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Date:

June 22, 2015

ARCADIS Project No.:

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Subject:

Employee Development Center Site (Facility ID: 0-0015260) -
2015 Monitoring Update Memo

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 April 2015 groundwater and storm sewer sampling activities.

April 2015 Groundwater Monitoring Event

On April 15 and 16, 2015, 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 Michigan Department of Environmental Quality (MDEQ) on July 25, 2014, also including monitoring wells installed during September 2014 additional delineation activities.

Sampling methods and techniques were identical to those used for the groundwater sampling events completed during 2013 and 2014. The analytical parameter list was limited to analysis of volatile organic

compounds (VOCs) via United States Environmental Protection Agency (USEPA) Method 8260 as described in the technical memorandum submitted to the MDEQ on July 25, 2014 and approved by MDEQ via electronic mail on October 15, 2014. 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 1**. The groundwater gauging data from April 2015 indicates that similar to other post-2012 excavation monitoring events, groundwater flow remains radial from a mound in the vicinity of the former gasoline underground storage tank (UST) area as depicted on **Figure 3**.

Based on the groundwater analytical results following the June 2012 excavation activities, where groundwater impacts exist, concentrations continue to be stable or decreasing in monitoring wells. The groundwater analytical results from the April 2015 event indicate the following:

- MW-24D: Concentrations continue to exceed Part 201 Non-Residential Drinking Water (NRDW) and Groundwater-Surface Water Interface (GSI) Criteria for benzene, toluene, ethylbenzene, xylenes, and 1,2,4-trimethylbenzene (TMB).
- MW-8: Concentrations continue to exceed Part 201 NRDW and GSI Criteria for benzene, ethylbenzene, xylenes, 1,2,4-TMB, and 1,3,5-TMB.
- MW-26: Concentrations continue to exceed Part 201 NRDW and GSI Criteria for benzene. Other contaminants remain below detection limits.
- MW-5: Concentrations exceed Part 201 NRDW Criteria for trichloroethylene (TCE) only. Other contaminants remain below detection limits.
- MW-12 and MW-27: Concentrations of TCE are below Part 201 NRDW Criteria.
- MW-33: Concentrations exceed Part 201 NRDW for benzene only. Other contaminants remain below Part 201 Generic Cleanup Criteria and/or laboratory method detection limits.
- 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.

Analytical results from the monitoring wells are included as **Table 2** and depicted on **Figure 4**. Laboratory analytical reports are included as **Appendix A**.

April 2015 Storm Sewer Sampling Event

To continue to evaluate the GSI pathway and potential for site contaminants to be migrating into the storm sewer system, ARCADIS attempted to collect a third set of grab samples (SS-1 through SS-5) during a period of dry weather from five storm sewer manhole locations on April 16, 2015. A first set of samples was obtained during the May 2014 monitoring event, while a second set of samples was obtained during the October 2014 monitoring event. The storm sewer sample locations and observed flow directions are depicted on **Figure 2**. Manhole locations were selected based on 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 April 2015 sampling event were similar to those observed during the May 2014 and October 2014 sampling events.

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:

- 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 and October 2014 sampling events. The concentration of TCE detected at SS-5 is below Part 201 GSI Criteria, and other VOCs were both below Part 201 GSI Criteria and laboratory method detection limits.
- Analytical results of samples collected from storm sewer locations SS-1, SS-2, SS-3, and SS-4 indicated concentrations of VOCs remained below Part 201 GSI Criteria and laboratory method detection limits.

Analytical results from the storm sewer samples are included as **Table 3** and depicted on **Figure 4**. Laboratory analytical reports are included as **Appendix A**.

Recommendations

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

- Three rounds of storm sewer sampling and analyses for VOCs conducted in 2014 and 2015 at SS-1, SS-2, SS-3, SS-4, and SS-5 indicate that VOC impacts remaining in groundwater are not migrating or being discharged through the storm sewer system to surface waters in concentrations exceeding Part 201 GSI Criteria. Based on the location of contaminants and depth of the storm sewers both on-Site and

off-Site, the GSI pathway is considered to potentially be relevant. However, based on the analytical data from the three storm sewer sampling events completed in 2014 and 2015 that demonstrated VOC constituents were below criteria, the GSI pathway is not applicable.

- Based on the impacts still remaining at the Site, past remediation efforts, inaccessibility and challenges of addressing the remaining source impacts, and the data from the most recent sampling events being consistent with past events, it is recommended that the path forward include: 1) a Declaration of Restrictive Covenant to address the remaining on-Site impacts, and 2) a Road Right-of-Way Alternative Institutional Control with the City of Pontiac to address the off-Site impacts within Mill Street. Once those institutional control documents are recorded with the Oakland County Register of Deeds, ARCADIS recommends that a restricted, non-residential No Further Action request for this Site be prepared and submitted to MDEQ.

Enclosures:

Table 1: Groundwater Analytical Data

Table 2: Groundwater Level & Elevation Data

Table 3: Storm Sewer Analytical Data

Figure 1: Site Location Map

Figure 2: Site Map

Figure 3: Groundwater Elevation and Flow Map (April 2015)

Figure 4: Groundwater Analytical Map

Appendix A: Laboratory Analytical Reports (on CD)

TABLES



Table 1
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
	917.46	4/15/2015	NP	7.25	NP	910.21
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
	912.78	4/15/2015	NP	3.98	NP	908.80

See Notes on last page.

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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
	916.14	4/15/2015	NP	4.93	NP	911.21
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
	916.66	4/15/2015	NP	4.16	NP	912.50
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
	915.19	4/15/2015	NP	4.55	NP	910.64

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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
	918.71	4/15/2015	NP	11.03	NP	907.68
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
	916.50	4/15/2015	NP	5.01	NP	911.49
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
	916.10	4/15/2015	NP	4.45	NP	911.65
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
	915.12	4/15/2015	NP	5.08	NP	910.04
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
	915.34	4/15/2015	NP	5.25	NP	910.09

See Notes on last page.

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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
	918.37	4/15/2015	NP	3.63	NP	914.74
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
	916.99	4/15/2015	NP	1.85	NP	915.14
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
	916.43	4/15/2015	NP	6.20	NP	910.23
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
	917.38	4/15/2015	NP	5.98	NP	911.40
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
	917.44	4/15/2015	NP	6.87	NP	910.57

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Groundwater Level and Elevation Data

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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-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
	917.42	4/15/2015	NP	3.06	NP	914.36
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
	917.44	4/15/2015	NP	3.05	NP	914.39
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
	916.7	4/15/2015	NP	2.60	NP	914.10
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
	916.56	4/15/2015	NP	3.68	NP	912.88
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
	917.37	4/15/2015	NP	5.58	NP	911.79
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
	915.68	4/15/2015	NP	5.30	NP	910.38
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
	916.67	4/15/2015	NP	4.46	NP	912.21
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
	916.75	4/15/2015	NP	8.47	NP	908.28
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
	917.01	4/15/2015	NP	3.01	NP	914.00

See Notes on last page.

Table 1
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-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
	918.48	4/15/2015	NP	6.80	NP	911.68
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
		4/15/2015	NP	3.50	NP	-3.50
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
	915.11	4/15/2015	NP	6.20	NP	908.91
MW-32S (7-12')	916.84	10/27/2014	NP	6.42	NP	910.42
	916.84	4/15/2015	NP	6.41	NP	910.43
MW-32D (14-19')	916.75	10/27/2014	NP	6.52	NP	910.23
	916.75	4/15/2015	NP	6.47	NP	910.28
MW-33 (13-18')	916.87	10/27/2014	NP	4.55	NP	912.32
	916.87	4/15/2015	NP	5.07	NP	911.80

General 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.

Footnote:

* Groundwater elevation was corrected for the presence of free product where applicable.

Acronyms and Abbreviations:

NM = Well was not measured

NP = No product

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

Sample ID:		Michigan Groundwater Cleanup Criteria and Risk Based Screening Levels				EW-1 Outside North-NE Corner of Building - Former Gas 12/11/2006	MW-2 Northwest Portion of Site - Release Delineation 12/11/2006	MW-2 Northwest Portion of Site - Release Delineation 7/28/2008	MW-2 Northwest Portion of Site - Release Delineation 11/1/2010	MW-2 Northwest Portion of Site - Release Delineation 1/29/2013	MW-2 Northwest Portion of Site - Release Delineation 6/26/2013	MW-2 Northwest Portion of Site - Release Delineation 9/18/2013	MW-2 Northwest Portion of Site - Release Delineation 5/21/2014	MW-3 Outside NW Corner of Building - Trench & Dvno 12/11/2006	MW-3 Outside NW Corner of Building - Trench & Dvno 2/11/2008	MW-3 Outside NW Corner of Building - Trench & Dvno 11/3/2010	MW-4 Eastern Corner of Site 12/11/2006	MW-4 Eastern Corner of Site 2/13/2008	MW-4 Eastern Corner of Site 11/2/2010	MW-4 Eastern Corner of Site 2/1/2013	MW-4 Eastern Corner of Site 6/26/2013	MW-4 Eastern Corner of Site 9/17/2013	MW-4 Eastern Corner of Site 5/22/2014	Sump in Basement 12/11/2006	
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	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	12/11/2006	
Screened Interval (feet bgl):																									
Analytical Parameter	Units																								
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	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	<0.1	
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	<0.1	
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	<0.1	
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	1.2	
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	<0.1	
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	<0.1	
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	<0.1	
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	<0.1	
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	<0.1	
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	<0.1	
Acenaphthylene	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	<0.1	
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	<0.1	
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	<0.1	
Benzo(a)pyrene	ug/L	5.0 (A)	ID	NLV	ID	<1.5	<0.1	<1	NLV	<1	<1	<1	<1	<0.1	<5	<1	<0.1	<5	<1	<1	<1	<1	<1	<0.1	
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	<0.1	
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	<0.1	
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	<0.1	
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	<0.1	
Dibenzo(a,h)anthracene	ug/L	2.0 (M); 0.85	ID	NLV	ID	<1.5	<0.1	<2	NLV	<2	<2	<2	<2	<0.1	<5	<2	<0.1	<5	<2	<2	<2	<2	<2	<0.1	
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	<0.1	
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	<0.1	
Indeno(1,2,3-cd)pyrene	ug/L	2.0 (M); 0.022 (S)	ID	NLV	ID	<0.19	<0.1	<2	NLV	<2	<2	<2	<2	<0.1	<5	<2	<0.1	<5	<2	<2	<2	<2	<2	<0.015	
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	<0.1	
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	<0.1	
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	0.15	
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	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	<5	
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	<5	
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	<5	
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	<5	
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	<5	
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	<5	
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	<5	
1,2-Dichloropropane	ug/L	5.0 (A)	230 (X)	36,000	5.50E+0E																				

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

Sample ID:	Date Collected:	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-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-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-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-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-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-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-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-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-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-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-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-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-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-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-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-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-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-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-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-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-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-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-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-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-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-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-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-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-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-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-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-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-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-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-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-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-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-10 East-Northeast of Building
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See Notes on last page.

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

Sample ID:	Date Collected:	Michigan Groundwater Cleanup Criteria and Risk Based Screening Levels				MW-13 North of Building Along Mill Street Fence 1/29/2013	MW-13 North of Building Along Mill Street Fence 6/26/2013	MW-13 North of Building Along Mill Street Fence 9/18/2013	MW-13 North of Building Along Mill Street Fence 5/21/2014	MW-14 North of Building Along Mill Street Fence 2/12/2008	MW-14 North of Building Along Mill Street Fence 11/1/2010	MW-14 North of Building Along Mill Street Fence 1/29/2013	MW-14 North of Building Along Mill Street Fence 6/26/2013	MW-14 North of Building Along Mill Street Fence 9/19/2013	MW-14 North of Building Along Mill Street Fence 5/21/2014	MW-15 East-Northeast of Building 2/12/2008	MW-15 East-Northeast of Building 11/3/2010	MW-16 East-Northeast of Building 2/12/2008	MW-16 East-Northeast of Building 11/2/2010	MW-16 East-Northeast of Building 2/1/2013	MW-16 East-Northeast of Building 6/25/2013	MW-16 East-Northeast of Building 9/17/2013	MW-16 East-Northeast of Building 5/21/2014	MW-17 East of Building - Auditorium 7/28/2008			
		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	8-18	8-18	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	4-9	2-7		
		Analytical Parameter	Units																								
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	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	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	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	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	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	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	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	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	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	<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	<5	<5		
Acenaphthylene	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	<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	<5	<5		
Benz(a)anthracene	ug/L	8.5	ID	NLV	ID	<1	<1	<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	<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	<1	<1	<5	<1	<1	<1														

See Notes on last page.

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

[illegible]

See Notes on last page.

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

Sample ID:		Michigan Groundwater Cleanup Criteria and Risk Based Screening Levels				MW-31 South of Building - Adjacent to Storm Sewer 2/1/2013	MW-31 South of Building - Adjacent to Storm Sewer 6/25/2013	MW-31 South of Building - Adjacent to Storm Sewer 9/20/2013	MW-31 South of Building - Adjacent to Storm Sewer 5/22/2014	MW-31 South of Building - Adjacent to Storm Sewer 10/27/2014	MW-31 South of Building - Adjacent to Storm Sewer 4/16/2015	MW-32S Southwest Corner of Property (Shallow) 10/27/2014	MW-32S Southwest Corner of Property (Shallow) 4/15/2015	MW-32D Southwest Corner of Property (Deep) 10/27/2014	MW-32D Southwest Corner of Property (Deep) 4/15/2015	MW-33 Southwest Portion of Former Garage Area North of 10/28/2014	MW-33 Southwest Portion of Former Garage Area North of 4/15/2015	B-58 Appr 25-30 ft SE of MW-24S/D 9/23/2014	B-59 Appr 25-30 ft S-SW of MW-24S/D 9/24/2014	B-60 Appr 25 ft E of MW-24S/D 9/23/2014	B-62 Appr 60 ft SW of MW-24S/D 9/24/2014	B-63 Appr 60 ft W-NW of MW-24S/D 9/24/2014	B-64 Appr 75 ft S of MW-24S/D in Basement Area 9/24/2014
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	3-8'	3-8'	3-8'	3-8'	3-8'	3-8'	7-12'	7-12'	14-19'	14-19'	13-18'	13-18'	15-20' Temp Well	11-16' Temp Well	10.5-15.5' Temp Well	13-18' Temp Well	8-18' Temp Well	8-13' Temp Well
Screened Interval (feet bgl):																							
Analytical Parameter	Units																						
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	<5	NA	NA	NA	NA	NA	NA	NA	NA	NA	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**	NA	NA	NA	NA	NA	NA
Acenaphthene	ug/L	3,800	38	4,200 (S)	ID	<5	<5	<5	<5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthylene	ug/L	150	ID	3,900 (S)	ID	<5	<5	<5	<5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Anthracene	ug/L	43 (S)	ID	43 (S)	ID	<5	<5	<5	<5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	ug/L	8.5	ID	NLV	ID	<1	<1	<1	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	ug/L	5.0 (A)	ID	NLV	ID	<1	<1	<1	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	ug/L	1.5 (S, AA)	ID	ID	ID	<1	<1	<1	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	ug/L	1.0 (M); 0.26 (S)	NA	NLV	ID	<1	<1	<1	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	ug/L	1.0 (M); 0.8 (S)	NA	NLV	ID	<1	<1	<1	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chrysene	ug/L	1.6 (S)	ID	ID	ID	<1	<1	<1	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzo(a,h)anthracene	ug/L	2.0 (M); 0.85	ID	NLV	ID	<2	<2	<2	<2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	ug/L	210 (S)	1.6	210 (S)	ID	<1	<1	<1	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluorene	ug/L	2,000 (S)	12	2,000 (S)	ID	<5	<5	<5	<5	NA	NA	NA	NA	NA	NA	NA	NA	NA	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	<2	NA	NA	NA	NA	NA	NA	NA	NA	NA	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**	NA	NA	NA	NA	NA	NA
Phenanthrene	ug/L	150	2.0 (M); 1.4	1,000 (S)	ID	<2	<2	<2	<2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene	ug/L	140 (S)	ID	140 (S)	ID	<5	<5	<5	<5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Other Target PAHs	ug/L	various	various	various	various	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	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	<50	<2	<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	<50	<2	<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	<50	<2	<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	<50	<2	<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	<50	<2	<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	3	540	3	<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	<50	<2	<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	<50	<2	<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	150	<2	<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	<1300	<50	<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	<2500	<100	<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	<			

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

General Notes:

- 1. Cleanup criteria exceedances are bolded.
- 2. Shaded column indicates monitoring well was properly abandoned prior to the June 2012 excavation activities.
- 3. < denotes less than noted detection limit.
- 4. 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.

Footnote:

** Analyzed via USEPA Method 8260B

Acronyms and Abbreviations:

ID	Insufficient data to develop criterion
NA	Not analyzed
ND	Not detected
NS	Not sampled.
(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.
(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.
(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.

Table 3
Storm Sewer Sample Analytical Data

Former Employee Development Center
65 East University
Pontiac, Michigan

Sample ID:		Michigan Groundwater Cleanup Criteria and Risk Based Screening Levels				SS-1	SS-1	SS-1	SS-2	SS-2	SS-2	SS-3	SS-3	SS-3	SS-4
		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	5/21/2014	10/27/2014	4/16/2015	5/21/2014	10/27/2014	4/16/2015	5/23/2014	10/27/2014	4/16/2015	5/23/2014
Date Collected:	Units														
Analytical Parameter	Units														
PAH (EPA Method 8310)															
1-Methylnaphthalene	ug/L	none	none	none	none	<5	NS*	NA	<5	NA	NA	<5	NA	NA	<5
2-Methylnaphthalene	ug/L	750	19	25,000 (S)	ID	<5	NS*	<5**	<5	<5**	<5**	<5	<5**	<5**	<5
Acenaphthene	ug/L	3,800	38	4,200 (S)	ID	<5	NS*	NA	<5	NA	NA	<5	NA	NA	<5
Acenaphthylene	ug/L	150	ID	3,900 (S)	ID	<5	NS*	NA	<5	NA	NA	<5	NA	NA	<5
Benz(a)anthracene	ug/L	8.5	ID	NLV	ID	<1	NS*	NA	<1	NA	NA	<1	NA	NA	<1
Benzo(a)pyrene	ug/L	5.0 (A)	ID	NLV	ID	<1	NS*	NA	<1	NA	NA	<1	NA	NA	<1
Anthracene	ug/L	43 (S)	ID	43 (S)	ID	<5	NS*	NA	<5	NA	NA	<5	NA	NA	<5
Benzo(b)fluoranthene	ug/L	1.5 (S, AA)	ID	ID	ID	<1	NS*	NA	<1	NA	NA	<1	NA	NA	<1
Benzo(g,h,i)perylene	ug/L	1.0 (M); 0.26 (S)	NA	NLV	ID	<1	NS*	NA	<1	NA	NA	<1	NA	NA	<1
Benzo(k)fluoranthene	ug/L	1.0 (M); 0.8 (S)	NA	NLV	ID	<1	NS*	NA	<1	NA	NA	<1	NA	NA	<1
Chrysene	ug/L	1.6 (S)	ID	ID	ID	<1	NS*	NA	<1	NA	NA	<1	NA	NA	<1
Dibenzo(a,h)anthracene	ug/L	2.0 (M); 0.85	ID	NLV	ID	<2	NS*	NA	<2	NA	NA	<2	NA	NA	<2
Fluoranthene	ug/L	210 (S)	1.6	210 (S)	ID	<1	NS*	NA	<1	NA	NA	<1	NA	NA	<1
Indeno(1,2,3-cd)pyrene	ug/L	2.0 (M); 0.022 (S)	ID	NLV	ID	<2	NS*	NA	<2	NA	NA	<2	NA	NA	<2
Naphthalene	ug/L	1,500	11	31,000 (S)	NA	<5	NS*	<5**	<5	<5**	<5**	<5	<5**	<5**	<5
Phenanthrene	ug/L	150	2.0 (M); 1.4	1,000 (S)	ID	<2	NS*	NA	<2	NA	NA	<2	NA	NA	<2
Pyrene	ug/L	140 (S)	ID	140 (S)	ID	<5	NS*	NA	<5	NA	NA	<5	NA	NA	<5
Other Target PAHs	ug/L	various	various	various	various	ND	NS*	NA	ND	NA	NA	ND	NA	NA	ND
Fluorene	ug/L	2,000 (S)	12	2,000 (S)	ID	<5	NS*	NA	<5	NA	NA	<5	NA	NA	<5
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	<1	<1	<1
1,1,2,2-Tetrachloroethane	ug/L	35	78 (X)	77,000	ID	<1	NS*	<1	<1	<1	<1	<1	<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	<1	<1	<1
1,1-Dichloroethane	ug/L	2,500	740	2.30E+06	3.80E+05	<1	NS*	<1	<1	<1	<1	<1	<1	<1	<1
1,1-Dichloroethene	ug/L	7.0 (A)	130	1,300	97,000	<1	NS*	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene	ug/L	63 (E)	17	56,000 (S)	56,000 (S)	<1	NS*	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	ug/L	5.0 (A)	360 (X)	59,000	2.50E+06	<1	NS*	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloropropane	ug/L	5.0 (A)	230 (X)	36,000	5.50E+05	<1	NS*	<1	<1	<1	<1	<1	<1	<1	<1
1,3,5-Trimethylbenzene	ug/L	72 (E)	45	61,000 (S)	ID	<1	NS*	<1	<1	<1	<1	<1	<1	<1	<1
2-Butanone	ug/L	38,000	2,200	2.4E+08 (S)	ID	<25	NS*	<25	<25	<25	<25	<25	<25	<25	<25
2-Hexanone	ug/L	2,900	ID	8.70E+06	NA	<50	NS*	<50	<50	<50	<50	<50	<50	<50	<50
4-Methyl-2-pentanone	ug/L	5,200	ID	2.0E+07 (S)	ID	<50	NS*	<50	<50	<50	<50	<50	<50	<50	<50
Acetone	ug/L	2,100	1,700	1.0E+09 (D,S)	1.50E+07	<50	NS*	<50	<50	<50	<50	<50	<50	<50	<50
Benzene	ug/L	5.0 (A)	200 (X)	35,000	68,000	<1	NS*	<1	<1	<1	<1	<1	<1	<1	<1
Bromochloromethane	ug/L	none	none	none	none	<1	NS*	<1	<1	<1	<1	<1	<1	<1	<1
Bromoform	ug/L	80 (A,W)	ID	3.10E+06	ID	<1	NS*	<1	<1	<1	<1	<1	<1	<1	<1

See Notes on last page.

Table 3
Storm Sewer Sample Analytical Data

Former Employee Development Center
65 East University
Pontiac, Michigan

Sample ID:		Michigan Groundwater Cleanup Criteria and Risk Based Screening Levels				SS-1	SS-1	SS-1	SS-2	SS-2	SS-2	SS-3	SS-3	SS-3	SS-4
		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	5/21/2014	10/27/2014	4/16/2015	5/21/2014	10/27/2014	4/16/2015	5/23/2014	10/27/2014	4/16/2015	5/23/2014
Analytical Parameter	Units														
Bromomethane	ug/L	29	35	9,000	ID	<5	NS*	<5	<5	<5	<5	<5	<5	<5	<5
n-Butylbenzene	ug/L	230	ID	ID	ID	<1	NS*	<1	<1	<1	<1	<1	<1	<1	<1
Carbon disulfide	ug/L	2,300	ID	5.50E+05	13,000	<5	NS*	<5	<5	<5	<5	<5	<5	<5	<5
Carbon tetrachloride	ug/L	5.0 (A)	45 (X)	2,400	ID	<1	NS*	<1	<1	<1	<1	<1	<1	<1	<1
Chlorobenzene	ug/L	100 (A)	25	4.70E+05	1.60E+05	<1	NS*	<1	<1	<1	<1	<1	<1	<1	<1
Chloroethane	ug/L	1,700	1,100 (X)	5.7E+06 (S)	1.10E+05	<5	NS*	<5	<5	<5	<5	<5	<5	<5	<5
Chloroform	ug/L	80 (A, W)	350	1.80E+05	ID	<1	NS*	<1	<1	<1	<1	<1	<1	<1	<1
Chloromethane	ug/L	1,100	ID	45,000	36,000	<5	NS*	<5	<5	<5	<5	<5	<5	<5	<5
Dibromochloromethane	ug/L	80 (A, W)	ID	1.10E+05	ID	<5	NS*	<5	<5	<5	<5	<5	<5	<5	<5
Ethylbenzene	ug/L	74 (E)	18	1.7E+05 (S)	43,000	<1	NS*	<1	<1	<1	<1	<1	<1	<1	<1
Methylene chloride	ug/L	5.0 (A)	1,500 (X)	1.40E+06	ID	<5	NS*	<5	<5	<5	<5	<5	<5	<5	<5
n-Propylbenzene	ug/L	230	ID	ID	ID	<1	NS*	<1	<1	<1	<1	<1	<1	<1	<1
Styrene	ug/L	100 (A)	80 (X)	3.1E+05 (S)	1.40E+05	<1	NS*	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethylene	ug/L	5.0 (A)	60 (X)	1.70E+05	ID	<1	NS*	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	ug/L	790 (E)	270	5.3E+05 (S)	61,000	5	NS*	5	2	<1	<1	<1	<1	<1	<1
Trichloroethene	ug/L	5.0 (A)	200 (X)	4,900	ID	<1	NS*	<1	<1	<1	<1	<1	<1	<1	<1
Vinyl chloride	ug/L	2.0 (A)	13 (X)	13,000	33,000	<1	NS*	<1	<1	<1	<1	<1	<1	<1	<1
cis-1,2-Dichloroethene	ug/L	70 (A)	620	2.10E+05	5.30E+05	<1	NS*	<1	<1	<1	<1	<1	<1	<1	<1
cis-1,3-Dichloropropene	ug/L	none	none	none	none	<1	NS*	<1	<1	<1	<1	<1	<1	<1	<1
m,p-Xylene	ug/L	none	none	none	none	<2	NS*	<2	<2	<2	<2	<2	<2	<2	<2
o-Xylene	ug/L	none	none	none	none	<1	NS*	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes, Total	ug/L	280 (E)	41	1.9E+05 (S)	70,000	<3	NS*	<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	NS*	<1	<1	<1	<1	<1	<1	<1	<1
trans-1,3-Dichloropropene	ug/L	none	none	none	none	<1	NS*	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethene (total)	ug/L	none	none	none	none	NA	NS*	NA	NA	NA	NA	NA	NA	NA	NA
1,2,3-Trimethylbenzene	ug/L	none	none	none	none	<1	NS*	<1	<1	<1	<1	<1	<1	<1	<1
Other Target VOCs	ug/L	various	various	various	various	ND	NS*	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	NS*	<5	<5	<5	<5	<5	<5	<5	<5

See Notes on last page.

