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260C	10/31/14 15:19	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	SW8260C	10/31/14 15:19	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	SW8260C	10/31/14 15:19	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	SW8260C	10/31/14 15:19	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260C	10/31/14 15:19	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW8260C	10/31/14 15:19	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	SW8260C	10/31/14 15:19	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW8260C	10/31/14 15:19	WAT	56-23-5	
Benzene	Not detected	ug/L	1	SW8260C	10/31/14 15:19	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260C	10/31/14 15:19	WAT	107-06-2	
Trichloroethene	2	ug/L	1	SW8260C	10/31/14 15:19	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260C	10/31/14 15:19	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW8260C	10/31/14 15:19	WAT	75-27-4	
Dibromomethane	Not detected	ug/L	5	SW8260C	10/31/14 15:19	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260C	10/31/14 15:19	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	SW8260C	10/31/14 15:19	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260C	10/31/14 15:19	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260C	10/31/14 15:19	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW8260C	10/31/14 15:19	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW8260C	10/31/14 15:19	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	SW8260C	10/31/14 15:19	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260C	10/31/14 15:19	WAT	106-93-4	

Lab Sample ID: S63380.04 (continued)
Sample Tag: SS-5_10272014

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	SW8260C	10/31/14 15:19	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW8260C	10/31/14 15:19	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	SW8260C	10/31/14 15:19	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	SW8260C	10/31/14 15:19	WAT		
o-Xylene	Not detected	ug/L	1	SW8260C	10/31/14 15:19	WAT	95-47-6	
Styrene	Not detected	ug/L	1	SW8260C	10/31/14 15:19	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	SW8260C	10/31/14 15:19	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	SW8260C	10/31/14 15:19	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260C	10/31/14 15:19	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	SW8260C	10/31/14 15:19	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	SW8260C	10/31/14 15:19	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	SW8260C	10/31/14 15:19	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW8260C	10/31/14 15:19	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	SW8260C	10/31/14 15:19	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW8260C	10/31/14 15:19	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	SW8260C	10/31/14 15:19	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	SW8260C	10/31/14 15:19	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260C	10/31/14 15:19	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260C	10/31/14 15:19	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260C	10/31/14 15:19	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW8260C	10/31/14 15:19	WAT	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	SW8260C	10/31/14 15:19	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	SW8260C	10/31/14 15:19	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW8260C	10/31/14 15:19	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW8260C	10/31/14 15:19	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW8260C	10/31/14 15:19	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	SW8260C	10/31/14 15:19	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	SW8260C	10/31/14 15:19	WAT	91-57-6	

Analytical Laboratory Report

Lab Sample ID: S63380.05
Sample Tag: MW-9_10272014
Collected Date/Time: 10/27/2014 13:10
Matrix: Groundwater
COC Reference: 87709

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	4.9	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
pH check for VOCs	<2	STD Units		N/A	11/03/14 10:27	LBR		
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	10	SW8260C	10/31/14 14:21	WAT	60-29-7	
Acetone	Not detected	ug/L	50	SW8260C	10/31/14 14:21	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	SW8260C	10/31/14 14:21	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	SW8260C	10/31/14 14:21	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW8260C	10/31/14 14:21	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	SW8260C	10/31/14 14:21	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	SW8260C	10/31/14 14:21	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW8260C	10/31/14 14:21	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	SW8260C	10/31/14 14:21	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW8260C	10/31/14 14:21	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	SW8260C	10/31/14 14:21	WAT	74-83-9	
Chloroethane	Not detected	ug/L	5	SW8260C	10/31/14 14:21	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260C	10/31/14 14:21	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260C	10/31/14 14:21	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	SW8260C	10/31/14 14:21	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260C	10/31/14 14:21	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260C	10/31/14 14:21	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260C	10/31/14 14:21	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	SW8260C	10/31/14 14:21	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	SW8260C	10/31/14 14:21	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	SW8260C	10/31/14 14:21	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260C	10/31/14 14:21	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW8260C	10/31/14 14:21	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	SW8260C	10/31/14 14:21	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW8260C	10/31/14 14:21	WAT	56-23-5	
Benzene	Not detected	ug/L	1	SW8260C	10/31/14 14:21	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260C	10/31/14 14:21	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW8260C	10/31/14 14:21	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260C	10/31/14 14:21	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW8260C	10/31/14 14:21	WAT	75-27-4	
Dibromomethane	Not detected	ug/L	5	SW8260C	10/31/14 14:21	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260C	10/31/14 14:21	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	SW8260C	10/31/14 14:21	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260C	10/31/14 14:21	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260C	10/31/14 14:21	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW8260C	10/31/14 14:21	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW8260C	10/31/14 14:21	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	SW8260C	10/31/14 14:21	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260C	10/31/14 14:21	WAT	106-93-4	

Lab Sample ID: S63380.05 (continued)
Sample Tag: MW-9_10272014

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	SW8260C	10/31/14 14:21	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW8260C	10/31/14 14:21	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	SW8260C	10/31/14 14:21	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	SW8260C	10/31/14 14:21	WAT		
o-Xylene	Not detected	ug/L	1	SW8260C	10/31/14 14:21	WAT	95-47-6	
Styrene	Not detected	ug/L	1	SW8260C	10/31/14 14:21	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	SW8260C	10/31/14 14:21	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	SW8260C	10/31/14 14:21	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260C	10/31/14 14:21	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	SW8260C	10/31/14 14:21	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	SW8260C	10/31/14 14:21	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	SW8260C	10/31/14 14:21	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW8260C	10/31/14 14:21	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	SW8260C	10/31/14 14:21	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW8260C	10/31/14 14:21	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	SW8260C	10/31/14 14:21	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	SW8260C	10/31/14 14:21	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260C	10/31/14 14:21	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260C	10/31/14 14:21	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260C	10/31/14 14:21	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW8260C	10/31/14 14:21	WAT	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	SW8260C	10/31/14 14:21	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	SW8260C	10/31/14 14:21	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW8260C	10/31/14 14:21	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW8260C	10/31/14 14:21	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW8260C	10/31/14 14:21	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	SW8260C	10/31/14 14:21	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	SW8260C	10/31/14 14:21	WAT	91-57-6	

Analytical Laboratory Report

Lab Sample ID: S63380.06
Sample Tag: MW-32S_10272014
Collected Date/Time: 10/27/2014 13:42
Matrix: Groundwater
COC Reference: 87709

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	4.9	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
pH check for VOCs	<2	STD Units		N/A	11/03/14 10:27	LBR		
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	10	SW8260C	10/31/14 19:08	WAT	60-29-7	
Acetone	Not detected	ug/L	50	SW8260C	10/31/14 19:08	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	SW8260C	10/31/14 19:08	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	SW8260C	10/31/14 19:08	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW8260C	10/31/14 19:08	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	SW8260C	10/31/14 19:08	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	SW8260C	10/31/14 19:08	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW8260C	10/31/14 19:08	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	SW8260C	10/31/14 19:08	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW8260C	10/31/14 19:08	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	SW8260C	10/31/14 19:08	WAT	74-83-9	
Chloroethane	Not detected	ug/L	5	SW8260C	10/31/14 19:08	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260C	10/31/14 19:08	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260C	10/31/14 19:08	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	SW8260C	10/31/14 19:08	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260C	10/31/14 19:08	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260C	10/31/14 19:08	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260C	10/31/14 19:08	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	SW8260C	10/31/14 19:08	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	SW8260C	10/31/14 19:08	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	SW8260C	10/31/14 19:08	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260C	10/31/14 19:08	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW8260C	10/31/14 19:08	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	SW8260C	10/31/14 19:08	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW8260C	10/31/14 19:08	WAT	56-23-5	
Benzene	Not detected	ug/L	1	SW8260C	10/31/14 19:08	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260C	10/31/14 19:08	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW8260C	10/31/14 19:08	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260C	10/31/14 19:08	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW8260C	10/31/14 19:08	WAT	75-27-4	
Dibromomethane	Not detected	ug/L	5	SW8260C	10/31/14 19:08	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260C	10/31/14 19:08	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	SW8260C	10/31/14 19:08	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260C	10/31/14 19:08	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260C	10/31/14 19:08	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW8260C	10/31/14 19:08	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW8260C	10/31/14 19:08	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	SW8260C	10/31/14 19:08	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260C	10/31/14 19:08	WAT	106-93-4	

Lab Sample ID: S63380.06 (continued)
Sample Tag: MW-32S_10272014

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	SW8260C	10/31/14 19:08	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW8260C	10/31/14 19:08	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	SW8260C	10/31/14 19:08	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	SW8260C	10/31/14 19:08	WAT		
o-Xylene	Not detected	ug/L	1	SW8260C	10/31/14 19:08	WAT	95-47-6	
Styrene	Not detected	ug/L	1	SW8260C	10/31/14 19:08	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	SW8260C	10/31/14 19:08	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	SW8260C	10/31/14 19:08	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260C	10/31/14 19:08	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	SW8260C	10/31/14 19:08	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	SW8260C	10/31/14 19:08	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	SW8260C	10/31/14 19:08	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW8260C	10/31/14 19:08	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	SW8260C	10/31/14 19:08	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW8260C	10/31/14 19:08	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	SW8260C	10/31/14 19:08	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	SW8260C	10/31/14 19:08	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260C	10/31/14 19:08	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260C	10/31/14 19:08	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260C	10/31/14 19:08	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW8260C	10/31/14 19:08	WAT	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	SW8260C	10/31/14 19:08	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	SW8260C	10/31/14 19:08	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW8260C	10/31/14 19:08	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW8260C	10/31/14 19:08	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW8260C	10/31/14 19:08	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	SW8260C	10/31/14 19:08	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	SW8260C	10/31/14 19:08	WAT	91-57-6	

Analytical Laboratory Report

Lab Sample ID: S63380.07
Sample Tag: MW-11_10272014
Collected Date/Time: 10/27/2014 14:00
Matrix: Groundwater
COC Reference: 87709

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	4.9	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
pH check for VOCs	<2	STD Units		N/A	11/03/14 10:27	LBR		
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	10	SW8260C	10/31/14 14:43	WAT	60-29-7	
Acetone	Not detected	ug/L	50	SW8260C	10/31/14 14:43	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	SW8260C	10/31/14 14:43	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	SW8260C	10/31/14 14:43	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW8260C	10/31/14 14:43	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	SW8260C	10/31/14 14:43	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	SW8260C	10/31/14 14:43	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW8260C	10/31/14 14:43	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	SW8260C	10/31/14 14:43	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW8260C	10/31/14 14:43	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	SW8260C	10/31/14 14:43	WAT	74-83-9	
Chloroethane	Not detected	ug/L	5	SW8260C	10/31/14 14:43	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260C	10/31/14 14:43	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260C	10/31/14 14:43	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	SW8260C	10/31/14 14:43	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260C	10/31/14 14:43	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260C	10/31/14 14:43	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260C	10/31/14 14:43	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	SW8260C	10/31/14 14:43	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	SW8260C	10/31/14 14:43	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	SW8260C	10/31/14 14:43	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260C	10/31/14 14:43	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW8260C	10/31/14 14:43	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	SW8260C	10/31/14 14:43	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW8260C	10/31/14 14:43	WAT	56-23-5	
Benzene	Not detected	ug/L	1	SW8260C	10/31/14 14:43	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260C	10/31/14 14:43	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW8260C	10/31/14 14:43	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260C	10/31/14 14:43	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW8260C	10/31/14 14:43	WAT	75-27-4	
Dibromomethane	Not detected	ug/L	5	SW8260C	10/31/14 14:43	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260C	10/31/14 14:43	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	SW8260C	10/31/14 14:43	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260C	10/31/14 14:43	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260C	10/31/14 14:43	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW8260C	10/31/14 14:43	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW8260C	10/31/14 14:43	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	SW8260C	10/31/14 14:43	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260C	10/31/14 14:43	WAT	106-93-4	

Lab Sample ID: S63380.07 (continued)
Sample Tag: MW-11_10272014

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	SW8260C	10/31/14 14:43	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW8260C	10/31/14 14:43	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	SW8260C	10/31/14 14:43	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	SW8260C	10/31/14 14:43	WAT		
o-Xylene	Not detected	ug/L	1	SW8260C	10/31/14 14:43	WAT	95-47-6	
Styrene	Not detected	ug/L	1	SW8260C	10/31/14 14:43	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	SW8260C	10/31/14 14:43	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	SW8260C	10/31/14 14:43	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260C	10/31/14 14:43	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	SW8260C	10/31/14 14:43	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	SW8260C	10/31/14 14:43	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	SW8260C	10/31/14 14:43	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW8260C	10/31/14 14:43	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	SW8260C	10/31/14 14:43	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW8260C	10/31/14 14:43	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	SW8260C	10/31/14 14:43	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	SW8260C	10/31/14 14:43	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260C	10/31/14 14:43	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260C	10/31/14 14:43	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260C	10/31/14 14:43	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW8260C	10/31/14 14:43	WAT	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	SW8260C	10/31/14 14:43	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	SW8260C	10/31/14 14:43	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW8260C	10/31/14 14:43	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW8260C	10/31/14 14:43	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW8260C	10/31/14 14:43	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	SW8260C	10/31/14 14:43	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	SW8260C	10/31/14 14:43	WAT	91-57-6	

Lab Sample ID: S63380.08
Sample Tag: MW-27_10272014
Collected Date/Time: 10/27/2014 15:00
Matrix: Groundwater
COC Reference: 87709

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	4.9	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
pH check for VOCs	<2	STD Units		N/A	11/03/14 10:27	LBR		
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	10	SW8260C	10/31/14 15:05	WAT	60-29-7	
Acetone	Not detected	ug/L	50	SW8260C	10/31/14 15:05	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	SW8260C	10/31/14 15:05	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	SW8260C	10/31/14 15:05	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW8260C	10/31/14 15:05	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	SW8260C	10/31/14 15:05	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	SW8260C	10/31/14 15:05	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW8260C	10/31/14 15:05	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	SW8260C	10/31/14 15:05	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW8260C	10/31/14 15:05	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	SW8260C	10/31/14 15:05	WAT	74-83-9	
Chloroethane	Not detected	ug/L	5	SW8260C	10/31/14 15:05	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260C	10/31/14 15:05	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260C	10/31/14 15:05	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	SW8260C	10/31/14 15:05	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260C	10/31/14 15:05	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260C	10/31/14 15:05	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260C	10/31/14 15:05	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	SW8260C	10/31/14 15:05	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	SW8260C	10/31/14 15:05	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	SW8260C	10/31/14 15:05	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260C	10/31/14 15:05	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW8260C	10/31/14 15:05	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	SW8260C	10/31/14 15:05	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW8260C	10/31/14 15:05	WAT	56-23-5	
Benzene	Not detected	ug/L	1	SW8260C	10/31/14 15:05	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260C	10/31/14 15:05	WAT	107-06-2	
Trichloroethene	5	ug/L	1	SW8260C	10/31/14 15:05	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260C	10/31/14 15:05	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW8260C	10/31/14 15:05	WAT	75-27-4	
Dibromomethane	Not detected	ug/L	5	SW8260C	10/31/14 15:05	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260C	10/31/14 15:05	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	SW8260C	10/31/14 15:05	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260C	10/31/14 15:05	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260C	10/31/14 15:05	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW8260C	10/31/14 15:05	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW8260C	10/31/14 15:05	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	SW8260C	10/31/14 15:05	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260C	10/31/14 15:05	WAT	106-93-4	

Lab Sample ID: S63380.08 (continued)
Sample Tag: MW-27_10272014

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	SW8260C	10/31/14 15:05	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW8260C	10/31/14 15:05	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	SW8260C	10/31/14 15:05	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	SW8260C	10/31/14 15:05	WAT		
o-Xylene	Not detected	ug/L	1	SW8260C	10/31/14 15:05	WAT	95-47-6	
Styrene	Not detected	ug/L	1	SW8260C	10/31/14 15:05	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	SW8260C	10/31/14 15:05	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	SW8260C	10/31/14 15:05	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260C	10/31/14 15:05	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	SW8260C	10/31/14 15:05	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	SW8260C	10/31/14 15:05	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	SW8260C	10/31/14 15:05	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW8260C	10/31/14 15:05	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	SW8260C	10/31/14 15:05	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW8260C	10/31/14 15:05	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	SW8260C	10/31/14 15:05	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	SW8260C	10/31/14 15:05	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260C	10/31/14 15:05	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260C	10/31/14 15:05	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260C	10/31/14 15:05	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW8260C	10/31/14 15:05	WAT	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	SW8260C	10/31/14 15:05	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	SW8260C	10/31/14 15:05	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW8260C	10/31/14 15:05	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW8260C	10/31/14 15:05	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW8260C	10/31/14 15:05	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	SW8260C	10/31/14 15:05	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	SW8260C	10/31/14 15:05	WAT	91-57-6	

Analytical Laboratory Report

Lab Sample ID: S63380.09
Sample Tag: MW-27_10272014 MS
Collected Date/Time: 10/27/2014 15:00
Matrix: Groundwater
COC Reference: 87709

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	4.9	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
pH check for VOCs	<2	STD Units		N/A	11/03/14 10:27	LBR		
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	47	ug/L	10	SW8260C	10/31/14 20:58	WAT	60-29-7	1
Acetone	Not detected	ug/L	50	SW8260C	10/31/14 20:58	WAT	67-64-1	1
Methyl iodide	47	ug/L	1	SW8260C	10/31/14 20:58	WAT	74-88-4	1
Carbon disulfide	44	ug/L	5	SW8260C	10/31/14 20:58	WAT	75-15-0	1
tert-Methyl butyl ether (MTBE)	47	ug/L	5	SW8260C	10/31/14 20:58	WAT	1634-04-4	1
Acrylonitrile	47	ug/L	2	SW8260C	10/31/14 20:58	WAT	107-13-1	1
2-Butanone (MEK)	42	ug/L	25	SW8260C	10/31/14 20:58	WAT	78-93-3	1
Dichlorodifluoromethane	46	ug/L	5	SW8260C	10/31/14 20:58	WAT	75-71-8	1
Chloromethane	45	ug/L	5	SW8260C	10/31/14 20:58	WAT	74-87-3	1
Vinyl chloride	47	ug/L	1	SW8260C	10/31/14 20:58	WAT	75-01-4	1
Bromomethane	50	ug/L	5	SW8260C	10/31/14 20:58	WAT	74-83-9	1
Chloroethane	48	ug/L	5	SW8260C	10/31/14 20:58	WAT	75-00-3	1
Trichlorofluoromethane	53	ug/L	1	SW8260C	10/31/14 20:58	WAT	75-69-4	1
1,1-Dichloroethene	50	ug/L	1	SW8260C	10/31/14 20:58	WAT	75-35-4	1
Methylene chloride	47	ug/L	5	SW8260C	10/31/14 20:58	WAT	75-09-2	1
trans-1,2-Dichloroethene	50	ug/L	1	SW8260C	10/31/14 20:58	WAT	156-60-5	1
1,1-Dichloroethane	51	ug/L	1	SW8260C	10/31/14 20:58	WAT	75-34-3	1
cis-1,2-Dichloroethene	50	ug/L	1	SW8260C	10/31/14 20:58	WAT	156-59-2	1
Tetrahydrofuran	Not detected	ug/L	90	SW8260C	10/31/14 20:58	WAT	109-99-9	1
Chloroform	51	ug/L	1	SW8260C	10/31/14 20:58	WAT	67-66-3	1
Bromochloromethane	50	ug/L	1	SW8260C	10/31/14 20:58	WAT	74-97-5	1
1,1,1-Trichloroethane	53	ug/L	1	SW8260C	10/31/14 20:58	WAT	71-55-6	1
4-Methyl-2-pentanone (MIBK)	55	ug/L	50	SW8260C	10/31/14 20:58	WAT	108-10-1	1
2-Hexanone	51	ug/L	50	SW8260C	10/31/14 20:58	WAT	591-78-6	1
Carbon tetrachloride	57	ug/L	1	SW8260C	10/31/14 20:58	WAT	56-23-5	1
Benzene	52	ug/L	1	SW8260C	10/31/14 20:58	WAT	71-43-2	1
1,2-Dichloroethane	53	ug/L	1	SW8260C	10/31/14 20:58	WAT	107-06-2	1
Trichloroethene	57	ug/L	1	SW8260C	10/31/14 20:58	WAT	79-01-6	1
1,2-Dichloropropane	52	ug/L	1	SW8260C	10/31/14 20:58	WAT	78-87-5	1
Bromodichloromethane	55	ug/L	1	SW8260C	10/31/14 20:58	WAT	75-27-4	1
Dibromomethane	52	ug/L	5	SW8260C	10/31/14 20:58	WAT	74-95-3	1
cis-1,3-Dichloropropene	53	ug/L	1	SW8260C	10/31/14 20:58	WAT	10061-01-5	1
Toluene	52	ug/L	1	SW8260C	10/31/14 20:58	WAT	108-88-3	1
trans-1,3-Dichloropropene	49	ug/L	1	SW8260C	10/31/14 20:58	WAT	10061-02-6	1
1,1,2-Trichloroethane	50	ug/L	1	SW8260C	10/31/14 20:58	WAT	79-00-5	1
Tetrachloroethene	52	ug/L	1	SW8260C	10/31/14 20:58	WAT	127-18-4	1
trans-1,4-Dichloro-2-butene	52	ug/L	1	SW8260C	10/31/14 20:58	WAT	110-57-6	1
Dibromochloromethane	55	ug/L	5	SW8260C	10/31/14 20:58	WAT	124-48-1	1

1-Spiked at 50ug/l

Lab Sample ID: S63380.09 (continued)
Sample Tag: MW-27_10272014 MS

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
1,2-Dibromoethane	51	ug/L	1	SW8260C	10/31/14 20:58	WAT	106-93-4	1
Chlorobenzene	51	ug/L	1	SW8260C	10/31/14 20:58	WAT	108-90-7	1
1,1,1,2-Tetrachloroethane	56	ug/L	1	SW8260C	10/31/14 20:58	WAT	630-20-6	1
Ethylbenzene	53	ug/L	1	SW8260C	10/31/14 20:58	WAT	100-41-4	1
p,m-Xylene	105	ug/L	2	SW8260C	10/31/14 20:58	WAT		1
o-Xylene	53	ug/L	1	SW8260C	10/31/14 20:58	WAT	95-47-6	1
Styrene	54	ug/L	1	SW8260C	10/31/14 20:58	WAT	100-42-5	1
Isopropylbenzene	54	ug/L	5	SW8260C	10/31/14 20:58	WAT	98-82-8	1
Bromoform	51	ug/L	1	SW8260C	10/31/14 20:58	WAT	75-25-2	1
1,1,2,2-Tetrachloroethane	51	ug/L	1	SW8260C	10/31/14 20:58	WAT	79-34-5	1
1,2,3-Trichloropropane	52	ug/L	1	SW8260C	10/31/14 20:58	WAT	96-18-4	1
n-Propylbenzene	53	ug/L	1	SW8260C	10/31/14 20:58	WAT	103-65-1	1
Bromobenzene	51	ug/L	1	SW8260C	10/31/14 20:58	WAT	108-86-1	1
1,3,5-Trimethylbenzene	53	ug/L	1	SW8260C	10/31/14 20:58	WAT	108-67-8	1
tert-Butylbenzene	54	ug/L	1	SW8260C	10/31/14 20:58	WAT	98-06-6	1
1,2,4-Trimethylbenzene	53	ug/L	1	SW8260C	10/31/14 20:58	WAT	95-63-6	1
sec-Butylbenzene	53	ug/L	1	SW8260C	10/31/14 20:58	WAT	135-98-8	1
p-Isopropyltoluene	53	ug/L	5	SW8260C	10/31/14 20:58	WAT	99-87-6	1
1,3-Dichlorobenzene	51	ug/L	1	SW8260C	10/31/14 20:58	WAT	541-73-1	1
1,4-Dichlorobenzene	51	ug/L	1	SW8260C	10/31/14 20:58	WAT	106-46-7	1
1,2-Dichlorobenzene	51	ug/L	1	SW8260C	10/31/14 20:58	WAT	95-50-1	1
1,2,3-Trimethylbenzene	51	ug/L	1	SW8260C	10/31/14 20:58	WAT	526-73-8	1
n-Butylbenzene	53	ug/L	1	SW8260C	10/31/14 20:58	WAT	104-51-8	1
Hexachloroethane	50	ug/L	5	SW8260C	10/31/14 20:58	WAT	67-72-1	1
1,2-Dibromo-3-chloropropane	49	ug/L	5	SW8260C	10/31/14 20:58	WAT	96-12-8	1
1,2,4-Trichlorobenzene	53	ug/L	5	SW8260C	10/31/14 20:58	WAT	120-82-1	1
1,2,3-Trichlorobenzene	53	ug/L	5	SW8260C	10/31/14 20:58	WAT	87-61-6	1
Naphthalene	57	ug/L	5	SW8260C	10/31/14 20:58	WAT	91-20-3	1
2-Methylnaphthalene	53	ug/L	5	SW8260C	10/31/14 20:58	WAT	91-57-6	1

1-Spiked at 50ug/l

Analytical Laboratory Report

Lab Sample ID: S63380.10
Sample Tag: MW-27_10272014 MSD
Collected Date/Time: 10/27/2014 15:00
Matrix: Groundwater
COC Reference: 87709

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	4.9	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
pH check for VOCs	<2	STD Units		N/A	11/03/14 10:27	LBR		
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	47	ug/L	10	SW8260C	10/31/14 21:20	WAT	60-29-7	1
Acetone	Not detected	ug/L	50	SW8260C	10/31/14 21:20	WAT	67-64-1	1
Methyl iodide	47	ug/L	1	SW8260C	10/31/14 21:20	WAT	74-88-4	1
Carbon disulfide	44	ug/L	5	SW8260C	10/31/14 21:20	WAT	75-15-0	1
tert-Methyl butyl ether (MTBE)	48	ug/L	5	SW8260C	10/31/14 21:20	WAT	1634-04-4	1
Acrylonitrile	48	ug/L	2	SW8260C	10/31/14 21:20	WAT	107-13-1	1
2-Butanone (MEK)	42	ug/L	25	SW8260C	10/31/14 21:20	WAT	78-93-3	1
Dichlorodifluoromethane	45	ug/L	5	SW8260C	10/31/14 21:20	WAT	75-71-8	1
Chloromethane	45	ug/L	5	SW8260C	10/31/14 21:20	WAT	74-87-3	1
Vinyl chloride	46	ug/L	1	SW8260C	10/31/14 21:20	WAT	75-01-4	1
Bromomethane	50	ug/L	5	SW8260C	10/31/14 21:20	WAT	74-83-9	1
Chloroethane	48	ug/L	5	SW8260C	10/31/14 21:20	WAT	75-00-3	1
Trichlorofluoromethane	52	ug/L	1	SW8260C	10/31/14 21:20	WAT	75-69-4	1
1,1-Dichloroethene	50	ug/L	1	SW8260C	10/31/14 21:20	WAT	75-35-4	1
Methylene chloride	47	ug/L	5	SW8260C	10/31/14 21:20	WAT	75-09-2	1
trans-1,2-Dichloroethene	50	ug/L	1	SW8260C	10/31/14 21:20	WAT	156-60-5	1
1,1-Dichloroethane	50	ug/L	1	SW8260C	10/31/14 21:20	WAT	75-34-3	1
cis-1,2-Dichloroethene	49	ug/L	1	SW8260C	10/31/14 21:20	WAT	156-59-2	1
Tetrahydrofuran	Not detected	ug/L	90	SW8260C	10/31/14 21:20	WAT	109-99-9	1
Chloroform	51	ug/L	1	SW8260C	10/31/14 21:20	WAT	67-66-3	1
Bromochloromethane	49	ug/L	1	SW8260C	10/31/14 21:20	WAT	74-97-5	1
1,1,1-Trichloroethane	52	ug/L	1	SW8260C	10/31/14 21:20	WAT	71-55-6	1
4-Methyl-2-pentanone (MIBK)	54	ug/L	50	SW8260C	10/31/14 21:20	WAT	108-10-1	1
2-Hexanone	Not detected	ug/L	50	SW8260C	10/31/14 21:20	WAT	591-78-6	1
Carbon tetrachloride	54	ug/L	1	SW8260C	10/31/14 21:20	WAT	56-23-5	1
Benzene	49	ug/L	1	SW8260C	10/31/14 21:20	WAT	71-43-2	1
1,2-Dichloroethane	50	ug/L	1	SW8260C	10/31/14 21:20	WAT	107-06-2	1
Trichloroethene	54	ug/L	1	SW8260C	10/31/14 21:20	WAT	79-01-6	1
1,2-Dichloropropane	50	ug/L	1	SW8260C	10/31/14 21:20	WAT	78-87-5	1
Bromodichloromethane	52	ug/L	1	SW8260C	10/31/14 21:20	WAT	75-27-4	1
Dibromomethane	50	ug/L	5	SW8260C	10/31/14 21:20	WAT	74-95-3	1
cis-1,3-Dichloropropene	50	ug/L	1	SW8260C	10/31/14 21:20	WAT	10061-01-5	1
Toluene	49	ug/L	1	SW8260C	10/31/14 21:20	WAT	108-88-3	1
trans-1,3-Dichloropropene	47	ug/L	1	SW8260C	10/31/14 21:20	WAT	10061-02-6	1
1,1,2-Trichloroethane	48	ug/L	1	SW8260C	10/31/14 21:20	WAT	79-00-5	1
Tetrachloroethene	50	ug/L	1	SW8260C	10/31/14 21:20	WAT	127-18-4	1
trans-1,4-Dichloro-2-butene	52	ug/L	1	SW8260C	10/31/14 21:20	WAT	110-57-6	1
Dibromochloromethane	53	ug/L	5	SW8260C	10/31/14 21:20	WAT	124-48-1	1

1-Spiked at 50ug/l

Lab Sample ID: S63380.10 (continued)
Sample Tag: MW-27_10272014 MSD

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
1,2-Dibromoethane	49	ug/L	1	SW8260C	10/31/14 21:20	WAT	106-93-4	1
Chlorobenzene	49	ug/L	1	SW8260C	10/31/14 21:20	WAT	108-90-7	1
1,1,1,2-Tetrachloroethane	54	ug/L	1	SW8260C	10/31/14 21:20	WAT	630-20-6	1
Ethylbenzene	52	ug/L	1	SW8260C	10/31/14 21:20	WAT	100-41-4	1
p,m-Xylene	102	ug/L	2	SW8260C	10/31/14 21:20	WAT		1
o-Xylene	52	ug/L	1	SW8260C	10/31/14 21:20	WAT	95-47-6	1
Styrene	52	ug/L	1	SW8260C	10/31/14 21:20	WAT	100-42-5	1
Isopropylbenzene	53	ug/L	5	SW8260C	10/31/14 21:20	WAT	98-82-8	1
Bromoform	51	ug/L	1	SW8260C	10/31/14 21:20	WAT	75-25-2	1
1,1,2,2-Tetrachloroethane	51	ug/L	1	SW8260C	10/31/14 21:20	WAT	79-34-5	1
1,2,3-Trichloropropane	52	ug/L	1	SW8260C	10/31/14 21:20	WAT	96-18-4	1
n-Propylbenzene	52	ug/L	1	SW8260C	10/31/14 21:20	WAT	103-65-1	1
Bromobenzene	51	ug/L	1	SW8260C	10/31/14 21:20	WAT	108-86-1	1
1,3,5-Trimethylbenzene	52	ug/L	1	SW8260C	10/31/14 21:20	WAT	108-67-8	1
tert-Butylbenzene	53	ug/L	1	SW8260C	10/31/14 21:20	WAT	98-06-6	1
1,2,4-Trimethylbenzene	52	ug/L	1	SW8260C	10/31/14 21:20	WAT	95-63-6	1
sec-Butylbenzene	52	ug/L	1	SW8260C	10/31/14 21:20	WAT	135-98-8	1
p-Isopropyltoluene	52	ug/L	5	SW8260C	10/31/14 21:20	WAT	99-87-6	1
1,3-Dichlorobenzene	50	ug/L	1	SW8260C	10/31/14 21:20	WAT	541-73-1	1
1,4-Dichlorobenzene	50	ug/L	1	SW8260C	10/31/14 21:20	WAT	106-46-7	1
1,2-Dichlorobenzene	50	ug/L	1	SW8260C	10/31/14 21:20	WAT	95-50-1	1
1,2,3-Trimethylbenzene	49	ug/L	1	SW8260C	10/31/14 21:20	WAT	526-73-8	1
n-Butylbenzene	52	ug/L	1	SW8260C	10/31/14 21:20	WAT	104-51-8	1
Hexachloroethane	49	ug/L	5	SW8260C	10/31/14 21:20	WAT	67-72-1	1
1,2-Dibromo-3-chloropropane	51	ug/L	5	SW8260C	10/31/14 21:20	WAT	96-12-8	1
1,2,4-Trichlorobenzene	53	ug/L	5	SW8260C	10/31/14 21:20	WAT	120-82-1	1
1,2,3-Trichlorobenzene	55	ug/L	5	SW8260C	10/31/14 21:20	WAT	87-61-6	1
Naphthalene	61	ug/L	5	SW8260C	10/31/14 21:20	WAT	91-20-3	1
2-Methylnaphthalene	65	ug/L	5	SW8260C	10/31/14 21:20	WAT	91-57-6	1

1-Spiked at 50ug/l

Analytical Laboratory Report

Lab Sample ID: S63380.11
Sample Tag: MW-32D_10272014
Collected Date/Time: 10/27/2014 14:42
Matrix: Groundwater
COC Reference: 87709

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	4.9	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
pH check for VOCs	<2	STD Units		N/A	11/03/14 10:27	LBR		
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	10	SW8260C	10/31/14 19:30	WAT	60-29-7	
Acetone	Not detected	ug/L	50	SW8260C	10/31/14 19:30	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	SW8260C	10/31/14 19:30	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	SW8260C	10/31/14 19:30	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW8260C	10/31/14 19:30	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	SW8260C	10/31/14 19:30	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	SW8260C	10/31/14 19:30	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW8260C	10/31/14 19:30	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	SW8260C	10/31/14 19:30	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW8260C	10/31/14 19:30	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	SW8260C	10/31/14 19:30	WAT	74-83-9	
Chloroethane	Not detected	ug/L	5	SW8260C	10/31/14 19:30	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260C	10/31/14 19:30	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260C	10/31/14 19:30	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	SW8260C	10/31/14 19:30	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260C	10/31/14 19:30	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260C	10/31/14 19:30	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260C	10/31/14 19:30	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	SW8260C	10/31/14 19:30	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	SW8260C	10/31/14 19:30	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	SW8260C	10/31/14 19:30	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260C	10/31/14 19:30	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW8260C	10/31/14 19:30	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	SW8260C	10/31/14 19:30	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW8260C	10/31/14 19:30	WAT	56-23-5	
Benzene	Not detected	ug/L	1	SW8260C	10/31/14 19:30	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260C	10/31/14 19:30	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW8260C	10/31/14 19:30	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260C	10/31/14 19:30	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW8260C	10/31/14 19:30	WAT	75-27-4	
Dibromomethane	Not detected	ug/L	5	SW8260C	10/31/14 19:30	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260C	10/31/14 19:30	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	SW8260C	10/31/14 19:30	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260C	10/31/14 19:30	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260C	10/31/14 19:30	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW8260C	10/31/14 19:30	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW8260C	10/31/14 19:30	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	SW8260C	10/31/14 19:30	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260C	10/31/14 19:30	WAT	106-93-4	

Lab Sample ID: S63380.11 (continued)
Sample Tag: MW-32D_10272014

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	SW8260C	10/31/14 19:30	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW8260C	10/31/14 19:30	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	SW8260C	10/31/14 19:30	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	SW8260C	10/31/14 19:30	WAT		
o-Xylene	Not detected	ug/L	1	SW8260C	10/31/14 19:30	WAT	95-47-6	
Styrene	Not detected	ug/L	1	SW8260C	10/31/14 19:30	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	SW8260C	10/31/14 19:30	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	SW8260C	10/31/14 19:30	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260C	10/31/14 19:30	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	SW8260C	10/31/14 19:30	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	SW8260C	10/31/14 19:30	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	SW8260C	10/31/14 19:30	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW8260C	10/31/14 19:30	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	SW8260C	10/31/14 19:30	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW8260C	10/31/14 19:30	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	SW8260C	10/31/14 19:30	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	SW8260C	10/31/14 19:30	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260C	10/31/14 19:30	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260C	10/31/14 19:30	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260C	10/31/14 19:30	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW8260C	10/31/14 19:30	WAT	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	SW8260C	10/31/14 19:30	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	SW8260C	10/31/14 19:30	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW8260C	10/31/14 19:30	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW8260C	10/31/14 19:30	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW8260C	10/31/14 19:30	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	SW8260C	10/31/14 19:30	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	SW8260C	10/31/14 19:30	WAT	91-57-6	

Lab Sample ID: S63380.12
Sample Tag: MW-31_10272014
Collected Date/Time: 10/27/2014 15:47
Matrix: Groundwater
COC Reference: 87709

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	4.9	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
pH check for VOCs	<2	STD Units		N/A	11/03/14 10:27	LBR		
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	10	SW8260C	10/31/14 15:28	WAT	60-29-7	
Acetone	Not detected	ug/L	50	SW8260C	10/31/14 15:28	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	SW8260C	10/31/14 15:28	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	SW8260C	10/31/14 15:28	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW8260C	10/31/14 15:28	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	SW8260C	10/31/14 15:28	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	SW8260C	10/31/14 15:28	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW8260C	10/31/14 15:28	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	SW8260C	10/31/14 15:28	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW8260C	10/31/14 15:28	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	SW8260C	10/31/14 15:28	WAT	74-83-9	
Chloroethane	Not detected	ug/L	5	SW8260C	10/31/14 15:28	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260C	10/31/14 15:28	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260C	10/31/14 15:28	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	SW8260C	10/31/14 15:28	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260C	10/31/14 15:28	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260C	10/31/14 15:28	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260C	10/31/14 15:28	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	SW8260C	10/31/14 15:28	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	SW8260C	10/31/14 15:28	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	SW8260C	10/31/14 15:28	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260C	10/31/14 15:28	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW8260C	10/31/14 15:28	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	SW8260C	10/31/14 15:28	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW8260C	10/31/14 15:28	WAT	56-23-5	
Benzene	Not detected	ug/L	1	SW8260C	10/31/14 15:28	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260C	10/31/14 15:28	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW8260C	10/31/14 15:28	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260C	10/31/14 15:28	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW8260C	10/31/14 15:28	WAT	75-27-4	
Dibromomethane	Not detected	ug/L	5	SW8260C	10/31/14 15:28	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260C	10/31/14 15:28	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	SW8260C	10/31/14 15:28	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260C	10/31/14 15:28	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260C	10/31/14 15:28	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW8260C	10/31/14 15:28	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW8260C	10/31/14 15:28	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	SW8260C	10/31/14 15:28	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260C	10/31/14 15:28	WAT	106-93-4	

Lab Sample ID: S63380.12 (continued)
Sample Tag: MW-31_10272014

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	SW8260C	10/31/14 15:28	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW8260C	10/31/14 15:28	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	SW8260C	10/31/14 15:28	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	SW8260C	10/31/14 15:28	WAT		
o-Xylene	Not detected	ug/L	1	SW8260C	10/31/14 15:28	WAT	95-47-6	
Styrene	Not detected	ug/L	1	SW8260C	10/31/14 15:28	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	SW8260C	10/31/14 15:28	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	SW8260C	10/31/14 15:28	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260C	10/31/14 15:28	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	SW8260C	10/31/14 15:28	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	SW8260C	10/31/14 15:28	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	SW8260C	10/31/14 15:28	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW8260C	10/31/14 15:28	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	SW8260C	10/31/14 15:28	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW8260C	10/31/14 15:28	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	SW8260C	10/31/14 15:28	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	SW8260C	10/31/14 15:28	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260C	10/31/14 15:28	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260C	10/31/14 15:28	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260C	10/31/14 15:28	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW8260C	10/31/14 15:28	WAT	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	SW8260C	10/31/14 15:28	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	SW8260C	10/31/14 15:28	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW8260C	10/31/14 15:28	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW8260C	10/31/14 15:28	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW8260C	10/31/14 15:28	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	SW8260C	10/31/14 15:28	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	SW8260C	10/31/14 15:28	WAT	91-57-6	