Table 3
Storm Sewer Sample Analytical Data

Former Employee Development Center
65 East University
Pontiac, Michigan

Sample ID:		Michigan Groundwater Cleanup Criteria and Risk Based Screening Levels				SS-4	SS-4	SS-5	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	10/27/2014	4/16/2015	5/23/2014	10/27/2014	4/16/2015
Date Collected:	Units									
Analytical Parameter	Units									
PAH (EPA Method 8310)										
1-Methylnaphthalene	ug/L	none	none	none	none	NA	NA	<5	NA	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	NA	<5	NA	NA
Acenaphthylene	ug/L	150	ID	3,900 (S)	ID	NA	NA	<5	NA	NA
Benz(a)anthracene	ug/L	8.5	ID	NLV	ID	NA	NA	<1	NA	NA
Benzo(a)pyrene	ug/L	5.0 (A)	ID	NLV	ID	NA	NA	<1	NA	NA
Anthracene	ug/L	43 (S)	ID	43 (S)	ID	NA	NA	<5	NA	NA
Benzo(b)fluoranthene	ug/L	1.5 (S, AA)	ID	ID	ID	NA	NA	<1	NA	NA
Benzo(g,h,i)perylene	ug/L	1.0 (M); 0.26 (S)	NA	NLV	ID	NA	NA	<1	NA	NA
Benzo(k)fluoranthene	ug/L	1.0 (M); 0.8 (S)	NA	NLV	ID	NA	NA	<1	NA	NA
Chrysene	ug/L	1.6 (S)	ID	ID	ID	NA	NA	<1	NA	NA
Dibenzo(a,h)anthracene	ug/L	2.0 (M); 0.85	ID	NLV	ID	NA	NA	<2	NA	NA
Fluoranthene	ug/L	210 (S)	1.6	210 (S)	ID	NA	NA	<1	NA	NA
Indeno(1,2,3-cd)pyrene	ug/L	2.0 (M); 0.022 (S)	ID	NLV	ID	NA	NA	<2	NA	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	NA	<2	NA	NA
Pyrene	ug/L	140 (S)	ID	140 (S)	ID	NA	NA	<5	NA	NA
Other Target PAHs	ug/L	various	various	various	various	NA	NA	ND	NA	NA
Fluorene	ug/L	2,000 (S)	12	2,000 (S)	ID	NA	NA	<5	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
1,1,2,2-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

See Notes on last page.

Table 3
Storm Sewer Sample Analytical Data

Former Employee Development Center
65 East University
Pontiac, Michigan

Sample ID:		Michigan Groundwater Cleanup Criteria and Risk Based Screening Levels				SS-4	SS-4	SS-5	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	10/27/2014	4/16/2015	5/23/2014	10/27/2014	4/16/2015
Analytical Parameter	Units									
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	2	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

See Notes on last page.

Table 3
Storm Sewer Sample Analytical Data

Former Employee Development Center
65 East University
Pontiac, Michigan

General Notes:

- 1. Cleanup criteria exceedances are bolded.
- 2. 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.
- 3. < indicates less than noted detection limit.

Footnote:

** Analyzed via USEPA Method 8260B

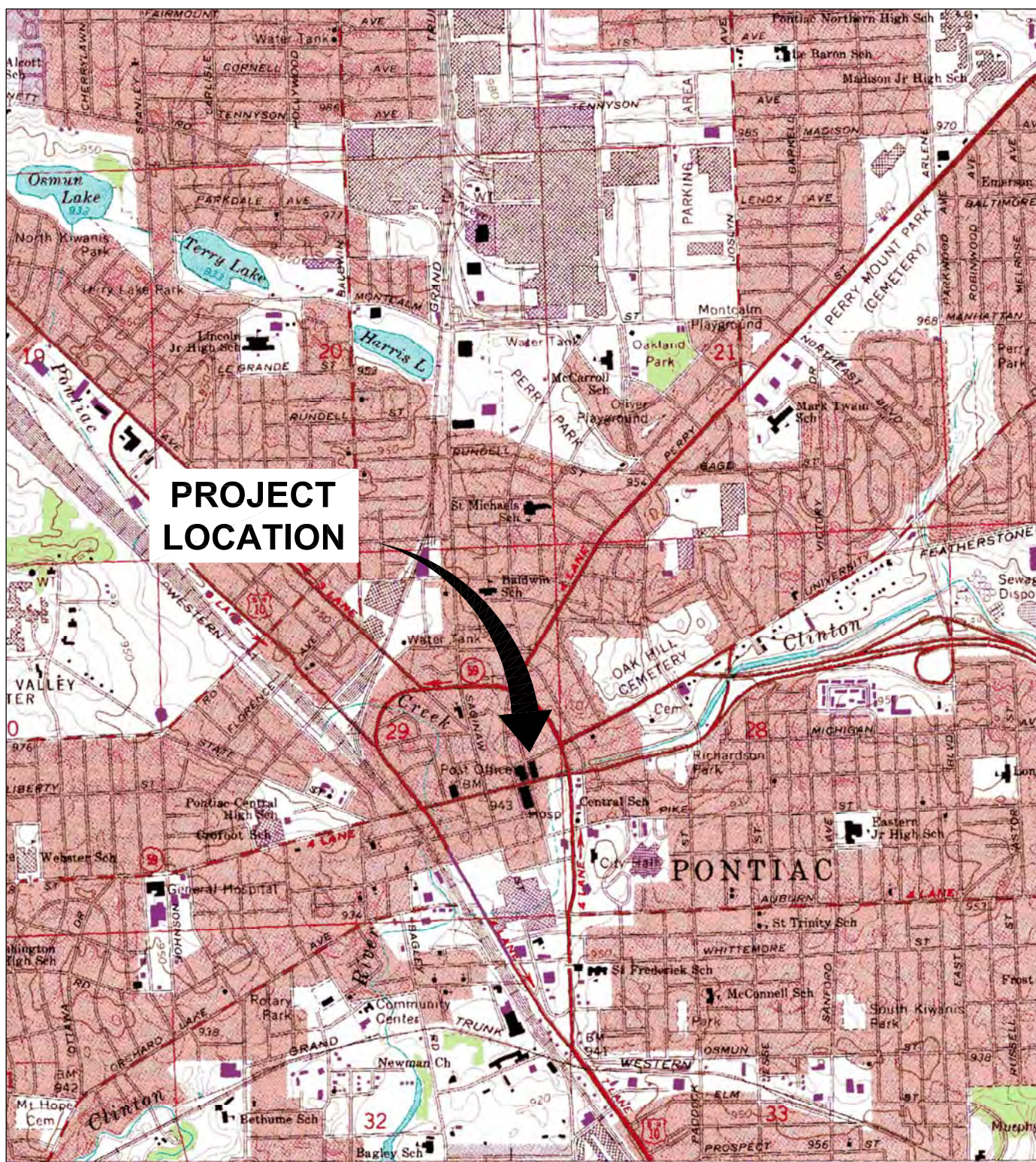
Acronyms and Abbreviations:

- NA Not analyzed
- ND Not detected
- NS* Not sampled. No water was observed in the storm sewer during the sampling event.
- (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.
- 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.
- (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.

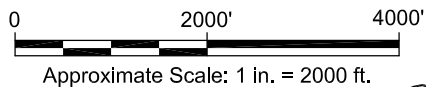
FIGURES



CITY:(Read) DIV:(GROUP:(Read) DB:(Read) LD:(Opt) PM:(Read) TMR:(Opt) LYR:(OPTIONAL-OFF=REF) PLOTSETUP: 1 PLOTTED: 8/27/2012 12:57 PM BY: HOWES, DAVID
 GR:ENV:CAD:STRAC:SEV:ACT:180064486201100003DWDG4486N01.dwg LAYOUT: 1 SAVED: 8/27/2012 12:56 PM ACADVER: 18.1S (LMS TECH) PAGESETUP: 18.1S (LMS TECH) PLOTSETUP: 18.1S (LMS TECH) PLOTTED: 8/27/2012 12:57 PM BY: HOWES, DAVID
 XREFS: IMAGES: PROJECTNAME: MI_Pontiac North.tif



REFERENCE: BASE MAP USGS 7.5. MIN. TOPO. QUAD., PONTIAC NORTH, MICH, 1968, PHOTOREVISED 1983.



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

SITE LOCATION MAP

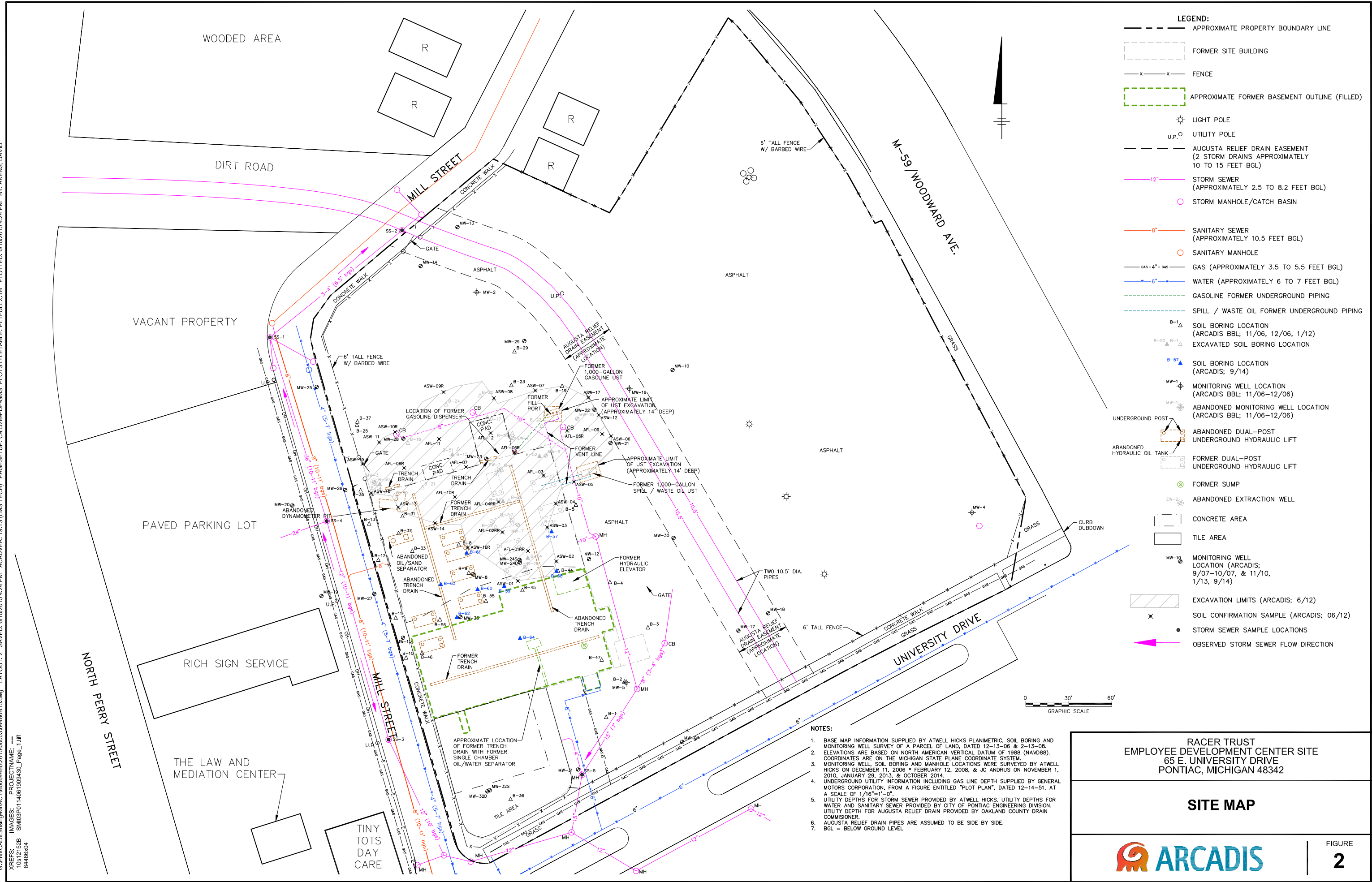


FIGURE
1

CITY: BRIGHTON DIV: GROUP 25 DB: ADF LD: (Opt) PL: C: (Opt) PM: (Red) TM: (Opt) LY: (Opt) ON: "OFF" REF: G:\ENVCAD\landimg-MIA\ACTB0004486\20150003\364486B15.dwg LAYOUT: 2. SAVED: 6/10/2015 4:24 PM ACADVER: 19.1 (LMS TECH) PAGES: 19.1 (LMS TECH) PLOT: PLT: FULL COTB PLOTTED: 6/10/2015 4:24 PM BY: AKENS, DAVID

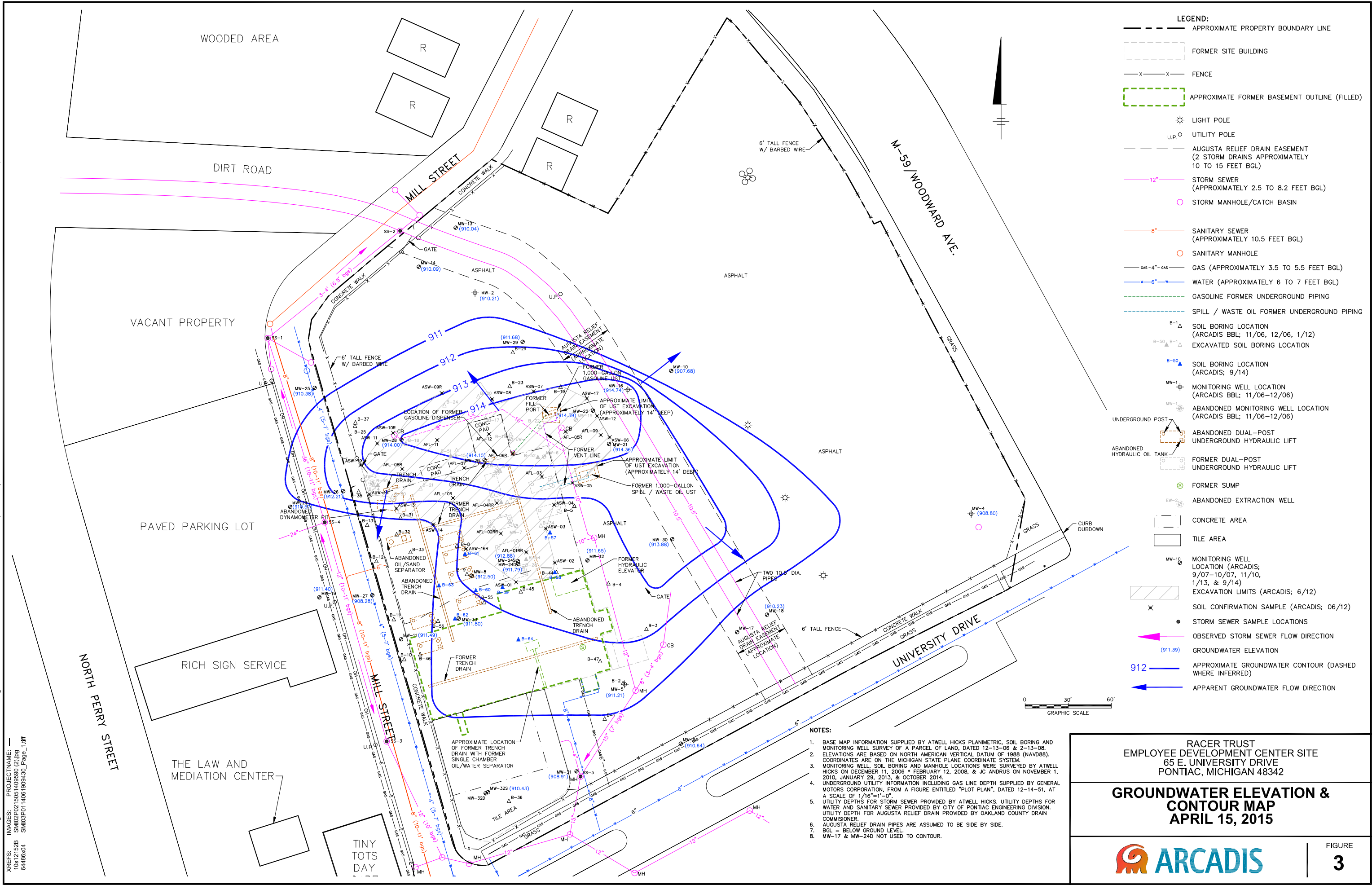
XREFS: IMAGES: PROJECTNAME: ---

105121528 SMD03P014061909430_Page_1.tif 6448x604



CITY: BRIGHTON DIV: GROUP 25 DB: ADF LD: (Ort) PIC: (Ort) PM: (Reed) TW: (Ort) LVR: (Ort) ON: "OFF" REF: "G:\ENVCAD\landring-MIA\ACT\B0004486\20150003\364486\W09.dwg LAYOUT: 3 SAVERD: 6/10/2015 4:05 PM ACADYER: 19,1S (LMS TECH) PAGES: 19,1S (LMS TECH) PLOT: FULL CTB PLOTTED: 6/10/2015 4:25 PM BY: AKENS, DAVID

XREFS: PROJECTNAME: --
105121528 SMD20215051409590 (2).jpg
64486x04 SMD30114061909430_Page_1.dwg



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65 E. UNIVERSITY DRIVE
PONTIAC, MICHIGAN 48342

GROUNDWATER ELEVATION & CONTOUR MAP
APRIL 15, 2015

FIGURE
3





Analytical Laboratory Report

Report ID: S65289.01(01)
Generated on 04/30/2015

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

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Kevin George (kgeorge@meritlabs.com)
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Report Summary

Lab Sample ID(s): S65289.01-S65289.29
Project: B0064486.2015.00003
Collected Date: 04/15/2015 - 04/16/2015
Submitted Date/Time: 04/17/2015 14:45
Sampled by: Filipiak/Bender
P.O. #: B0064486.2015.00003

Table of Contents

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Maya Murshak
Technical Director



Analytical Laboratory Report

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



Analytical Laboratory 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



Analytical Laboratory Report

Method Summary

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



Analytical Laboratory Report

Sample Summary (29 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S65289.01	MW-9_04152015	Groundwater	04/15/2015 10:10
S65289.02	MW-32S_04152015	Groundwater	04/15/2015 10:25
S65289.03	MW-27_04152015	Groundwater	04/15/2015 11:00
S65289.04	MW-32D_04152015	Groundwater	04/15/2015 11:30
S65289.05	MW-32D_04152015 MS	Groundwater	04/15/2015 11:30
S65289.06	MW-32D_04152015 MSD	Groundwater	04/15/2015 11:30
S65289.07	MW-26_04152015	Groundwater	04/15/2015 11:50
S65289.08	MW-20_04152015	Groundwater	04/15/2015 12:40
S65289.09	MW-5_04152015	Groundwater	04/15/2015 12:55
S65289.10	MW-25_04152015	Groundwater	04/15/2015 13:30
S65289.11	MW-24S_04152015	Groundwater	04/15/2015 14:25
S65289.12	MW-12_04152015	Groundwater	04/15/2015 14:35
S65289.13	MW-24D_04152015	Groundwater	04/15/2015 15:10
S65289.14	MW-30_04152015	Groundwater	04/15/2015 15:55
S65289.15	MW-33_04152015	Groundwater	04/15/2015 16:05
S65289.16	MW-11_04152015	Groundwater	04/15/2015 17:05
S65289.17	DUP-01_04152015	Groundwater	04/15/2015 00:01
S65289.18	DUP-02_04152015	Groundwater	04/15/2015 00:01
S65289.19	DUP-03_04152015	Groundwater	04/15/2015 00:01
S65289.20	Trip Blank	Groundwater	04/15/2015 00:01
S65289.21	MW-31_04162015	Groundwater	04/16/2015 07:50
S65289.22	MW-21_04162015	Groundwater	04/16/2015 10:40
S65289.23	MW-21_04162015 MS	Groundwater	04/16/2015 10:40
S65289.24	MW-21_04162015 MSD	Groundwater	04/16/2015 10:40
S65289.25	MW-23_04162015	Groundwater	04/16/2015 11:00
S65289.26	MW-22_04162015	Groundwater	04/16/2015 11:30
S65289.27	MW-28_04162015	Groundwater	04/16/2015 11:45
S65289.28	MW-29_04162015	Groundwater	04/16/2015 12:30
S65289.29	MW-8_04162015	Groundwater	04/16/2015 12:58



Analytical Laboratory Report

Lab Sample ID: S65289.01
Sample Tag: MW-9_04152015
Collected Date/Time: 04/15/2015 10:10
Matrix: Groundwater
COC Reference: 83518

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	5.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

pH check for VOCs	<2	STD Units		N/A	04/28/15 10:30	LBR		
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Organics - Volatiles

Volatile Organics - DEQ List

Diethyl ether	Not detected	ug/L	10	SW8260C	04/27/15 16:36	WAT	60-29-7	
Acetone	Not detected	ug/L	50	SW8260C	04/27/15 16:36	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	SW8260C	04/27/15 16:36	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	SW8260C	04/27/15 16:36	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW8260C	04/27/15 16:36	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	SW8260C	04/27/15 16:36	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	SW8260C	04/27/15 16:36	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW8260C	04/27/15 16:36	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	SW8260C	04/27/15 16:36	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW8260C	04/27/15 16:36	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	SW8260C	04/27/15 16:36	WAT	74-83-9	
Chloroethane	Not detected	ug/L	5	SW8260C	04/27/15 16:36	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260C	04/27/15 16:36	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260C	04/27/15 16:36	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	SW8260C	04/27/15 16:36	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260C	04/27/15 16:36	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260C	04/27/15 16:36	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260C	04/27/15 16:36	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	SW8260C	04/27/15 16:36	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	SW8260C	04/27/15 16:36	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	SW8260C	04/27/15 16:36	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260C	04/27/15 16:36	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW8260C	04/27/15 16:36	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	SW8260C	04/27/15 16:36	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW8260C	04/27/15 16:36	WAT	56-23-5	
Benzene	Not detected	ug/L	1	SW8260C	04/27/15 16:36	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260C	04/27/15 16:36	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW8260C	04/27/15 16:36	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260C	04/27/15 16:36	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW8260C	04/27/15 16:36	WAT	75-27-4	
Dibromomethane	Not detected	ug/L	5	SW8260C	04/27/15 16:36	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260C	04/27/15 16:36	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	SW8260C	04/27/15 16:36	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260C	04/27/15 16:36	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260C	04/27/15 16:36	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW8260C	04/27/15 16:36	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW8260C	04/27/15 16:36	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	SW8260C	04/27/15 16:36	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260C	04/27/15 16:36	WAT	106-93-4	



Analytical Laboratory Report

Lab Sample ID: S65289.01 (continued)