Lab Sample ID: S63380.13
Sample Tag: MW-20_10272014
Collected Date/Time: 10/27/2014 15:50
Matrix: Groundwater
COC Reference: 87709

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	4.9	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
pH check for VOCs	<2	STD Units		N/A	11/03/14 10:27	LBR		
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	10	SW8260C	10/31/14 15:50	WAT	60-29-7	
Acetone	Not detected	ug/L	50	SW8260C	10/31/14 15:50	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	SW8260C	10/31/14 15:50	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	SW8260C	10/31/14 15:50	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW8260C	10/31/14 15:50	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	SW8260C	10/31/14 15:50	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	SW8260C	10/31/14 15:50	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW8260C	10/31/14 15:50	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	SW8260C	10/31/14 15:50	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW8260C	10/31/14 15:50	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	SW8260C	10/31/14 15:50	WAT	74-83-9	
Chloroethane	Not detected	ug/L	5	SW8260C	10/31/14 15:50	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260C	10/31/14 15:50	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260C	10/31/14 15:50	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	SW8260C	10/31/14 15:50	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260C	10/31/14 15:50	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260C	10/31/14 15:50	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260C	10/31/14 15:50	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	SW8260C	10/31/14 15:50	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	SW8260C	10/31/14 15:50	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	SW8260C	10/31/14 15:50	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260C	10/31/14 15:50	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW8260C	10/31/14 15:50	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	SW8260C	10/31/14 15:50	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW8260C	10/31/14 15:50	WAT	56-23-5	
Benzene	Not detected	ug/L	1	SW8260C	10/31/14 15:50	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260C	10/31/14 15:50	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW8260C	10/31/14 15:50	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260C	10/31/14 15:50	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW8260C	10/31/14 15:50	WAT	75-27-4	
Dibromomethane	Not detected	ug/L	5	SW8260C	10/31/14 15:50	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260C	10/31/14 15:50	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	SW8260C	10/31/14 15:50	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260C	10/31/14 15:50	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260C	10/31/14 15:50	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW8260C	10/31/14 15:50	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW8260C	10/31/14 15:50	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	SW8260C	10/31/14 15:50	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260C	10/31/14 15:50	WAT	106-93-4	

Lab Sample ID: S63380.13 (continued)
Sample Tag: MW-20_10272014

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	SW8260C	10/31/14 15:50	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW8260C	10/31/14 15:50	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	SW8260C	10/31/14 15:50	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	SW8260C	10/31/14 15:50	WAT		
o-Xylene	Not detected	ug/L	1	SW8260C	10/31/14 15:50	WAT	95-47-6	
Styrene	Not detected	ug/L	1	SW8260C	10/31/14 15:50	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	SW8260C	10/31/14 15:50	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	SW8260C	10/31/14 15:50	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260C	10/31/14 15:50	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	SW8260C	10/31/14 15:50	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	SW8260C	10/31/14 15:50	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	SW8260C	10/31/14 15:50	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW8260C	10/31/14 15:50	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	SW8260C	10/31/14 15:50	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW8260C	10/31/14 15:50	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	SW8260C	10/31/14 15:50	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	SW8260C	10/31/14 15:50	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260C	10/31/14 15:50	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260C	10/31/14 15:50	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260C	10/31/14 15:50	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW8260C	10/31/14 15:50	WAT	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	SW8260C	10/31/14 15:50	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	SW8260C	10/31/14 15:50	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW8260C	10/31/14 15:50	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW8260C	10/31/14 15:50	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW8260C	10/31/14 15:50	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	SW8260C	10/31/14 15:50	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	SW8260C	10/31/14 15:50	WAT	91-57-6	

Lab Sample ID: S63380.14
Sample Tag: MW-26_10272014
Collected Date/Time: 10/27/2014 16:40
Matrix: Groundwater
COC Reference: 87709

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	4.9	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
pH check for VOCs	<2	STD Units		N/A	11/03/14 10:27	LBR		
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	500	SW8260C	10/31/14 20:14	WAT	60-29-7	Y
Acetone	Not detected	ug/L	2,500	SW8260C	10/31/14 20:14	WAT	67-64-1	Y
Methyl iodide	Not detected	ug/L	50	SW8260C	10/31/14 20:14	WAT	74-88-4	Y
Carbon disulfide	Not detected	ug/L	300	SW8260C	10/31/14 20:14	WAT	75-15-0	Y
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	300	SW8260C	10/31/14 20:14	WAT	1634-04-4	Y
Acrylonitrile	Not detected	ug/L	100	SW8260C	10/31/14 20:14	WAT	107-13-1	Y
2-Butanone (MEK)	Not detected	ug/L	1,300	SW8260C	10/31/14 20:14	WAT	78-93-3	Y
Dichlorodifluoromethane	Not detected	ug/L	300	SW8260C	10/31/14 20:14	WAT	75-71-8	Y
Chloromethane	Not detected	ug/L	300	SW8260C	10/31/14 20:14	WAT	74-87-3	Y
Vinyl chloride	Not detected	ug/L	50	SW8260C	10/31/14 20:14	WAT	75-01-4	Y
Bromomethane	Not detected	ug/L	300	SW8260C	10/31/14 20:14	WAT	74-83-9	Y
Chloroethane	Not detected	ug/L	300	SW8260C	10/31/14 20:14	WAT	75-00-3	Y
Trichlorofluoromethane	Not detected	ug/L	50	SW8260C	10/31/14 20:14	WAT	75-69-4	Y
1,1-Dichloroethene	Not detected	ug/L	50	SW8260C	10/31/14 20:14	WAT	75-35-4	Y
Methylene chloride	Not detected	ug/L	300	SW8260C	10/31/14 20:14	WAT	75-09-2	Y
trans-1,2-Dichloroethene	Not detected	ug/L	50	SW8260C	10/31/14 20:14	WAT	156-60-5	Y
1,1-Dichloroethane	Not detected	ug/L	50	SW8260C	10/31/14 20:14	WAT	75-34-3	Y
cis-1,2-Dichloroethene	Not detected	ug/L	50	SW8260C	10/31/14 20:14	WAT	156-59-2	Y
Tetrahydrofuran	Not detected	ug/L	4,500	SW8260C	10/31/14 20:14	WAT	109-99-9	Y
Chloroform	Not detected	ug/L	50	SW8260C	10/31/14 20:14	WAT	67-66-3	Y
Bromochloromethane	Not detected	ug/L	50	SW8260C	10/31/14 20:14	WAT	74-97-5	Y
1,1,1-Trichloroethane	Not detected	ug/L	50	SW8260C	10/31/14 20:14	WAT	71-55-6	Y
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	2,500	SW8260C	10/31/14 20:14	WAT	108-10-1	Y
2-Hexanone	Not detected	ug/L	2,500	SW8260C	10/31/14 20:14	WAT	591-78-6	Y
Carbon tetrachloride	Not detected	ug/L	50	SW8260C	10/31/14 20:14	WAT	56-23-5	Y
Benzene	2,870	ug/L	50	SW8260C	10/31/14 20:14	WAT	71-43-2	Y
1,2-Dichloroethane	Not detected	ug/L	50	SW8260C	10/31/14 20:14	WAT	107-06-2	Y
Trichloroethene	Not detected	ug/L	50	SW8260C	10/31/14 20:14	WAT	79-01-6	Y
1,2-Dichloropropane	Not detected	ug/L	50	SW8260C	10/31/14 20:14	WAT	78-87-5	Y
Bromodichloromethane	Not detected	ug/L	50	SW8260C	10/31/14 20:14	WAT	75-27-4	Y
Dibromomethane	Not detected	ug/L	300	SW8260C	10/31/14 20:14	WAT	74-95-3	Y
cis-1,3-Dichloropropene	Not detected	ug/L	50	SW8260C	10/31/14 20:14	WAT	10061-01-5	Y
Toluene	Not detected	ug/L	50	SW8260C	10/31/14 20:14	WAT	108-88-3	Y
trans-1,3-Dichloropropene	Not detected	ug/L	50	SW8260C	10/31/14 20:14	WAT	10061-02-6	Y
1,1,2-Trichloroethane	Not detected	ug/L	50	SW8260C	10/31/14 20:14	WAT	79-00-5	Y
Tetrachloroethene	Not detected	ug/L	50	SW8260C	10/31/14 20:14	WAT	127-18-4	Y
trans-1,4-Dichloro-2-butene	Not detected	ug/L	50	SW8260C	10/31/14 20:14	WAT	110-57-6	Y
Dibromochloromethane	Not detected	ug/L	300	SW8260C	10/31/14 20:14	WAT	124-48-1	Y

Y-Elevated reporting limit due to high target concentration

Lab Sample ID: S63380.14 (continued)
Sample Tag: MW-26_10272014

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
1,2-Dibromoethane	Not detected	ug/L	50	SW8260C	10/31/14 20:14	WAT	106-93-4	Y
Chlorobenzene	Not detected	ug/L	50	SW8260C	10/31/14 20:14	WAT	108-90-7	Y
1,1,1,2-Tetrachloroethane	Not detected	ug/L	50	SW8260C	10/31/14 20:14	WAT	630-20-6	Y
Ethylbenzene	Not detected	ug/L	50	SW8260C	10/31/14 20:14	WAT	100-41-4	Y
p,m-Xylene	Not detected	ug/L	100	SW8260C	10/31/14 20:14	WAT		Y
o-Xylene	Not detected	ug/L	50	SW8260C	10/31/14 20:14	WAT	95-47-6	Y
Styrene	Not detected	ug/L	50	SW8260C	10/31/14 20:14	WAT	100-42-5	Y
Isopropylbenzene	Not detected	ug/L	300	SW8260C	10/31/14 20:14	WAT	98-82-8	Y
Bromoform	Not detected	ug/L	50	SW8260C	10/31/14 20:14	WAT	75-25-2	Y
1,1,2,2-Tetrachloroethane	Not detected	ug/L	50	SW8260C	10/31/14 20:14	WAT	79-34-5	Y
1,2,3-Trichloropropane	Not detected	ug/L	50	SW8260C	10/31/14 20:14	WAT	96-18-4	Y
n-Propylbenzene	Not detected	ug/L	50	SW8260C	10/31/14 20:14	WAT	103-65-1	Y
Bromobenzene	Not detected	ug/L	50	SW8260C	10/31/14 20:14	WAT	108-86-1	Y
1,3,5-Trimethylbenzene	Not detected	ug/L	50	SW8260C	10/31/14 20:14	WAT	108-67-8	Y
tert-Butylbenzene	Not detected	ug/L	50	SW8260C	10/31/14 20:14	WAT	98-06-6	Y
1,2,4-Trimethylbenzene	Not detected	ug/L	50	SW8260C	10/31/14 20:14	WAT	95-63-6	Y
sec-Butylbenzene	Not detected	ug/L	50	SW8260C	10/31/14 20:14	WAT	135-98-8	Y
p-Isopropyltoluene	Not detected	ug/L	300	SW8260C	10/31/14 20:14	WAT	99-87-6	Y
1,3-Dichlorobenzene	Not detected	ug/L	50	SW8260C	10/31/14 20:14	WAT	541-73-1	Y
1,4-Dichlorobenzene	Not detected	ug/L	50	SW8260C	10/31/14 20:14	WAT	106-46-7	Y
1,2-Dichlorobenzene	Not detected	ug/L	50	SW8260C	10/31/14 20:14	WAT	95-50-1	Y
1,2,3-Trimethylbenzene	Not detected	ug/L	50	SW8260C	10/31/14 20:14	WAT	526-73-8	Y
n-Butylbenzene	Not detected	ug/L	50	SW8260C	10/31/14 20:14	WAT	104-51-8	Y
Hexachloroethane	Not detected	ug/L	300	SW8260C	10/31/14 20:14	WAT	67-72-1	Y
1,2-Dibromo-3-chloropropane	Not detected	ug/L	300	SW8260C	10/31/14 20:14	WAT	96-12-8	Y
1,2,4-Trichlorobenzene	Not detected	ug/L	300	SW8260C	10/31/14 20:14	WAT	120-82-1	Y
1,2,3-Trichlorobenzene	Not detected	ug/L	300	SW8260C	10/31/14 20:14	WAT	87-61-6	Y
Naphthalene	Not detected	ug/L	300	SW8260C	10/31/14 20:14	WAT	91-20-3	Y
2-Methylnaphthalene	Not detected	ug/L	300	SW8260C	10/31/14 20:14	WAT	91-57-6	Y

Y-Elevated reporting limit due to high target concentration

Analytical Laboratory Report

Lab Sample ID: S63380.15
Sample Tag: MW-5_10272014
Collected Date/Time: 10/27/2014 16:57
Matrix: Groundwater
COC Reference: 87708

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	4.9	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
pH check for VOCs	<2	STD Units		N/A	11/03/14 10:27	LBR		
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	10	SW8260C	10/31/14 16:12	WAT	60-29-7	
Acetone	Not detected	ug/L	50	SW8260C	10/31/14 16:12	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	SW8260C	10/31/14 16:12	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	SW8260C	10/31/14 16:12	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW8260C	10/31/14 16:12	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	SW8260C	10/31/14 16:12	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	SW8260C	10/31/14 16:12	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW8260C	10/31/14 16:12	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	SW8260C	10/31/14 16:12	WAT	74-87-3	
Vinyl chloride	1	ug/L	1	SW8260C	10/31/14 16:12	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	SW8260C	10/31/14 16:12	WAT	74-83-9	
Chloroethane	Not detected	ug/L	5	SW8260C	10/31/14 16:12	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260C	10/31/14 16:12	WAT	75-69-4	
1,1-Dichloroethene	1	ug/L	1	SW8260C	10/31/14 16:12	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	SW8260C	10/31/14 16:12	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260C	10/31/14 16:12	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260C	10/31/14 16:12	WAT	75-34-3	
cis-1,2-Dichloroethene	11	ug/L	1	SW8260C	10/31/14 16:12	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	SW8260C	10/31/14 16:12	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	SW8260C	10/31/14 16:12	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	SW8260C	10/31/14 16:12	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260C	10/31/14 16:12	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW8260C	10/31/14 16:12	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	SW8260C	10/31/14 16:12	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW8260C	10/31/14 16:12	WAT	56-23-5	
Benzene	Not detected	ug/L	1	SW8260C	10/31/14 16:12	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260C	10/31/14 16:12	WAT	107-06-2	
Trichloroethene	65	ug/L	1	SW8260C	10/31/14 16:12	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260C	10/31/14 16:12	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW8260C	10/31/14 16:12	WAT	75-27-4	
Dibromomethane	Not detected	ug/L	5	SW8260C	10/31/14 16:12	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260C	10/31/14 16:12	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	SW8260C	10/31/14 16:12	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260C	10/31/14 16:12	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260C	10/31/14 16:12	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW8260C	10/31/14 16:12	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW8260C	10/31/14 16:12	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	SW8260C	10/31/14 16:12	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260C	10/31/14 16:12	WAT	106-93-4	

Lab Sample ID: S63380.15 (continued)
Sample Tag: MW-5_10272014

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	SW8260C	10/31/14 16:12	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW8260C	10/31/14 16:12	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	SW8260C	10/31/14 16:12	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	SW8260C	10/31/14 16:12	WAT		
o-Xylene	Not detected	ug/L	1	SW8260C	10/31/14 16:12	WAT	95-47-6	
Styrene	Not detected	ug/L	1	SW8260C	10/31/14 16:12	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	SW8260C	10/31/14 16:12	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	SW8260C	10/31/14 16:12	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260C	10/31/14 16:12	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	SW8260C	10/31/14 16:12	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	SW8260C	10/31/14 16:12	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	SW8260C	10/31/14 16:12	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW8260C	10/31/14 16:12	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	SW8260C	10/31/14 16:12	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW8260C	10/31/14 16:12	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	SW8260C	10/31/14 16:12	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	SW8260C	10/31/14 16:12	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260C	10/31/14 16:12	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260C	10/31/14 16:12	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260C	10/31/14 16:12	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW8260C	10/31/14 16:12	WAT	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	SW8260C	10/31/14 16:12	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	SW8260C	10/31/14 16:12	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW8260C	10/31/14 16:12	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW8260C	10/31/14 16:12	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW8260C	10/31/14 16:12	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	SW8260C	10/31/14 16:12	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	SW8260C	10/31/14 16:12	WAT	91-57-6	

Lab Sample ID: S63380.16
Sample Tag: DUP-01_10272014
Collected Date/Time: 10/27/2014 00:01
Matrix: Groundwater
COC Reference: 87708

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	4.9	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
pH check for VOCs	<2	STD Units		N/A	11/03/14 10:27	LBR		
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	500	SW8260C	10/31/14 20:36	WAT	60-29-7	Y
Acetone	Not detected	ug/L	2,500	SW8260C	10/31/14 20:36	WAT	67-64-1	Y
Methyl iodide	Not detected	ug/L	50	SW8260C	10/31/14 20:36	WAT	74-88-4	Y
Carbon disulfide	Not detected	ug/L	300	SW8260C	10/31/14 20:36	WAT	75-15-0	Y
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	300	SW8260C	10/31/14 20:36	WAT	1634-04-4	Y
Acrylonitrile	Not detected	ug/L	100	SW8260C	10/31/14 20:36	WAT	107-13-1	Y
2-Butanone (MEK)	Not detected	ug/L	1,300	SW8260C	10/31/14 20:36	WAT	78-93-3	Y
Dichlorodifluoromethane	Not detected	ug/L	300	SW8260C	10/31/14 20:36	WAT	75-71-8	Y
Chloromethane	Not detected	ug/L	300	SW8260C	10/31/14 20:36	WAT	74-87-3	Y
Vinyl chloride	Not detected	ug/L	50	SW8260C	10/31/14 20:36	WAT	75-01-4	Y
Bromomethane	Not detected	ug/L	300	SW8260C	10/31/14 20:36	WAT	74-83-9	Y
Chloroethane	Not detected	ug/L	300	SW8260C	10/31/14 20:36	WAT	75-00-3	Y
Trichlorofluoromethane	Not detected	ug/L	50	SW8260C	10/31/14 20:36	WAT	75-69-4	Y
1,1-Dichloroethene	Not detected	ug/L	50	SW8260C	10/31/14 20:36	WAT	75-35-4	Y
Methylene chloride	Not detected	ug/L	300	SW8260C	10/31/14 20:36	WAT	75-09-2	Y
trans-1,2-Dichloroethene	Not detected	ug/L	50	SW8260C	10/31/14 20:36	WAT	156-60-5	Y
1,1-Dichloroethane	Not detected	ug/L	50	SW8260C	10/31/14 20:36	WAT	75-34-3	Y
cis-1,2-Dichloroethene	Not detected	ug/L	50	SW8260C	10/31/14 20:36	WAT	156-59-2	Y
Tetrahydrofuran	Not detected	ug/L	4,500	SW8260C	10/31/14 20:36	WAT	109-99-9	Y
Chloroform	Not detected	ug/L	50	SW8260C	10/31/14 20:36	WAT	67-66-3	Y
Bromochloromethane	Not detected	ug/L	50	SW8260C	10/31/14 20:36	WAT	74-97-5	Y
1,1,1-Trichloroethane	Not detected	ug/L	50	SW8260C	10/31/14 20:36	WAT	71-55-6	Y
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	2,500	SW8260C	10/31/14 20:36	WAT	108-10-1	Y
2-Hexanone	Not detected	ug/L	2,500	SW8260C	10/31/14 20:36	WAT	591-78-6	Y
Carbon tetrachloride	Not detected	ug/L	50	SW8260C	10/31/14 20:36	WAT	56-23-5	Y
Benzene	3,200	ug/L	50	SW8260C	10/31/14 20:36	WAT	71-43-2	Y
1,2-Dichloroethane	Not detected	ug/L	50	SW8260C	10/31/14 20:36	WAT	107-06-2	Y
Trichloroethene	Not detected	ug/L	50	SW8260C	10/31/14 20:36	WAT	79-01-6	Y
1,2-Dichloropropane	Not detected	ug/L	50	SW8260C	10/31/14 20:36	WAT	78-87-5	Y
Bromodichloromethane	Not detected	ug/L	50	SW8260C	10/31/14 20:36	WAT	75-27-4	Y
Dibromomethane	Not detected	ug/L	300	SW8260C	10/31/14 20:36	WAT	74-95-3	Y
cis-1,3-Dichloropropene	Not detected	ug/L	50	SW8260C	10/31/14 20:36	WAT	10061-01-5	Y
Toluene	Not detected	ug/L	50	SW8260C	10/31/14 20:36	WAT	108-88-3	Y
trans-1,3-Dichloropropene	Not detected	ug/L	50	SW8260C	10/31/14 20:36	WAT	10061-02-6	Y
1,1,2-Trichloroethane	Not detected	ug/L	50	SW8260C	10/31/14 20:36	WAT	79-00-5	Y
Tetrachloroethene	Not detected	ug/L	50	SW8260C	10/31/14 20:36	WAT	127-18-4	Y
trans-1,4-Dichloro-2-butene	Not detected	ug/L	50	SW8260C	10/31/14 20:36	WAT	110-57-6	Y
Dibromochloromethane	Not detected	ug/L	300	SW8260C	10/31/14 20:36	WAT	124-48-1	Y

Y-Elevated reporting limit due to high target concentration

Lab Sample ID: S63380.16 (continued)
Sample Tag: DUP-01_10272014

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
1,2-Dibromoethane	Not detected	ug/L	50	SW8260C	10/31/14 20:36	WAT	106-93-4	Y
Chlorobenzene	Not detected	ug/L	50	SW8260C	10/31/14 20:36	WAT	108-90-7	Y
1,1,1,2-Tetrachloroethane	Not detected	ug/L	50	SW8260C	10/31/14 20:36	WAT	630-20-6	Y
Ethylbenzene	Not detected	ug/L	50	SW8260C	10/31/14 20:36	WAT	100-41-4	Y
p,m-Xylene	Not detected	ug/L	100	SW8260C	10/31/14 20:36	WAT		Y
o-Xylene	Not detected	ug/L	50	SW8260C	10/31/14 20:36	WAT	95-47-6	Y
Styrene	Not detected	ug/L	50	SW8260C	10/31/14 20:36	WAT	100-42-5	Y
Isopropylbenzene	Not detected	ug/L	300	SW8260C	10/31/14 20:36	WAT	98-82-8	Y
Bromoform	Not detected	ug/L	50	SW8260C	10/31/14 20:36	WAT	75-25-2	Y
1,1,2,2-Tetrachloroethane	Not detected	ug/L	50	SW8260C	10/31/14 20:36	WAT	79-34-5	Y
1,2,3-Trichloropropane	Not detected	ug/L	50	SW8260C	10/31/14 20:36	WAT	96-18-4	Y
n-Propylbenzene	Not detected	ug/L	50	SW8260C	10/31/14 20:36	WAT	103-65-1	Y
Bromobenzene	Not detected	ug/L	50	SW8260C	10/31/14 20:36	WAT	108-86-1	Y
1,3,5-Trimethylbenzene	Not detected	ug/L	50	SW8260C	10/31/14 20:36	WAT	108-67-8	Y
tert-Butylbenzene	Not detected	ug/L	50	SW8260C	10/31/14 20:36	WAT	98-06-6	Y
1,2,4-Trimethylbenzene	Not detected	ug/L	50	SW8260C	10/31/14 20:36	WAT	95-63-6	Y
sec-Butylbenzene	Not detected	ug/L	50	SW8260C	10/31/14 20:36	WAT	135-98-8	Y
p-Isopropyltoluene	Not detected	ug/L	300	SW8260C	10/31/14 20:36	WAT	99-87-6	Y
1,3-Dichlorobenzene	Not detected	ug/L	50	SW8260C	10/31/14 20:36	WAT	541-73-1	Y
1,4-Dichlorobenzene	Not detected	ug/L	50	SW8260C	10/31/14 20:36	WAT	106-46-7	Y
1,2-Dichlorobenzene	Not detected	ug/L	50	SW8260C	10/31/14 20:36	WAT	95-50-1	Y
1,2,3-Trimethylbenzene	Not detected	ug/L	50	SW8260C	10/31/14 20:36	WAT	526-73-8	Y
n-Butylbenzene	Not detected	ug/L	50	SW8260C	10/31/14 20:36	WAT	104-51-8	Y
Hexachloroethane	Not detected	ug/L	300	SW8260C	10/31/14 20:36	WAT	67-72-1	Y
1,2-Dibromo-3-chloropropane	Not detected	ug/L	300	SW8260C	10/31/14 20:36	WAT	96-12-8	Y
1,2,4-Trichlorobenzene	Not detected	ug/L	300	SW8260C	10/31/14 20:36	WAT	120-82-1	Y
1,2,3-Trichlorobenzene	Not detected	ug/L	300	SW8260C	10/31/14 20:36	WAT	87-61-6	Y
Naphthalene	Not detected	ug/L	300	SW8260C	10/31/14 20:36	WAT	91-20-3	Y
2-Methylnaphthalene	Not detected	ug/L	300	SW8260C	10/31/14 20:36	WAT	91-57-6	Y

Y-Elevated reporting limit due to high target concentration

Lab Sample ID: S63380.17
Sample Tag: MW-25_10282014
Collected Date/Time: 10/28/2014 09:40
Matrix: Groundwater
COC Reference: 87708

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	4.9	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
pH check for VOCs	<2	STD Units		N/A	11/03/14 10:27	LBR		
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	10	SW8260C	10/31/14 16:34	WAT	60-29-7	
Acetone	Not detected	ug/L	50	SW8260C	10/31/14 16:34	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	SW8260C	10/31/14 16:34	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	SW8260C	10/31/14 16:34	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW8260C	10/31/14 16:34	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	SW8260C	10/31/14 16:34	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	SW8260C	10/31/14 16:34	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW8260C	10/31/14 16:34	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	SW8260C	10/31/14 16:34	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW8260C	10/31/14 16:34	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	SW8260C	10/31/14 16:34	WAT	74-83-9	
Chloroethane	Not detected	ug/L	5	SW8260C	10/31/14 16:34	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260C	10/31/14 16:34	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260C	10/31/14 16:34	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	SW8260C	10/31/14 16:34	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260C	10/31/14 16:34	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260C	10/31/14 16:34	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260C	10/31/14 16:34	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	SW8260C	10/31/14 16:34	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	SW8260C	10/31/14 16:34	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	SW8260C	10/31/14 16:34	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260C	10/31/14 16:34	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW8260C	10/31/14 16:34	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	SW8260C	10/31/14 16:34	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW8260C	10/31/14 16:34	WAT	56-23-5	
Benzene	Not detected	ug/L	1	SW8260C	10/31/14 16:34	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260C	10/31/14 16:34	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW8260C	10/31/14 16:34	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260C	10/31/14 16:34	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW8260C	10/31/14 16:34	WAT	75-27-4	
Dibromomethane	Not detected	ug/L	5	SW8260C	10/31/14 16:34	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260C	10/31/14 16:34	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	SW8260C	10/31/14 16:34	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260C	10/31/14 16:34	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260C	10/31/14 16:34	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW8260C	10/31/14 16:34	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW8260C	10/31/14 16:34	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	SW8260C	10/31/14 16:34	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260C	10/31/14 16:34	WAT	106-93-4	

Lab Sample ID: S63380.17 (continued)
Sample Tag: MW-25_10282014

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	SW8260C	10/31/14 16:34	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW8260C	10/31/14 16:34	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	SW8260C	10/31/14 16:34	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	SW8260C	10/31/14 16:34	WAT		
o-Xylene	Not detected	ug/L	1	SW8260C	10/31/14 16:34	WAT	95-47-6	
Styrene	Not detected	ug/L	1	SW8260C	10/31/14 16:34	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	SW8260C	10/31/14 16:34	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	SW8260C	10/31/14 16:34	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260C	10/31/14 16:34	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	SW8260C	10/31/14 16:34	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	SW8260C	10/31/14 16:34	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	SW8260C	10/31/14 16:34	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW8260C	10/31/14 16:34	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	SW8260C	10/31/14 16:34	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW8260C	10/31/14 16:34	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	SW8260C	10/31/14 16:34	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	SW8260C	10/31/14 16:34	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260C	10/31/14 16:34	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260C	10/31/14 16:34	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260C	10/31/14 16:34	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW8260C	10/31/14 16:34	WAT	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	SW8260C	10/31/14 16:34	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	SW8260C	10/31/14 16:34	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW8260C	10/31/14 16:34	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW8260C	10/31/14 16:34	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW8260C	10/31/14 16:34	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	SW8260C	10/31/14 16:34	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	SW8260C	10/31/14 16:34	WAT	91-57-6	

Analytical Laboratory Report

Lab Sample ID: S63380.18
Sample Tag: MW-30_10282014
Collected Date/Time: 10/28/2014 09:47
Matrix: Groundwater
COC Reference: 87708

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	4.9	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
pH check for VOCs	<2	STD Units		N/A	11/03/14 10:27	LBR		
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	10	SW8260C	10/31/14 16:56	WAT	60-29-7	
Acetone	Not detected	ug/L	50	SW8260C	10/31/14 16:56	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	SW8260C	10/31/14 16:56	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	SW8260C	10/31/14 16:56	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW8260C	10/31/14 16:56	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	SW8260C	10/31/14 16:56	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	SW8260C	10/31/14 16:56	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW8260C	10/31/14 16:56	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	SW8260C	10/31/14 16:56	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW8260C	10/31/14 16:56	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	SW8260C	10/31/14 16:56	WAT	74-83-9	
Chloroethane	Not detected	ug/L	5	SW8260C	10/31/14 16:56	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260C	10/31/14 16:56	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260C	10/31/14 16:56	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	SW8260C	10/31/14 16:56	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260C	10/31/14 16:56	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260C	10/31/14 16:56	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260C	10/31/14 16:56	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	SW8260C	10/31/14 16:56	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	SW8260C	10/31/14 16:56	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	SW8260C	10/31/14 16:56	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260C	10/31/14 16:56	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW8260C	10/31/14 16:56	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	SW8260C	10/31/14 16:56	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW8260C	10/31/14 16:56	WAT	56-23-5	
Benzene	Not detected	ug/L	1	SW8260C	10/31/14 16:56	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260C	10/31/14 16:56	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW8260C	10/31/14 16:56	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260C	10/31/14 16:56	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW8260C	10/31/14 16:56	WAT	75-27-4	
Dibromomethane	Not detected	ug/L	5	SW8260C	10/31/14 16:56	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260C	10/31/14 16:56	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	SW8260C	10/31/14 16:56	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260C	10/31/14 16:56	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260C	10/31/14 16:56	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW8260C	10/31/14 16:56	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW8260C	10/31/14 16:56	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	SW8260C	10/31/14 16:56	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260C	10/31/14 16:56	WAT	106-93-4	

Lab Sample ID: S63380.18 (continued)
Sample Tag: MW-30_10282014

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	SW8260C	10/31/14 16:56	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW8260C	10/31/14 16:56	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	SW8260C	10/31/14 16:56	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	SW8260C	10/31/14 16:56	WAT		
o-Xylene	Not detected	ug/L	1	SW8260C	10/31/14 16:56	WAT	95-47-6	
Styrene	Not detected	ug/L	1	SW8260C	10/31/14 16:56	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	SW8260C	10/31/14 16:56	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	SW8260C	10/31/14 16:56	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260C	10/31/14 16:56	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	SW8260C	10/31/14 16:56	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	SW8260C	10/31/14 16:56	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	SW8260C	10/31/14 16:56	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW8260C	10/31/14 16:56	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	SW8260C	10/31/14 16:56	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW8260C	10/31/14 16:56	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	SW8260C	10/31/14 16:56	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	SW8260C	10/31/14 16:56	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260C	10/31/14 16:56	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260C	10/31/14 16:56	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260C	10/31/14 16:56	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW8260C	10/31/14 16:56	WAT	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	SW8260C	10/31/14 16:56	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	SW8260C	10/31/14 16:56	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW8260C	10/31/14 16:56	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW8260C	10/31/14 16:56	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW8260C	10/31/14 16:56	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	SW8260C	10/31/14 16:56	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	SW8260C	10/31/14 16:56	WAT	91-57-6	

Lab Sample ID: S63380.19
Sample Tag: MW-29_10282014
Collected Date/Time: 10/28/2014 10:30
Matrix: Groundwater
COC Reference: 87708

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	4.9	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
pH check for VOCs	<2	STD Units		N/A	11/03/14 10:27	LBR		
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	10	SW8260C	10/31/14 17:18	WAT	60-29-7	
Acetone	Not detected	ug/L	50	SW8260C	10/31/14 17:18	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	SW8260C	10/31/14 17:18	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	SW8260C	10/31/14 17:18	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW8260C	10/31/14 17:18	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	SW8260C	10/31/14 17:18	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	SW8260C	10/31/14 17:18	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW8260C	10/31/14 17:18	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	SW8260C	10/31/14 17:18	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW8260C	10/31/14 17:18	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	SW8260C	10/31/14 17:18	WAT	74-83-9	
Chloroethane	Not detected	ug/L	5	SW8260C	10/31/14 17:18	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260C	10/31/14 17:18	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260C	10/31/14 17:18	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	SW8260C	10/31/14 17:18	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260C	10/31/14 17:18	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260C	10/31/14 17:18	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260C	10/31/14 17:18	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	SW8260C	10/31/14 17:18	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	SW8260C	10/31/14 17:18	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	SW8260C	10/31/14 17:18	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260C	10/31/14 17:18	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW8260C	10/31/14 17:18	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	SW8260C	10/31/14 17:18	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW8260C	10/31/14 17:18	WAT	56-23-5	
Benzene	Not detected	ug/L	1	SW8260C	10/31/14 17:18	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260C	10/31/14 17:18	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW8260C	10/31/14 17:18	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260C	10/31/14 17:18	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW8260C	10/31/14 17:18	WAT	75-27-4	
Dibromomethane	Not detected	ug/L	5	SW8260C	10/31/14 17:18	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260C	10/31/14 17:18	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	SW8260C	10/31/14 17:18	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260C	10/31/14 17:18	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260C	10/31/14 17:18	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW8260C	10/31/14 17:18	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW8260C	10/31/14 17:18	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	SW8260C	10/31/14 17:18	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260C	10/31/14 17:18	WAT	106-93-4	

Lab Sample ID: S63380.19 (continued)
Sample Tag: MW-29_10282014

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	SW8260C	10/31/14 17:18	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW8260C	10/31/14 17:18	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	SW8260C	10/31/14 17:18	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	SW8260C	10/31/14 17:18	WAT		
o-Xylene	Not detected	ug/L	1	SW8260C	10/31/14 17:18	WAT	95-47-6	
Styrene	Not detected	ug/L	1	SW8260C	10/31/14 17:18	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	SW8260C	10/31/14 17:18	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	SW8260C	10/31/14 17:18	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260C	10/31/14 17:18	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	SW8260C	10/31/14 17:18	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	SW8260C	10/31/14 17:18	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	SW8260C	10/31/14 17:18	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW8260C	10/31/14 17:18	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	SW8260C	10/31/14 17:18	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW8260C	10/31/14 17:18	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	SW8260C	10/31/14 17:18	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	SW8260C	10/31/14 17:18	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260C	10/31/14 17:18	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260C	10/31/14 17:18	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260C	10/31/14 17:18	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW8260C	10/31/14 17:18	WAT	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	SW8260C	10/31/14 17:18	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	SW8260C	10/31/14 17:18	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW8260C	10/31/14 17:18	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW8260C	10/31/14 17:18	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW8260C	10/31/14 17:18	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	SW8260C	10/31/14 17:18	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	SW8260C	10/31/14 17:18	WAT	91-57-6	

Lab Sample ID: S63380.20
Sample Tag: MW-12_10282014
Collected Date/Time: 10/28/2014 11:07
Matrix: Groundwater
COC Reference: 87708

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	4.9	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
pH check for VOCs	<2	STD Units		N/A	11/03/14 10:27	LBR		
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	10	SW8260C	10/31/14 17:40	WAT	60-29-7	
Acetone	Not detected	ug/L	50	SW8260C	10/31/14 17:40	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	SW8260C	10/31/14 17:40	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	SW8260C	10/31/14 17:40	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW8260C	10/31/14 17:40	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	SW8260C	10/31/14 17:40	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	SW8260C	10/31/14 17:40	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW8260C	10/31/14 17:40	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	SW8260C	10/31/14 17:40	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW8260C	10/31/14 17:40	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	SW8260C	10/31/14 17:40	WAT	74-83-9	
Chloroethane	Not detected	ug/L	5	SW8260C	10/31/14 17:40	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260C	10/31/14 17:40	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260C	10/31/14 17:40	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	SW8260C	10/31/14 17:40	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260C	10/31/14 17:40	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260C	10/31/14 17:40	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260C	10/31/14 17:40	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	SW8260C	10/31/14 17:40	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	SW8260C	10/31/14 17:40	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	SW8260C	10/31/14 17:40	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260C	10/31/14 17:40	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW8260C	10/31/14 17:40	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	SW8260C	10/31/14 17:40	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW8260C	10/31/14 17:40	WAT	56-23-5	
Benzene	Not detected	ug/L	1	SW8260C	10/31/14 17:40	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260C	10/31/14 17:40	WAT	107-06-2	
Trichloroethene	8	ug/L	1	SW8260C	10/31/14 17:40	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260C	10/31/14 17:40	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW8260C	10/31/14 17:40	WAT	75-27-4	
Dibromomethane	Not detected	ug/L	5	SW8260C	10/31/14 17:40	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260C	10/31/14 17:40	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	SW8260C	10/31/14 17:40	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260C	10/31/14 17:40	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260C	10/31/14 17:40	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW8260C	10/31/14 17:40	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW8260C	10/31/14 17:40	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	SW8260C	10/31/14 17:40	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260C	10/31/14 17:40	WAT	106-93-4	

Lab Sample ID: S63380.20 (continued)
Sample Tag: MW-12_10282014

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	SW8260C	10/31/14 17:40	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW8260C	10/31/14 17:40	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	SW8260C	10/31/14 17:40	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	SW8260C	10/31/14 17:40	WAT		
o-Xylene	Not detected	ug/L	1	SW8260C	10/31/14 17:40	WAT	95-47-6	
Styrene	Not detected	ug/L	1	SW8260C	10/31/14 17:40	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	SW8260C	10/31/14 17:40	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	SW8260C	10/31/14 17:40	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260C	10/31/14 17:40	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	SW8260C	10/31/14 17:40	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	SW8260C	10/31/14 17:40	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	SW8260C	10/31/14 17:40	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW8260C	10/31/14 17:40	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	SW8260C	10/31/14 17:40	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW8260C	10/31/14 17:40	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	SW8260C	10/31/14 17:40	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	SW8260C	10/31/14 17:40	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260C	10/31/14 17:40	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260C	10/31/14 17:40	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260C	10/31/14 17:40	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW8260C	10/31/14 17:40	WAT	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	SW8260C	10/31/14 17:40	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	SW8260C	10/31/14 17:40	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW8260C	10/31/14 17:40	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW8260C	10/31/14 17:40	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW8260C	10/31/14 17:40	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	SW8260C	10/31/14 17:40	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	SW8260C	10/31/14 17:40	WAT	91-57-6	

Lab Sample ID: S63380.21
Sample Tag: MW-23_10282014
Collected Date/Time: 10/28/2014 11:35
Matrix: Groundwater
COC Reference: 87708