Sample Tag: MW-9_04152015

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	04/27/15 16:36	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW8260C	04/27/15 16:36	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	SW8260C	04/27/15 16:36	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	SW8260C	04/27/15 16:36	WAT		
o-Xylene	Not detected	ug/L	1	SW8260C	04/27/15 16:36	WAT	95-47-6	
Styrene	Not detected	ug/L	1	SW8260C	04/27/15 16:36	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	SW8260C	04/27/15 16:36	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	SW8260C	04/27/15 16:36	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260C	04/27/15 16:36	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	SW8260C	04/27/15 16:36	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	SW8260C	04/27/15 16:36	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	SW8260C	04/27/15 16:36	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW8260C	04/27/15 16:36	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	SW8260C	04/27/15 16:36	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW8260C	04/27/15 16:36	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	SW8260C	04/27/15 16:36	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	SW8260C	04/27/15 16:36	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260C	04/27/15 16:36	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260C	04/27/15 16:36	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260C	04/27/15 16:36	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW8260C	04/27/15 16:36	WAT	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	SW8260C	04/27/15 16:36	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	SW8260C	04/27/15 16:36	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW8260C	04/27/15 16:36	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW8260C	04/27/15 16:36	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW8260C	04/27/15 16:36	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	SW8260C	04/27/15 16:36	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	SW8260C	04/27/15 16:36	WAT	91-57-6	



Analytical Laboratory Report

Lab Sample ID: S65289.02
Sample Tag: MW-32S_04152015
Collected Date/Time: 04/15/2015 10:25
Matrix: Groundwater
COC Reference: 83518

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	5.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

pH check for VOCs	<2	STD Units		N/A	04/28/15 10:30	LBR		
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Organics - Volatiles

Volatile Organics - DEQ List

Diethyl ether	Not detected	ug/L	10	SW8260C	04/27/15 16:59	WAT	60-29-7	
Acetone	Not detected	ug/L	50	SW8260C	04/27/15 16:59	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	SW8260C	04/27/15 16:59	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	SW8260C	04/27/15 16:59	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW8260C	04/27/15 16:59	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	SW8260C	04/27/15 16:59	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	SW8260C	04/27/15 16:59	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW8260C	04/27/15 16:59	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	SW8260C	04/27/15 16:59	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW8260C	04/27/15 16:59	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	SW8260C	04/27/15 16:59	WAT	74-83-9	
Chloroethane	Not detected	ug/L	5	SW8260C	04/27/15 16:59	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260C	04/27/15 16:59	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260C	04/27/15 16:59	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	SW8260C	04/27/15 16:59	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260C	04/27/15 16:59	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260C	04/27/15 16:59	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260C	04/27/15 16:59	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	SW8260C	04/27/15 16:59	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	SW8260C	04/27/15 16:59	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	SW8260C	04/27/15 16:59	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260C	04/27/15 16:59	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW8260C	04/27/15 16:59	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	SW8260C	04/27/15 16:59	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW8260C	04/27/15 16:59	WAT	56-23-5	
Benzene	Not detected	ug/L	1	SW8260C	04/27/15 16:59	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260C	04/27/15 16:59	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW8260C	04/27/15 16:59	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260C	04/27/15 16:59	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW8260C	04/27/15 16:59	WAT	75-27-4	
Dibromomethane	Not detected	ug/L	5	SW8260C	04/27/15 16:59	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260C	04/27/15 16:59	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	SW8260C	04/27/15 16:59	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260C	04/27/15 16:59	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260C	04/27/15 16:59	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW8260C	04/27/15 16:59	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW8260C	04/27/15 16:59	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	SW8260C	04/27/15 16:59	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260C	04/27/15 16:59	WAT	106-93-4	



Analytical Laboratory Report

Lab Sample ID: S65289.02 (continued)

Sample Tag: MW-32S_04152015

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	04/27/15 16:59	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW8260C	04/27/15 16:59	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	SW8260C	04/27/15 16:59	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	SW8260C	04/27/15 16:59	WAT		
o-Xylene	Not detected	ug/L	1	SW8260C	04/27/15 16:59	WAT	95-47-6	
Styrene	Not detected	ug/L	1	SW8260C	04/27/15 16:59	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	SW8260C	04/27/15 16:59	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	SW8260C	04/27/15 16:59	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260C	04/27/15 16:59	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	SW8260C	04/27/15 16:59	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	SW8260C	04/27/15 16:59	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	SW8260C	04/27/15 16:59	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW8260C	04/27/15 16:59	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	SW8260C	04/27/15 16:59	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW8260C	04/27/15 16:59	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	SW8260C	04/27/15 16:59	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	SW8260C	04/27/15 16:59	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260C	04/27/15 16:59	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260C	04/27/15 16:59	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260C	04/27/15 16:59	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW8260C	04/27/15 16:59	WAT	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	SW8260C	04/27/15 16:59	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	SW8260C	04/27/15 16:59	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW8260C	04/27/15 16:59	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW8260C	04/27/15 16:59	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW8260C	04/27/15 16:59	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	SW8260C	04/27/15 16:59	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	SW8260C	04/27/15 16:59	WAT	91-57-6	



Analytical Laboratory Report

Lab Sample ID: S65289.03
Sample Tag: MW-27_04152015
Collected Date/Time: 04/15/2015 11:00
Matrix: Groundwater
COC Reference: 83518

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	5.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

pH check for VOCs	<2	STD Units		N/A	04/28/15 10:30	LBR		
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Organics - Volatiles

Volatile Organics - DEQ List

Diethyl ether	Not detected	ug/L	10	SW8260C	04/27/15 17:21	WAT	60-29-7	
Acetone	Not detected	ug/L	50	SW8260C	04/27/15 17:21	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	SW8260C	04/27/15 17:21	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	SW8260C	04/27/15 17:21	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW8260C	04/27/15 17:21	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	SW8260C	04/27/15 17:21	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	SW8260C	04/27/15 17:21	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW8260C	04/27/15 17:21	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	SW8260C	04/27/15 17:21	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW8260C	04/27/15 17:21	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	SW8260C	04/27/15 17:21	WAT	74-83-9	
Chloroethane	Not detected	ug/L	5	SW8260C	04/27/15 17:21	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260C	04/27/15 17:21	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260C	04/27/15 17:21	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	SW8260C	04/27/15 17:21	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260C	04/27/15 17:21	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260C	04/27/15 17:21	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260C	04/27/15 17:21	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	SW8260C	04/27/15 17:21	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	SW8260C	04/27/15 17:21	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	SW8260C	04/27/15 17:21	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260C	04/27/15 17:21	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW8260C	04/27/15 17:21	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	SW8260C	04/27/15 17:21	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW8260C	04/27/15 17:21	WAT	56-23-5	
Benzene	Not detected	ug/L	1	SW8260C	04/27/15 17:21	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260C	04/27/15 17:21	WAT	107-06-2	
Trichloroethene	3	ug/L	1	SW8260C	04/27/15 17:21	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260C	04/27/15 17:21	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW8260C	04/27/15 17:21	WAT	75-27-4	
Dibromomethane	Not detected	ug/L	5	SW8260C	04/27/15 17:21	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260C	04/27/15 17:21	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	SW8260C	04/27/15 17:21	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260C	04/27/15 17:21	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260C	04/27/15 17:21	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW8260C	04/27/15 17:21	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW8260C	04/27/15 17:21	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	SW8260C	04/27/15 17:21	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260C	04/27/15 17:21	WAT	106-93-4	



Analytical Laboratory Report

Lab Sample ID: S65289.03 (continued)

Sample Tag: MW-27_04152015

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	04/27/15 17:21	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW8260C	04/27/15 17:21	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	SW8260C	04/27/15 17:21	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	SW8260C	04/27/15 17:21	WAT		
o-Xylene	Not detected	ug/L	1	SW8260C	04/27/15 17:21	WAT	95-47-6	
Styrene	Not detected	ug/L	1	SW8260C	04/27/15 17:21	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	SW8260C	04/27/15 17:21	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	SW8260C	04/27/15 17:21	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260C	04/27/15 17:21	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	SW8260C	04/27/15 17:21	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	SW8260C	04/27/15 17:21	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	SW8260C	04/27/15 17:21	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW8260C	04/27/15 17:21	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	SW8260C	04/27/15 17:21	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW8260C	04/27/15 17:21	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	SW8260C	04/27/15 17:21	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	SW8260C	04/27/15 17:21	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260C	04/27/15 17:21	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260C	04/27/15 17:21	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260C	04/27/15 17:21	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW8260C	04/27/15 17:21	WAT	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	SW8260C	04/27/15 17:21	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	SW8260C	04/27/15 17:21	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW8260C	04/27/15 17:21	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW8260C	04/27/15 17:21	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW8260C	04/27/15 17:21	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	SW8260C	04/27/15 17:21	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	SW8260C	04/27/15 17:21	WAT	91-57-6	



Analytical Laboratory Report

Lab Sample ID: S65289.04
Sample Tag: MW-32D_04152015
Collected Date/Time: 04/15/2015 11:30
Matrix: Groundwater
COC Reference: 83518

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	5.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

pH check for VOCs	<2	STD Units		N/A	04/28/15 10:30	LBR		
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Organics - Volatiles

Volatile Organics - DEQ List

Diethyl ether	Not detected	ug/L	10	SW8260C	04/28/15 15:07	WAT	60-29-7	
Acetone	Not detected	ug/L	50	SW8260C	04/28/15 15:07	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	SW8260C	04/28/15 15:07	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	SW8260C	04/28/15 15:07	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW8260C	04/28/15 15:07	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	SW8260C	04/28/15 15:07	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	SW8260C	04/28/15 15:07	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW8260C	04/28/15 15:07	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	SW8260C	04/28/15 15:07	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW8260C	04/28/15 15:07	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	SW8260C	04/28/15 15:07	WAT	74-83-9	
Chloroethane	Not detected	ug/L	5	SW8260C	04/28/15 15:07	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260C	04/28/15 15:07	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260C	04/28/15 15:07	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	SW8260C	04/28/15 15:07	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260C	04/28/15 15:07	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260C	04/28/15 15:07	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260C	04/28/15 15:07	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	SW8260C	04/28/15 15:07	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	SW8260C	04/28/15 15:07	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	SW8260C	04/28/15 15:07	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260C	04/28/15 15:07	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW8260C	04/28/15 15:07	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	SW8260C	04/28/15 15:07	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW8260C	04/28/15 15:07	WAT	56-23-5	
Benzene	Not detected	ug/L	1	SW8260C	04/28/15 15:07	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260C	04/28/15 15:07	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW8260C	04/28/15 15:07	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260C	04/28/15 15:07	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW8260C	04/28/15 15:07	WAT	75-27-4	
Dibromomethane	Not detected	ug/L	5	SW8260C	04/28/15 15:07	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260C	04/28/15 15:07	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	SW8260C	04/28/15 15:07	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260C	04/28/15 15:07	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260C	04/28/15 15:07	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW8260C	04/28/15 15:07	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW8260C	04/28/15 15:07	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	SW8260C	04/28/15 15:07	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260C	04/28/15 15:07	WAT	106-93-4	



Analytical Laboratory Report

Lab Sample ID: S65289.04 (continued)

Sample Tag: MW-32D_04152015

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	04/28/15 15:07	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW8260C	04/28/15 15:07	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	SW8260C	04/28/15 15:07	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	SW8260C	04/28/15 15:07	WAT		
o-Xylene	Not detected	ug/L	1	SW8260C	04/28/15 15:07	WAT	95-47-6	
Styrene	Not detected	ug/L	1	SW8260C	04/28/15 15:07	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	SW8260C	04/28/15 15:07	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	SW8260C	04/28/15 15:07	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260C	04/28/15 15:07	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	SW8260C	04/28/15 15:07	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	SW8260C	04/28/15 15:07	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	SW8260C	04/28/15 15:07	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW8260C	04/28/15 15:07	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	SW8260C	04/28/15 15:07	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW8260C	04/28/15 15:07	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	SW8260C	04/28/15 15:07	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	SW8260C	04/28/15 15:07	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260C	04/28/15 15:07	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260C	04/28/15 15:07	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260C	04/28/15 15:07	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW8260C	04/28/15 15:07	WAT	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	SW8260C	04/28/15 15:07	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	SW8260C	04/28/15 15:07	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW8260C	04/28/15 15:07	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW8260C	04/28/15 15:07	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW8260C	04/28/15 15:07	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	SW8260C	04/28/15 15:07	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	SW8260C	04/28/15 15:07	WAT	91-57-6	



Analytical Laboratory Report

Lab Sample ID: S65289.05
Sample Tag: MW-32D_04152015 MS
Collected Date/Time: 04/15/2015 11:30
Matrix: Groundwater
COC Reference: 83518

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	5.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

pH check for VOCs	<2	STD Units		N/A	04/28/15 10:30	LBR		
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Organics - Volatiles

Volatile Organics - DEQ List

Diethyl ether	49	ug/L	10	SW8260C	04/28/15 13:05	WAT	60-29-7	1
Acetone	Not detected	ug/L	50	SW8260C	04/28/15 13:05	WAT	67-64-1	1
Methyl iodide	48	ug/L	1	SW8260C	04/28/15 13:05	WAT	74-88-4	1
Carbon disulfide	40	ug/L	5	SW8260C	04/28/15 13:05	WAT	75-15-0	1
tert-Methyl butyl ether (MTBE)	52	ug/L	5	SW8260C	04/28/15 13:05	WAT	1634-04-4	1
Acrylonitrile	49	ug/L	2	SW8260C	04/28/15 13:05	WAT	107-13-1	1
2-Butanone (MEK)	49	ug/L	25	SW8260C	04/28/15 13:05	WAT	78-93-3	1
Dichlorodifluoromethane	39	ug/L	5	SW8260C	04/28/15 13:05	WAT	75-71-8	1
Chloromethane	44	ug/L	5	SW8260C	04/28/15 13:05	WAT	74-87-3	1
Vinyl chloride	44	ug/L	1	SW8260C	04/28/15 13:05	WAT	75-01-4	1
Bromomethane	49	ug/L	5	SW8260C	04/28/15 13:05	WAT	74-83-9	1
Chloroethane	56	ug/L	5	SW8260C	04/28/15 13:05	WAT	75-00-3	1
Trichlorofluoromethane	47	ug/L	1	SW8260C	04/28/15 13:05	WAT	75-69-4	1
1,1-Dichloroethene	48	ug/L	1	SW8260C	04/28/15 13:05	WAT	75-35-4	1
Methylene chloride	47	ug/L	5	SW8260C	04/28/15 13:05	WAT	75-09-2	1
trans-1,2-Dichloroethene	48	ug/L	1	SW8260C	04/28/15 13:05	WAT	156-60-5	1
1,1-Dichloroethane	48	ug/L	1	SW8260C	04/28/15 13:05	WAT	75-34-3	1
cis-1,2-Dichloroethene	50	ug/L	1	SW8260C	04/28/15 13:05	WAT	156-59-2	1
Tetrahydrofuran	Not detected	ug/L	90	SW8260C	04/28/15 13:05	WAT	109-99-9	1
Chloroform	50	ug/L	1	SW8260C	04/28/15 13:05	WAT	67-66-3	1
Bromochloromethane	52	ug/L	1	SW8260C	04/28/15 13:05	WAT	74-97-5	1
1,1,1-Trichloroethane	54	ug/L	1	SW8260C	04/28/15 13:05	WAT	71-55-6	1
4-Methyl-2-pentanone (MIBK)	58	ug/L	50	SW8260C	04/28/15 13:05	WAT	108-10-1	1
2-Hexanone	52	ug/L	50	SW8260C	04/28/15 13:05	WAT	591-78-6	1
Carbon tetrachloride	51	ug/L	1	SW8260C	04/28/15 13:05	WAT	56-23-5	1
Benzene	48	ug/L	1	SW8260C	04/28/15 13:05	WAT	71-43-2	1
1,2-Dichloroethane	47	ug/L	1	SW8260C	04/28/15 13:05	WAT	107-06-2	1
Trichloroethene	50	ug/L	1	SW8260C	04/28/15 13:05	WAT	79-01-6	1
1,2-Dichloropropane	49	ug/L	1	SW8260C	04/28/15 13:05	WAT	78-87-5	1
Bromodichloromethane	51	ug/L	1	SW8260C	04/28/15 13:05	WAT	75-27-4	1
Dibromomethane	52	ug/L	5	SW8260C	04/28/15 13:05	WAT	74-95-3	1
cis-1,3-Dichloropropene	49	ug/L	1	SW8260C	04/28/15 13:05	WAT	10061-01-5	1
Toluene	48	ug/L	1	SW8260C	04/28/15 13:05	WAT	108-88-3	1
trans-1,3-Dichloropropene	49	ug/L	1	SW8260C	04/28/15 13:05	WAT	10061-02-6	1
1,1,2-Trichloroethane	49	ug/L	1	SW8260C	04/28/15 13:05	WAT	79-00-5	1
Tetrachloroethene	53	ug/L	1	SW8260C	04/28/15 13:05	WAT	127-18-4	1
trans-1,4-Dichloro-2-butene	29	ug/L	1	SW8260C	04/28/15 13:05	WAT	110-57-6	1
Dibromochloromethane	50	ug/L	5	SW8260C	04/28/15 13:05	WAT	124-48-1	1

1-Spiked at 50ug/l



Analytical Laboratory Report

Lab Sample ID: S65289.05 (continued)

Sample Tag: MW-32D_04152015 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	04/28/15 13:05	WAT	106-93-4	1
Chlorobenzene	47	ug/L	1	SW8260C	04/28/15 13:05	WAT	108-90-7	1
1,1,1,2-Tetrachloroethane	50	ug/L	1	SW8260C	04/28/15 13:05	WAT	630-20-6	1
Ethylbenzene	48	ug/L	1	SW8260C	04/28/15 13:05	WAT	100-41-4	1
p,m-Xylene	92	ug/L	2	SW8260C	04/28/15 13:05	WAT		1
o-Xylene	47	ug/L	1	SW8260C	04/28/15 13:05	WAT	95-47-6	1
Styrene	41	ug/L	1	SW8260C	04/28/15 13:05	WAT	100-42-5	1
Isopropylbenzene	48	ug/L	5	SW8260C	04/28/15 13:05	WAT	98-82-8	1
Bromoform	47	ug/L	1	SW8260C	04/28/15 13:05	WAT	75-25-2	1
1,1,2,2-Tetrachloroethane	49	ug/L	1	SW8260C	04/28/15 13:05	WAT	79-34-5	1
1,2,3-Trichloropropane	50	ug/L	1	SW8260C	04/28/15 13:05	WAT	96-18-4	1
n-Propylbenzene	48	ug/L	1	SW8260C	04/28/15 13:05	WAT	103-65-1	1
Bromobenzene	50	ug/L	1	SW8260C	04/28/15 13:05	WAT	108-86-1	1
1,3,5-Trimethylbenzene	45	ug/L	1	SW8260C	04/28/15 13:05	WAT	108-67-8	1
tert-Butylbenzene	46	ug/L	1	SW8260C	04/28/15 13:05	WAT	98-06-6	1
1,2,4-Trimethylbenzene	45	ug/L	1	SW8260C	04/28/15 13:05	WAT	95-63-6	1
sec-Butylbenzene	49	ug/L	1	SW8260C	04/28/15 13:05	WAT	135-98-8	1
p-Isopropyltoluene	48	ug/L	5	SW8260C	04/28/15 13:05	WAT	99-87-6	1
1,3-Dichlorobenzene	48	ug/L	1	SW8260C	04/28/15 13:05	WAT	541-73-1	1
1,4-Dichlorobenzene	49	ug/L	1	SW8260C	04/28/15 13:05	WAT	106-46-7	1
1,2-Dichlorobenzene	49	ug/L	1	SW8260C	04/28/15 13:05	WAT	95-50-1	1
1,2,3-Trimethylbenzene	46	ug/L	1	SW8260C	04/28/15 13:05	WAT	526-73-8	1
n-Butylbenzene	48	ug/L	1	SW8260C	04/28/15 13:05	WAT	104-51-8	1
Hexachloroethane	40	ug/L	5	SW8260C	04/28/15 13:05	WAT	67-72-1	1
1,2-Dibromo-3-chloropropane	57	ug/L	5	SW8260C	04/28/15 13:05	WAT	96-12-8	1
1,2,4-Trichlorobenzene	51	ug/L	5	SW8260C	04/28/15 13:05	WAT	120-82-1	1
1,2,3-Trichlorobenzene	50	ug/L	5	SW8260C	04/28/15 13:05	WAT	87-61-6	1
Naphthalene	54	ug/L	5	SW8260C	04/28/15 13:05	WAT	91-20-3	1
2-Methylnaphthalene	50	ug/L	5	SW8260C	04/28/15 13:05	WAT	91-57-6	1

1-Spiked at 50ug/l



Analytical Laboratory Report

Lab Sample ID: S65289.06
Sample Tag: MW-32D_04152015 MSD
Collected Date/Time: 04/15/2015 11:30
Matrix: Groundwater
COC Reference: 83518

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	5.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

pH check for VOCs	<2	STD Units		N/A	04/28/15 10:30	LBR		
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Organics - Volatiles

Volatile Organics - DEQ List

Diethyl ether	46	ug/L	10	SW8260C	04/28/15 13:26	WAT	60-29-7	1
Acetone	Not detected	ug/L	50	SW8260C	04/28/15 13:26	WAT	67-64-1	1
Methyl iodide	49	ug/L	1	SW8260C	04/28/15 13:26	WAT	74-88-4	1
Carbon disulfide	41	ug/L	5	SW8260C	04/28/15 13:26	WAT	75-15-0	1
tert-Methyl butyl ether (MTBE)	53	ug/L	5	SW8260C	04/28/15 13:26	WAT	1634-04-4	1
Acrylonitrile	49	ug/L	2	SW8260C	04/28/15 13:26	WAT	107-13-1	1
2-Butanone (MEK)	49	ug/L	25	SW8260C	04/28/15 13:26	WAT	78-93-3	1
Dichlorodifluoromethane	40	ug/L	5	SW8260C	04/28/15 13:26	WAT	75-71-8	1
Chloromethane	43	ug/L	5	SW8260C	04/28/15 13:26	WAT	74-87-3	1
Vinyl chloride	45	ug/L	1	SW8260C	04/28/15 13:26	WAT	75-01-4	1
Bromomethane	51	ug/L	5	SW8260C	04/28/15 13:26	WAT	74-83-9	1
Chloroethane	57	ug/L	5	SW8260C	04/28/15 13:26	WAT	75-00-3	1
Trichlorofluoromethane	47	ug/L	1	SW8260C	04/28/15 13:26	WAT	75-69-4	1
1,1-Dichloroethene	48	ug/L	1	SW8260C	04/28/15 13:26	WAT	75-35-4	1
Methylene chloride	47	ug/L	5	SW8260C	04/28/15 13:26	WAT	75-09-2	1
trans-1,2-Dichloroethene	48	ug/L	1	SW8260C	04/28/15 13:26	WAT	156-60-5	1
1,1-Dichloroethane	48	ug/L	1	SW8260C	04/28/15 13:26	WAT	75-34-3	1
cis-1,2-Dichloroethene	50	ug/L	1	SW8260C	04/28/15 13:26	WAT	156-59-2	1
Tetrahydrofuran	Not detected	ug/L	90	SW8260C	04/28/15 13:26	WAT	109-99-9	1
Chloroform	50	ug/L	1	SW8260C	04/28/15 13:26	WAT	67-66-3	1
Bromochloromethane	52	ug/L	1	SW8260C	04/28/15 13:26	WAT	74-97-5	1
1,1,1-Trichloroethane	54	ug/L	1	SW8260C	04/28/15 13:26	WAT	71-55-6	1
4-Methyl-2-pentanone (MIBK)	59	ug/L	50	SW8260C	04/28/15 13:26	WAT	108-10-1	1
2-Hexanone	52	ug/L	50	SW8260C	04/28/15 13:26	WAT	591-78-6	1
Carbon tetrachloride	52	ug/L	1	SW8260C	04/28/15 13:26	WAT	56-23-5	1
Benzene	48	ug/L	1	SW8260C	04/28/15 13:26	WAT	71-43-2	1
1,2-Dichloroethane	48	ug/L	1	SW8260C	04/28/15 13:26	WAT	107-06-2	1
Trichloroethene	50	ug/L	1	SW8260C	04/28/15 13:26	WAT	79-01-6	1
1,2-Dichloropropane	49	ug/L	1	SW8260C	04/28/15 13:26	WAT	78-87-5	1
Bromodichloromethane	51	ug/L	1	SW8260C	04/28/15 13:26	WAT	75-27-4	1
Dibromomethane	53	ug/L	5	SW8260C	04/28/15 13:26	WAT	74-95-3	1
cis-1,3-Dichloropropene	49	ug/L	1	SW8260C	04/28/15 13:26	WAT	10061-01-5	1
Toluene	49	ug/L	1	SW8260C	04/28/15 13:26	WAT	108-88-3	1
trans-1,3-Dichloropropene	49	ug/L	1	SW8260C	04/28/15 13:26	WAT	10061-02-6	1
1,1,2-Trichloroethane	50	ug/L	1	SW8260C	04/28/15 13:26	WAT	79-00-5	1
Tetrachloroethene	53	ug/L	1	SW8260C	04/28/15 13:26	WAT	127-18-4	1
trans-1,4-Dichloro-2-butene	29	ug/L	1	SW8260C	04/28/15 13:26	WAT	110-57-6	1
Dibromochloromethane	54	ug/L	5	SW8260C	04/28/15 13:26	WAT	124-48-1	1