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	4.9	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
pH check for VOCs	<2	STD Units		N/A	11/03/14 10:27	LBR		
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	10	SW8260C	11/04/14 16:06	WAT	60-29-7	
Acetone	Not detected	ug/L	50	SW8260C	11/04/14 16:06	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	SW8260C	11/04/14 16:06	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	SW8260C	11/04/14 16:06	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW8260C	11/04/14 16:06	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	SW8260C	11/04/14 16:06	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	SW8260C	11/04/14 16:06	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW8260C	11/04/14 16:06	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	SW8260C	11/04/14 16:06	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW8260C	11/04/14 16:06	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	SW8260C	11/04/14 16:06	WAT	74-83-9	
Chloroethane	Not detected	ug/L	5	SW8260C	11/04/14 16:06	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260C	11/04/14 16:06	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260C	11/04/14 16:06	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	SW8260C	11/04/14 16:06	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260C	11/04/14 16:06	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260C	11/04/14 16:06	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260C	11/04/14 16:06	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	SW8260C	11/04/14 16:06	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	SW8260C	11/04/14 16:06	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	SW8260C	11/04/14 16:06	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260C	11/04/14 16:06	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW8260C	11/04/14 16:06	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	SW8260C	11/04/14 16:06	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW8260C	11/04/14 16:06	WAT	56-23-5	
Benzene	Not detected	ug/L	1	SW8260C	11/04/14 16:06	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260C	11/04/14 16:06	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW8260C	11/04/14 16:06	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260C	11/04/14 16:06	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW8260C	11/04/14 16:06	WAT	75-27-4	
Dibromomethane	Not detected	ug/L	5	SW8260C	11/04/14 16:06	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260C	11/04/14 16:06	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	SW8260C	11/04/14 16:06	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260C	11/04/14 16:06	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260C	11/04/14 16:06	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW8260C	11/04/14 16:06	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW8260C	11/04/14 16:06	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	SW8260C	11/04/14 16:06	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260C	11/04/14 16:06	WAT	106-93-4	

Lab Sample ID: S63380.21 (continued)
Sample Tag: MW-23_10282014

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	SW8260C	11/04/14 16:06	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW8260C	11/04/14 16:06	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	SW8260C	11/04/14 16:06	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	SW8260C	11/04/14 16:06	WAT		
o-Xylene	Not detected	ug/L	1	SW8260C	11/04/14 16:06	WAT	95-47-6	
Styrene	Not detected	ug/L	1	SW8260C	11/04/14 16:06	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	SW8260C	11/04/14 16:06	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	SW8260C	11/04/14 16:06	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260C	11/04/14 16:06	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	SW8260C	11/04/14 16:06	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	SW8260C	11/04/14 16:06	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	SW8260C	11/04/14 16:06	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW8260C	11/04/14 16:06	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	SW8260C	11/04/14 16:06	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW8260C	11/04/14 16:06	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	SW8260C	11/04/14 16:06	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	SW8260C	11/04/14 16:06	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260C	11/04/14 16:06	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260C	11/04/14 16:06	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260C	11/04/14 16:06	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW8260C	11/04/14 16:06	WAT	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	SW8260C	11/04/14 16:06	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	SW8260C	11/04/14 16:06	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW8260C	11/04/14 16:06	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW8260C	11/04/14 16:06	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW8260C	11/04/14 16:06	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	SW8260C	11/04/14 16:06	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	SW8260C	11/04/14 16:06	WAT	91-57-6	

Analytical Laboratory Report

Lab Sample ID: S63380.22
Sample Tag: MW-23_10282014 MS
Collected Date/Time: 10/28/2014 11:35
Matrix: Groundwater
COC Reference: 87708

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	4.9	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
pH check for VOCs	<2	STD Units		N/A	11/03/14 10:27	LBR		
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	49	ug/L	10	SW8260C	11/04/14 13:55	WAT	60-29-7	1
Acetone	Not detected	ug/L	50	SW8260C	11/04/14 13:55	WAT	67-64-1	1
Methyl iodide	49	ug/L	1	SW8260C	11/04/14 13:55	WAT	74-88-4	1
Carbon disulfide	48	ug/L	5	SW8260C	11/04/14 13:55	WAT	75-15-0	1
tert-Methyl butyl ether (MTBE)	51	ug/L	5	SW8260C	11/04/14 13:55	WAT	1634-04-4	1
Acrylonitrile	49	ug/L	2	SW8260C	11/04/14 13:55	WAT	107-13-1	1
2-Butanone (MEK)	46	ug/L	25	SW8260C	11/04/14 13:55	WAT	78-93-3	1
Dichlorodifluoromethane	47	ug/L	5	SW8260C	11/04/14 13:55	WAT	75-71-8	1
Chloromethane	46	ug/L	5	SW8260C	11/04/14 13:55	WAT	74-87-3	1
Vinyl chloride	48	ug/L	1	SW8260C	11/04/14 13:55	WAT	75-01-4	1
Bromomethane	52	ug/L	5	SW8260C	11/04/14 13:55	WAT	74-83-9	1
Chloroethane	50	ug/L	5	SW8260C	11/04/14 13:55	WAT	75-00-3	1
Trichlorofluoromethane	54	ug/L	1	SW8260C	11/04/14 13:55	WAT	75-69-4	1
1,1-Dichloroethene	52	ug/L	1	SW8260C	11/04/14 13:55	WAT	75-35-4	1
Methylene chloride	49	ug/L	5	SW8260C	11/04/14 13:55	WAT	75-09-2	1
trans-1,2-Dichloroethene	51	ug/L	1	SW8260C	11/04/14 13:55	WAT	156-60-5	1
1,1-Dichloroethane	51	ug/L	1	SW8260C	11/04/14 13:55	WAT	75-34-3	1
cis-1,2-Dichloroethene	51	ug/L	1	SW8260C	11/04/14 13:55	WAT	156-59-2	1
Tetrahydrofuran	Not detected	ug/L	90	SW8260C	11/04/14 13:55	WAT	109-99-9	1
Chloroform	51	ug/L	1	SW8260C	11/04/14 13:55	WAT	67-66-3	1
Bromochloromethane	51	ug/L	1	SW8260C	11/04/14 13:55	WAT	74-97-5	1
1,1,1-Trichloroethane	54	ug/L	1	SW8260C	11/04/14 13:55	WAT	71-55-6	1
4-Methyl-2-pentanone (MIBK)	57	ug/L	50	SW8260C	11/04/14 13:55	WAT	108-10-1	1
2-Hexanone	53	ug/L	50	SW8260C	11/04/14 13:55	WAT	591-78-6	1
Carbon tetrachloride	55	ug/L	1	SW8260C	11/04/14 13:55	WAT	56-23-5	1
Benzene	51	ug/L	1	SW8260C	11/04/14 13:55	WAT	71-43-2	1
1,2-Dichloroethane	52	ug/L	1	SW8260C	11/04/14 13:55	WAT	107-06-2	1
Trichloroethene	52	ug/L	1	SW8260C	11/04/14 13:55	WAT	79-01-6	1
1,2-Dichloropropane	52	ug/L	1	SW8260C	11/04/14 13:55	WAT	78-87-5	1
Bromodichloromethane	55	ug/L	1	SW8260C	11/04/14 13:55	WAT	75-27-4	1
Dibromomethane	54	ug/L	5	SW8260C	11/04/14 13:55	WAT	74-95-3	1
cis-1,3-Dichloropropene	57	ug/L	1	SW8260C	11/04/14 13:55	WAT	10061-01-5	1
Toluene	54	ug/L	1	SW8260C	11/04/14 13:55	WAT	108-88-3	1
trans-1,3-Dichloropropene	53	ug/L	1	SW8260C	11/04/14 13:55	WAT	10061-02-6	1
1,1,2-Trichloroethane	52	ug/L	1	SW8260C	11/04/14 13:55	WAT	79-00-5	1
Tetrachloroethene	54	ug/L	1	SW8260C	11/04/14 13:55	WAT	127-18-4	1
trans-1,4-Dichloro-2-butene	57	ug/L	1	SW8260C	11/04/14 13:55	WAT	110-57-6	1
Dibromochloromethane	55	ug/L	5	SW8260C	11/04/14 13:55	WAT	124-48-1	1

1-Spiked at 50ug/l

Lab Sample ID: S63380.22 (continued)
Sample Tag: MW-23_10282014 MS

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
1,2-Dibromoethane	52	ug/L	1	SW8260C	11/04/14 13:55	WAT	106-93-4	1
Chlorobenzene	50	ug/L	1	SW8260C	11/04/14 13:55	WAT	108-90-7	1
1,1,1,2-Tetrachloroethane	52	ug/L	1	SW8260C	11/04/14 13:55	WAT	630-20-6	1
Ethylbenzene	52	ug/L	1	SW8260C	11/04/14 13:55	WAT	100-41-4	1
p,m-Xylene	104	ug/L	2	SW8260C	11/04/14 13:55	WAT		1
o-Xylene	51	ug/L	1	SW8260C	11/04/14 13:55	WAT	95-47-6	1
Styrene	53	ug/L	1	SW8260C	11/04/14 13:55	WAT	100-42-5	1
Isopropylbenzene	52	ug/L	5	SW8260C	11/04/14 13:55	WAT	98-82-8	1
Bromoform	52	ug/L	1	SW8260C	11/04/14 13:55	WAT	75-25-2	1
1,1,2,2-Tetrachloroethane	50	ug/L	1	SW8260C	11/04/14 13:55	WAT	79-34-5	1
1,2,3-Trichloropropane	52	ug/L	1	SW8260C	11/04/14 13:55	WAT	96-18-4	1
n-Propylbenzene	51	ug/L	1	SW8260C	11/04/14 13:55	WAT	103-65-1	1
Bromobenzene	51	ug/L	1	SW8260C	11/04/14 13:55	WAT	108-86-1	1
1,3,5-Trimethylbenzene	52	ug/L	1	SW8260C	11/04/14 13:55	WAT	108-67-8	1
tert-Butylbenzene	51	ug/L	1	SW8260C	11/04/14 13:55	WAT	98-06-6	1
1,2,4-Trimethylbenzene	51	ug/L	1	SW8260C	11/04/14 13:55	WAT	95-63-6	1
sec-Butylbenzene	54	ug/L	1	SW8260C	11/04/14 13:55	WAT	135-98-8	1
p-Isopropyltoluene	54	ug/L	5	SW8260C	11/04/14 13:55	WAT	99-87-6	1
1,3-Dichlorobenzene	51	ug/L	1	SW8260C	11/04/14 13:55	WAT	541-73-1	1
1,4-Dichlorobenzene	50	ug/L	1	SW8260C	11/04/14 13:55	WAT	106-46-7	1
1,2-Dichlorobenzene	51	ug/L	1	SW8260C	11/04/14 13:55	WAT	95-50-1	1
1,2,3-Trimethylbenzene	51	ug/L	1	SW8260C	11/04/14 13:55	WAT	526-73-8	1
n-Butylbenzene	53	ug/L	1	SW8260C	11/04/14 13:55	WAT	104-51-8	1
Hexachloroethane	49	ug/L	5	SW8260C	11/04/14 13:55	WAT	67-72-1	1
1,2-Dibromo-3-chloropropane	52	ug/L	5	SW8260C	11/04/14 13:55	WAT	96-12-8	1
1,2,4-Trichlorobenzene	53	ug/L	5	SW8260C	11/04/14 13:55	WAT	120-82-1	1
1,2,3-Trichlorobenzene	53	ug/L	5	SW8260C	11/04/14 13:55	WAT	87-61-6	1
Naphthalene	56	ug/L	5	SW8260C	11/04/14 13:55	WAT	91-20-3	1
2-Methylnaphthalene	54	ug/L	5	SW8260C	11/04/14 13:55	WAT	91-57-6	1

1-Spiked at 50ug/l

Analytical Laboratory Report

Lab Sample ID: S63380.23
Sample Tag: MW-23_10282014 MSD
Collected Date/Time: 10/28/2014 11:35
Matrix: Groundwater
COC Reference: 87708

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	4.9	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
pH check for VOCs	<2	STD Units		N/A	11/03/14 10:27	LBR		
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	48	ug/L	10	SW8260C	11/04/14 14:17	WAT	60-29-7	1
Acetone	Not detected	ug/L	50	SW8260C	11/04/14 14:17	WAT	67-64-1	1
Methyl iodide	48	ug/L	1	SW8260C	11/04/14 14:17	WAT	74-88-4	1
Carbon disulfide	46	ug/L	5	SW8260C	11/04/14 14:17	WAT	75-15-0	1
tert-Methyl butyl ether (MTBE)	49	ug/L	5	SW8260C	11/04/14 14:17	WAT	1634-04-4	1
Acrylonitrile	49	ug/L	2	SW8260C	11/04/14 14:17	WAT	107-13-1	1
2-Butanone (MEK)	44	ug/L	25	SW8260C	11/04/14 14:17	WAT	78-93-3	1
Dichlorodifluoromethane	46	ug/L	5	SW8260C	11/04/14 14:17	WAT	75-71-8	1
Chloromethane	46	ug/L	5	SW8260C	11/04/14 14:17	WAT	74-87-3	1
Vinyl chloride	48	ug/L	1	SW8260C	11/04/14 14:17	WAT	75-01-4	1
Bromomethane	52	ug/L	5	SW8260C	11/04/14 14:17	WAT	74-83-9	1
Chloroethane	50	ug/L	5	SW8260C	11/04/14 14:17	WAT	75-00-3	1
Trichlorofluoromethane	52	ug/L	1	SW8260C	11/04/14 14:17	WAT	75-69-4	1
1,1-Dichloroethene	50	ug/L	1	SW8260C	11/04/14 14:17	WAT	75-35-4	1
Methylene chloride	47	ug/L	5	SW8260C	11/04/14 14:17	WAT	75-09-2	1
trans-1,2-Dichloroethene	50	ug/L	1	SW8260C	11/04/14 14:17	WAT	156-60-5	1
1,1-Dichloroethane	50	ug/L	1	SW8260C	11/04/14 14:17	WAT	75-34-3	1
cis-1,2-Dichloroethene	49	ug/L	1	SW8260C	11/04/14 14:17	WAT	156-59-2	1
Tetrahydrofuran	Not detected	ug/L	90	SW8260C	11/04/14 14:17	WAT	109-99-9	1
Chloroform	50	ug/L	1	SW8260C	11/04/14 14:17	WAT	67-66-3	1
Bromochloromethane	49	ug/L	1	SW8260C	11/04/14 14:17	WAT	74-97-5	1
1,1,1-Trichloroethane	53	ug/L	1	SW8260C	11/04/14 14:17	WAT	71-55-6	1
4-Methyl-2-pentanone (MIBK)	55	ug/L	50	SW8260C	11/04/14 14:17	WAT	108-10-1	1
2-Hexanone	51	ug/L	50	SW8260C	11/04/14 14:17	WAT	591-78-6	1
Carbon tetrachloride	55	ug/L	1	SW8260C	11/04/14 14:17	WAT	56-23-5	1
Benzene	50	ug/L	1	SW8260C	11/04/14 14:17	WAT	71-43-2	1
1,2-Dichloroethane	50	ug/L	1	SW8260C	11/04/14 14:17	WAT	107-06-2	1
Trichloroethene	51	ug/L	1	SW8260C	11/04/14 14:17	WAT	79-01-6	1
1,2-Dichloropropane	51	ug/L	1	SW8260C	11/04/14 14:17	WAT	78-87-5	1
Bromodichloromethane	53	ug/L	1	SW8260C	11/04/14 14:17	WAT	75-27-4	1
Dibromomethane	52	ug/L	5	SW8260C	11/04/14 14:17	WAT	74-95-3	1
cis-1,3-Dichloropropene	55	ug/L	1	SW8260C	11/04/14 14:17	WAT	10061-01-5	1
Toluene	52	ug/L	1	SW8260C	11/04/14 14:17	WAT	108-88-3	1
trans-1,3-Dichloropropene	51	ug/L	1	SW8260C	11/04/14 14:17	WAT	10061-02-6	1
1,1,2-Trichloroethane	51	ug/L	1	SW8260C	11/04/14 14:17	WAT	79-00-5	1
Tetrachloroethene	52	ug/L	1	SW8260C	11/04/14 14:17	WAT	127-18-4	1
trans-1,4-Dichloro-2-butene	58	ug/L	1	SW8260C	11/04/14 14:17	WAT	110-57-6	1
Dibromochloromethane	55	ug/L	5	SW8260C	11/04/14 14:17	WAT	124-48-1	1

1-Spiked at 50ug/l

Lab Sample ID: S63380.23 (continued)
Sample Tag: MW-23_10282014 MSD

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
1,2-Dibromoethane	52	ug/L	1	SW8260C	11/04/14 14:17	WAT	106-93-4	1
Chlorobenzene	50	ug/L	1	SW8260C	11/04/14 14:17	WAT	108-90-7	1
1,1,1,2-Tetrachloroethane	52	ug/L	1	SW8260C	11/04/14 14:17	WAT	630-20-6	1
Ethylbenzene	52	ug/L	1	SW8260C	11/04/14 14:17	WAT	100-41-4	1
p,m-Xylene	104	ug/L	2	SW8260C	11/04/14 14:17	WAT		1
o-Xylene	51	ug/L	1	SW8260C	11/04/14 14:17	WAT	95-47-6	1
Styrene	53	ug/L	1	SW8260C	11/04/14 14:17	WAT	100-42-5	1
Isopropylbenzene	52	ug/L	5	SW8260C	11/04/14 14:17	WAT	98-82-8	1
Bromoform	52	ug/L	1	SW8260C	11/04/14 14:17	WAT	75-25-2	1
1,1,2,2-Tetrachloroethane	51	ug/L	1	SW8260C	11/04/14 14:17	WAT	79-34-5	1
1,2,3-Trichloropropane	51	ug/L	1	SW8260C	11/04/14 14:17	WAT	96-18-4	1
n-Propylbenzene	52	ug/L	1	SW8260C	11/04/14 14:17	WAT	103-65-1	1
Bromobenzene	51	ug/L	1	SW8260C	11/04/14 14:17	WAT	108-86-1	1
1,3,5-Trimethylbenzene	52	ug/L	1	SW8260C	11/04/14 14:17	WAT	108-67-8	1
tert-Butylbenzene	52	ug/L	1	SW8260C	11/04/14 14:17	WAT	98-06-6	1
1,2,4-Trimethylbenzene	51	ug/L	1	SW8260C	11/04/14 14:17	WAT	95-63-6	1
sec-Butylbenzene	52	ug/L	1	SW8260C	11/04/14 14:17	WAT	135-98-8	1
p-Isopropyltoluene	53	ug/L	5	SW8260C	11/04/14 14:17	WAT	99-87-6	1
1,3-Dichlorobenzene	50	ug/L	1	SW8260C	11/04/14 14:17	WAT	541-73-1	1
1,4-Dichlorobenzene	50	ug/L	1	SW8260C	11/04/14 14:17	WAT	106-46-7	1
1,2-Dichlorobenzene	50	ug/L	1	SW8260C	11/04/14 14:17	WAT	95-50-1	1
1,2,3-Trimethylbenzene	51	ug/L	1	SW8260C	11/04/14 14:17	WAT	526-73-8	1
n-Butylbenzene	52	ug/L	1	SW8260C	11/04/14 14:17	WAT	104-51-8	1
Hexachloroethane	48	ug/L	5	SW8260C	11/04/14 14:17	WAT	67-72-1	1
1,2-Dibromo-3-chloropropane	51	ug/L	5	SW8260C	11/04/14 14:17	WAT	96-12-8	1
1,2,4-Trichlorobenzene	53	ug/L	5	SW8260C	11/04/14 14:17	WAT	120-82-1	1
1,2,3-Trichlorobenzene	54	ug/L	5	SW8260C	11/04/14 14:17	WAT	87-61-6	1
Naphthalene	57	ug/L	5	SW8260C	11/04/14 14:17	WAT	91-20-3	1
2-Methylnaphthalene	56	ug/L	5	SW8260C	11/04/14 14:17	WAT	91-57-6	1

1-Spiked at 50ug/l

Analytical Laboratory Report

Lab Sample ID: S63380.24
Sample Tag: MW-28_10282014
Collected Date/Time: 10/28/2014 12:20
Matrix: Groundwater
COC Reference: 87708

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	4.9	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
pH check for VOCs	<2	STD Units		N/A	11/03/14 10:27	LBR		
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	10	SW8260C	10/31/14 18:02	WAT	60-29-7	
Acetone	Not detected	ug/L	50	SW8260C	10/31/14 18:02	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	SW8260C	10/31/14 18:02	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	SW8260C	10/31/14 18:02	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW8260C	10/31/14 18:02	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	SW8260C	10/31/14 18:02	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	SW8260C	10/31/14 18:02	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW8260C	10/31/14 18:02	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	SW8260C	10/31/14 18:02	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW8260C	10/31/14 18:02	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	SW8260C	10/31/14 18:02	WAT	74-83-9	
Chloroethane	Not detected	ug/L	5	SW8260C	10/31/14 18:02	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260C	10/31/14 18:02	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260C	10/31/14 18:02	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	SW8260C	10/31/14 18:02	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260C	10/31/14 18:02	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260C	10/31/14 18:02	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260C	10/31/14 18:02	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	SW8260C	10/31/14 18:02	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	SW8260C	10/31/14 18:02	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	SW8260C	10/31/14 18:02	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260C	10/31/14 18:02	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW8260C	10/31/14 18:02	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	SW8260C	10/31/14 18:02	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW8260C	10/31/14 18:02	WAT	56-23-5	
Benzene	Not detected	ug/L	1	SW8260C	10/31/14 18:02	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260C	10/31/14 18:02	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW8260C	10/31/14 18:02	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260C	10/31/14 18:02	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW8260C	10/31/14 18:02	WAT	75-27-4	
Dibromomethane	Not detected	ug/L	5	SW8260C	10/31/14 18:02	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260C	10/31/14 18:02	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	SW8260C	10/31/14 18:02	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260C	10/31/14 18:02	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260C	10/31/14 18:02	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW8260C	10/31/14 18:02	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW8260C	10/31/14 18:02	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	SW8260C	10/31/14 18:02	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260C	10/31/14 18:02	WAT	106-93-4	

Lab Sample ID: S63380.24 (continued)
Sample Tag: MW-28_10282014

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	SW8260C	10/31/14 18:02	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW8260C	10/31/14 18:02	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	SW8260C	10/31/14 18:02	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	SW8260C	10/31/14 18:02	WAT		
o-Xylene	Not detected	ug/L	1	SW8260C	10/31/14 18:02	WAT	95-47-6	
Styrene	Not detected	ug/L	1	SW8260C	10/31/14 18:02	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	SW8260C	10/31/14 18:02	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	SW8260C	10/31/14 18:02	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260C	10/31/14 18:02	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	SW8260C	10/31/14 18:02	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	SW8260C	10/31/14 18:02	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	SW8260C	10/31/14 18:02	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW8260C	10/31/14 18:02	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	SW8260C	10/31/14 18:02	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW8260C	10/31/14 18:02	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	SW8260C	10/31/14 18:02	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	SW8260C	10/31/14 18:02	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260C	10/31/14 18:02	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260C	10/31/14 18:02	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260C	10/31/14 18:02	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW8260C	10/31/14 18:02	WAT	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	SW8260C	10/31/14 18:02	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	SW8260C	10/31/14 18:02	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW8260C	10/31/14 18:02	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW8260C	10/31/14 18:02	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW8260C	10/31/14 18:02	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	SW8260C	10/31/14 18:02	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	SW8260C	10/31/14 18:02	WAT	91-57-6	

Lab Sample ID: S63380.25
Sample Tag: MW-33_10282014
Collected Date/Time: 10/28/2014 12:32
Matrix: Groundwater
COC Reference: 87708

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	4.9	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
pH check for VOCs	<2	STD Units		N/A	11/03/14 10:27	LBR		
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	10	SW8260C	10/31/14 18:24	WAT	60-29-7	
Acetone	Not detected	ug/L	50	SW8260C	10/31/14 18:24	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	SW8260C	10/31/14 18:24	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	SW8260C	10/31/14 18:24	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW8260C	10/31/14 18:24	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	SW8260C	10/31/14 18:24	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	SW8260C	10/31/14 18:24	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW8260C	10/31/14 18:24	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	SW8260C	10/31/14 18:24	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW8260C	10/31/14 18:24	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	SW8260C	10/31/14 18:24	WAT	74-83-9	
Chloroethane	Not detected	ug/L	5	SW8260C	10/31/14 18:24	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260C	10/31/14 18:24	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260C	10/31/14 18:24	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	SW8260C	10/31/14 18:24	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260C	10/31/14 18:24	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260C	10/31/14 18:24	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260C	10/31/14 18:24	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	SW8260C	10/31/14 18:24	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	SW8260C	10/31/14 18:24	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	SW8260C	10/31/14 18:24	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260C	10/31/14 18:24	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW8260C	10/31/14 18:24	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	SW8260C	10/31/14 18:24	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW8260C	10/31/14 18:24	WAT	56-23-5	
Benzene	40	ug/L	1	SW8260C	10/31/14 18:24	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260C	10/31/14 18:24	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW8260C	10/31/14 18:24	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260C	10/31/14 18:24	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW8260C	10/31/14 18:24	WAT	75-27-4	
Dibromomethane	Not detected	ug/L	5	SW8260C	10/31/14 18:24	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260C	10/31/14 18:24	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	SW8260C	10/31/14 18:24	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260C	10/31/14 18:24	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260C	10/31/14 18:24	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW8260C	10/31/14 18:24	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW8260C	10/31/14 18:24	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	SW8260C	10/31/14 18:24	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260C	10/31/14 18:24	WAT	106-93-4	

Lab Sample ID: S63380.25 (continued)
Sample Tag: MW-33_10282014

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	SW8260C	10/31/14 18:24	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW8260C	10/31/14 18:24	WAT	630-20-6	
Ethylbenzene	5	ug/L	1	SW8260C	10/31/14 18:24	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	SW8260C	10/31/14 18:24	WAT		
o-Xylene	Not detected	ug/L	1	SW8260C	10/31/14 18:24	WAT	95-47-6	
Styrene	Not detected	ug/L	1	SW8260C	10/31/14 18:24	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	SW8260C	10/31/14 18:24	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	SW8260C	10/31/14 18:24	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260C	10/31/14 18:24	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	SW8260C	10/31/14 18:24	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	SW8260C	10/31/14 18:24	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	SW8260C	10/31/14 18:24	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW8260C	10/31/14 18:24	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	SW8260C	10/31/14 18:24	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW8260C	10/31/14 18:24	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	SW8260C	10/31/14 18:24	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	SW8260C	10/31/14 18:24	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260C	10/31/14 18:24	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260C	10/31/14 18:24	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260C	10/31/14 18:24	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW8260C	10/31/14 18:24	WAT	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	SW8260C	10/31/14 18:24	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	SW8260C	10/31/14 18:24	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW8260C	10/31/14 18:24	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW8260C	10/31/14 18:24	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW8260C	10/31/14 18:24	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	SW8260C	10/31/14 18:24	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	SW8260C	10/31/14 18:24	WAT	91-57-6	

Lab Sample ID: S63380.26
Sample Tag: MW-21_10282014
Collected Date/Time: 10/28/2014 13:20
Matrix: Groundwater
COC Reference: 87708

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	4.9	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
pH check for VOCs	<2	STD Units		N/A	11/03/14 10:27	LBR		
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	10	SW8260C	10/31/14 18:46	WAT	60-29-7	
Acetone	Not detected	ug/L	50	SW8260C	10/31/14 18:46	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	SW8260C	10/31/14 18:46	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	SW8260C	10/31/14 18:46	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW8260C	10/31/14 18:46	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	SW8260C	10/31/14 18:46	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	SW8260C	10/31/14 18:46	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW8260C	10/31/14 18:46	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	SW8260C	10/31/14 18:46	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW8260C	10/31/14 18:46	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	SW8260C	10/31/14 18:46	WAT	74-83-9	
Chloroethane	Not detected	ug/L	5	SW8260C	10/31/14 18:46	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260C	10/31/14 18:46	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260C	10/31/14 18:46	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	SW8260C	10/31/14 18:46	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260C	10/31/14 18:46	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260C	10/31/14 18:46	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260C	10/31/14 18:46	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	SW8260C	10/31/14 18:46	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	SW8260C	10/31/14 18:46	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	SW8260C	10/31/14 18:46	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260C	10/31/14 18:46	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW8260C	10/31/14 18:46	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	SW8260C	10/31/14 18:46	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW8260C	10/31/14 18:46	WAT	56-23-5	
Benzene	Not detected	ug/L	1	SW8260C	10/31/14 18:46	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260C	10/31/14 18:46	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW8260C	10/31/14 18:46	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260C	10/31/14 18:46	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW8260C	10/31/14 18:46	WAT	75-27-4	
Dibromomethane	Not detected	ug/L	5	SW8260C	10/31/14 18:46	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260C	10/31/14 18:46	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	SW8260C	10/31/14 18:46	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260C	10/31/14 18:46	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260C	10/31/14 18:46	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW8260C	10/31/14 18:46	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW8260C	10/31/14 18:46	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	SW8260C	10/31/14 18:46	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260C	10/31/14 18:46	WAT	106-93-4	

Lab Sample ID: S63380.26 (continued)
Sample Tag: MW-21_10282014

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	SW8260C	10/31/14 18:46	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW8260C	10/31/14 18:46	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	SW8260C	10/31/14 18:46	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	SW8260C	10/31/14 18:46	WAT		
o-Xylene	Not detected	ug/L	1	SW8260C	10/31/14 18:46	WAT	95-47-6	
Styrene	Not detected	ug/L	1	SW8260C	10/31/14 18:46	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	SW8260C	10/31/14 18:46	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	SW8260C	10/31/14 18:46	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260C	10/31/14 18:46	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	SW8260C	10/31/14 18:46	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	SW8260C	10/31/14 18:46	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	SW8260C	10/31/14 18:46	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW8260C	10/31/14 18:46	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	SW8260C	10/31/14 18:46	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW8260C	10/31/14 18:46	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	SW8260C	10/31/14 18:46	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	SW8260C	10/31/14 18:46	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260C	10/31/14 18:46	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260C	10/31/14 18:46	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260C	10/31/14 18:46	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW8260C	10/31/14 18:46	WAT	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	SW8260C	10/31/14 18:46	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	SW8260C	10/31/14 18:46	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW8260C	10/31/14 18:46	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW8260C	10/31/14 18:46	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW8260C	10/31/14 18:46	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	SW8260C	10/31/14 18:46	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	SW8260C	10/31/14 18:46	WAT	91-57-6	

Analytical Laboratory Report

Lab Sample ID: S63380.27
Sample Tag: MW-8_10282014
Collected Date/Time: 10/28/2014 13:42
Matrix: Groundwater
COC Reference: 87707

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	4.9	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
pH check for VOCs	<2	STD Units		N/A	11/03/14 10:32	LBR		
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	200	SW8260C	10/31/14 19:52	WAT	60-29-7	Y
Acetone	Not detected	ug/L	1,000	SW8260C	10/31/14 19:52	WAT	67-64-1	Y
Methyl iodide	Not detected	ug/L	20	SW8260C	10/31/14 19:52	WAT	74-88-4	Y
Carbon disulfide	Not detected	ug/L	100	SW8260C	10/31/14 19:52	WAT	75-15-0	Y
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	100	SW8260C	10/31/14 19:52	WAT	1634-04-4	Y
Acrylonitrile	Not detected	ug/L	40	SW8260C	10/31/14 19:52	WAT	107-13-1	Y
2-Butanone (MEK)	Not detected	ug/L	500	SW8260C	10/31/14 19:52	WAT	78-93-3	Y
Dichlorodifluoromethane	Not detected	ug/L	100	SW8260C	10/31/14 19:52	WAT	75-71-8	Y
Chloromethane	Not detected	ug/L	100	SW8260C	10/31/14 19:52	WAT	74-87-3	Y
Vinyl chloride	Not detected	ug/L	20	SW8260C	10/31/14 19:52	WAT	75-01-4	Y
Bromomethane	Not detected	ug/L	100	SW8260C	10/31/14 19:52	WAT	74-83-9	Y
Chloroethane	Not detected	ug/L	100	SW8260C	10/31/14 19:52	WAT	75-00-3	Y
Trichlorofluoromethane	Not detected	ug/L	20	SW8260C	10/31/14 19:52	WAT	75-69-4	Y
1,1-Dichloroethene	Not detected	ug/L	20	SW8260C	10/31/14 19:52	WAT	75-35-4	Y
Methylene chloride	Not detected	ug/L	100	SW8260C	10/31/14 19:52	WAT	75-09-2	Y
trans-1,2-Dichloroethene	Not detected	ug/L	20	SW8260C	10/31/14 19:52	WAT	156-60-5	Y
1,1-Dichloroethane	Not detected	ug/L	20	SW8260C	10/31/14 19:52	WAT	75-34-3	Y
cis-1,2-Dichloroethene	Not detected	ug/L	20	SW8260C	10/31/14 19:52	WAT	156-59-2	Y
Tetrahydrofuran	Not detected	ug/L	1,800	SW8260C	10/31/14 19:52	WAT	109-99-9	Y
Chloroform	Not detected	ug/L	20	SW8260C	10/31/14 19:52	WAT	67-66-3	Y
Bromochloromethane	Not detected	ug/L	20	SW8260C	10/31/14 19:52	WAT	74-97-5	Y
1,1,1-Trichloroethane	Not detected	ug/L	20	SW8260C	10/31/14 19:52	WAT	71-55-6	Y
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	1,000	SW8260C	10/31/14 19:52	WAT	108-10-1	Y
2-Hexanone	Not detected	ug/L	1,000	SW8260C	10/31/14 19:52	WAT	591-78-6	Y
Carbon tetrachloride	Not detected	ug/L	20	SW8260C	10/31/14 19:52	WAT	56-23-5	Y
Benzene	3,880	ug/L	20	SW8260C	10/31/14 19:52	WAT	71-43-2	Y
1,2-Dichloroethane	Not detected	ug/L	20	SW8260C	10/31/14 19:52	WAT	107-06-2	Y
Trichloroethene	Not detected	ug/L	20	SW8260C	10/31/14 19:52	WAT	79-01-6	Y
1,2-Dichloropropane	Not detected	ug/L	20	SW8260C	10/31/14 19:52	WAT	78-87-5	Y
Bromodichloromethane	Not detected	ug/L	20	SW8260C	10/31/14 19:52	WAT	75-27-4	Y
Dibromomethane	Not detected	ug/L	100	SW8260C	10/31/14 19:52	WAT	74-95-3	Y
cis-1,3-Dichloropropene	Not detected	ug/L	20	SW8260C	10/31/14 19:52	WAT	10061-01-5	Y
Toluene	240	ug/L	20	SW8260C	10/31/14 19:52	WAT	108-88-3	Y
trans-1,3-Dichloropropene	Not detected	ug/L	20	SW8260C	10/31/14 19:52	WAT	10061-02-6	Y
1,1,2-Trichloroethane	Not detected	ug/L	20	SW8260C	10/31/14 19:52	WAT	79-00-5	Y
Tetrachloroethene	Not detected	ug/L	20	SW8260C	10/31/14 19:52	WAT	127-18-4	Y
trans-1,4-Dichloro-2-butene	Not detected	ug/L	20	SW8260C	10/31/14 19:52	WAT	110-57-6	Y
Dibromochloromethane	Not detected	ug/L	100	SW8260C	10/31/14 19:52	WAT	124-48-1	Y

Y-Elevated reporting limit due to high target concentration

Lab Sample ID: S63380.27 (continued)
Sample Tag: MW-8_10282014

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
1,2-Dibromoethane	Not detected	ug/L	20	SW8260C	10/31/14 19:52	WAT	106-93-4	Y
Chlorobenzene	Not detected	ug/L	20	SW8260C	10/31/14 19:52	WAT	108-90-7	Y
1,1,1,2-Tetrachloroethane	Not detected	ug/L	20	SW8260C	10/31/14 19:52	WAT	630-20-6	Y
Ethylbenzene	2,050	ug/L	20	SW8260C	10/31/14 19:52	WAT	100-41-4	Y
p,m-Xylene	5,850	ug/L	40	SW8260C	10/31/14 19:52	WAT		Y
o-Xylene	880	ug/L	20	SW8260C	10/31/14 19:52	WAT	95-47-6	Y
Styrene	Not detected	ug/L	20	SW8260C	10/31/14 19:52	WAT	100-42-5	Y
Isopropylbenzene	Not detected	ug/L	100	SW8260C	10/31/14 19:52	WAT	98-82-8	Y
Bromoform	Not detected	ug/L	20	SW8260C	10/31/14 19:52	WAT	75-25-2	Y
1,1,2,2-Tetrachloroethane	Not detected	ug/L	20	SW8260C	10/31/14 19:52	WAT	79-34-5	Y
1,2,3-Trichloropropane	Not detected	ug/L	20	SW8260C	10/31/14 19:52	WAT	96-18-4	Y
n-Propylbenzene	200	ug/L	20	SW8260C	10/31/14 19:52	WAT	103-65-1	Y
Bromobenzene	Not detected	ug/L	20	SW8260C	10/31/14 19:52	WAT	108-86-1	Y
1,3,5-Trimethylbenzene	300	ug/L	20	SW8260C	10/31/14 19:52	WAT	108-67-8	Y
tert-Butylbenzene	Not detected	ug/L	20	SW8260C	10/31/14 19:52	WAT	98-06-6	Y
1,2,4-Trimethylbenzene	1,030	ug/L	20	SW8260C	10/31/14 19:52	WAT	95-63-6	Y
sec-Butylbenzene	Not detected	ug/L	20	SW8260C	10/31/14 19:52	WAT	135-98-8	Y
p-Isopropyltoluene	Not detected	ug/L	100	SW8260C	10/31/14 19:52	WAT	99-87-6	Y
1,3-Dichlorobenzene	Not detected	ug/L	20	SW8260C	10/31/14 19:52	WAT	541-73-1	Y
1,4-Dichlorobenzene	Not detected	ug/L	20	SW8260C	10/31/14 19:52	WAT	106-46-7	Y
1,2-Dichlorobenzene	Not detected	ug/L	20	SW8260C	10/31/14 19:52	WAT	95-50-1	Y
1,2,3-Trimethylbenzene	290	ug/L	20	SW8260C	10/31/14 19:52	WAT	526-73-8	Y
n-Butylbenzene	Not detected	ug/L	20	SW8260C	10/31/14 19:52	WAT	104-51-8	Y
Hexachloroethane	Not detected	ug/L	100	SW8260C	10/31/14 19:52	WAT	67-72-1	Y
1,2-Dibromo-3-chloropropane	Not detected	ug/L	100	SW8260C	10/31/14 19:52	WAT	96-12-8	Y
1,2,4-Trichlorobenzene	Not detected	ug/L	100	SW8260C	10/31/14 19:52	WAT	120-82-1	Y
1,2,3-Trichlorobenzene	Not detected	ug/L	100	SW8260C	10/31/14 19:52	WAT	87-61-6	Y
Naphthalene	100	ug/L	100	SW8260C	10/31/14 19:52	WAT	91-20-3	Y
2-Methylnaphthalene	Not detected	ug/L	100	SW8260C	10/31/14 19:52	WAT	91-57-6	Y

Y-Elevated reporting limit due to high target concentration

Analytical Laboratory Report

Lab Sample ID: S63380.28
Sample Tag: MW-22_10282014
Collected Date/Time: 10/28/2014 14:25
Matrix: Groundwater
COC Reference: 87707