1-Spiked at 50ug/l



Analytical Laboratory Report

Lab Sample ID: S65289.06 (continued)

Sample Tag: MW-32D_04152015 MSD

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
1,2-Dibromoethane	53	ug/L	1	SW8260C	04/28/15 13:26	WAT	106-93-4	1
Chlorobenzene	50	ug/L	1	SW8260C	04/28/15 13:26	WAT	108-90-7	1
1,1,1,2-Tetrachloroethane	53	ug/L	1	SW8260C	04/28/15 13:26	WAT	630-20-6	1
Ethylbenzene	50	ug/L	1	SW8260C	04/28/15 13:26	WAT	100-41-4	1
p,m-Xylene	96	ug/L	2	SW8260C	04/28/15 13:26	WAT		1
o-Xylene	49	ug/L	1	SW8260C	04/28/15 13:26	WAT	95-47-6	1
Styrene	45	ug/L	1	SW8260C	04/28/15 13:26	WAT	100-42-5	1
Isopropylbenzene	50	ug/L	5	SW8260C	04/28/15 13:26	WAT	98-82-8	1
Bromoform	50	ug/L	1	SW8260C	04/28/15 13:26	WAT	75-25-2	1
1,1,2,2-Tetrachloroethane	53	ug/L	1	SW8260C	04/28/15 13:26	WAT	79-34-5	1
1,2,3-Trichloropropane	53	ug/L	1	SW8260C	04/28/15 13:26	WAT	96-18-4	1
n-Propylbenzene	50	ug/L	1	SW8260C	04/28/15 13:26	WAT	103-65-1	1
Bromobenzene	53	ug/L	1	SW8260C	04/28/15 13:26	WAT	108-86-1	1
1,3,5-Trimethylbenzene	48	ug/L	1	SW8260C	04/28/15 13:26	WAT	108-67-8	1
tert-Butylbenzene	49	ug/L	1	SW8260C	04/28/15 13:26	WAT	98-06-6	1
1,2,4-Trimethylbenzene	48	ug/L	1	SW8260C	04/28/15 13:26	WAT	95-63-6	1
sec-Butylbenzene	49	ug/L	1	SW8260C	04/28/15 13:26	WAT	135-98-8	1
p-Isopropyltoluene	50	ug/L	5	SW8260C	04/28/15 13:26	WAT	99-87-6	1
1,3-Dichlorobenzene	49	ug/L	1	SW8260C	04/28/15 13:26	WAT	541-73-1	1
1,4-Dichlorobenzene	51	ug/L	1	SW8260C	04/28/15 13:26	WAT	106-46-7	1
1,2-Dichlorobenzene	49	ug/L	1	SW8260C	04/28/15 13:26	WAT	95-50-1	1
1,2,3-Trimethylbenzene	48	ug/L	1	SW8260C	04/28/15 13:26	WAT	526-73-8	1
n-Butylbenzene	49	ug/L	1	SW8260C	04/28/15 13:26	WAT	104-51-8	1
Hexachloroethane	42	ug/L	5	SW8260C	04/28/15 13:26	WAT	67-72-1	1
1,2-Dibromo-3-chloropropane	60	ug/L	5	SW8260C	04/28/15 13:26	WAT	96-12-8	1
1,2,4-Trichlorobenzene	53	ug/L	5	SW8260C	04/28/15 13:26	WAT	120-82-1	1
1,2,3-Trichlorobenzene	53	ug/L	5	SW8260C	04/28/15 13:26	WAT	87-61-6	1
Naphthalene	56	ug/L	5	SW8260C	04/28/15 13:26	WAT	91-20-3	1
2-Methylnaphthalene	52	ug/L	5	SW8260C	04/28/15 13:26	WAT	91-57-6	1

1-Spiked at 50ug/l



Analytical Laboratory Report

Lab Sample ID: S65289.07
Sample Tag: MW-26_04152015
Collected Date/Time: 04/15/2015 11:50
Matrix: Groundwater
COC Reference: 83518

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	5.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

pH check for VOCs	<2	STD Units		N/A	04/28/15 10:30	LBR		
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Organics - Volatiles

Volatile Organics - DEQ List

Diethyl ether	Not detected	ug/L	500	SW8260C	04/27/15 22:50	WAT	60-29-7	Y
Acetone	Not detected	ug/L	2,500	SW8260C	04/27/15 22:50	WAT	67-64-1	Y
Methyl iodide	Not detected	ug/L	50	SW8260C	04/27/15 22:50	WAT	74-88-4	Y
Carbon disulfide	Not detected	ug/L	300	SW8260C	04/27/15 22:50	WAT	75-15-0	Y
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	300	SW8260C	04/27/15 22:50	WAT	1634-04-4	Y
Acrylonitrile	Not detected	ug/L	100	SW8260C	04/27/15 22:50	WAT	107-13-1	Y
2-Butanone (MEK)	Not detected	ug/L	1,300	SW8260C	04/27/15 22:50	WAT	78-93-3	Y
Dichlorodifluoromethane	Not detected	ug/L	300	SW8260C	04/27/15 22:50	WAT	75-71-8	Y
Chloromethane	Not detected	ug/L	300	SW8260C	04/27/15 22:50	WAT	74-87-3	Y
Vinyl chloride	Not detected	ug/L	50	SW8260C	04/27/15 22:50	WAT	75-01-4	Y
Bromomethane	Not detected	ug/L	300	SW8260C	04/27/15 22:50	WAT	74-83-9	Y
Chloroethane	Not detected	ug/L	300	SW8260C	04/27/15 22:50	WAT	75-00-3	Y
Trichlorofluoromethane	Not detected	ug/L	50	SW8260C	04/27/15 22:50	WAT	75-69-4	Y
1,1-Dichloroethene	Not detected	ug/L	50	SW8260C	04/27/15 22:50	WAT	75-35-4	Y
Methylene chloride	Not detected	ug/L	300	SW8260C	04/27/15 22:50	WAT	75-09-2	Y
trans-1,2-Dichloroethene	Not detected	ug/L	50	SW8260C	04/27/15 22:50	WAT	156-60-5	Y
1,1-Dichloroethane	Not detected	ug/L	50	SW8260C	04/27/15 22:50	WAT	75-34-3	Y
cis-1,2-Dichloroethene	Not detected	ug/L	50	SW8260C	04/27/15 22:50	WAT	156-59-2	Y
Tetrahydrofuran	Not detected	ug/L	4,500	SW8260C	04/27/15 22:50	WAT	109-99-9	Y
Chloroform	Not detected	ug/L	50	SW8260C	04/27/15 22:50	WAT	67-66-3	Y
Bromochloromethane	Not detected	ug/L	50	SW8260C	04/27/15 22:50	WAT	74-97-5	Y
1,1,1-Trichloroethane	Not detected	ug/L	50	SW8260C	04/27/15 22:50	WAT	71-55-6	Y
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	2,500	SW8260C	04/27/15 22:50	WAT	108-10-1	Y
2-Hexanone	Not detected	ug/L	2,500	SW8260C	04/27/15 22:50	WAT	591-78-6	Y
Carbon tetrachloride	Not detected	ug/L	50	SW8260C	04/27/15 22:50	WAT	56-23-5	Y
Benzene	1,920	ug/L	50	SW8260C	04/27/15 22:50	WAT	71-43-2	Y
1,2-Dichloroethane	Not detected	ug/L	50	SW8260C	04/27/15 22:50	WAT	107-06-2	Y
Trichloroethene	Not detected	ug/L	50	SW8260C	04/27/15 22:50	WAT	79-01-6	Y
1,2-Dichloropropane	Not detected	ug/L	50	SW8260C	04/27/15 22:50	WAT	78-87-5	Y
Bromodichloromethane	Not detected	ug/L	50	SW8260C	04/27/15 22:50	WAT	75-27-4	Y
Dibromomethane	Not detected	ug/L	300	SW8260C	04/27/15 22:50	WAT	74-95-3	Y
cis-1,3-Dichloropropene	Not detected	ug/L	50	SW8260C	04/27/15 22:50	WAT	10061-01-5	Y
Toluene	Not detected	ug/L	50	SW8260C	04/27/15 22:50	WAT	108-88-3	Y
trans-1,3-Dichloropropene	Not detected	ug/L	50	SW8260C	04/27/15 22:50	WAT	10061-02-6	Y
1,1,2-Trichloroethane	Not detected	ug/L	50	SW8260C	04/27/15 22:50	WAT	79-00-5	Y
Tetrachloroethene	Not detected	ug/L	50	SW8260C	04/27/15 22:50	WAT	127-18-4	Y
trans-1,4-Dichloro-2-butene	Not detected	ug/L	50	SW8260C	04/27/15 22:50	WAT	110-57-6	Y
Dibromochloromethane	Not detected	ug/L	300	SW8260C	04/27/15 22:50	WAT	124-48-1	Y

Y-Elevated reporting limit due to high target concentration



Analytical Laboratory Report

Lab Sample ID: S65289.07 (continued)

Sample Tag: MW-26_04152015

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	04/27/15 22:50	WAT	106-93-4	Y
Chlorobenzene	Not detected	ug/L	50	SW8260C	04/27/15 22:50	WAT	108-90-7	Y
1,1,1,2-Tetrachloroethane	Not detected	ug/L	50	SW8260C	04/27/15 22:50	WAT	630-20-6	Y
Ethylbenzene	Not detected	ug/L	50	SW8260C	04/27/15 22:50	WAT	100-41-4	Y
p,m-Xylene	Not detected	ug/L	100	SW8260C	04/27/15 22:50	WAT		Y
o-Xylene	Not detected	ug/L	50	SW8260C	04/27/15 22:50	WAT	95-47-6	Y
Styrene	Not detected	ug/L	50	SW8260C	04/27/15 22:50	WAT	100-42-5	Y
Isopropylbenzene	Not detected	ug/L	300	SW8260C	04/27/15 22:50	WAT	98-82-8	Y
Bromoform	Not detected	ug/L	50	SW8260C	04/27/15 22:50	WAT	75-25-2	Y
1,1,2,2-Tetrachloroethane	Not detected	ug/L	50	SW8260C	04/27/15 22:50	WAT	79-34-5	Y
1,2,3-Trichloropropane	Not detected	ug/L	50	SW8260C	04/27/15 22:50	WAT	96-18-4	Y
n-Propylbenzene	Not detected	ug/L	50	SW8260C	04/27/15 22:50	WAT	103-65-1	Y
Bromobenzene	Not detected	ug/L	50	SW8260C	04/27/15 22:50	WAT	108-86-1	Y
1,3,5-Trimethylbenzene	Not detected	ug/L	50	SW8260C	04/27/15 22:50	WAT	108-67-8	Y
tert-Butylbenzene	Not detected	ug/L	50	SW8260C	04/27/15 22:50	WAT	98-06-6	Y
1,2,4-Trimethylbenzene	Not detected	ug/L	50	SW8260C	04/27/15 22:50	WAT	95-63-6	Y
sec-Butylbenzene	Not detected	ug/L	50	SW8260C	04/27/15 22:50	WAT	135-98-8	Y
p-Isopropyltoluene	Not detected	ug/L	300	SW8260C	04/27/15 22:50	WAT	99-87-6	Y
1,3-Dichlorobenzene	Not detected	ug/L	50	SW8260C	04/27/15 22:50	WAT	541-73-1	Y
1,4-Dichlorobenzene	Not detected	ug/L	50	SW8260C	04/27/15 22:50	WAT	106-46-7	Y
1,2-Dichlorobenzene	Not detected	ug/L	50	SW8260C	04/27/15 22:50	WAT	95-50-1	Y
1,2,3-Trimethylbenzene	Not detected	ug/L	50	SW8260C	04/27/15 22:50	WAT	526-73-8	Y
n-Butylbenzene	Not detected	ug/L	50	SW8260C	04/27/15 22:50	WAT	104-51-8	Y
Hexachloroethane	Not detected	ug/L	300	SW8260C	04/27/15 22:50	WAT	67-72-1	Y
1,2-Dibromo-3-chloropropane	Not detected	ug/L	300	SW8260C	04/27/15 22:50	WAT	96-12-8	Y
1,2,4-Trichlorobenzene	Not detected	ug/L	300	SW8260C	04/27/15 22:50	WAT	120-82-1	Y
1,2,3-Trichlorobenzene	Not detected	ug/L	300	SW8260C	04/27/15 22:50	WAT	87-61-6	Y
Naphthalene	Not detected	ug/L	300	SW8260C	04/27/15 22:50	WAT	91-20-3	Y
2-Methylnaphthalene	Not detected	ug/L	300	SW8260C	04/27/15 22:50	WAT	91-57-6	Y

Y-Elevated reporting limit due to high target concentration



Analytical Laboratory Report

Lab Sample ID: S65289.08
Sample Tag: MW-20_04152015
Collected Date/Time: 04/15/2015 12:40
Matrix: Groundwater
COC Reference: 83518

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	5.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

pH check for VOCs	<2	STD Units		N/A	04/28/15 10:30	LBR		
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Organics - Volatiles

Volatile Organics - DEQ List

Diethyl ether	Not detected	ug/L	10	SW8260C	04/27/15 18:05	WAT	60-29-7	
Acetone	Not detected	ug/L	50	SW8260C	04/27/15 18:05	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	SW8260C	04/27/15 18:05	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	SW8260C	04/27/15 18:05	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW8260C	04/27/15 18:05	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	SW8260C	04/27/15 18:05	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	SW8260C	04/27/15 18:05	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW8260C	04/27/15 18:05	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	SW8260C	04/27/15 18:05	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW8260C	04/27/15 18:05	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	SW8260C	04/27/15 18:05	WAT	74-83-9	
Chloroethane	Not detected	ug/L	5	SW8260C	04/27/15 18:05	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260C	04/27/15 18:05	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260C	04/27/15 18:05	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	SW8260C	04/27/15 18:05	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260C	04/27/15 18:05	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260C	04/27/15 18:05	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260C	04/27/15 18:05	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	SW8260C	04/27/15 18:05	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	SW8260C	04/27/15 18:05	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	SW8260C	04/27/15 18:05	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260C	04/27/15 18:05	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW8260C	04/27/15 18:05	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	SW8260C	04/27/15 18:05	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW8260C	04/27/15 18:05	WAT	56-23-5	
Benzene	Not detected	ug/L	1	SW8260C	04/27/15 18:05	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260C	04/27/15 18:05	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW8260C	04/27/15 18:05	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260C	04/27/15 18:05	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW8260C	04/27/15 18:05	WAT	75-27-4	
Dibromomethane	Not detected	ug/L	5	SW8260C	04/27/15 18:05	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260C	04/27/15 18:05	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	SW8260C	04/27/15 18:05	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260C	04/27/15 18:05	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260C	04/27/15 18:05	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW8260C	04/27/15 18:05	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW8260C	04/27/15 18:05	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	SW8260C	04/27/15 18:05	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260C	04/27/15 18:05	WAT	106-93-4	



Analytical Laboratory Report

Lab Sample ID: S65289.08 (continued)

Sample Tag: MW-20_04152015

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	04/27/15 18:05	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW8260C	04/27/15 18:05	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	SW8260C	04/27/15 18:05	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	SW8260C	04/27/15 18:05	WAT		
o-Xylene	Not detected	ug/L	1	SW8260C	04/27/15 18:05	WAT	95-47-6	
Styrene	Not detected	ug/L	1	SW8260C	04/27/15 18:05	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	SW8260C	04/27/15 18:05	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	SW8260C	04/27/15 18:05	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260C	04/27/15 18:05	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	SW8260C	04/27/15 18:05	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	SW8260C	04/27/15 18:05	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	SW8260C	04/27/15 18:05	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW8260C	04/27/15 18:05	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	SW8260C	04/27/15 18:05	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW8260C	04/27/15 18:05	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	SW8260C	04/27/15 18:05	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	SW8260C	04/27/15 18:05	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260C	04/27/15 18:05	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260C	04/27/15 18:05	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260C	04/27/15 18:05	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW8260C	04/27/15 18:05	WAT	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	SW8260C	04/27/15 18:05	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	SW8260C	04/27/15 18:05	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW8260C	04/27/15 18:05	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW8260C	04/27/15 18:05	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW8260C	04/27/15 18:05	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	SW8260C	04/27/15 18:05	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	SW8260C	04/27/15 18:05	WAT	91-57-6	



Analytical Laboratory Report

Lab Sample ID: S65289.09
Sample Tag: MW-5_04152015
Collected Date/Time: 04/15/2015 12:55
Matrix: Groundwater
COC Reference: 83518

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	5.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

pH check for VOCs	<2	STD Units		N/A	04/28/15 10:30	LBR		
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Organics - Volatiles

Volatile Organics - DEQ List

Diethyl ether	Not detected	ug/L	10	SW8260C	04/27/15 18:27	WAT	60-29-7	
Acetone	Not detected	ug/L	50	SW8260C	04/27/15 18:27	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	SW8260C	04/27/15 18:27	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	SW8260C	04/27/15 18:27	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW8260C	04/27/15 18:27	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	SW8260C	04/27/15 18:27	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	SW8260C	04/27/15 18:27	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW8260C	04/27/15 18:27	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	SW8260C	04/27/15 18:27	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW8260C	04/27/15 18:27	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	SW8260C	04/27/15 18:27	WAT	74-83-9	
Chloroethane	Not detected	ug/L	5	SW8260C	04/27/15 18:27	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260C	04/27/15 18:27	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260C	04/27/15 18:27	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	SW8260C	04/27/15 18:27	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260C	04/27/15 18:27	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260C	04/27/15 18:27	WAT	75-34-3	
cis-1,2-Dichloroethene	8	ug/L	1	SW8260C	04/27/15 18:27	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	SW8260C	04/27/15 18:27	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	SW8260C	04/27/15 18:27	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	SW8260C	04/27/15 18:27	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260C	04/27/15 18:27	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW8260C	04/27/15 18:27	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	SW8260C	04/27/15 18:27	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW8260C	04/27/15 18:27	WAT	56-23-5	
Benzene	Not detected	ug/L	1	SW8260C	04/27/15 18:27	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260C	04/27/15 18:27	WAT	107-06-2	
Trichloroethene	50	ug/L	1	SW8260C	04/27/15 18:27	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260C	04/27/15 18:27	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW8260C	04/27/15 18:27	WAT	75-27-4	
Dibromomethane	Not detected	ug/L	5	SW8260C	04/27/15 18:27	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260C	04/27/15 18:27	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	SW8260C	04/27/15 18:27	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260C	04/27/15 18:27	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260C	04/27/15 18:27	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW8260C	04/27/15 18:27	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW8260C	04/27/15 18:27	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	SW8260C	04/27/15 18:27	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260C	04/27/15 18:27	WAT	106-93-4	



Analytical Laboratory Report

Lab Sample ID: S65289.09 (continued)

Sample Tag: MW-5_04152015

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	04/27/15 18:27	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW8260C	04/27/15 18:27	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	SW8260C	04/27/15 18:27	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	SW8260C	04/27/15 18:27	WAT		
o-Xylene	Not detected	ug/L	1	SW8260C	04/27/15 18:27	WAT	95-47-6	
Styrene	Not detected	ug/L	1	SW8260C	04/27/15 18:27	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	SW8260C	04/27/15 18:27	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	SW8260C	04/27/15 18:27	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260C	04/27/15 18:27	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	SW8260C	04/27/15 18:27	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	SW8260C	04/27/15 18:27	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	SW8260C	04/27/15 18:27	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW8260C	04/27/15 18:27	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	SW8260C	04/27/15 18:27	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW8260C	04/27/15 18:27	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	SW8260C	04/27/15 18:27	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	SW8260C	04/27/15 18:27	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260C	04/27/15 18:27	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260C	04/27/15 18:27	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260C	04/27/15 18:27	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW8260C	04/27/15 18:27	WAT	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	SW8260C	04/27/15 18:27	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	SW8260C	04/27/15 18:27	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW8260C	04/27/15 18:27	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW8260C	04/27/15 18:27	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW8260C	04/27/15 18:27	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	SW8260C	04/27/15 18:27	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	SW8260C	04/27/15 18:27	WAT	91-57-6	



Analytical Laboratory Report

Lab Sample ID: S65289.10
Sample Tag: MW-25_04152015
Collected Date/Time: 04/15/2015 13:30
Matrix: Groundwater
COC Reference: 83518

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	5.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

pH check for VOCs	<2	STD Units		N/A	04/28/15 10:30	LBR		
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Organics - Volatiles

Volatile Organics - DEQ List

Diethyl ether	Not detected	ug/L	10	SW8260C	04/27/15 18:49	WAT	60-29-7	
Acetone	Not detected	ug/L	50	SW8260C	04/27/15 18:49	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	SW8260C	04/27/15 18:49	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	SW8260C	04/27/15 18:49	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW8260C	04/27/15 18:49	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	SW8260C	04/27/15 18:49	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	SW8260C	04/27/15 18:49	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW8260C	04/27/15 18:49	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	SW8260C	04/27/15 18:49	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW8260C	04/27/15 18:49	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	SW8260C	04/27/15 18:49	WAT	74-83-9	
Chloroethane	Not detected	ug/L	5	SW8260C	04/27/15 18:49	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260C	04/27/15 18:49	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260C	04/27/15 18:49	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	SW8260C	04/27/15 18:49	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260C	04/27/15 18:49	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260C	04/27/15 18:49	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260C	04/27/15 18:49	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	SW8260C	04/27/15 18:49	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	SW8260C	04/27/15 18:49	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	SW8260C	04/27/15 18:49	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260C	04/27/15 18:49	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW8260C	04/27/15 18:49	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	SW8260C	04/27/15 18:49	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW8260C	04/27/15 18:49	WAT	56-23-5	
Benzene	Not detected	ug/L	1	SW8260C	04/27/15 18:49	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260C	04/27/15 18:49	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW8260C	04/27/15 18:49	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260C	04/27/15 18:49	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW8260C	04/27/15 18:49	WAT	75-27-4	
Dibromomethane	Not detected	ug/L	5	SW8260C	04/27/15 18:49	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260C	04/27/15 18:49	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	SW8260C	04/27/15 18:49	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260C	04/27/15 18:49	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260C	04/27/15 18:49	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW8260C	04/27/15 18:49	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW8260C	04/27/15 18:49	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	SW8260C	04/27/15 18:49	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260C	04/27/15 18:49	WAT	106-93-4	



Analytical Laboratory Report

Lab Sample ID: S65289.10 (continued)

Sample Tag: MW-25_04152015

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	04/27/15 18:49	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW8260C	04/27/15 18:49	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	SW8260C	04/27/15 18:49	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	SW8260C	04/27/15 18:49	WAT		
o-Xylene	Not detected	ug/L	1	SW8260C	04/27/15 18:49	WAT	95-47-6	
Styrene	Not detected	ug/L	1	SW8260C	04/27/15 18:49	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	SW8260C	04/27/15 18:49	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	SW8260C	04/27/15 18:49	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260C	04/27/15 18:49	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	SW8260C	04/27/15 18:49	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	SW8260C	04/27/15 18:49	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	SW8260C	04/27/15 18:49	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW8260C	04/27/15 18:49	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	SW8260C	04/27/15 18:49	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW8260C	04/27/15 18:49	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	SW8260C	04/27/15 18:49	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	SW8260C	04/27/15 18:49	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260C	04/27/15 18:49	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260C	04/27/15 18:49	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260C	04/27/15 18:49	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW8260C	04/27/15 18:49	WAT	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	SW8260C	04/27/15 18:49	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	SW8260C	04/27/15 18:49	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW8260C	04/27/15 18:49	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW8260C	04/27/15 18:49	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW8260C	04/27/15 18:49	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	SW8260C	04/27/15 18:49	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	SW8260C	04/27/15 18:49	WAT	91-57-6	



Analytical Laboratory Report

Lab Sample ID: S65289.11
Sample Tag: MW-24S_04152015
Collected Date/Time: 04/15/2015 14:25
Matrix: Groundwater
COC Reference: 83518

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	5.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

pH check for VOCs	<2	STD Units		N/A	04/28/15 10:30	LBR		
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Organics - Volatiles

Volatile Organics - DEQ List

Diethyl ether	Not detected	ug/L	10	SW8260C	04/27/15 19:11	WAT	60-29-7	
Acetone	Not detected	ug/L	50	SW8260C	04/27/15 19:11	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	SW8260C	04/27/15 19:11	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	SW8260C	04/27/15 19:11	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW8260C	04/27/15 19:11	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	SW8260C	04/27/15 19:11	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	SW8260C	04/27/15 19:11	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW8260C	04/27/15 19:11	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	SW8260C	04/27/15 19:11	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW8260C	04/27/15 19:11	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	SW8260C	04/27/15 19:11	WAT	74-83-9	
Chloroethane	Not detected	ug/L	5	SW8260C	04/27/15 19:11	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260C	04/27/15 19:11	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260C	04/27/15 19:11	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	SW8260C	04/27/15 19:11	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260C	04/27/15 19:11	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260C	04/27/15 19:11	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260C	04/27/15 19:11	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	SW8260C	04/27/15 19:11	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	SW8260C	04/27/15 19:11	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	SW8260C	04/27/15 19:11	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260C	04/27/15 19:11	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW8260C	04/27/15 19:11	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	SW8260C	04/27/15 19:11	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW8260C	04/27/15 19:11	WAT	56-23-5	
Benzene	Not detected	ug/L	1	SW8260C	04/27/15 19:11	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260C	04/27/15 19:11	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW8260C	04/27/15 19:11	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260C	04/27/15 19:11	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW8260C	04/27/15 19:11	WAT	75-27-4	
Dibromomethane	Not detected	ug/L	5	SW8260C	04/27/15 19:11	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260C	04/27/15 19:11	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	SW8260C	04/27/15 19:11	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260C	04/27/15 19:11	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260C	04/27/15 19:11	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW8260C	04/27/15 19:11	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW8260C	04/27/15 19:11	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	SW8260C	04/27/15 19:11	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260C	04/27/15 19:11	WAT	106-93-4	



Analytical Laboratory Report

Lab Sample ID: S65289.11 (continued)

Sample Tag: MW-24S_04152015

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	04/27/15 19:11	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW8260C	04/27/15 19:11	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	SW8260C	04/27/15 19:11	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	SW8260C	04/27/15 19:11	WAT		
o-Xylene	Not detected	ug/L	1	SW8260C	04/27/15 19:11	WAT	95-47-6	
Styrene	Not detected	ug/L	1	SW8260C	04/27/15 19:11	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	SW8260C	04/27/15 19:11	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	SW8260C	04/27/15 19:11	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260C	04/27/15 19:11	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	SW8260C	04/27/15 19:11	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	SW8260C	04/27/15 19:11	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	SW8260C	04/27/15 19:11	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW8260C	04/27/15 19:11	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	SW8260C	04/27/15 19:11	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW8260C	04/27/15 19:11	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	SW8260C	04/27/15 19:11	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	SW8260C	04/27/15 19:11	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260C	04/27/15 19:11	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260C	04/27/15 19:11	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260C	04/27/15 19:11	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW8260C	04/27/15 19:11	WAT	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	SW8260C	04/27/15 19:11	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	SW8260C	04/27/15 19:11	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW8260C	04/27/15 19:11	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW8260C	04/27/15 19:11	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW8260C	04/27/15 19:11	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	SW8260C	04/27/15 19:11	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	SW8260C	04/27/15 19:11	WAT	91-57-6	



Analytical Laboratory Report

Lab Sample ID: S65289.12
Sample Tag: MW-12_04152015
Collected Date/Time: 04/15/2015 14:35
Matrix: Groundwater
COC Reference: 83518

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	5.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

pH check for VOCs	<2	STD Units		N/A	04/28/15 10:30	LBR		
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Organics - Volatiles

Volatile Organics - DEQ List

Diethyl ether	Not detected	ug/L	10	SW8260C	04/27/15 19:33	WAT	60-29-7	
Acetone	Not detected	ug/L	50	SW8260C	04/27/15 19:33	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	SW8260C	04/27/15 19:33	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	SW8260C	04/27/15 19:33	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW8260C	04/27/15 19:33	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	SW8260C	04/27/15 19:33	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	SW8260C	04/27/15 19:33	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW8260C	04/27/15 19:33	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	SW8260C	04/27/15 19:33	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW8260C	04/27/15 19:33	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	SW8260C	04/27/15 19:33	WAT	74-83-9	
Chloroethane	Not detected	ug/L	5	SW8260C	04/27/15 19:33	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260C	04/27/15 19:33	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260C	04/27/15 19:33	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	SW8260C	04/27/15 19:33	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260C	04/27/15 19:33	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260C	04/27/15 19:33	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260C	04/27/15 19:33	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	SW8260C	04/27/15 19:33	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	SW8260C	04/27/15 19:33	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	SW8260C	04/27/15 19:33	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260C	04/27/15 19:33	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW8260C	04/27/15 19:33	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	SW8260C	04/27/15 19:33	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW8260C	04/27/15 19:33	WAT	56-23-5	
Benzene	Not detected	ug/L	1	SW8260C	04/27/15 19:33	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260C	04/27/15 19:33	WAT	107-06-2	
Trichloroethene	5	ug/L	1	SW8260C	04/27/15 19:33	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260C	04/27/15 19:33	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW8260C	04/27/15 19:33	WAT	75-27-4	
Dibromomethane	Not detected	ug/L	5	SW8260C	04/27/15 19:33	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260C	04/27/15 19:33	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	SW8260C	04/27/15 19:33	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260C	04/27/15 19:33	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260C	04/27/15 19:33	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW8260C	04/27/15 19:33	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW8260C	04/27/15 19:33	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	SW8260C	04/27/15 19:33	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260C	04/27/15 19:33	WAT	106-93-4	



Analytical Laboratory Report

Lab Sample ID: S65289.12 (continued)

Sample Tag: MW-12_04152015

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	04/27/15 19:33	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW8260C	04/27/15 19:33	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	SW8260C	04/27/15 19:33	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	SW8260C	04/27/15 19:33	WAT		
o-Xylene	Not detected	ug/L	1	SW8260C	04/27/15 19:33	WAT	95-47-6	
Styrene	Not detected	ug/L	1	SW8260C	04/27/15 19:33	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	SW8260C	04/27/15 19:33	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	SW8260C	04/27/15 19:33	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260C	04/27/15 19:33	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	SW8260C	04/27/15 19:33	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	SW8260C	04/27/15 19:33	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	SW8260C	04/27/15 19:33	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW8260C	04/27/15 19:33	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	SW8260C	04/27/15 19:33	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW8260C	04/27/15 19:33	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	SW8260C	04/27/15 19:33	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	SW8260C	04/27/15 19:33	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260C	04/27/15 19:33	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260C	04/27/15 19:33	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260C	04/27/15 19:33	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW8260C	04/27/15 19:33	WAT	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	SW8260C	04/27/15 19:33	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	SW8260C	04/27/15 19:33	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW8260C	04/27/15 19:33	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW8260C	04/27/15 19:33	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW8260C	04/27/15 19:33	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	SW8260C	04/27/15 19:33	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	SW8260C	04/27/15 19:33	WAT	91-57-6	



Analytical Laboratory Report

Lab Sample ID: S65289.13
Sample Tag: MW-24D_04152015
Collected Date/Time: 04/15/2015 15:10
Matrix: Groundwater
COC Reference: 83518

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	5.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

pH check for VOCs	<2	STD Units		N/A	04/28/15 10:30	LBR		
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Organics - Volatiles

Volatile Organics - DEQ List

Diethyl ether	Not detected	ug/L	2,000	SW8260C	04/27/15 23:12	WAT	60-29-7	Y
Acetone	Not detected	ug/L	10,000	SW8260C	04/27/15 23:12	WAT	67-64-1	Y
Methyl iodide	Not detected	ug/L	200	SW8260C	04/27/15 23:12	WAT	74-88-4	Y
Carbon disulfide	Not detected	ug/L	1,000	SW8260C	04/27/15 23:12	WAT	75-15-0	Y
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	1,000	SW8260C	04/27/15 23:12	WAT	1634-04-4	Y
Acrylonitrile	Not detected	ug/L	400	SW8260C	04/27/15 23:12	WAT	107-13-1	Y
2-Butanone (MEK)	Not detected	ug/L	5,000	SW8260C	04/27/15 23:12	WAT	78-93-3	Y
Dichlorodifluoromethane	Not detected	ug/L	1,000	SW8260C	04/27/15 23:12	WAT	75-71-8	Y
Chloromethane	Not detected	ug/L	1,000	SW8260C	04/27/15 23:12	WAT	74-87-3	Y
Vinyl chloride	Not detected	ug/L	200	SW8260C	04/27/15 23:12	WAT	75-01-4	Y
Bromomethane	Not detected	ug/L	1,000	SW8260C	04/27/15 23:12	WAT	74-83-9	Y
Chloroethane	Not detected	ug/L	1,000	SW8260C	04/27/15 23:12	WAT	75-00-3	Y
Trichlorofluoromethane	Not detected	ug/L	200	SW8260C	04/27/15 23:12	WAT	75-69-4	Y
1,1-Dichloroethene	Not detected	ug/L	200	SW8260C	04/27/15 23:12	WAT	75-35-4	Y
Methylene chloride	Not detected	ug/L	1,000	SW8260C	04/27/15 23:12	WAT	75-09-2	Y
trans-1,2-Dichloroethene	Not detected	ug/L	200	SW8260C	04/27/15 23:12	WAT	156-60-5	Y
1,1-Dichloroethane	Not detected	ug/L	200	SW8260C	04/27/15 23:12	WAT	75-34-3	Y
cis-1,2-Dichloroethene	Not detected	ug/L	200	SW8260C	04/27/15 23:12	WAT	156-59-2	Y
Tetrahydrofuran	Not detected	ug/L	18,000	SW8260C	04/27/15 23:12	WAT	109-99-9	Y
Chloroform	Not detected	ug/L	200	SW8260C	04/27/15 23:12	WAT	67-66-3	Y
Bromochloromethane	Not detected	ug/L	200	SW8260C	04/27/15 23:12	WAT	74-97-5	Y
1,1,1-Trichloroethane	Not detected	ug/L	200	SW8260C	04/27/15 23:12	WAT	71-55-6	Y
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	10,000	SW8260C	04/27/15 23:12	WAT	108-10-1	Y
2-Hexanone	Not detected	ug/L	10,000	SW8260C	04/27/15 23:12	WAT	591-78-6	Y
Carbon tetrachloride	Not detected	ug/L	200	SW8260C	04/27/15 23:12	WAT	56-23-5	Y
Benzene	20,900	ug/L	200	SW8260C	04/27/15 23:12	WAT	71-43-2	Y
1,2-Dichloroethane	Not detected	ug/L	200	SW8260C	04/27/15 23:12	WAT	107-06-2	Y
Trichloroethene	Not detected	ug/L	200	SW8260C	04/27/15 23:12	WAT	79-01-6	Y
1,2-Dichloropropane	Not detected	ug/L	200	SW8260C	04/27/15 23:12	WAT	78-87-5	Y
Bromodichloromethane	Not detected	ug/L	200	SW8260C	04/27/15 23:12	WAT	75-27-4	Y
Dibromomethane	Not detected	ug/L	1,000	SW8260C	04/27/15 23:12	WAT	74-95-3	Y
cis-1,3-Dichloropropene	Not detected	ug/L	200	SW8260C	04/27/15 23:12	WAT	10061-01-5	Y
Toluene	20,800	ug/L	200	SW8260C	04/27/15 23:12	WAT	108-88-3	Y
trans-1,3-Dichloropropene	Not detected	ug/L	200	SW8260C	04/27/15 23:12	WAT	10061-02-6	Y
1,1,2-Trichloroethane	Not detected	ug/L	200	SW8260C	04/27/15 23:12	WAT	79-00-5	Y
Tetrachloroethene	Not detected	ug/L	200	SW8260C	04/27/15 23:12	WAT	127-18-4	Y
trans-1,4-Dichloro-2-butene	Not detected	ug/L	200	SW8260C	04/27/15 23:12	WAT	110-57-6	Y
Dibromochloromethane	Not detected	ug/L	1,000	SW8260C	04/27/15 23:12	WAT	124-48-1	Y

Y-Elevated reporting limit due to high target concentration



Analytical Laboratory Report

Lab Sample ID: S65289.13 (continued)

Sample Tag: MW-24D_04152015

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	04/27/15 23:12	WAT	106-93-4	Y
Chlorobenzene	Not detected	ug/L	200	SW8260C	04/27/15 23:12	WAT	108-90-7	Y
1,1,1,2-Tetrachloroethane	Not detected	ug/L	200	SW8260C	04/27/15 23:12	WAT	630-20-6	Y
Ethylbenzene	1,200	ug/L	200	SW8260C	04/27/15 23:12	WAT	100-41-4	Y
p,m-Xylene	5,500	ug/L	400	SW8260C	04/27/15 23:12	WAT		Y
o-Xylene	2,700	ug/L	200	SW8260C	04/27/15 23:12	WAT	95-47-6	Y
Styrene	Not detected	ug/L	200	SW8260C	04/27/15 23:12	WAT	100-42-5	Y
Isopropylbenzene	Not detected	ug/L	1,000	SW8260C	04/27/15 23:12	WAT	98-82-8	Y
Bromoform	Not detected	ug/L	200	SW8260C	04/27/15 23:12	WAT	75-25-2	Y
1,1,2,2-Tetrachloroethane	Not detected	ug/L	200	SW8260C	04/27/15 23:12	WAT	79-34-5	Y
1,2,3-Trichloropropane	Not detected	ug/L	200	SW8260C	04/27/15 23:12	WAT	96-18-4	Y
n-Propylbenzene	Not detected	ug/L	200	SW8260C	04/27/15 23:12	WAT	103-65-1	Y
Bromobenzene	Not detected	ug/L	200	SW8260C	04/27/15 23:12	WAT	108-86-1	Y
1,3,5-Trimethylbenzene	Not detected	ug/L	200	SW8260C	04/27/15 23:12	WAT	108-67-8	Y
tert-Butylbenzene	Not detected	ug/L	200	SW8260C	04/27/15 23:12	WAT	98-06-6	Y
1,2,4-Trimethylbenzene	600	ug/L	200	SW8260C	04/27/15 23:12	WAT	95-63-6	Y
sec-Butylbenzene	Not detected	ug/L	200	SW8260C	04/27/15 23:12	WAT	135-98-8	Y
p-Isopropyltoluene	Not detected	ug/L	1,000	SW8260C	04/27/15 23:12	WAT	99-87-6	Y
1,3-Dichlorobenzene	Not detected	ug/L	200	SW8260C	04/27/15 23:12	WAT	541-73-1	Y
1,4-Dichlorobenzene	Not detected	ug/L	200	SW8260C	04/27/15 23:12	WAT	106-46-7	Y
1,2-Dichlorobenzene	Not detected	ug/L	200	SW8260C	04/27/15 23:12	WAT	95-50-1	Y
1,2,3-Trimethylbenzene	200	ug/L	200	SW8260C	04/27/15 23:12	WAT	526-73-8	Y
n-Butylbenzene	Not detected	ug/L	200	SW8260C	04/27/15 23:12	WAT	104-51-8	Y
Hexachloroethane	Not detected	ug/L	1,000	SW8260C	04/27/15 23:12	WAT	67-72-1	Y
1,2-Dibromo-3-chloropropane	Not detected	ug/L	1,000	SW8260C	04/27/15 23:12	WAT	96-12-8	Y
1,2,4-Trichlorobenzene	Not detected	ug/L	1,000	SW8260C	04/27/15 23:12	WAT	120-82-1	Y
1,2,3-Trichlorobenzene	Not detected	ug/L	1,000	SW8260C	04/27/15 23:12	WAT	87-61-6	Y
Naphthalene	Not detected	ug/L	1,000	SW8260C	04/27/15 23:12	WAT	91-20-3	Y
2-Methylnaphthalene	Not detected	ug/L	1,000	SW8260C	04/27/15 23:12	WAT	91-57-6	Y

Y-Elevated reporting limit due to high target concentration



Analytical Laboratory Report

Lab Sample ID: S65289.14
Sample Tag: MW-30_04152015
Collected Date/Time: 04/15/2015 15:55
Matrix: Groundwater
COC Reference: 83518

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	5.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

pH check for VOCs	<2	STD Units		N/A	04/28/15 10:30	LBR		
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Organics - Volatiles

Volatile Organics - DEQ List

Diethyl ether	Not detected	ug/L	10	SW8260C	04/27/15 19:55	WAT	60-29-7	
Acetone	Not detected	ug/L	50	SW8260C	04/27/15 19:55	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	SW8260C	04/27/15 19:55	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	SW8260C	04/27/15 19:55	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW8260C	04/27/15 19:55	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	SW8260C	04/27/15 19:55	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	SW8260C	04/27/15 19:55	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW8260C	04/27/15 19:55	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	SW8260C	04/27/15 19:55	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW8260C	04/27/15 19:55	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	SW8260C	04/27/15 19:55	WAT	74-83-9	
Chloroethane	Not detected	ug/L	5	SW8260C	04/27/15 19:55	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260C	04/27/15 19:55	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260C	04/27/15 19:55	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	SW8260C	04/27/15 19:55	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260C	04/27/15 19:55	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260C	04/27/15 19:55	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260C	04/27/15 19:55	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	SW8260C	04/27/15 19:55	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	SW8260C	04/27/15 19:55	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	SW8260C	04/27/15 19:55	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260C	04/27/15 19:55	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW8260C	04/27/15 19:55	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	SW8260C	04/27/15 19:55	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW8260C	04/27/15 19:55	WAT	56-23-5	
Benzene	Not detected	ug/L	1	SW8260C	04/27/15 19:55	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260C	04/27/15 19:55	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW8260C	04/27/15 19:55	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260C	04/27/15 19:55	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW8260C	04/27/15 19:55	WAT	75-27-4	
Dibromomethane	Not detected	ug/L	5	SW8260C	04/27/15 19:55	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260C	04/27/15 19:55	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	SW8260C	04/27/15 19:55	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260C	04/27/15 19:55	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260C	04/27/15 19:55	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW8260C	04/27/15 19:55	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW8260C	04/27/15 19:55	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	SW8260C	04/27/15 19:55	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260C	04/27/15 19:55	WAT	106-93-4	



Analytical Laboratory Report

Lab Sample ID: S65289.14 (continued)

Sample Tag: MW-30_04152015

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	04/27/15 19:55	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW8260C	04/27/15 19:55	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	SW8260C	04/27/15 19:55	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	SW8260C	04/27/15 19:55	WAT		
o-Xylene	Not detected	ug/L	1	SW8260C	04/27/15 19:55	WAT	95-47-6	
Styrene	Not detected	ug/L	1	SW8260C	04/27/15 19:55	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	SW8260C	04/27/15 19:55	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	SW8260C	04/27/15 19:55	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260C	04/27/15 19:55	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	SW8260C	04/27/15 19:55	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	SW8260C	04/27/15 19:55	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	SW8260C	04/27/15 19:55	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW8260C	04/27/15 19:55	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	SW8260C	04/27/15 19:55	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW8260C	04/27/15 19:55	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	SW8260C	04/27/15 19:55	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	SW8260C	04/27/15 19:55	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260C	04/27/15 19:55	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260C	04/27/15 19:55	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260C	04/27/15 19:55	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW8260C	04/27/15 19:55	WAT	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	SW8260C	04/27/15 19:55	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	SW8260C	04/27/15 19:55	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW8260C	04/27/15 19:55	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW8260C	04/27/15 19:55	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW8260C	04/27/15 19:55	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	SW8260C	04/27/15 19:55	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	SW8260C	04/27/15 19:55	WAT	91-57-6	



Analytical Laboratory Report

Lab Sample ID: S65289.15
Sample Tag: MW-33_04152015
Collected Date/Time: 04/15/2015 16:05
Matrix: Groundwater
COC Reference: 83517

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	5.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

pH check for VOCs	<2	STD Units		N/A	04/28/15 10:30	LBR		
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Organics - Volatiles

Volatile Organics - DEQ List

Diethyl ether	Not detected	ug/L	10	SW8260C	04/27/15 20:17	WAT	60-29-7	
Acetone	Not detected	ug/L	50	SW8260C	04/27/15 20:17	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	SW8260C	04/27/15 20:17	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	SW8260C	04/27/15 20:17	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW8260C	04/27/15 20:17	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	SW8260C	04/27/15 20:17	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	SW8260C	04/27/15 20:17	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW8260C	04/27/15 20:17	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	SW8260C	04/27/15 20:17	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW8260C	04/27/15 20:17	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	SW8260C	04/27/15 20:17	WAT	74-83-9	
Chloroethane	Not detected	ug/L	5	SW8260C	04/27/15 20:17	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260C	04/27/15 20:17	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260C	04/27/15 20:17	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	SW8260C	04/27/15 20:17	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260C	04/27/15 20:17	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260C	04/27/15 20:17	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260C	04/27/15 20:17	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	SW8260C	04/27/15 20:17	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	SW8260C	04/27/15 20:17	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	SW8260C	04/27/15 20:17	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260C	04/27/15 20:17	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW8260C	04/27/15 20:17	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	SW8260C	04/27/15 20:17	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW8260C	04/27/15 20:17	WAT	56-23-5	
Benzene	65	ug/L	1	SW8260C	04/27/15 20:17	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260C	04/27/15 20:17	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW8260C	04/27/15 20:17	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260C	04/27/15 20:17	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW8260C	04/27/15 20:17	WAT	75-27-4	
Dibromomethane	Not detected	ug/L	5	SW8260C	04/27/15 20:17	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260C	04/27/15 20:17	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	SW8260C	04/27/15 20:17	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260C	04/27/15 20:17	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260C	04/27/15 20:17	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW8260C	04/27/15 20:17	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW8260C	04/27/15 20:17	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	SW8260C	04/27/15 20:17	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260C	04/27/15 20:17	WAT	106-93-4	



Analytical Laboratory Report

Lab Sample ID: S65289.15 (continued)

Sample Tag: MW-33_04152015

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	04/27/15 20:17	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW8260C	04/27/15 20:17	WAT	630-20-6	
Ethylbenzene	4	ug/L	1	SW8260C	04/27/15 20:17	WAT	100-41-4	
p,m-Xylene	3	ug/L	2	SW8260C	04/27/15 20:17	WAT		
o-Xylene	Not detected	ug/L	1	SW8260C	04/27/15 20:17	WAT	95-47-6	
Styrene	Not detected	ug/L	1	SW8260C	04/27/15 20:17	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	SW8260C	04/27/15 20:17	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	SW8260C	04/27/15 20:17	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260C	04/27/15 20:17	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	SW8260C	04/27/15 20:17	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	SW8260C	04/27/15 20:17	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	SW8260C	04/27/15 20:17	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW8260C	04/27/15 20:17	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	SW8260C	04/27/15 20:17	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW8260C	04/27/15 20:17	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	SW8260C	04/27/15 20:17	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	SW8260C	04/27/15 20:17	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260C	04/27/15 20:17	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260C	04/27/15 20:17	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260C	04/27/15 20:17	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW8260C	04/27/15 20:17	WAT	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	SW8260C	04/27/15 20:17	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	SW8260C	04/27/15 20:17	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW8260C	04/27/15 20:17	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW8260C	04/27/15 20:17	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW8260C	04/27/15 20:17	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	SW8260C	04/27/15 20:17	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	SW8260C	04/27/15 20:17	WAT	91-57-6	



Analytical Laboratory Report

Lab Sample ID: S65289.16
Sample Tag: MW-11_04152015
Collected Date/Time: 04/15/2015 17:05
Matrix: Groundwater
COC Reference: 83517

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	5.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

pH check for VOCs	<2	STD Units		N/A	04/28/15 10:30	LBR		
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Organics - Volatiles

Volatile Organics - DEQ List

Diethyl ether	Not detected	ug/L	10	SW8260C	04/27/15 20:39	WAT	60-29-7	
Acetone	Not detected	ug/L	50	SW8260C	04/27/15 20:39	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	SW8260C	04/27/15 20:39	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	SW8260C	04/27/15 20:39	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW8260C	04/27/15 20:39	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	SW8260C	04/27/15 20:39	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	SW8260C	04/27/15 20:39	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW8260C	04/27/15 20:39	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	SW8260C	04/27/15 20:39	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW8260C	04/27/15 20:39	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	SW8260C	04/27/15 20:39	WAT	74-83-9	
Chloroethane	Not detected	ug/L	5	SW8260C	04/27/15 20:39	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260C	04/27/15 20:39	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260C	04/27/15 20:39	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	SW8260C	04/27/15 20:39	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260C	04/27/15 20:39	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260C	04/27/15 20:39	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260C	04/27/15 20:39	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	SW8260C	04/27/15 20:39	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	SW8260C	04/27/15 20:39	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	SW8260C	04/27/15 20:39	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260C	04/27/15 20:39	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW8260C	04/27/15 20:39	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	SW8260C	04/27/15 20:39	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW8260C	04/27/15 20:39	WAT	56-23-5	
Benzene	Not detected	ug/L	1	SW8260C	04/27/15 20:39	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260C	04/27/15 20:39	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW8260C	04/27/15 20:39	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260C	04/27/15 20:39	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW8260C	04/27/15 20:39	WAT	75-27-4	
Dibromomethane	Not detected	ug/L	5	SW8260C	04/27/15 20:39	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260C	04/27/15 20:39	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	SW8260C	04/27/15 20:39	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260C	04/27/15 20:39	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260C	04/27/15 20:39	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW8260C	04/27/15 20:39	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW8260C	04/27/15 20:39	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	SW8260C	04/27/15 20:39	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260C	04/27/15 20:39	WAT	106-93-4	