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	4.9	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
pH check for VOCs	<2	STD Units		N/A	11/04/14 11:20	LBR		
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	10	SW8260C	11/03/14 18:27	WAT	60-29-7	
Acetone	Not detected	ug/L	50	SW8260C	11/03/14 18:27	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	SW8260C	11/03/14 18:27	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	SW8260C	11/03/14 18:27	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW8260C	11/03/14 18:27	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	SW8260C	11/03/14 18:27	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	SW8260C	11/03/14 18:27	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW8260C	11/03/14 18:27	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	SW8260C	11/03/14 18:27	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW8260C	11/03/14 18:27	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	SW8260C	11/03/14 18:27	WAT	74-83-9	
Chloroethane	Not detected	ug/L	5	SW8260C	11/03/14 18:27	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260C	11/03/14 18:27	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260C	11/03/14 18:27	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	SW8260C	11/03/14 18:27	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260C	11/03/14 18:27	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260C	11/03/14 18:27	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260C	11/03/14 18:27	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	SW8260C	11/03/14 18:27	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	SW8260C	11/03/14 18:27	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	SW8260C	11/03/14 18:27	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260C	11/03/14 18:27	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW8260C	11/03/14 18:27	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	SW8260C	11/03/14 18:27	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW8260C	11/03/14 18:27	WAT	56-23-5	
Benzene	Not detected	ug/L	1	SW8260C	11/03/14 18:27	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260C	11/03/14 18:27	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW8260C	11/03/14 18:27	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260C	11/03/14 18:27	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW8260C	11/03/14 18:27	WAT	75-27-4	
Dibromomethane	Not detected	ug/L	5	SW8260C	11/03/14 18:27	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260C	11/03/14 18:27	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	SW8260C	11/03/14 18:27	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260C	11/03/14 18:27	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260C	11/03/14 18:27	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW8260C	11/03/14 18:27	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW8260C	11/03/14 18:27	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	SW8260C	11/03/14 18:27	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260C	11/03/14 18:27	WAT	106-93-4	

Lab Sample ID: S63380.28 (continued)
Sample Tag: MW-22_10282014

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	SW8260C	11/03/14 18:27	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW8260C	11/03/14 18:27	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	SW8260C	11/03/14 18:27	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	SW8260C	11/03/14 18:27	WAT		
o-Xylene	Not detected	ug/L	1	SW8260C	11/03/14 18:27	WAT	95-47-6	
Styrene	Not detected	ug/L	1	SW8260C	11/03/14 18:27	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	SW8260C	11/03/14 18:27	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	SW8260C	11/03/14 18:27	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260C	11/03/14 18:27	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	SW8260C	11/03/14 18:27	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	SW8260C	11/03/14 18:27	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	SW8260C	11/03/14 18:27	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW8260C	11/03/14 18:27	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	SW8260C	11/03/14 18:27	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW8260C	11/03/14 18:27	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	SW8260C	11/03/14 18:27	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	SW8260C	11/03/14 18:27	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260C	11/03/14 18:27	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260C	11/03/14 18:27	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260C	11/03/14 18:27	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW8260C	11/03/14 18:27	WAT	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	SW8260C	11/03/14 18:27	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	SW8260C	11/03/14 18:27	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW8260C	11/03/14 18:27	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW8260C	11/03/14 18:27	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW8260C	11/03/14 18:27	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	SW8260C	11/03/14 18:27	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	SW8260C	11/03/14 18:27	WAT	91-57-6	

Lab Sample ID: S63380.29
Sample Tag: Dup-02_10282014
Collected Date/Time: 10/28/2014 00:01
Matrix: Groundwater
COC Reference: 87707

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	4.9	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
pH check for VOCs	<2	STD Units		N/A	11/04/14 11:20	LBR		
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	10	SW8260C	11/03/14 18:49	WAT	60-29-7	
Acetone	Not detected	ug/L	50	SW8260C	11/03/14 18:49	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	SW8260C	11/03/14 18:49	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	SW8260C	11/03/14 18:49	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW8260C	11/03/14 18:49	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	SW8260C	11/03/14 18:49	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	SW8260C	11/03/14 18:49	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW8260C	11/03/14 18:49	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	SW8260C	11/03/14 18:49	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW8260C	11/03/14 18:49	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	SW8260C	11/03/14 18:49	WAT	74-83-9	
Chloroethane	Not detected	ug/L	5	SW8260C	11/03/14 18:49	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260C	11/03/14 18:49	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260C	11/03/14 18:49	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	SW8260C	11/03/14 18:49	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260C	11/03/14 18:49	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260C	11/03/14 18:49	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260C	11/03/14 18:49	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	SW8260C	11/03/14 18:49	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	SW8260C	11/03/14 18:49	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	SW8260C	11/03/14 18:49	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260C	11/03/14 18:49	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW8260C	11/03/14 18:49	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	SW8260C	11/03/14 18:49	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW8260C	11/03/14 18:49	WAT	56-23-5	
Benzene	Not detected	ug/L	1	SW8260C	11/03/14 18:49	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260C	11/03/14 18:49	WAT	107-06-2	
Trichloroethene	8	ug/L	1	SW8260C	11/03/14 18:49	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260C	11/03/14 18:49	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW8260C	11/03/14 18:49	WAT	75-27-4	
Dibromomethane	Not detected	ug/L	5	SW8260C	11/03/14 18:49	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260C	11/03/14 18:49	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	SW8260C	11/03/14 18:49	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260C	11/03/14 18:49	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260C	11/03/14 18:49	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW8260C	11/03/14 18:49	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW8260C	11/03/14 18:49	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	SW8260C	11/03/14 18:49	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260C	11/03/14 18:49	WAT	106-93-4	

Lab Sample ID: S63380.29 (continued)
Sample Tag: Dup-02_10282014

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	SW8260C	11/03/14 18:49	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW8260C	11/03/14 18:49	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	SW8260C	11/03/14 18:49	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	SW8260C	11/03/14 18:49	WAT		
o-Xylene	Not detected	ug/L	1	SW8260C	11/03/14 18:49	WAT	95-47-6	
Styrene	Not detected	ug/L	1	SW8260C	11/03/14 18:49	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	SW8260C	11/03/14 18:49	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	SW8260C	11/03/14 18:49	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260C	11/03/14 18:49	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	SW8260C	11/03/14 18:49	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	SW8260C	11/03/14 18:49	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	SW8260C	11/03/14 18:49	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW8260C	11/03/14 18:49	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	SW8260C	11/03/14 18:49	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW8260C	11/03/14 18:49	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	SW8260C	11/03/14 18:49	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	SW8260C	11/03/14 18:49	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260C	11/03/14 18:49	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260C	11/03/14 18:49	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260C	11/03/14 18:49	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW8260C	11/03/14 18:49	WAT	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	SW8260C	11/03/14 18:49	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	SW8260C	11/03/14 18:49	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW8260C	11/03/14 18:49	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW8260C	11/03/14 18:49	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW8260C	11/03/14 18:49	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	SW8260C	11/03/14 18:49	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	SW8260C	11/03/14 18:49	WAT	91-57-6	

Analytical Laboratory Report

Lab Sample ID: S63380.30
Sample Tag: Trip Blanks
Collected Date/Time: 10/28/2014 00:01
Matrix: Groundwater
COC Reference: 87707

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	4.9	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
pH check for VOCs	<2	STD Units		N/A	11/04/14 11:20	LBR		
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	10	SW8260C	11/03/14 14:24	WAT	60-29-7	
Acetone	Not detected	ug/L	50	SW8260C	11/03/14 14:24	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	SW8260C	11/03/14 14:24	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	SW8260C	11/03/14 14:24	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW8260C	11/03/14 14:24	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	SW8260C	11/03/14 14:24	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	SW8260C	11/03/14 14:24	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW8260C	11/03/14 14:24	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	SW8260C	11/03/14 14:24	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW8260C	11/03/14 14:24	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	SW8260C	11/03/14 14:24	WAT	74-83-9	
Chloroethane	Not detected	ug/L	5	SW8260C	11/03/14 14:24	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260C	11/03/14 14:24	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260C	11/03/14 14:24	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	SW8260C	11/03/14 14:24	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260C	11/03/14 14:24	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260C	11/03/14 14:24	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260C	11/03/14 14:24	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	SW8260C	11/03/14 14:24	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	SW8260C	11/03/14 14:24	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	SW8260C	11/03/14 14:24	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260C	11/03/14 14:24	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW8260C	11/03/14 14:24	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	SW8260C	11/03/14 14:24	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW8260C	11/03/14 14:24	WAT	56-23-5	
Benzene	Not detected	ug/L	1	SW8260C	11/03/14 14:24	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260C	11/03/14 14:24	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW8260C	11/03/14 14:24	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260C	11/03/14 14:24	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW8260C	11/03/14 14:24	WAT	75-27-4	
Dibromomethane	Not detected	ug/L	5	SW8260C	11/03/14 14:24	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260C	11/03/14 14:24	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	SW8260C	11/03/14 14:24	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260C	11/03/14 14:24	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260C	11/03/14 14:24	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW8260C	11/03/14 14:24	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW8260C	11/03/14 14:24	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	SW8260C	11/03/14 14:24	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260C	11/03/14 14:24	WAT	106-93-4	

Lab Sample ID: S63380.30 (continued)
Sample Tag: Trip Blanks

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	SW8260C	11/03/14 14:24	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW8260C	11/03/14 14:24	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	SW8260C	11/03/14 14:24	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	SW8260C	11/03/14 14:24	WAT		
o-Xylene	Not detected	ug/L	1	SW8260C	11/03/14 14:24	WAT	95-47-6	
Styrene	Not detected	ug/L	1	SW8260C	11/03/14 14:24	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	SW8260C	11/03/14 14:24	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	SW8260C	11/03/14 14:24	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260C	11/03/14 14:24	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	SW8260C	11/03/14 14:24	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	SW8260C	11/03/14 14:24	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	SW8260C	11/03/14 14:24	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW8260C	11/03/14 14:24	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	SW8260C	11/03/14 14:24	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW8260C	11/03/14 14:24	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	SW8260C	11/03/14 14:24	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	SW8260C	11/03/14 14:24	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260C	11/03/14 14:24	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260C	11/03/14 14:24	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260C	11/03/14 14:24	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW8260C	11/03/14 14:24	WAT	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	SW8260C	11/03/14 14:24	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	SW8260C	11/03/14 14:24	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW8260C	11/03/14 14:24	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW8260C	11/03/14 14:24	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW8260C	11/03/14 14:24	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	SW8260C	11/03/14 14:24	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	SW8260C	11/03/14 14:24	WAT	91-57-6	

Lab Sample ID: S63380.31
Sample Tag: MW-24S_10292014
Collected Date/Time: 10/29/2014 09:37
Matrix: Groundwater
COC Reference: 87707

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	4.9	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
pH check for VOCs	<2	STD Units		N/A	11/04/14 11:20	LBR		
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	10	SW8260C	11/03/14 14:46	WAT	60-29-7	
Acetone	Not detected	ug/L	50	SW8260C	11/03/14 14:46	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	SW8260C	11/03/14 14:46	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	SW8260C	11/03/14 14:46	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW8260C	11/03/14 14:46	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	SW8260C	11/03/14 14:46	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	SW8260C	11/03/14 14:46	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW8260C	11/03/14 14:46	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	SW8260C	11/03/14 14:46	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW8260C	11/03/14 14:46	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	SW8260C	11/03/14 14:46	WAT	74-83-9	
Chloroethane	Not detected	ug/L	5	SW8260C	11/03/14 14:46	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260C	11/03/14 14:46	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260C	11/03/14 14:46	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	SW8260C	11/03/14 14:46	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260C	11/03/14 14:46	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260C	11/03/14 14:46	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260C	11/03/14 14:46	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	SW8260C	11/03/14 14:46	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	SW8260C	11/03/14 14:46	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	SW8260C	11/03/14 14:46	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260C	11/03/14 14:46	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW8260C	11/03/14 14:46	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	SW8260C	11/03/14 14:46	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW8260C	11/03/14 14:46	WAT	56-23-5	
Benzene	Not detected	ug/L	1	SW8260C	11/03/14 14:46	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260C	11/03/14 14:46	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW8260C	11/03/14 14:46	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260C	11/03/14 14:46	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW8260C	11/03/14 14:46	WAT	75-27-4	
Dibromomethane	Not detected	ug/L	5	SW8260C	11/03/14 14:46	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260C	11/03/14 14:46	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	SW8260C	11/03/14 14:46	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260C	11/03/14 14:46	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260C	11/03/14 14:46	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW8260C	11/03/14 14:46	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW8260C	11/03/14 14:46	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	SW8260C	11/03/14 14:46	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260C	11/03/14 14:46	WAT	106-93-4	

Lab Sample ID: S63380.31 (continued)
Sample Tag: MW-24S_10292014

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	SW8260C	11/03/14 14:46	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW8260C	11/03/14 14:46	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	SW8260C	11/03/14 14:46	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	SW8260C	11/03/14 14:46	WAT		
o-Xylene	Not detected	ug/L	1	SW8260C	11/03/14 14:46	WAT	95-47-6	
Styrene	Not detected	ug/L	1	SW8260C	11/03/14 14:46	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	SW8260C	11/03/14 14:46	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	SW8260C	11/03/14 14:46	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260C	11/03/14 14:46	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	SW8260C	11/03/14 14:46	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	SW8260C	11/03/14 14:46	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	SW8260C	11/03/14 14:46	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW8260C	11/03/14 14:46	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	SW8260C	11/03/14 14:46	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW8260C	11/03/14 14:46	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	SW8260C	11/03/14 14:46	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	SW8260C	11/03/14 14:46	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260C	11/03/14 14:46	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260C	11/03/14 14:46	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260C	11/03/14 14:46	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW8260C	11/03/14 14:46	WAT	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	SW8260C	11/03/14 14:46	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	SW8260C	11/03/14 14:46	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW8260C	11/03/14 14:46	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW8260C	11/03/14 14:46	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW8260C	11/03/14 14:46	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	SW8260C	11/03/14 14:46	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	SW8260C	11/03/14 14:46	WAT	91-57-6	

Analytical Laboratory Report

Lab Sample ID: S63380.32
Sample Tag: MW-24D_10292014
Collected Date/Time: 10/29/2014 10:32
Matrix: Groundwater
COC Reference: 87707

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	4.9	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
pH check for VOCs	<2	STD Units		N/A	11/04/14 11:20	LBR		
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	2,000	SW8260C	11/03/14 19:33	WAT	60-29-7	Y
Acetone	Not detected	ug/L	10,000	SW8260C	11/03/14 19:33	WAT	67-64-1	Y
Methyl iodide	Not detected	ug/L	200	SW8260C	11/03/14 19:33	WAT	74-88-4	Y
Carbon disulfide	Not detected	ug/L	1,000	SW8260C	11/03/14 19:33	WAT	75-15-0	Y
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	1,000	SW8260C	11/03/14 19:33	WAT	1634-04-4	Y
Acrylonitrile	Not detected	ug/L	400	SW8260C	11/03/14 19:33	WAT	107-13-1	Y
2-Butanone (MEK)	Not detected	ug/L	5,000	SW8260C	11/03/14 19:33	WAT	78-93-3	Y
Dichlorodifluoromethane	Not detected	ug/L	1,000	SW8260C	11/03/14 19:33	WAT	75-71-8	Y
Chloromethane	Not detected	ug/L	1,000	SW8260C	11/03/14 19:33	WAT	74-87-3	Y
Vinyl chloride	Not detected	ug/L	200	SW8260C	11/03/14 19:33	WAT	75-01-4	Y
Bromomethane	Not detected	ug/L	1,000	SW8260C	11/03/14 19:33	WAT	74-83-9	Y
Chloroethane	Not detected	ug/L	1,000	SW8260C	11/03/14 19:33	WAT	75-00-3	Y
Trichlorofluoromethane	Not detected	ug/L	200	SW8260C	11/03/14 19:33	WAT	75-69-4	Y
1,1-Dichloroethene	Not detected	ug/L	200	SW8260C	11/03/14 19:33	WAT	75-35-4	Y
Methylene chloride	Not detected	ug/L	1,000	SW8260C	11/03/14 19:33	WAT	75-09-2	Y
trans-1,2-Dichloroethene	Not detected	ug/L	200	SW8260C	11/03/14 19:33	WAT	156-60-5	Y
1,1-Dichloroethane	Not detected	ug/L	200	SW8260C	11/03/14 19:33	WAT	75-34-3	Y
cis-1,2-Dichloroethene	Not detected	ug/L	200	SW8260C	11/03/14 19:33	WAT	156-59-2	Y
Tetrahydrofuran	Not detected	ug/L	18,000	SW8260C	11/03/14 19:33	WAT	109-99-9	Y
Chloroform	Not detected	ug/L	200	SW8260C	11/03/14 19:33	WAT	67-66-3	Y
Bromochloromethane	Not detected	ug/L	200	SW8260C	11/03/14 19:33	WAT	74-97-5	Y
1,1,1-Trichloroethane	Not detected	ug/L	200	SW8260C	11/03/14 19:33	WAT	71-55-6	Y
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	10,000	SW8260C	11/03/14 19:33	WAT	108-10-1	Y
2-Hexanone	Not detected	ug/L	10,000	SW8260C	11/03/14 19:33	WAT	591-78-6	Y
Carbon tetrachloride	Not detected	ug/L	200	SW8260C	11/03/14 19:33	WAT	56-23-5	Y
Benzene	27,200	ug/L	200	SW8260C	11/03/14 19:33	WAT	71-43-2	Y
1,2-Dichloroethane	Not detected	ug/L	200	SW8260C	11/03/14 19:33	WAT	107-06-2	Y
Trichloroethene	Not detected	ug/L	200	SW8260C	11/03/14 19:33	WAT	79-01-6	Y
1,2-Dichloropropane	Not detected	ug/L	200	SW8260C	11/03/14 19:33	WAT	78-87-5	Y
Bromodichloromethane	Not detected	ug/L	200	SW8260C	11/03/14 19:33	WAT	75-27-4	Y
Dibromomethane	Not detected	ug/L	1,000	SW8260C	11/03/14 19:33	WAT	74-95-3	Y
cis-1,3-Dichloropropene	Not detected	ug/L	200	SW8260C	11/03/14 19:33	WAT	10061-01-5	Y
Toluene	27,000	ug/L	200	SW8260C	11/03/14 19:33	WAT	108-88-3	Y
trans-1,3-Dichloropropene	Not detected	ug/L	200	SW8260C	11/03/14 19:33	WAT	10061-02-6	Y
1,1,2-Trichloroethane	Not detected	ug/L	200	SW8260C	11/03/14 19:33	WAT	79-00-5	Y
Tetrachloroethene	Not detected	ug/L	200	SW8260C	11/03/14 19:33	WAT	127-18-4	Y
trans-1,4-Dichloro-2-butene	Not detected	ug/L	200	SW8260C	11/03/14 19:33	WAT	110-57-6	Y
Dibromochloromethane	Not detected	ug/L	1,000	SW8260C	11/03/14 19:33	WAT	124-48-1	Y

Y-Elevated reporting limit due to high target concentration

Lab Sample ID: S63380.32 (continued)
Sample Tag: MW-24D_10292014

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
1,2-Dibromoethane	Not detected	ug/L	200	SW8260C	11/03/14 19:33	WAT	106-93-4	Y
Chlorobenzene	Not detected	ug/L	200	SW8260C	11/03/14 19:33	WAT	108-90-7	Y
1,1,1,2-Tetrachloroethane	Not detected	ug/L	200	SW8260C	11/03/14 19:33	WAT	630-20-6	Y
Ethylbenzene	2,100	ug/L	200	SW8260C	11/03/14 19:33	WAT	100-41-4	Y
p,m-Xylene	7,700	ug/L	400	SW8260C	11/03/14 19:33	WAT		Y
o-Xylene	3,500	ug/L	200	SW8260C	11/03/14 19:33	WAT	95-47-6	Y
Styrene	Not detected	ug/L	200	SW8260C	11/03/14 19:33	WAT	100-42-5	Y
Isopropylbenzene	Not detected	ug/L	1,000	SW8260C	11/03/14 19:33	WAT	98-82-8	Y
Bromoform	Not detected	ug/L	200	SW8260C	11/03/14 19:33	WAT	75-25-2	Y
1,1,2,2-Tetrachloroethane	Not detected	ug/L	200	SW8260C	11/03/14 19:33	WAT	79-34-5	Y
1,2,3-Trichloropropane	Not detected	ug/L	200	SW8260C	11/03/14 19:33	WAT	96-18-4	Y
n-Propylbenzene	Not detected	ug/L	200	SW8260C	11/03/14 19:33	WAT	103-65-1	Y
Bromobenzene	Not detected	ug/L	200	SW8260C	11/03/14 19:33	WAT	108-86-1	Y
1,3,5-Trimethylbenzene	300	ug/L	200	SW8260C	11/03/14 19:33	WAT	108-67-8	Y
tert-Butylbenzene	Not detected	ug/L	200	SW8260C	11/03/14 19:33	WAT	98-06-6	Y
1,2,4-Trimethylbenzene	900	ug/L	200	SW8260C	11/03/14 19:33	WAT	95-63-6	Y
sec-Butylbenzene	Not detected	ug/L	200	SW8260C	11/03/14 19:33	WAT	135-98-8	Y
p-Isopropyltoluene	Not detected	ug/L	1,000	SW8260C	11/03/14 19:33	WAT	99-87-6	Y
1,3-Dichlorobenzene	Not detected	ug/L	200	SW8260C	11/03/14 19:33	WAT	541-73-1	Y
1,4-Dichlorobenzene	Not detected	ug/L	200	SW8260C	11/03/14 19:33	WAT	106-46-7	Y
1,2-Dichlorobenzene	Not detected	ug/L	200	SW8260C	11/03/14 19:33	WAT	95-50-1	Y
1,2,3-Trimethylbenzene	200	ug/L	200	SW8260C	11/03/14 19:33	WAT	526-73-8	Y
n-Butylbenzene	Not detected	ug/L	200	SW8260C	11/03/14 19:33	WAT	104-51-8	Y
Hexachloroethane	Not detected	ug/L	1,000	SW8260C	11/03/14 19:33	WAT	67-72-1	Y
1,2-Dibromo-3-chloropropane	Not detected	ug/L	1,000	SW8260C	11/03/14 19:33	WAT	96-12-8	Y
1,2,4-Trichlorobenzene	Not detected	ug/L	1,000	SW8260C	11/03/14 19:33	WAT	120-82-1	Y
1,2,3-Trichlorobenzene	Not detected	ug/L	1,000	SW8260C	11/03/14 19:33	WAT	87-61-6	Y
Naphthalene	Not detected	ug/L	1,000	SW8260C	11/03/14 19:33	WAT	91-20-3	Y
2-Methylnaphthalene	Not detected	ug/L	1,000	SW8260C	11/03/14 19:33	WAT	91-57-6	Y