Analytical Laboratory Report

Lab Sample ID: S65289.16 (continued)

Sample Tag: MW-11_04152015

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	04/27/15 20:39	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW8260C	04/27/15 20:39	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	SW8260C	04/27/15 20:39	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	SW8260C	04/27/15 20:39	WAT		
o-Xylene	Not detected	ug/L	1	SW8260C	04/27/15 20:39	WAT	95-47-6	
Styrene	Not detected	ug/L	1	SW8260C	04/27/15 20:39	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	SW8260C	04/27/15 20:39	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	SW8260C	04/27/15 20:39	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260C	04/27/15 20:39	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	SW8260C	04/27/15 20:39	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	SW8260C	04/27/15 20:39	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	SW8260C	04/27/15 20:39	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW8260C	04/27/15 20:39	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	SW8260C	04/27/15 20:39	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW8260C	04/27/15 20:39	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	SW8260C	04/27/15 20:39	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	SW8260C	04/27/15 20:39	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260C	04/27/15 20:39	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260C	04/27/15 20:39	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260C	04/27/15 20:39	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW8260C	04/27/15 20:39	WAT	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	SW8260C	04/27/15 20:39	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	SW8260C	04/27/15 20:39	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW8260C	04/27/15 20:39	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW8260C	04/27/15 20:39	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW8260C	04/27/15 20:39	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	SW8260C	04/27/15 20:39	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	SW8260C	04/27/15 20:39	WAT	91-57-6	



Analytical Laboratory Report

Lab Sample ID: S65289.17
Sample Tag: DUP-01_04152015
Collected Date/Time: 04/15/2015 00:01
Matrix: Groundwater
COC Reference: 83517

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	5.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

pH check for VOCs	<2	STD Units		N/A	04/28/15 10:30	LBR		
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Organics - Volatiles

Volatile Organics - DEQ List

Diethyl ether	Not detected	ug/L	500	SW8260C	04/28/15 21:13	WAT	60-29-7	Y
Acetone	Not detected	ug/L	2,500	SW8260C	04/28/15 21:13	WAT	67-64-1	Y
Methyl iodide	Not detected	ug/L	50	SW8260C	04/28/15 21:13	WAT	74-88-4	Y
Carbon disulfide	Not detected	ug/L	300	SW8260C	04/28/15 21:13	WAT	75-15-0	Y
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	300	SW8260C	04/28/15 21:13	WAT	1634-04-4	Y
Acrylonitrile	Not detected	ug/L	100	SW8260C	04/28/15 21:13	WAT	107-13-1	Y
2-Butanone (MEK)	Not detected	ug/L	1,300	SW8260C	04/28/15 21:13	WAT	78-93-3	Y
Dichlorodifluoromethane	Not detected	ug/L	300	SW8260C	04/28/15 21:13	WAT	75-71-8	Y
Chloromethane	Not detected	ug/L	300	SW8260C	04/28/15 21:13	WAT	74-87-3	Y
Vinyl chloride	Not detected	ug/L	50	SW8260C	04/28/15 21:13	WAT	75-01-4	Y
Bromomethane	Not detected	ug/L	300	SW8260C	04/28/15 21:13	WAT	74-83-9	Y
Chloroethane	Not detected	ug/L	300	SW8260C	04/28/15 21:13	WAT	75-00-3	Y
Trichlorofluoromethane	Not detected	ug/L	50	SW8260C	04/28/15 21:13	WAT	75-69-4	Y
1,1-Dichloroethene	Not detected	ug/L	50	SW8260C	04/28/15 21:13	WAT	75-35-4	Y
Methylene chloride	Not detected	ug/L	300	SW8260C	04/28/15 21:13	WAT	75-09-2	Y
trans-1,2-Dichloroethene	Not detected	ug/L	50	SW8260C	04/28/15 21:13	WAT	156-60-5	Y
1,1-Dichloroethane	Not detected	ug/L	50	SW8260C	04/28/15 21:13	WAT	75-34-3	Y
cis-1,2-Dichloroethene	Not detected	ug/L	50	SW8260C	04/28/15 21:13	WAT	156-59-2	Y
Tetrahydrofuran	Not detected	ug/L	4,500	SW8260C	04/28/15 21:13	WAT	109-99-9	Y
Chloroform	Not detected	ug/L	50	SW8260C	04/28/15 21:13	WAT	67-66-3	Y
Bromochloromethane	Not detected	ug/L	50	SW8260C	04/28/15 21:13	WAT	74-97-5	Y
1,1,1-Trichloroethane	Not detected	ug/L	50	SW8260C	04/28/15 21:13	WAT	71-55-6	Y
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	2,500	SW8260C	04/28/15 21:13	WAT	108-10-1	Y
2-Hexanone	Not detected	ug/L	2,500	SW8260C	04/28/15 21:13	WAT	591-78-6	Y
Carbon tetrachloride	Not detected	ug/L	50	SW8260C	04/28/15 21:13	WAT	56-23-5	Y
Benzene	1,490	ug/L	50	SW8260C	04/28/15 21:13	WAT	71-43-2	Y
1,2-Dichloroethane	Not detected	ug/L	50	SW8260C	04/28/15 21:13	WAT	107-06-2	Y
Trichloroethene	Not detected	ug/L	50	SW8260C	04/28/15 21:13	WAT	79-01-6	Y
1,2-Dichloropropane	Not detected	ug/L	50	SW8260C	04/28/15 21:13	WAT	78-87-5	Y
Bromodichloromethane	Not detected	ug/L	50	SW8260C	04/28/15 21:13	WAT	75-27-4	Y
Dibromomethane	Not detected	ug/L	300	SW8260C	04/28/15 21:13	WAT	74-95-3	Y
cis-1,3-Dichloropropene	Not detected	ug/L	50	SW8260C	04/28/15 21:13	WAT	10061-01-5	Y
Toluene	Not detected	ug/L	50	SW8260C	04/28/15 21:13	WAT	108-88-3	Y
trans-1,3-Dichloropropene	Not detected	ug/L	50	SW8260C	04/28/15 21:13	WAT	10061-02-6	Y
1,1,2-Trichloroethane	Not detected	ug/L	50	SW8260C	04/28/15 21:13	WAT	79-00-5	Y
Tetrachloroethene	Not detected	ug/L	50	SW8260C	04/28/15 21:13	WAT	127-18-4	Y
trans-1,4-Dichloro-2-butene	Not detected	ug/L	50	SW8260C	04/28/15 21:13	WAT	110-57-6	Y
Dibromochloromethane	Not detected	ug/L	300	SW8260C	04/28/15 21:13	WAT	124-48-1	Y

Y-Elevated reporting limit due to high target concentration



Analytical Laboratory Report

Lab Sample ID: S65289.17 (continued)

Sample Tag: DUP-01_04152015

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	04/28/15 21:13	WAT	106-93-4	Y
Chlorobenzene	Not detected	ug/L	50	SW8260C	04/28/15 21:13	WAT	108-90-7	Y
1,1,1,2-Tetrachloroethane	Not detected	ug/L	50	SW8260C	04/28/15 21:13	WAT	630-20-6	Y
Ethylbenzene	Not detected	ug/L	50	SW8260C	04/28/15 21:13	WAT	100-41-4	Y
p,m-Xylene	Not detected	ug/L	100	SW8260C	04/28/15 21:13	WAT		Y
o-Xylene	Not detected	ug/L	50	SW8260C	04/28/15 21:13	WAT	95-47-6	Y
Styrene	Not detected	ug/L	50	SW8260C	04/28/15 21:13	WAT	100-42-5	Y
Isopropylbenzene	Not detected	ug/L	300	SW8260C	04/28/15 21:13	WAT	98-82-8	Y
Bromoform	Not detected	ug/L	50	SW8260C	04/28/15 21:13	WAT	75-25-2	Y
1,1,2,2-Tetrachloroethane	Not detected	ug/L	50	SW8260C	04/28/15 21:13	WAT	79-34-5	Y
1,2,3-Trichloropropane	Not detected	ug/L	50	SW8260C	04/28/15 21:13	WAT	96-18-4	Y
n-Propylbenzene	Not detected	ug/L	50	SW8260C	04/28/15 21:13	WAT	103-65-1	Y
Bromobenzene	Not detected	ug/L	50	SW8260C	04/28/15 21:13	WAT	108-86-1	Y
1,3,5-Trimethylbenzene	Not detected	ug/L	50	SW8260C	04/28/15 21:13	WAT	108-67-8	Y
tert-Butylbenzene	Not detected	ug/L	50	SW8260C	04/28/15 21:13	WAT	98-06-6	Y
1,2,4-Trimethylbenzene	Not detected	ug/L	50	SW8260C	04/28/15 21:13	WAT	95-63-6	Y
sec-Butylbenzene	Not detected	ug/L	50	SW8260C	04/28/15 21:13	WAT	135-98-8	Y
p-Isopropyltoluene	Not detected	ug/L	300	SW8260C	04/28/15 21:13	WAT	99-87-6	Y
1,3-Dichlorobenzene	Not detected	ug/L	50	SW8260C	04/28/15 21:13	WAT	541-73-1	Y
1,4-Dichlorobenzene	Not detected	ug/L	50	SW8260C	04/28/15 21:13	WAT	106-46-7	Y
1,2-Dichlorobenzene	Not detected	ug/L	50	SW8260C	04/28/15 21:13	WAT	95-50-1	Y
1,2,3-Trimethylbenzene	Not detected	ug/L	50	SW8260C	04/28/15 21:13	WAT	526-73-8	Y
n-Butylbenzene	Not detected	ug/L	50	SW8260C	04/28/15 21:13	WAT	104-51-8	Y
Hexachloroethane	Not detected	ug/L	300	SW8260C	04/28/15 21:13	WAT	67-72-1	Y
1,2-Dibromo-3-chloropropane	Not detected	ug/L	300	SW8260C	04/28/15 21:13	WAT	96-12-8	Y
1,2,4-Trichlorobenzene	Not detected	ug/L	300	SW8260C	04/28/15 21:13	WAT	120-82-1	Y
1,2,3-Trichlorobenzene	Not detected	ug/L	300	SW8260C	04/28/15 21:13	WAT	87-61-6	Y
Naphthalene	Not detected	ug/L	300	SW8260C	04/28/15 21:13	WAT	91-20-3	Y
2-Methylnaphthalene	Not detected	ug/L	300	SW8260C	04/28/15 21:13	WAT	91-57-6	Y

Y-Elevated reporting limit due to high target concentration



Analytical Laboratory Report

Lab Sample ID: S65289.18
Sample Tag: DUP-02_04152015
Collected Date/Time: 04/15/2015 00:01
Matrix: Groundwater
COC Reference: 83517

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	5.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

pH check for VOCs	<2	STD Units		N/A	04/28/15 10:30	LBR		
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Organics - Volatiles

Volatile Organics - DEQ List

Diethyl ether	Not detected	ug/L	10	SW8260C	04/27/15 22:06	WAT	60-29-7	
Acetone	Not detected	ug/L	50	SW8260C	04/27/15 22:06	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	SW8260C	04/27/15 22:06	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	SW8260C	04/27/15 22:06	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW8260C	04/27/15 22:06	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	SW8260C	04/27/15 22:06	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	SW8260C	04/27/15 22:06	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW8260C	04/27/15 22:06	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	SW8260C	04/27/15 22:06	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW8260C	04/27/15 22:06	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	SW8260C	04/27/15 22:06	WAT	74-83-9	
Chloroethane	Not detected	ug/L	5	SW8260C	04/27/15 22:06	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260C	04/27/15 22:06	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260C	04/27/15 22:06	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	SW8260C	04/27/15 22:06	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260C	04/27/15 22:06	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260C	04/27/15 22:06	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260C	04/27/15 22:06	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	SW8260C	04/27/15 22:06	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	SW8260C	04/27/15 22:06	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	SW8260C	04/27/15 22:06	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260C	04/27/15 22:06	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW8260C	04/27/15 22:06	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	SW8260C	04/27/15 22:06	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW8260C	04/27/15 22:06	WAT	56-23-5	
Benzene	Not detected	ug/L	1	SW8260C	04/27/15 22:06	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260C	04/27/15 22:06	WAT	107-06-2	
Trichloroethene	5	ug/L	1	SW8260C	04/27/15 22:06	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260C	04/27/15 22:06	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW8260C	04/27/15 22:06	WAT	75-27-4	
Dibromomethane	Not detected	ug/L	5	SW8260C	04/27/15 22:06	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260C	04/27/15 22:06	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	SW8260C	04/27/15 22:06	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260C	04/27/15 22:06	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260C	04/27/15 22:06	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW8260C	04/27/15 22:06	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW8260C	04/27/15 22:06	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	SW8260C	04/27/15 22:06	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260C	04/27/15 22:06	WAT	106-93-4	



Analytical Laboratory Report

Lab Sample ID: S65289.18 (continued)

Sample Tag: DUP-02_04152015

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	04/27/15 22:06	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW8260C	04/27/15 22:06	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	SW8260C	04/27/15 22:06	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	SW8260C	04/27/15 22:06	WAT		
o-Xylene	Not detected	ug/L	1	SW8260C	04/27/15 22:06	WAT	95-47-6	
Styrene	Not detected	ug/L	1	SW8260C	04/27/15 22:06	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	SW8260C	04/27/15 22:06	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	SW8260C	04/27/15 22:06	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260C	04/27/15 22:06	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	SW8260C	04/27/15 22:06	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	SW8260C	04/27/15 22:06	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	SW8260C	04/27/15 22:06	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW8260C	04/27/15 22:06	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	SW8260C	04/27/15 22:06	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW8260C	04/27/15 22:06	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	SW8260C	04/27/15 22:06	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	SW8260C	04/27/15 22:06	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260C	04/27/15 22:06	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260C	04/27/15 22:06	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260C	04/27/15 22:06	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW8260C	04/27/15 22:06	WAT	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	SW8260C	04/27/15 22:06	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	SW8260C	04/27/15 22:06	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW8260C	04/27/15 22:06	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW8260C	04/27/15 22:06	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW8260C	04/27/15 22:06	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	SW8260C	04/27/15 22:06	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	SW8260C	04/27/15 22:06	WAT	91-57-6	



Analytical Laboratory Report

Lab Sample ID: S65289.19
Sample Tag: DUP-03_04152015
Collected Date/Time: 04/15/2015 00:01
Matrix: Groundwater
COC Reference: 83517

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	5.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

pH check for VOCs	<2	STD Units		N/A	04/28/15 10:30	LBR		
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Organics - Volatiles

Volatile Organics - DEQ List

Diethyl ether	Not detected	ug/L	2,000	SW8260C	04/27/15 23:33	WAT	60-29-7	Y
Acetone	Not detected	ug/L	10,000	SW8260C	04/27/15 23:33	WAT	67-64-1	Y
Methyl iodide	Not detected	ug/L	200	SW8260C	04/27/15 23:33	WAT	74-88-4	Y
Carbon disulfide	Not detected	ug/L	1,000	SW8260C	04/27/15 23:33	WAT	75-15-0	Y
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	1,000	SW8260C	04/27/15 23:33	WAT	1634-04-4	Y
Acrylonitrile	Not detected	ug/L	400	SW8260C	04/27/15 23:33	WAT	107-13-1	Y
2-Butanone (MEK)	Not detected	ug/L	5,000	SW8260C	04/27/15 23:33	WAT	78-93-3	Y
Dichlorodifluoromethane	Not detected	ug/L	1,000	SW8260C	04/27/15 23:33	WAT	75-71-8	Y
Chloromethane	Not detected	ug/L	1,000	SW8260C	04/27/15 23:33	WAT	74-87-3	Y
Vinyl chloride	Not detected	ug/L	200	SW8260C	04/27/15 23:33	WAT	75-01-4	Y
Bromomethane	Not detected	ug/L	1,000	SW8260C	04/27/15 23:33	WAT	74-83-9	Y
Chloroethane	Not detected	ug/L	1,000	SW8260C	04/27/15 23:33	WAT	75-00-3	Y
Trichlorofluoromethane	Not detected	ug/L	200	SW8260C	04/27/15 23:33	WAT	75-69-4	Y
1,1-Dichloroethene	Not detected	ug/L	200	SW8260C	04/27/15 23:33	WAT	75-35-4	Y
Methylene chloride	Not detected	ug/L	1,000	SW8260C	04/27/15 23:33	WAT	75-09-2	Y
trans-1,2-Dichloroethene	Not detected	ug/L	200	SW8260C	04/27/15 23:33	WAT	156-60-5	Y
1,1-Dichloroethane	Not detected	ug/L	200	SW8260C	04/27/15 23:33	WAT	75-34-3	Y
cis-1,2-Dichloroethene	Not detected	ug/L	200	SW8260C	04/27/15 23:33	WAT	156-59-2	Y
Tetrahydrofuran	Not detected	ug/L	18,000	SW8260C	04/27/15 23:33	WAT	109-99-9	Y
Chloroform	Not detected	ug/L	200	SW8260C	04/27/15 23:33	WAT	67-66-3	Y
Bromochloromethane	Not detected	ug/L	200	SW8260C	04/27/15 23:33	WAT	74-97-5	Y
1,1,1-Trichloroethane	Not detected	ug/L	200	SW8260C	04/27/15 23:33	WAT	71-55-6	Y
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	10,000	SW8260C	04/27/15 23:33	WAT	108-10-1	Y
2-Hexanone	Not detected	ug/L	10,000	SW8260C	04/27/15 23:33	WAT	591-78-6	Y
Carbon tetrachloride	Not detected	ug/L	200	SW8260C	04/27/15 23:33	WAT	56-23-5	Y
Benzene	20,500	ug/L	200	SW8260C	04/27/15 23:33	WAT	71-43-2	Y
1,2-Dichloroethane	Not detected	ug/L	200	SW8260C	04/27/15 23:33	WAT	107-06-2	Y
Trichloroethene	Not detected	ug/L	200	SW8260C	04/27/15 23:33	WAT	79-01-6	Y
1,2-Dichloropropane	Not detected	ug/L	200	SW8260C	04/27/15 23:33	WAT	78-87-5	Y
Bromodichloromethane	Not detected	ug/L	200	SW8260C	04/27/15 23:33	WAT	75-27-4	Y
Dibromomethane	Not detected	ug/L	1,000	SW8260C	04/27/15 23:33	WAT	74-95-3	Y
cis-1,3-Dichloropropene	Not detected	ug/L	200	SW8260C	04/27/15 23:33	WAT	10061-01-5	Y
Toluene	20,700	ug/L	200	SW8260C	04/27/15 23:33	WAT	108-88-3	Y
trans-1,3-Dichloropropene	Not detected	ug/L	200	SW8260C	04/27/15 23:33	WAT	10061-02-6	Y
1,1,2-Trichloroethane	Not detected	ug/L	200	SW8260C	04/27/15 23:33	WAT	79-00-5	Y
Tetrachloroethene	Not detected	ug/L	200	SW8260C	04/27/15 23:33	WAT	127-18-4	Y
trans-1,4-Dichloro-2-butene	Not detected	ug/L	200	SW8260C	04/27/15 23:33	WAT	110-57-6	Y
Dibromochloromethane	Not detected	ug/L	1,000	SW8260C	04/27/15 23:33	WAT	124-48-1	Y

Y-Elevated reporting limit due to high target concentration



Analytical Laboratory Report

Lab Sample ID: S65289.19 (continued)

Sample Tag: DUP-03_04152015

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	04/27/15 23:33	WAT	106-93-4	Y
Chlorobenzene	Not detected	ug/L	200	SW8260C	04/27/15 23:33	WAT	108-90-7	Y
1,1,1,2-Tetrachloroethane	Not detected	ug/L	200	SW8260C	04/27/15 23:33	WAT	630-20-6	Y
Ethylbenzene	1,300	ug/L	200	SW8260C	04/27/15 23:33	WAT	100-41-4	Y
p,m-Xylene	5,500	ug/L	400	SW8260C	04/27/15 23:33	WAT		Y
o-Xylene	2,700	ug/L	200	SW8260C	04/27/15 23:33	WAT	95-47-6	Y
Styrene	Not detected	ug/L	200	SW8260C	04/27/15 23:33	WAT	100-42-5	Y
Isopropylbenzene	Not detected	ug/L	1,000	SW8260C	04/27/15 23:33	WAT	98-82-8	Y
Bromoform	Not detected	ug/L	200	SW8260C	04/27/15 23:33	WAT	75-25-2	Y
1,1,2,2-Tetrachloroethane	Not detected	ug/L	200	SW8260C	04/27/15 23:33	WAT	79-34-5	Y
1,2,3-Trichloropropane	Not detected	ug/L	200	SW8260C	04/27/15 23:33	WAT	96-18-4	Y
n-Propylbenzene	Not detected	ug/L	200	SW8260C	04/27/15 23:33	WAT	103-65-1	Y
Bromobenzene	Not detected	ug/L	200	SW8260C	04/27/15 23:33	WAT	108-86-1	Y
1,3,5-Trimethylbenzene	Not detected	ug/L	200	SW8260C	04/27/15 23:33	WAT	108-67-8	Y
tert-Butylbenzene	Not detected	ug/L	200	SW8260C	04/27/15 23:33	WAT	98-06-6	Y
1,2,4-Trimethylbenzene	600	ug/L	200	SW8260C	04/27/15 23:33	WAT	95-63-6	Y
sec-Butylbenzene	Not detected	ug/L	200	SW8260C	04/27/15 23:33	WAT	135-98-8	Y
p-Isopropyltoluene	Not detected	ug/L	1,000	SW8260C	04/27/15 23:33	WAT	99-87-6	Y
1,3-Dichlorobenzene	Not detected	ug/L	200	SW8260C	04/27/15 23:33	WAT	541-73-1	Y
1,4-Dichlorobenzene	Not detected	ug/L	200	SW8260C	04/27/15 23:33	WAT	106-46-7	Y
1,2-Dichlorobenzene	Not detected	ug/L	200	SW8260C	04/27/15 23:33	WAT	95-50-1	Y
1,2,3-Trimethylbenzene	200	ug/L	200	SW8260C	04/27/15 23:33	WAT	526-73-8	Y
n-Butylbenzene	Not detected	ug/L	200	SW8260C	04/27/15 23:33	WAT	104-51-8	Y
Hexachloroethane	Not detected	ug/L	1,000	SW8260C	04/27/15 23:33	WAT	67-72-1	Y
1,2-Dibromo-3-chloropropane	Not detected	ug/L	1,000	SW8260C	04/27/15 23:33	WAT	96-12-8	Y
1,2,4-Trichlorobenzene	Not detected	ug/L	1,000	SW8260C	04/27/15 23:33	WAT	120-82-1	Y
1,2,3-Trichlorobenzene	Not detected	ug/L	1,000	SW8260C	04/27/15 23:33	WAT	87-61-6	Y
Naphthalene	Not detected	ug/L	1,000	SW8260C	04/27/15 23:33	WAT	91-20-3	Y
2-Methylnaphthalene	Not detected	ug/L	1,000	SW8260C	04/27/15 23:33	WAT	91-57-6	Y

Y-Elevated reporting limit due to high target concentration



Analytical Laboratory Report

Lab Sample ID: S65289.20
Sample Tag: Trip Blank
Collected Date/Time: 04/15/2015 00:01
Matrix: Groundwater
COC Reference: 83517

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	5.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

pH check for VOCs	<2	STD Units		N/A	04/28/15 10:30	LBR		
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Organics - Volatiles

Volatile Organics - DEQ List

Diethyl ether	Not detected	ug/L	10	SW8260C	04/27/15 21:01	WAT	60-29-7	
Acetone	Not detected	ug/L	50	SW8260C	04/27/15 21:01	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	SW8260C	04/27/15 21:01	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	SW8260C	04/27/15 21:01	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW8260C	04/27/15 21:01	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	SW8260C	04/27/15 21:01	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	SW8260C	04/27/15 21:01	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW8260C	04/27/15 21:01	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	SW8260C	04/27/15 21:01	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW8260C	04/27/15 21:01	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	SW8260C	04/27/15 21:01	WAT	74-83-9	
Chloroethane	Not detected	ug/L	5	SW8260C	04/27/15 21:01	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260C	04/27/15 21:01	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260C	04/27/15 21:01	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	SW8260C	04/27/15 21:01	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260C	04/27/15 21:01	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260C	04/27/15 21:01	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260C	04/27/15 21:01	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	SW8260C	04/27/15 21:01	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	SW8260C	04/27/15 21:01	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	SW8260C	04/27/15 21:01	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260C	04/27/15 21:01	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW8260C	04/27/15 21:01	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	SW8260C	04/27/15 21:01	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW8260C	04/27/15 21:01	WAT	56-23-5	
Benzene	Not detected	ug/L	1	SW8260C	04/27/15 21:01	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260C	04/27/15 21:01	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW8260C	04/27/15 21:01	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260C	04/27/15 21:01	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW8260C	04/27/15 21:01	WAT	75-27-4	
Dibromomethane	Not detected	ug/L	5	SW8260C	04/27/15 21:01	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260C	04/27/15 21:01	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	SW8260C	04/27/15 21:01	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260C	04/27/15 21:01	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260C	04/27/15 21:01	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW8260C	04/27/15 21:01	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW8260C	04/27/15 21:01	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	SW8260C	04/27/15 21:01	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260C	04/27/15 21:01	WAT	106-93-4	



Analytical Laboratory Report

Lab Sample ID: S65289.20 (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	04/27/15 21:01	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW8260C	04/27/15 21:01	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	SW8260C	04/27/15 21:01	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	SW8260C	04/27/15 21:01	WAT		
o-Xylene	Not detected	ug/L	1	SW8260C	04/27/15 21:01	WAT	95-47-6	
Styrene	Not detected	ug/L	1	SW8260C	04/27/15 21:01	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	SW8260C	04/27/15 21:01	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	SW8260C	04/27/15 21:01	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260C	04/27/15 21:01	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	SW8260C	04/27/15 21:01	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	SW8260C	04/27/15 21:01	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	SW8260C	04/27/15 21:01	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW8260C	04/27/15 21:01	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	SW8260C	04/27/15 21:01	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW8260C	04/27/15 21:01	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	SW8260C	04/27/15 21:01	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	SW8260C	04/27/15 21:01	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260C	04/27/15 21:01	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260C	04/27/15 21:01	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260C	04/27/15 21:01	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW8260C	04/27/15 21:01	WAT	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	SW8260C	04/27/15 21:01	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	SW8260C	04/27/15 21:01	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW8260C	04/27/15 21:01	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW8260C	04/27/15 21:01	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW8260C	04/27/15 21:01	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	SW8260C	04/27/15 21:01	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	SW8260C	04/27/15 21:01	WAT	91-57-6	



Analytical Laboratory Report

Lab Sample ID: S65289.21
Sample Tag: MW-31_04162015
Collected Date/Time: 04/16/2015 07:50
Matrix: Groundwater
COC Reference: 83517

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	5.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

pH check for VOCs	<2	STD Units		N/A	04/28/15 10:30	LBR		
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Organics - Volatiles

Volatile Organics - DEQ List

Diethyl ether	Not detected	ug/L	10	SW8260C	04/27/15 21:23	WAT	60-29-7	
Acetone	Not detected	ug/L	50	SW8260C	04/27/15 21:23	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	SW8260C	04/27/15 21:23	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	SW8260C	04/27/15 21:23	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW8260C	04/27/15 21:23	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	SW8260C	04/27/15 21:23	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	SW8260C	04/27/15 21:23	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW8260C	04/27/15 21:23	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	SW8260C	04/27/15 21:23	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW8260C	04/27/15 21:23	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	SW8260C	04/27/15 21:23	WAT	74-83-9	
Chloroethane	Not detected	ug/L	5	SW8260C	04/27/15 21:23	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260C	04/27/15 21:23	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260C	04/27/15 21:23	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	SW8260C	04/27/15 21:23	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260C	04/27/15 21:23	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260C	04/27/15 21:23	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260C	04/27/15 21:23	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	SW8260C	04/27/15 21:23	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	SW8260C	04/27/15 21:23	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	SW8260C	04/27/15 21:23	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260C	04/27/15 21:23	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW8260C	04/27/15 21:23	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	SW8260C	04/27/15 21:23	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW8260C	04/27/15 21:23	WAT	56-23-5	
Benzene	Not detected	ug/L	1	SW8260C	04/27/15 21:23	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260C	04/27/15 21:23	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW8260C	04/27/15 21:23	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260C	04/27/15 21:23	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW8260C	04/27/15 21:23	WAT	75-27-4	
Dibromomethane	Not detected	ug/L	5	SW8260C	04/27/15 21:23	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260C	04/27/15 21:23	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	SW8260C	04/27/15 21:23	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260C	04/27/15 21:23	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260C	04/27/15 21:23	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW8260C	04/27/15 21:23	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW8260C	04/27/15 21:23	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	SW8260C	04/27/15 21:23	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260C	04/27/15 21:23	WAT	106-93-4	



Analytical Laboratory Report

Lab Sample ID: S65289.21 (continued)

Sample Tag: MW-31_04162015

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	04/27/15 21:23	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW8260C	04/27/15 21:23	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	SW8260C	04/27/15 21:23	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	SW8260C	04/27/15 21:23	WAT		
o-Xylene	Not detected	ug/L	1	SW8260C	04/27/15 21:23	WAT	95-47-6	
Styrene	Not detected	ug/L	1	SW8260C	04/27/15 21:23	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	SW8260C	04/27/15 21:23	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	SW8260C	04/27/15 21:23	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260C	04/27/15 21:23	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	SW8260C	04/27/15 21:23	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	SW8260C	04/27/15 21:23	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	SW8260C	04/27/15 21:23	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW8260C	04/27/15 21:23	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	SW8260C	04/27/15 21:23	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW8260C	04/27/15 21:23	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	SW8260C	04/27/15 21:23	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	SW8260C	04/27/15 21:23	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260C	04/27/15 21:23	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260C	04/27/15 21:23	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260C	04/27/15 21:23	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW8260C	04/27/15 21:23	WAT	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	SW8260C	04/27/15 21:23	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	SW8260C	04/27/15 21:23	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW8260C	04/27/15 21:23	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW8260C	04/27/15 21:23	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW8260C	04/27/15 21:23	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	SW8260C	04/27/15 21:23	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	SW8260C	04/27/15 21:23	WAT	91-57-6	



Analytical Laboratory Report

Lab Sample ID: S65289.22
Sample Tag: MW-21_04162015
Collected Date/Time: 04/16/2015 10:40
Matrix: Groundwater
COC Reference: 83517

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	5.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

pH check for VOCs	<2	STD Units		N/A	04/30/15 10:55	LBR		
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Organics - Volatiles

Volatile Organics - DEQ List

Diethyl ether	Not detected	ug/L	10	SW8260C	04/29/15 15:32	WAT	60-29-7	
Acetone	Not detected	ug/L	50	SW8260C	04/29/15 15:32	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	SW8260C	04/29/15 15:32	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	SW8260C	04/29/15 15:32	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW8260C	04/29/15 15:32	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	SW8260C	04/29/15 15:32	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	SW8260C	04/29/15 15:32	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW8260C	04/29/15 15:32	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	SW8260C	04/29/15 15:32	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW8260C	04/29/15 15:32	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	SW8260C	04/29/15 15:32	WAT	74-83-9	
Chloroethane	Not detected	ug/L	5	SW8260C	04/29/15 15:32	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260C	04/29/15 15:32	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260C	04/29/15 15:32	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	SW8260C	04/29/15 15:32	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260C	04/29/15 15:32	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260C	04/29/15 15:32	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260C	04/29/15 15:32	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	SW8260C	04/29/15 15:32	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	SW8260C	04/29/15 15:32	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	SW8260C	04/29/15 15:32	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260C	04/29/15 15:32	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW8260C	04/29/15 15:32	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	SW8260C	04/29/15 15:32	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW8260C	04/29/15 15:32	WAT	56-23-5	
Benzene	Not detected	ug/L	1	SW8260C	04/29/15 15:32	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260C	04/29/15 15:32	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW8260C	04/29/15 15:32	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260C	04/29/15 15:32	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW8260C	04/29/15 15:32	WAT	75-27-4	
Dibromomethane	Not detected	ug/L	5	SW8260C	04/29/15 15:32	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260C	04/29/15 15:32	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	SW8260C	04/29/15 15:32	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260C	04/29/15 15:32	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260C	04/29/15 15:32	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW8260C	04/29/15 15:32	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW8260C	04/29/15 15:32	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	SW8260C	04/29/15 15:32	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260C	04/29/15 15:32	WAT	106-93-4	



Analytical Laboratory Report

Lab Sample ID: S65289.22 (continued)

Sample Tag: MW-21_04162015

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	04/29/15 15:32	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW8260C	04/29/15 15:32	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	SW8260C	04/29/15 15:32	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	SW8260C	04/29/15 15:32	WAT		
o-Xylene	Not detected	ug/L	1	SW8260C	04/29/15 15:32	WAT	95-47-6	
Styrene	Not detected	ug/L	1	SW8260C	04/29/15 15:32	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	SW8260C	04/29/15 15:32	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	SW8260C	04/29/15 15:32	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260C	04/29/15 15:32	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	SW8260C	04/29/15 15:32	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	SW8260C	04/29/15 15:32	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	SW8260C	04/29/15 15:32	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW8260C	04/29/15 15:32	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	SW8260C	04/29/15 15:32	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW8260C	04/29/15 15:32	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	SW8260C	04/29/15 15:32	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	SW8260C	04/29/15 15:32	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260C	04/29/15 15:32	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260C	04/29/15 15:32	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260C	04/29/15 15:32	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW8260C	04/29/15 15:32	WAT	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	SW8260C	04/29/15 15:32	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	SW8260C	04/29/15 15:32	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW8260C	04/29/15 15:32	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW8260C	04/29/15 15:32	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW8260C	04/29/15 15:32	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	SW8260C	04/29/15 15:32	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	SW8260C	04/29/15 15:32	WAT	91-57-6	



Analytical Laboratory Report

Lab Sample ID: S65289.23
Sample Tag: MW-21_04162015 MS
Collected Date/Time: 04/16/2015 10:40
Matrix: Groundwater
COC Reference: 83517

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	5.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

pH check for VOCs	<2	STD Units		N/A	04/30/15 10:55	LBR		
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Organics - Volatiles

Volatile Organics - DEQ List

Diethyl ether	45	ug/L	10	SW8260C	04/29/15 13:28	WAT	60-29-7	1
Acetone	Not detected	ug/L	50	SW8260C	04/29/15 13:28	WAT	67-64-1	1
Methyl iodide	48	ug/L	1	SW8260C	04/29/15 13:28	WAT	74-88-4	1
Carbon disulfide	37	ug/L	5	SW8260C	04/29/15 13:28	WAT	75-15-0	1
tert-Methyl butyl ether (MTBE)	50	ug/L	5	SW8260C	04/29/15 13:28	WAT	1634-04-4	1
Acrylonitrile	46	ug/L	2	SW8260C	04/29/15 13:28	WAT	107-13-1	1
2-Butanone (MEK)	46	ug/L	25	SW8260C	04/29/15 13:28	WAT	78-93-3	1
Dichlorodifluoromethane	38	ug/L	5	SW8260C	04/29/15 13:28	WAT	75-71-8	1
Chloromethane	43	ug/L	5	SW8260C	04/29/15 13:28	WAT	74-87-3	1
Vinyl chloride	43	ug/L	1	SW8260C	04/29/15 13:28	WAT	75-01-4	1
Bromomethane	49	ug/L	5	SW8260C	04/29/15 13:28	WAT	74-83-9	1
Chloroethane	54	ug/L	5	SW8260C	04/29/15 13:28	WAT	75-00-3	1
Trichlorofluoromethane	46	ug/L	1	SW8260C	04/29/15 13:28	WAT	75-69-4	1
1,1-Dichloroethene	46	ug/L	1	SW8260C	04/29/15 13:28	WAT	75-35-4	1
Methylene chloride	45	ug/L	5	SW8260C	04/29/15 13:28	WAT	75-09-2	1
trans-1,2-Dichloroethene	47	ug/L	1	SW8260C	04/29/15 13:28	WAT	156-60-5	1
1,1-Dichloroethane	47	ug/L	1	SW8260C	04/29/15 13:28	WAT	75-34-3	1
cis-1,2-Dichloroethene	49	ug/L	1	SW8260C	04/29/15 13:28	WAT	156-59-2	1
Tetrahydrofuran	Not detected	ug/L	90	SW8260C	04/29/15 13:28	WAT	109-99-9	1
Chloroform	49	ug/L	1	SW8260C	04/29/15 13:28	WAT	67-66-3	1
Bromochloromethane	50	ug/L	1	SW8260C	04/29/15 13:28	WAT	74-97-5	1
1,1,1-Trichloroethane	52	ug/L	1	SW8260C	04/29/15 13:28	WAT	71-55-6	1
4-Methyl-2-pentanone (MIBK)	57	ug/L	50	SW8260C	04/29/15 13:28	WAT	108-10-1	1
2-Hexanone	51	ug/L	50	SW8260C	04/29/15 13:28	WAT	591-78-6	1
Carbon tetrachloride	53	ug/L	1	SW8260C	04/29/15 13:28	WAT	56-23-5	1
Benzene	48	ug/L	1	SW8260C	04/29/15 13:28	WAT	71-43-2	1
1,2-Dichloroethane	48	ug/L	1	SW8260C	04/29/15 13:28	WAT	107-06-2	1
Trichloroethene	49	ug/L	1	SW8260C	04/29/15 13:28	WAT	79-01-6	1
1,2-Dichloropropane	49	ug/L	1	SW8260C	04/29/15 13:28	WAT	78-87-5	1
Bromodichloromethane	52	ug/L	1	SW8260C	04/29/15 13:28	WAT	75-27-4	1
Dibromomethane	53	ug/L	5	SW8260C	04/29/15 13:28	WAT	74-95-3	1
cis-1,3-Dichloropropene	49	ug/L	1	SW8260C	04/29/15 13:28	WAT	10061-01-5	1
Toluene	49	ug/L	1	SW8260C	04/29/15 13:28	WAT	108-88-3	1
trans-1,3-Dichloropropene	49	ug/L	1	SW8260C	04/29/15 13:28	WAT	10061-02-6	1
1,1,2-Trichloroethane	50	ug/L	1	SW8260C	04/29/15 13:28	WAT	79-00-5	1
Tetrachloroethene	53	ug/L	1	SW8260C	04/29/15 13:28	WAT	127-18-4	1
trans-1,4-Dichloro-2-butene	48	ug/L	1	SW8260C	04/29/15 13:28	WAT	110-57-6	1
Dibromochloromethane	53	ug/L	5	SW8260C	04/29/15 13:28	WAT	124-48-1	1

1-Spiked at 50ug/l



Analytical Laboratory Report

Lab Sample ID: S65289.23 (continued)

Sample Tag: MW-21_04162015 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	04/29/15 13:28	WAT	106-93-4	1
Chlorobenzene	49	ug/L	1	SW8260C	04/29/15 13:28	WAT	108-90-7	1
1,1,1,2-Tetrachloroethane	51	ug/L	1	SW8260C	04/29/15 13:28	WAT	630-20-6	1
Ethylbenzene	48	ug/L	1	SW8260C	04/29/15 13:28	WAT	100-41-4	1
p,m-Xylene	91	ug/L	2	SW8260C	04/29/15 13:28	WAT		1
o-Xylene	48	ug/L	1	SW8260C	04/29/15 13:28	WAT	95-47-6	1
Styrene	34	ug/L	1	SW8260C	04/29/15 13:28	WAT	100-42-5	1
Isopropylbenzene	49	ug/L	5	SW8260C	04/29/15 13:28	WAT	98-82-8	1
Bromoform	48	ug/L	1	SW8260C	04/29/15 13:28	WAT	75-25-2	1
1,1,2,2-Tetrachloroethane	50	ug/L	1	SW8260C	04/29/15 13:28	WAT	79-34-5	1
1,2,3-Trichloropropane	52	ug/L	1	SW8260C	04/29/15 13:28	WAT	96-18-4	1
n-Propylbenzene	49	ug/L	1	SW8260C	04/29/15 13:28	WAT	103-65-1	1
Bromobenzene	51	ug/L	1	SW8260C	04/29/15 13:28	WAT	108-86-1	1
1,3,5-Trimethylbenzene	42	ug/L	1	SW8260C	04/29/15 13:28	WAT	108-67-8	1
tert-Butylbenzene	47	ug/L	1	SW8260C	04/29/15 13:28	WAT	98-06-6	1
1,2,4-Trimethylbenzene	42	ug/L	1	SW8260C	04/29/15 13:28	WAT	95-63-6	1
sec-Butylbenzene	46	ug/L	1	SW8260C	04/29/15 13:28	WAT	135-98-8	1
p-Isopropyltoluene	45	ug/L	5	SW8260C	04/29/15 13:28	WAT	99-87-6	1
1,3-Dichlorobenzene	45	ug/L	1	SW8260C	04/29/15 13:28	WAT	541-73-1	1
1,4-Dichlorobenzene	47	ug/L	1	SW8260C	04/29/15 13:28	WAT	106-46-7	1
1,2-Dichlorobenzene	46	ug/L	1	SW8260C	04/29/15 13:28	WAT	95-50-1	1
1,2,3-Trimethylbenzene	40	ug/L	1	SW8260C	04/29/15 13:28	WAT	526-73-8	1
n-Butylbenzene	45	ug/L	1	SW8260C	04/29/15 13:28	WAT	104-51-8	1
Hexachloroethane	44	ug/L	5	SW8260C	04/29/15 13:28	WAT	67-72-1	1
1,2-Dibromo-3-chloropropane	55	ug/L	5	SW8260C	04/29/15 13:28	WAT	96-12-8	1
1,2,4-Trichlorobenzene	49	ug/L	5	SW8260C	04/29/15 13:28	WAT	120-82-1	1
1,2,3-Trichlorobenzene	48	ug/L	5	SW8260C	04/29/15 13:28	WAT	87-61-6	1
Naphthalene	51	ug/L	5	SW8260C	04/29/15 13:28	WAT	91-20-3	1
2-Methylnaphthalene	47	ug/L	5	SW8260C	04/29/15 13:28	WAT	91-57-6	1

1-Spiked at 50ug/l



Analytical Laboratory Report

Lab Sample ID: S65289.24
Sample Tag: MW-21_04162015 MSD
Collected Date/Time: 04/16/2015 10:40
Matrix: Groundwater
COC Reference: 83517

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	5.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

pH check for VOCs	<2	STD Units		N/A	04/30/15 10:55	LBR		
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Organics - Volatiles

Volatile Organics - DEQ List

Diethyl ether	49	ug/L	10	SW8260C	04/29/15 13:49	WAT	60-29-7	1
Acetone	Not detected	ug/L	50	SW8260C	04/29/15 13:49	WAT	67-64-1	1
Methyl iodide	48	ug/L	1	SW8260C	04/29/15 13:49	WAT	74-88-4	1
Carbon disulfide	39	ug/L	5	SW8260C	04/29/15 13:49	WAT	75-15-0	1
tert-Methyl butyl ether (MTBE)	50	ug/L	5	SW8260C	04/29/15 13:49	WAT	1634-04-4	1
Acrylonitrile	46	ug/L	2	SW8260C	04/29/15 13:49	WAT	107-13-1	1
2-Butanone (MEK)	47	ug/L	25	SW8260C	04/29/15 13:49	WAT	78-93-3	1
Dichlorodifluoromethane	39	ug/L	5	SW8260C	04/29/15 13:49	WAT	75-71-8	1
Chloromethane	43	ug/L	5	SW8260C	04/29/15 13:49	WAT	74-87-3	1
Vinyl chloride	44	ug/L	1	SW8260C	04/29/15 13:49	WAT	75-01-4	1
Bromomethane	49	ug/L	5	SW8260C	04/29/15 13:49	WAT	74-83-9	1
Chloroethane	55	ug/L	5	SW8260C	04/29/15 13:49	WAT	75-00-3	1
Trichlorofluoromethane	47	ug/L	1	SW8260C	04/29/15 13:49	WAT	75-69-4	1
1,1-Dichloroethene	47	ug/L	1	SW8260C	04/29/15 13:49	WAT	75-35-4	1
Methylene chloride	46	ug/L	5	SW8260C	04/29/15 13:49	WAT	75-09-2	1
trans-1,2-Dichloroethene	47	ug/L	1	SW8260C	04/29/15 13:49	WAT	156-60-5	1
1,1-Dichloroethane	47	ug/L	1	SW8260C	04/29/15 13:49	WAT	75-34-3	1
cis-1,2-Dichloroethene	48	ug/L	1	SW8260C	04/29/15 13:49	WAT	156-59-2	1
Tetrahydrofuran	Not detected	ug/L	90	SW8260C	04/29/15 13:49	WAT	109-99-9	1
Chloroform	48	ug/L	1	SW8260C	04/29/15 13:49	WAT	67-66-3	1
Bromochloromethane	50	ug/L	1	SW8260C	04/29/15 13:49	WAT	74-97-5	1
1,1,1-Trichloroethane	53	ug/L	1	SW8260C	04/29/15 13:49	WAT	71-55-6	1
4-Methyl-2-pentanone (MIBK)	58	ug/L	50	SW8260C	04/29/15 13:49	WAT	108-10-1	1
2-Hexanone	Not detected	ug/L	50	SW8260C	04/29/15 13:49	WAT	591-78-6	1
Carbon tetrachloride	52	ug/L	1	SW8260C	04/29/15 13:49	WAT	56-23-5	1
Benzene	47	ug/L	1	SW8260C	04/29/15 13:49	WAT	71-43-2	1
1,2-Dichloroethane	48	ug/L	1	SW8260C	04/29/15 13:49	WAT	107-06-2	1
Trichloroethene	49	ug/L	1	SW8260C	04/29/15 13:49	WAT	79-01-6	1
1,2-Dichloropropane	48	ug/L	1	SW8260C	04/29/15 13:49	WAT	78-87-5	1
Bromodichloromethane	51	ug/L	1	SW8260C	04/29/15 13:49	WAT	75-27-4	1
Dibromomethane	52	ug/L	5	SW8260C	04/29/15 13:49	WAT	74-95-3	1
cis-1,3-Dichloropropene	49	ug/L	1	SW8260C	04/29/15 13:49	WAT	10061-01-5	1
Toluene	48	ug/L	1	SW8260C	04/29/15 13:49	WAT	108-88-3	1
trans-1,3-Dichloropropene	49	ug/L	1	SW8260C	04/29/15 13:49	WAT	10061-02-6	1
1,1,2-Trichloroethane	49	ug/L	1	SW8260C	04/29/15 13:49	WAT	79-00-5	1
Tetrachloroethene	53	ug/L	1	SW8260C	04/29/15 13:49	WAT	127-18-4	1
trans-1,4-Dichloro-2-butene	45	ug/L	1	SW8260C	04/29/15 13:49	WAT	110-57-6	1
Dibromochloromethane	50	ug/L	5	SW8260C	04/29/15 13:49	WAT	124-48-1	1

1-Spiked at 50ug/l



Analytical Laboratory Report

Lab Sample ID: S65289.24 (continued)

Sample Tag: MW-21_04162015 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	04/29/15 13:49	WAT	106-93-4	1
Chlorobenzene	47	ug/L	1	SW8260C	04/29/15 13:49	WAT	108-90-7	1
1,1,1,2-Tetrachloroethane	49	ug/L	1	SW8260C	04/29/15 13:49	WAT	630-20-6	1
Ethylbenzene	47	ug/L	1	SW8260C	04/29/15 13:49	WAT	100-41-4	1
p,m-Xylene	87	ug/L	2	SW8260C	04/29/15 13:49	WAT		1
o-Xylene	46	ug/L	1	SW8260C	04/29/15 13:49	WAT	95-47-6	1
Styrene	34	ug/L	1	SW8260C	04/29/15 13:49	WAT	100-42-5	1
Isopropylbenzene	47	ug/L	5	SW8260C	04/29/15 13:49	WAT	98-82-8	1
Bromoform	47	ug/L	1	SW8260C	04/29/15 13:49	WAT	75-25-2	1
1,1,2,2-Tetrachloroethane	47	ug/L	1	SW8260C	04/29/15 13:49	WAT	79-34-5	1
1,2,3-Trichloropropane	50	ug/L	1	SW8260C	04/29/15 13:49	WAT	96-18-4	1
n-Propylbenzene	46	ug/L	1	SW8260C	04/29/15 13:49	WAT	103-65-1	1
Bromobenzene	49	ug/L	1	SW8260C	04/29/15 13:49	WAT	108-86-1	1
1,3,5-Trimethylbenzene	41	ug/L	1	SW8260C	04/29/15 13:49	WAT	108-67-8	1
tert-Butylbenzene	45	ug/L	1	SW8260C	04/29/15 13:49	WAT	98-06-6	1
1,2,4-Trimethylbenzene	40	ug/L	1	SW8260C	04/29/15 13:49	WAT	95-63-6	1
sec-Butylbenzene	46	ug/L	1	SW8260C	04/29/15 13:49	WAT	135-98-8	1
p-Isopropyltoluene	44	ug/L	5	SW8260C	04/29/15 13:49	WAT	99-87-6	1
1,3-Dichlorobenzene	45	ug/L	1	SW8260C	04/29/15 13:49	WAT	541-73-1	1
1,4-Dichlorobenzene	46	ug/L	1	SW8260C	04/29/15 13:49	WAT	106-46-7	1
1,2-Dichlorobenzene	45	ug/L	1	SW8260C	04/29/15 13:49	WAT	95-50-1	1
1,2,3-Trimethylbenzene	40	ug/L	1	SW8260C	04/29/15 13:49	WAT	526-73-8	1
n-Butylbenzene	45	ug/L	1	SW8260C	04/29/15 13:49	WAT	104-51-8	1
Hexachloroethane	42	ug/L	5	SW8260C	04/29/15 13:49	WAT	67-72-1	1
1,2-Dibromo-3-chloropropane	55	ug/L	5	SW8260C	04/29/15 13:49	WAT	96-12-8	1
1,2,4-Trichlorobenzene	49	ug/L	5	SW8260C	04/29/15 13:49	WAT	120-82-1	1
1,2,3-Trichlorobenzene	48	ug/L	5	SW8260C	04/29/15 13:49	WAT	87-61-6	1
Naphthalene	50	ug/L	5	SW8260C	04/29/15 13:49	WAT	91-20-3	1
2-Methylnaphthalene	46	ug/L	5	SW8260C	04/29/15 13:49	WAT	91-57-6	1