Y-Elevated reporting limit due to high target concentration

Analytical Laboratory Report

Lab Sample ID: S63380.33
Sample Tag: Dup-03_10292014
Collected Date/Time: 10/29/2014 00:01
Matrix: Groundwater
COC Reference: 87707

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	4.9	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
pH check for VOCs	<2	STD Units		N/A	11/04/14 11:20	LBR		
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	2,000	SW8260C	11/03/14 19:55	WAT	60-29-7	Y
Acetone	Not detected	ug/L	10,000	SW8260C	11/03/14 19:55	WAT	67-64-1	Y
Methyl iodide	Not detected	ug/L	200	SW8260C	11/03/14 19:55	WAT	74-88-4	Y
Carbon disulfide	Not detected	ug/L	1,000	SW8260C	11/03/14 19:55	WAT	75-15-0	Y
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	1,000	SW8260C	11/03/14 19:55	WAT	1634-04-4	Y
Acrylonitrile	Not detected	ug/L	400	SW8260C	11/03/14 19:55	WAT	107-13-1	Y
2-Butanone (MEK)	Not detected	ug/L	5,000	SW8260C	11/03/14 19:55	WAT	78-93-3	Y
Dichlorodifluoromethane	Not detected	ug/L	1,000	SW8260C	11/03/14 19:55	WAT	75-71-8	Y
Chloromethane	Not detected	ug/L	1,000	SW8260C	11/03/14 19:55	WAT	74-87-3	Y
Vinyl chloride	Not detected	ug/L	200	SW8260C	11/03/14 19:55	WAT	75-01-4	Y
Bromomethane	Not detected	ug/L	1,000	SW8260C	11/03/14 19:55	WAT	74-83-9	Y
Chloroethane	Not detected	ug/L	1,000	SW8260C	11/03/14 19:55	WAT	75-00-3	Y
Trichlorofluoromethane	Not detected	ug/L	200	SW8260C	11/03/14 19:55	WAT	75-69-4	Y
1,1-Dichloroethene	Not detected	ug/L	200	SW8260C	11/03/14 19:55	WAT	75-35-4	Y
Methylene chloride	Not detected	ug/L	1,000	SW8260C	11/03/14 19:55	WAT	75-09-2	Y
trans-1,2-Dichloroethene	Not detected	ug/L	200	SW8260C	11/03/14 19:55	WAT	156-60-5	Y
1,1-Dichloroethane	Not detected	ug/L	200	SW8260C	11/03/14 19:55	WAT	75-34-3	Y
cis-1,2-Dichloroethene	Not detected	ug/L	200	SW8260C	11/03/14 19:55	WAT	156-59-2	Y
Tetrahydrofuran	Not detected	ug/L	18,000	SW8260C	11/03/14 19:55	WAT	109-99-9	Y
Chloroform	Not detected	ug/L	200	SW8260C	11/03/14 19:55	WAT	67-66-3	Y
Bromochloromethane	Not detected	ug/L	200	SW8260C	11/03/14 19:55	WAT	74-97-5	Y
1,1,1-Trichloroethane	Not detected	ug/L	200	SW8260C	11/03/14 19:55	WAT	71-55-6	Y
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	10,000	SW8260C	11/03/14 19:55	WAT	108-10-1	Y
2-Hexanone	Not detected	ug/L	10,000	SW8260C	11/03/14 19:55	WAT	591-78-6	Y
Carbon tetrachloride	Not detected	ug/L	200	SW8260C	11/03/14 19:55	WAT	56-23-5	Y
Benzene	25,900	ug/L	200	SW8260C	11/03/14 19:55	WAT	71-43-2	Y
1,2-Dichloroethane	Not detected	ug/L	200	SW8260C	11/03/14 19:55	WAT	107-06-2	Y
Trichloroethene	Not detected	ug/L	200	SW8260C	11/03/14 19:55	WAT	79-01-6	Y
1,2-Dichloropropane	Not detected	ug/L	200	SW8260C	11/03/14 19:55	WAT	78-87-5	Y
Bromodichloromethane	Not detected	ug/L	200	SW8260C	11/03/14 19:55	WAT	75-27-4	Y
Dibromomethane	Not detected	ug/L	1,000	SW8260C	11/03/14 19:55	WAT	74-95-3	Y
cis-1,3-Dichloropropene	Not detected	ug/L	200	SW8260C	11/03/14 19:55	WAT	10061-01-5	Y
Toluene	26,200	ug/L	200	SW8260C	11/03/14 19:55	WAT	108-88-3	Y
trans-1,3-Dichloropropene	Not detected	ug/L	200	SW8260C	11/03/14 19:55	WAT	10061-02-6	Y
1,1,2-Trichloroethane	Not detected	ug/L	200	SW8260C	11/03/14 19:55	WAT	79-00-5	Y
Tetrachloroethene	Not detected	ug/L	200	SW8260C	11/03/14 19:55	WAT	127-18-4	Y
trans-1,4-Dichloro-2-butene	Not detected	ug/L	200	SW8260C	11/03/14 19:55	WAT	110-57-6	Y
Dibromochloromethane	Not detected	ug/L	1,000	SW8260C	11/03/14 19:55	WAT	124-48-1	Y

Y-Elevated reporting limit due to high target concentration

Lab Sample ID: S63380.33 (continued)
Sample Tag: Dup-03_10292014

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
1,2-Dibromoethane	Not detected	ug/L	200	SW8260C	11/03/14 19:55	WAT	106-93-4	Y
Chlorobenzene	Not detected	ug/L	200	SW8260C	11/03/14 19:55	WAT	108-90-7	Y
1,1,1,2-Tetrachloroethane	Not detected	ug/L	200	SW8260C	11/03/14 19:55	WAT	630-20-6	Y
Ethylbenzene	2,100	ug/L	200	SW8260C	11/03/14 19:55	WAT	100-41-4	Y
p,m-Xylene	7,600	ug/L	400	SW8260C	11/03/14 19:55	WAT		Y
o-Xylene	3,400	ug/L	200	SW8260C	11/03/14 19:55	WAT	95-47-6	Y
Styrene	Not detected	ug/L	200	SW8260C	11/03/14 19:55	WAT	100-42-5	Y
Isopropylbenzene	Not detected	ug/L	1,000	SW8260C	11/03/14 19:55	WAT	98-82-8	Y
Bromoform	Not detected	ug/L	200	SW8260C	11/03/14 19:55	WAT	75-25-2	Y
1,1,2,2-Tetrachloroethane	Not detected	ug/L	200	SW8260C	11/03/14 19:55	WAT	79-34-5	Y
1,2,3-Trichloropropane	Not detected	ug/L	200	SW8260C	11/03/14 19:55	WAT	96-18-4	Y
n-Propylbenzene	Not detected	ug/L	200	SW8260C	11/03/14 19:55	WAT	103-65-1	Y
Bromobenzene	Not detected	ug/L	200	SW8260C	11/03/14 19:55	WAT	108-86-1	Y
1,3,5-Trimethylbenzene	300	ug/L	200	SW8260C	11/03/14 19:55	WAT	108-67-8	Y
tert-Butylbenzene	Not detected	ug/L	200	SW8260C	11/03/14 19:55	WAT	98-06-6	Y
1,2,4-Trimethylbenzene	800	ug/L	200	SW8260C	11/03/14 19:55	WAT	95-63-6	Y
sec-Butylbenzene	Not detected	ug/L	200	SW8260C	11/03/14 19:55	WAT	135-98-8	Y
p-Isopropyltoluene	Not detected	ug/L	1,000	SW8260C	11/03/14 19:55	WAT	99-87-6	Y
1,3-Dichlorobenzene	Not detected	ug/L	200	SW8260C	11/03/14 19:55	WAT	541-73-1	Y
1,4-Dichlorobenzene	Not detected	ug/L	200	SW8260C	11/03/14 19:55	WAT	106-46-7	Y
1,2-Dichlorobenzene	Not detected	ug/L	200	SW8260C	11/03/14 19:55	WAT	95-50-1	Y
1,2,3-Trimethylbenzene	200	ug/L	200	SW8260C	11/03/14 19:55	WAT	526-73-8	Y
n-Butylbenzene	Not detected	ug/L	200	SW8260C	11/03/14 19:55	WAT	104-51-8	Y
Hexachloroethane	Not detected	ug/L	1,000	SW8260C	11/03/14 19:55	WAT	67-72-1	Y
1,2-Dibromo-3-chloropropane	Not detected	ug/L	1,000	SW8260C	11/03/14 19:55	WAT	96-12-8	Y
1,2,4-Trichlorobenzene	Not detected	ug/L	1,000	SW8260C	11/03/14 19:55	WAT	120-82-1	Y
1,2,3-Trichlorobenzene	Not detected	ug/L	1,000	SW8260C	11/03/14 19:55	WAT	87-61-6	Y
Naphthalene	Not detected	ug/L	1,000	SW8260C	11/03/14 19:55	WAT	91-20-3	Y
2-Methylnaphthalene	Not detected	ug/L	1,000	SW8260C	11/03/14 19:55	WAT	91-57-6	Y

Y-Elevated reporting limit due to high target concentration

Merit Laboratories, Inc.

2680 East Lansing Dr., East Lansing, MI 48823
Phone (517) 332-0167 Fax (517) 332-4034
www.meritlabs.com

C.O.C. PAGE # 1 OF 3

87709

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: Allyn Begnoche
COMPANY: ARCADIS
ADDRESS: 10559 Citation Drive, Suite 100
CITY: Brighton STATE: MI ZIP CODE: 48116
PHONE NO.: 810.225.1971 FAX NO.: 810.229.8837 P.O. NO.:
E-MAIL ADDRESS: QUOTE NO.:

INVOICE TO

CONTACT NAME: ☒ SAME
COMPANY:
ADDRESS:
CITY: STATE: ZIP CODE:
PHONE NO.: E-MAIL ADDRESS:

PROJECT NO./NAME: B0064486.2014.00003
SAMPLER(S) - PLEASE PRINT/SIGN NAME: Erik Pietrzak/Erik Pietrzak

TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☒ STANDARD ☐ OTHER

DELIVERABLES REQUIRED ☐ STD ☐ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR W=WASTE

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Certifications
☐ OHIO VAP ☐ Drinking Water
☐ DoD ☐ NPDES

Project Locations
☐ Detroit ☐ New York
☐ Other

Special Instructions

MERIT LAB NO. FOR LAB USE ONLY	YEAR DATE	YEAR TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCl	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	VOCs Method 8260	Special Instructions
63380.01	10-27-14	0920	SS-3_10272014	GW	3		X						X	
.02	10-27-14	0936	SS-4_10272014	GW	3		X						X	
.03	10-27-14	0957	SS-2_10272014	GW	3		X						X	
.04	10-27-14	1015	SS-5_10272014	GW	3		X						X	
.05	10-27-14	1310	MW-9_10272014	GW	3		X						X	
.06	10-27-14	1342	MW-325_10272014	GW	3		X						X	
.07	10-27-14	1400	MW-11_10272014	GW	3		X						X	
.08/.09/.10	10-27-14	1500	MW-27_10272014	GW	9		X						X	MS/MSD
.11	10-27-14	1442	MW-32D_10272014	GW	3		X						X	
.12	10-27-14	1547	MW-31_10272014	GW	3		X						X	
.13	10-27-14	1550	MW-20_10272014	GW	3		X						X	
.14	10-27-14	1640	MW-26_10272014	GW	3		X						X	

RELINQUISHED BY: SIGNATURE/ORGANIZATION	Erik Pietrzak/ARCADIS ☒ Sampler	DATE 10-29-14	TIME 1255
RECEIVED BY: SIGNATURE/ORGANIZATION	Brighton Frig	DATE 10-29-14	TIME 1255
RELINQUISHED BY: SIGNATURE/ORGANIZATION		DATE	TIME
RECEIVED BY: SIGNATURE/ORGANIZATION		DATE 10-30-14	TIME 10

RELINQUISHED BY: SIGNATURE/ORGANIZATION		DATE 10-30-14	TIME
RECEIVED BY: SIGNATURE/ORGANIZATION		DATE 10/30/14	TIME 1420
SEAL NO.	SEAL INTACT YES ☐ NO ☐	INITIALS	NOTES: TEMP. ON ARRIVAL 4.9
SEAL NO.	SEAL INTACT YES ☐ NO ☐	INITIALS	

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE

Rev. 5.18.12

Merit Laboratories, Inc.

2680 East Lansing Dr., East Lansing, MI 48823
Phone (517) 332-0167 Fax (517) 332-4034
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C.O.C. PAGE # 2 OF 3

87708

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: ALlyn Begnoche
COMPANY: ARCADIS
ADDRESS: 10559 Citation Drive, Suite 100
CITY: Brighton STATE: MI ZIP CODE: 48116
PHONE NO.: 810.225.1971 FAX NO.: 810.229.8837 P.O. NO.:
E-MAIL ADDRESS: QUOTE NO.:

INVOICE TO

CONTACT NAME ☐ SAME
COMPANY
ADDRESS
CITY STATE ZIP CODE
PHONE NO. E-MAIL ADDRESS

PROJECT NO./NAME: B0064486.2014.00003
SAMPLER(S) - PLEASE PRINT/SIGN NAME: Erik Pietrzak/Erik Pietrzak

TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☒ STANDARD ☐ OTHER

DELIVERABLES REQUIRED ☐ STD ☐ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR W=WASTE

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Certifications
☐ OHIO VAP ☐ Drinking Water
☐ DoD ☐ NPDES
Project Locations
☐ Detroit ☐ New York
☐ Other
Special Instructions

MERIT LAB NO. (FOR LAB USE ONLY)	YEAR DATE	TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCl	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	VOCs Method 8260	Special Instructions
63380.15	10-27-14	1657	MW-5_10272014	GW	3		X						X	
.16	↓	—	DUP-01_10272014	GW	3		X						X	
.17 ~~.19~~	~~10-28-14~~	(ED) (10-28-14)	~~MW-25_10282014~~	GW	3		X						X	
.18 ~~.20~~	~~10-28-14~~	(ED) 0947	~~MW-30_10282014~~	GW	3		X						X	
.17 .19	10-28-14	0940	MW-25_10282014	GW	3		X						X	
.18 .20	10-28-14	0947	MW-30_10282014	GW	3		X						X	
.19 .21	10-28-14	1030	MW-29_10282014	GW	3		X						X	
.20 .22	10-28-14	1107	MW-12_10282014	GW	3		X						X	
.21 .22 .23 .24 .25	10-28-14	1135	MW-23_10282014	GW	9		X						X	MS/MSD
.24 .26	10-28-14	1220	MW-28_10282014	GW	3		X						X	
.25 .27	10-28-14	1232	MW-33_10282014	GW	3		X						X	
.26 .28	10-28-14	1320	MW-21_10282014	GW	3		X						X	

RELINQUISHED BY: SIGNATURE/ORGANIZATION	Erik Pietrzak/ARCADIS ☒ Sampler	DATE 10-29-14	TIME 1255
RECEIVED BY: SIGNATURE/ORGANIZATION	Brighton Frig	DATE 10-29-14	TIME 1255
RELINQUISHED BY: SIGNATURE/ORGANIZATION		DATE	TIME
RECEIVED BY: SIGNATURE/ORGANIZATION		DATE	TIME

RELINQUISHED BY: SIGNATURE/ORGANIZATION		DATE 10/30/14	TIME
RECEIVED BY: SIGNATURE/ORGANIZATION		DATE 10/30/14	TIME 1420
SEAL NO.	SEAL INTACT YES ☐ NO ☐	INITIALS	NOTES: TEMP. ON ARRIVAL 4.9
SEAL NO.	SEAL INTACT YES ☐ NO ☐	INITIALS	

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE

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C.O.C. PAGE # 3 OF 3

87707

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: Allyn Begnoche
COMPANY: ARCADIS
ADDRESS: 10559 Citation Drive, Suite 100
CITY: Brighton STATE: MI ZIP CODE: 48116
PHONE NO.: 810.225.1971 FAX NO.: 810.229.8837 P.O. NO.:
E-MAIL ADDRESS: QUOTE NO.:

INVOICE TO

CONTACT NAME: ☒ SAME
COMPANY:
ADDRESS:
CITY: STATE: ZIP CODE:
PHONE NO.: E-MAIL ADDRESS:

PROJECT NO./NAME: B0064486.2014.00003
SAMPLER(S) - PLEASE PRINT/SIGN NAME: Scott Filipiak / Scott Filipiak

TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☒ STANDARD ☐ OTHER

DELIVERABLES REQUIRED ☐ STD ☐ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR W=WASTE

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Certifications
☐ OHIO VAP ☐ Drinking Water
☐ DoD ☐ NPDES

Project Locations
☐ Detroit ☐ New York
☐ Other

Special Instructions

MERIT LAB NO. (FOR LAB USE ONLY)	YEAR DATE	YEAR TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCl	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	VOCs Method 8260
63380.27	10-28-14	1342	MW-8_10282014	GW	3		X						X
.28	10-28-14	1425	MW-22_10282014	GW	3		X						X
.29	10-28-14	—	Dup-02_10282014	GW	3		X						X
.30	—	—	Trip Blanks	GW	3		X						X
.31	10-29-14	0937	MW-24S_10292014	GW	3		X						X
.32	10-29-14	1032	MW-24D_10292014	GW	3		X						X
.33	10-29-14	—	Dup-03_10292014	GW	3		X						X

RELINQUISHED BY: SIGNATURE/ORGANIZATION	Erik Pietrzak / ARCADIS ☒ Sampler	DATE 10-29-14	TIME 1255
RECEIVED BY: SIGNATURE/ORGANIZATION	Brighton Frig	DATE 10-29-14	TIME 1255
RELINQUISHED BY: SIGNATURE/ORGANIZATION		DATE	TIME
RECEIVED BY: SIGNATURE/ORGANIZATION	MCO	DATE 10-30-14	TIME

RELINQUISHED BY: SIGNATURE/ORGANIZATION		DATE 10-30-14	TIME
RECEIVED BY: SIGNATURE/ORGANIZATION		DATE 10/30/14	TIME 1420
SEAL NO.	SEAL INTACT YES ☐ NO ☐	INITIALS	NOTES: TEMP. ON ARRIVAL 4.9
SEAL NO.	SEAL INTACT YES ☐ NO ☐	INITIALS	

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE

Rev. 5.18.12