1-Spiked at 50ug/l



Analytical Laboratory Report

Lab Sample ID: S65289.25
Sample Tag: MW-23_04162015
Collected Date/Time: 04/16/2015 11:00
Matrix: Groundwater
COC Reference: 83517

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	5.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

pH check for VOCs	<2	STD Units		N/A	04/29/15 10:40	LBR		
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Organics - Volatiles

Volatile Organics - DEQ List

Diethyl ether	Not detected	ug/L	10	SW8260C	04/28/15 16:08	WAT	60-29-7	
Acetone	Not detected	ug/L	50	SW8260C	04/28/15 16:08	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	SW8260C	04/28/15 16:08	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	SW8260C	04/28/15 16:08	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW8260C	04/28/15 16:08	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	SW8260C	04/28/15 16:08	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	SW8260C	04/28/15 16:08	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW8260C	04/28/15 16:08	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	SW8260C	04/28/15 16:08	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW8260C	04/28/15 16:08	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	SW8260C	04/28/15 16:08	WAT	74-83-9	
Chloroethane	Not detected	ug/L	5	SW8260C	04/28/15 16:08	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260C	04/28/15 16:08	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260C	04/28/15 16:08	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	SW8260C	04/28/15 16:08	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260C	04/28/15 16:08	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260C	04/28/15 16:08	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260C	04/28/15 16:08	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	SW8260C	04/28/15 16:08	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	SW8260C	04/28/15 16:08	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	SW8260C	04/28/15 16:08	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260C	04/28/15 16:08	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW8260C	04/28/15 16:08	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	SW8260C	04/28/15 16:08	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW8260C	04/28/15 16:08	WAT	56-23-5	
Benzene	Not detected	ug/L	1	SW8260C	04/28/15 16:08	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260C	04/28/15 16:08	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW8260C	04/28/15 16:08	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260C	04/28/15 16:08	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW8260C	04/28/15 16:08	WAT	75-27-4	
Dibromomethane	Not detected	ug/L	5	SW8260C	04/28/15 16:08	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260C	04/28/15 16:08	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	SW8260C	04/28/15 16:08	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260C	04/28/15 16:08	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260C	04/28/15 16:08	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW8260C	04/28/15 16:08	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW8260C	04/28/15 16:08	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	SW8260C	04/28/15 16:08	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260C	04/28/15 16:08	WAT	106-93-4	



Analytical Laboratory Report

Lab Sample ID: S65289.25 (continued)

Sample Tag: MW-23_04162015

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	04/28/15 16:08	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW8260C	04/28/15 16:08	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	SW8260C	04/28/15 16:08	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	SW8260C	04/28/15 16:08	WAT		
o-Xylene	Not detected	ug/L	1	SW8260C	04/28/15 16:08	WAT	95-47-6	
Styrene	Not detected	ug/L	1	SW8260C	04/28/15 16:08	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	SW8260C	04/28/15 16:08	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	SW8260C	04/28/15 16:08	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260C	04/28/15 16:08	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	SW8260C	04/28/15 16:08	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	SW8260C	04/28/15 16:08	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	SW8260C	04/28/15 16:08	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW8260C	04/28/15 16:08	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	SW8260C	04/28/15 16:08	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW8260C	04/28/15 16:08	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	SW8260C	04/28/15 16:08	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	SW8260C	04/28/15 16:08	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260C	04/28/15 16:08	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260C	04/28/15 16:08	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260C	04/28/15 16:08	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW8260C	04/28/15 16:08	WAT	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	SW8260C	04/28/15 16:08	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	SW8260C	04/28/15 16:08	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW8260C	04/28/15 16:08	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW8260C	04/28/15 16:08	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW8260C	04/28/15 16:08	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	SW8260C	04/28/15 16:08	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	SW8260C	04/28/15 16:08	WAT	91-57-6	



Analytical Laboratory Report

Lab Sample ID: S65289.26
Sample Tag: MW-22_04162015
Collected Date/Time: 04/16/2015 11:30
Matrix: Groundwater
COC Reference: 83517

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	5.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

pH check for VOCs	<2	STD Units		N/A	04/29/15 10:40	LBR		
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Organics - Volatiles

Volatile Organics - DEQ List

Diethyl ether	Not detected	ug/L	10	SW8260C	04/28/15 16:28	WAT	60-29-7	
Acetone	Not detected	ug/L	50	SW8260C	04/28/15 16:28	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	SW8260C	04/28/15 16:28	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	SW8260C	04/28/15 16:28	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW8260C	04/28/15 16:28	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	SW8260C	04/28/15 16:28	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	SW8260C	04/28/15 16:28	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW8260C	04/28/15 16:28	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	SW8260C	04/28/15 16:28	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW8260C	04/28/15 16:28	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	SW8260C	04/28/15 16:28	WAT	74-83-9	
Chloroethane	Not detected	ug/L	5	SW8260C	04/28/15 16:28	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260C	04/28/15 16:28	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260C	04/28/15 16:28	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	SW8260C	04/28/15 16:28	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260C	04/28/15 16:28	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260C	04/28/15 16:28	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260C	04/28/15 16:28	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	SW8260C	04/28/15 16:28	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	SW8260C	04/28/15 16:28	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	SW8260C	04/28/15 16:28	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260C	04/28/15 16:28	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW8260C	04/28/15 16:28	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	SW8260C	04/28/15 16:28	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW8260C	04/28/15 16:28	WAT	56-23-5	
Benzene	Not detected	ug/L	1	SW8260C	04/28/15 16:28	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260C	04/28/15 16:28	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW8260C	04/28/15 16:28	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260C	04/28/15 16:28	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW8260C	04/28/15 16:28	WAT	75-27-4	
Dibromomethane	Not detected	ug/L	5	SW8260C	04/28/15 16:28	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260C	04/28/15 16:28	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	SW8260C	04/28/15 16:28	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260C	04/28/15 16:28	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260C	04/28/15 16:28	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW8260C	04/28/15 16:28	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW8260C	04/28/15 16:28	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	SW8260C	04/28/15 16:28	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260C	04/28/15 16:28	WAT	106-93-4	



Analytical Laboratory Report

Lab Sample ID: S65289.26 (continued)

Sample Tag: MW-22_04162015

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	04/28/15 16:28	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW8260C	04/28/15 16:28	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	SW8260C	04/28/15 16:28	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	SW8260C	04/28/15 16:28	WAT		
o-Xylene	Not detected	ug/L	1	SW8260C	04/28/15 16:28	WAT	95-47-6	
Styrene	Not detected	ug/L	1	SW8260C	04/28/15 16:28	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	SW8260C	04/28/15 16:28	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	SW8260C	04/28/15 16:28	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260C	04/28/15 16:28	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	SW8260C	04/28/15 16:28	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	SW8260C	04/28/15 16:28	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	SW8260C	04/28/15 16:28	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW8260C	04/28/15 16:28	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	SW8260C	04/28/15 16:28	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW8260C	04/28/15 16:28	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	SW8260C	04/28/15 16:28	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	SW8260C	04/28/15 16:28	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260C	04/28/15 16:28	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260C	04/28/15 16:28	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260C	04/28/15 16:28	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW8260C	04/28/15 16:28	WAT	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	SW8260C	04/28/15 16:28	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	SW8260C	04/28/15 16:28	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW8260C	04/28/15 16:28	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW8260C	04/28/15 16:28	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW8260C	04/28/15 16:28	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	SW8260C	04/28/15 16:28	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	SW8260C	04/28/15 16:28	WAT	91-57-6	



Analytical Laboratory Report

Lab Sample ID: S65289.27
Sample Tag: MW-28_04162015
Collected Date/Time: 04/16/2015 11:45
Matrix: Groundwater
COC Reference: 83517

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	5.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

pH check for VOCs	<2	STD Units		N/A	04/29/15 10:40	LBR		
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Organics - Volatiles

Volatile Organics - DEQ List

Diethyl ether	Not detected	ug/L	10	SW8260C	04/28/15 16:48	WAT	60-29-7	
Acetone	Not detected	ug/L	50	SW8260C	04/28/15 16:48	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	SW8260C	04/28/15 16:48	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	SW8260C	04/28/15 16:48	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW8260C	04/28/15 16:48	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	SW8260C	04/28/15 16:48	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	SW8260C	04/28/15 16:48	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW8260C	04/28/15 16:48	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	SW8260C	04/28/15 16:48	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW8260C	04/28/15 16:48	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	SW8260C	04/28/15 16:48	WAT	74-83-9	
Chloroethane	Not detected	ug/L	5	SW8260C	04/28/15 16:48	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260C	04/28/15 16:48	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260C	04/28/15 16:48	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	SW8260C	04/28/15 16:48	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260C	04/28/15 16:48	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260C	04/28/15 16:48	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260C	04/28/15 16:48	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	SW8260C	04/28/15 16:48	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	SW8260C	04/28/15 16:48	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	SW8260C	04/28/15 16:48	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260C	04/28/15 16:48	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW8260C	04/28/15 16:48	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	SW8260C	04/28/15 16:48	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW8260C	04/28/15 16:48	WAT	56-23-5	
Benzene	Not detected	ug/L	1	SW8260C	04/28/15 16:48	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260C	04/28/15 16:48	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW8260C	04/28/15 16:48	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260C	04/28/15 16:48	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW8260C	04/28/15 16:48	WAT	75-27-4	
Dibromomethane	Not detected	ug/L	5	SW8260C	04/28/15 16:48	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260C	04/28/15 16:48	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	SW8260C	04/28/15 16:48	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260C	04/28/15 16:48	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260C	04/28/15 16:48	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW8260C	04/28/15 16:48	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW8260C	04/28/15 16:48	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	SW8260C	04/28/15 16:48	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260C	04/28/15 16:48	WAT	106-93-4	



Analytical Laboratory Report

Lab Sample ID: S65289.27 (continued)

Sample Tag: MW-28_04162015

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	04/28/15 16:48	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW8260C	04/28/15 16:48	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	SW8260C	04/28/15 16:48	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	SW8260C	04/28/15 16:48	WAT		
o-Xylene	Not detected	ug/L	1	SW8260C	04/28/15 16:48	WAT	95-47-6	
Styrene	Not detected	ug/L	1	SW8260C	04/28/15 16:48	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	SW8260C	04/28/15 16:48	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	SW8260C	04/28/15 16:48	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260C	04/28/15 16:48	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	SW8260C	04/28/15 16:48	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	SW8260C	04/28/15 16:48	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	SW8260C	04/28/15 16:48	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW8260C	04/28/15 16:48	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	SW8260C	04/28/15 16:48	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW8260C	04/28/15 16:48	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	SW8260C	04/28/15 16:48	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	SW8260C	04/28/15 16:48	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260C	04/28/15 16:48	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260C	04/28/15 16:48	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260C	04/28/15 16:48	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW8260C	04/28/15 16:48	WAT	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	SW8260C	04/28/15 16:48	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	SW8260C	04/28/15 16:48	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW8260C	04/28/15 16:48	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW8260C	04/28/15 16:48	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW8260C	04/28/15 16:48	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	SW8260C	04/28/15 16:48	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	SW8260C	04/28/15 16:48	WAT	91-57-6	



Analytical Laboratory Report

Lab Sample ID: S65289.28
Sample Tag: MW-29_04162015
Collected Date/Time: 04/16/2015 12:30
Matrix: Groundwater
COC Reference: 83517

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	5.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

pH check for VOCs	<2	STD Units		N/A	04/29/15 10:40	LBR		
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Organics - Volatiles

Volatile Organics - DEQ List

Diethyl ether	Not detected	ug/L	10	SW8260C	04/28/15 17:09	WAT	60-29-7	
Acetone	Not detected	ug/L	50	SW8260C	04/28/15 17:09	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	SW8260C	04/28/15 17:09	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	SW8260C	04/28/15 17:09	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW8260C	04/28/15 17:09	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	SW8260C	04/28/15 17:09	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	SW8260C	04/28/15 17:09	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW8260C	04/28/15 17:09	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	SW8260C	04/28/15 17:09	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW8260C	04/28/15 17:09	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	SW8260C	04/28/15 17:09	WAT	74-83-9	
Chloroethane	Not detected	ug/L	5	SW8260C	04/28/15 17:09	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260C	04/28/15 17:09	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260C	04/28/15 17:09	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	SW8260C	04/28/15 17:09	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260C	04/28/15 17:09	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260C	04/28/15 17:09	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260C	04/28/15 17:09	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	SW8260C	04/28/15 17:09	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	SW8260C	04/28/15 17:09	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	SW8260C	04/28/15 17:09	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260C	04/28/15 17:09	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW8260C	04/28/15 17:09	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	SW8260C	04/28/15 17:09	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW8260C	04/28/15 17:09	WAT	56-23-5	
Benzene	Not detected	ug/L	1	SW8260C	04/28/15 17:09	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260C	04/28/15 17:09	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW8260C	04/28/15 17:09	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260C	04/28/15 17:09	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW8260C	04/28/15 17:09	WAT	75-27-4	
Dibromomethane	Not detected	ug/L	5	SW8260C	04/28/15 17:09	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260C	04/28/15 17:09	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	SW8260C	04/28/15 17:09	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260C	04/28/15 17:09	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260C	04/28/15 17:09	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW8260C	04/28/15 17:09	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW8260C	04/28/15 17:09	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	SW8260C	04/28/15 17:09	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260C	04/28/15 17:09	WAT	106-93-4	



Analytical Laboratory Report

Lab Sample ID: S65289.28 (continued)

Sample Tag: MW-29_04162015

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	04/28/15 17:09	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW8260C	04/28/15 17:09	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	SW8260C	04/28/15 17:09	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	SW8260C	04/28/15 17:09	WAT		
o-Xylene	Not detected	ug/L	1	SW8260C	04/28/15 17:09	WAT	95-47-6	
Styrene	Not detected	ug/L	1	SW8260C	04/28/15 17:09	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	SW8260C	04/28/15 17:09	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	SW8260C	04/28/15 17:09	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260C	04/28/15 17:09	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	SW8260C	04/28/15 17:09	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	SW8260C	04/28/15 17:09	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	SW8260C	04/28/15 17:09	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW8260C	04/28/15 17:09	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	SW8260C	04/28/15 17:09	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW8260C	04/28/15 17:09	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	SW8260C	04/28/15 17:09	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	SW8260C	04/28/15 17:09	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260C	04/28/15 17:09	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260C	04/28/15 17:09	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260C	04/28/15 17:09	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW8260C	04/28/15 17:09	WAT	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	SW8260C	04/28/15 17:09	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	SW8260C	04/28/15 17:09	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW8260C	04/28/15 17:09	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW8260C	04/28/15 17:09	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW8260C	04/28/15 17:09	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	SW8260C	04/28/15 17:09	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	SW8260C	04/28/15 17:09	WAT	91-57-6	



Analytical Laboratory Report

Lab Sample ID: S65289.29
Sample Tag: MW-8_04162015
Collected Date/Time: 04/16/2015 12:58
Matrix: Groundwater
COC Reference: 83517

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	5.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

pH check for VOCs	<2	STD Units		N/A	04/28/15 10:35	LBR		
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Organics - Volatiles

Volatile Organics - DEQ List

Diethyl ether	Not detected	ug/L	200	SW8260C	04/27/15 22:28	WAT	60-29-7	Y
Acetone	Not detected	ug/L	1,000	SW8260C	04/27/15 22:28	WAT	67-64-1	Y
Methyl iodide	Not detected	ug/L	20	SW8260C	04/27/15 22:28	WAT	74-88-4	Y
Carbon disulfide	Not detected	ug/L	100	SW8260C	04/27/15 22:28	WAT	75-15-0	Y
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	100	SW8260C	04/27/15 22:28	WAT	1634-04-4	Y
Acrylonitrile	Not detected	ug/L	40	SW8260C	04/27/15 22:28	WAT	107-13-1	Y
2-Butanone (MEK)	Not detected	ug/L	500	SW8260C	04/27/15 22:28	WAT	78-93-3	Y
Dichlorodifluoromethane	Not detected	ug/L	100	SW8260C	04/27/15 22:28	WAT	75-71-8	Y
Chloromethane	Not detected	ug/L	100	SW8260C	04/27/15 22:28	WAT	74-87-3	Y
Vinyl chloride	Not detected	ug/L	20	SW8260C	04/27/15 22:28	WAT	75-01-4	Y
Bromomethane	Not detected	ug/L	100	SW8260C	04/27/15 22:28	WAT	74-83-9	Y
Chloroethane	Not detected	ug/L	100	SW8260C	04/27/15 22:28	WAT	75-00-3	Y
Trichlorofluoromethane	Not detected	ug/L	20	SW8260C	04/27/15 22:28	WAT	75-69-4	Y
1,1-Dichloroethene	Not detected	ug/L	20	SW8260C	04/27/15 22:28	WAT	75-35-4	Y
Methylene chloride	Not detected	ug/L	100	SW8260C	04/27/15 22:28	WAT	75-09-2	Y
trans-1,2-Dichloroethene	Not detected	ug/L	20	SW8260C	04/27/15 22:28	WAT	156-60-5	Y
1,1-Dichloroethane	Not detected	ug/L	20	SW8260C	04/27/15 22:28	WAT	75-34-3	Y
cis-1,2-Dichloroethene	Not detected	ug/L	20	SW8260C	04/27/15 22:28	WAT	156-59-2	Y
Tetrahydrofuran	Not detected	ug/L	1,800	SW8260C	04/27/15 22:28	WAT	109-99-9	Y
Chloroform	Not detected	ug/L	20	SW8260C	04/27/15 22:28	WAT	67-66-3	Y
Bromochloromethane	Not detected	ug/L	20	SW8260C	04/27/15 22:28	WAT	74-97-5	Y
1,1,1-Trichloroethane	Not detected	ug/L	20	SW8260C	04/27/15 22:28	WAT	71-55-6	Y
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	1,000	SW8260C	04/27/15 22:28	WAT	108-10-1	Y
2-Hexanone	Not detected	ug/L	1,000	SW8260C	04/27/15 22:28	WAT	591-78-6	Y
Carbon tetrachloride	Not detected	ug/L	20	SW8260C	04/27/15 22:28	WAT	56-23-5	Y
Benzene	2,870	ug/L	20	SW8260C	04/27/15 22:28	WAT	71-43-2	Y
1,2-Dichloroethane	Not detected	ug/L	20	SW8260C	04/27/15 22:28	WAT	107-06-2	Y
Trichloroethene	Not detected	ug/L	20	SW8260C	04/27/15 22:28	WAT	79-01-6	Y
1,2-Dichloropropane	Not detected	ug/L	20	SW8260C	04/27/15 22:28	WAT	78-87-5	Y
Bromodichloromethane	Not detected	ug/L	20	SW8260C	04/27/15 22:28	WAT	75-27-4	Y
Dibromomethane	Not detected	ug/L	100	SW8260C	04/27/15 22:28	WAT	74-95-3	Y
cis-1,3-Dichloropropene	Not detected	ug/L	20	SW8260C	04/27/15 22:28	WAT	10061-01-5	Y
Toluene	80	ug/L	20	SW8260C	04/27/15 22:28	WAT	108-88-3	Y
trans-1,3-Dichloropropene	Not detected	ug/L	20	SW8260C	04/27/15 22:28	WAT	10061-02-6	Y
1,1,2-Trichloroethane	Not detected	ug/L	20	SW8260C	04/27/15 22:28	WAT	79-00-5	Y
Tetrachloroethene	Not detected	ug/L	20	SW8260C	04/27/15 22:28	WAT	127-18-4	Y
trans-1,4-Dichloro-2-butene	Not detected	ug/L	20	SW8260C	04/27/15 22:28	WAT	110-57-6	Y
Dibromochloromethane	Not detected	ug/L	100	SW8260C	04/27/15 22:28	WAT	124-48-1	Y

Y-Elevated reporting limit due to high target concentration



Analytical Laboratory Report

Lab Sample ID: S65289.29 (continued)

Sample Tag: MW-8_04162015

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	04/27/15 22:28	WAT	106-93-4	Y
Chlorobenzene	Not detected	ug/L	20	SW8260C	04/27/15 22:28	WAT	108-90-7	Y
1,1,1,2-Tetrachloroethane	Not detected	ug/L	20	SW8260C	04/27/15 22:28	WAT	630-20-6	Y
Ethylbenzene	1,790	ug/L	20	SW8260C	04/27/15 22:28	WAT	100-41-4	Y
p,m-Xylene	2,540	ug/L	40	SW8260C	04/27/15 22:28	WAT		Y
o-Xylene	80	ug/L	20	SW8260C	04/27/15 22:28	WAT	95-47-6	Y
Styrene	Not detected	ug/L	20	SW8260C	04/27/15 22:28	WAT	100-42-5	Y
Isopropylbenzene	Not detected	ug/L	100	SW8260C	04/27/15 22:28	WAT	98-82-8	Y
Bromoform	Not detected	ug/L	20	SW8260C	04/27/15 22:28	WAT	75-25-2	Y
1,1,2,2-Tetrachloroethane	Not detected	ug/L	20	SW8260C	04/27/15 22:28	WAT	79-34-5	Y
1,2,3-Trichloropropane	Not detected	ug/L	20	SW8260C	04/27/15 22:28	WAT	96-18-4	Y
n-Propylbenzene	190	ug/L	20	SW8260C	04/27/15 22:28	WAT	103-65-1	Y
Bromobenzene	Not detected	ug/L	20	SW8260C	04/27/15 22:28	WAT	108-86-1	Y
1,3,5-Trimethylbenzene	130	ug/L	20	SW8260C	04/27/15 22:28	WAT	108-67-8	Y
tert-Butylbenzene	Not detected	ug/L	20	SW8260C	04/27/15 22:28	WAT	98-06-6	Y
1,2,4-Trimethylbenzene	970	ug/L	20	SW8260C	04/27/15 22:28	WAT	95-63-6	Y
sec-Butylbenzene	Not detected	ug/L	20	SW8260C	04/27/15 22:28	WAT	135-98-8	Y
p-Isopropyltoluene	Not detected	ug/L	100	SW8260C	04/27/15 22:28	WAT	99-87-6	Y
1,3-Dichlorobenzene	Not detected	ug/L	20	SW8260C	04/27/15 22:28	WAT	541-73-1	Y
1,4-Dichlorobenzene	Not detected	ug/L	20	SW8260C	04/27/15 22:28	WAT	106-46-7	Y
1,2-Dichlorobenzene	Not detected	ug/L	20	SW8260C	04/27/15 22:28	WAT	95-50-1	Y
1,2,3-Trimethylbenzene	280	ug/L	20	SW8260C	04/27/15 22:28	WAT	526-73-8	Y
n-Butylbenzene	Not detected	ug/L	20	SW8260C	04/27/15 22:28	WAT	104-51-8	Y
Hexachloroethane	Not detected	ug/L	100	SW8260C	04/27/15 22:28	WAT	67-72-1	Y
1,2-Dibromo-3-chloropropane	Not detected	ug/L	100	SW8260C	04/27/15 22:28	WAT	96-12-8	Y
1,2,4-Trichlorobenzene	Not detected	ug/L	100	SW8260C	04/27/15 22:28	WAT	120-82-1	Y
1,2,3-Trichlorobenzene	Not detected	ug/L	100	SW8260C	04/27/15 22:28	WAT	87-61-6	Y
Naphthalene	100	ug/L	100	SW8260C	04/27/15 22:28	WAT	91-20-3	Y
2-Methylnaphthalene	Not detected	ug/L	100	SW8260C	04/27/15 22:28	WAT	91-57-6	Y

Y-Elevated reporting limit due to high target concentration



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C.O.C. PAGE # 2 OF 2

83517

REPORT TO

CHAIN OF CUSTODY RECORD

INVOICE TO

CONTACT NAME
ALYN BEGNOCKE

COMPANY
ARCADIS

ADDRESS
10559 CITATION DR. ST 100

CITY
BRIGHTON STATE
MI ZIP CODE
48116

PHONE NO.
810-225-1971 FAX NO.
810-229-8837 P.O. NO.

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ALYN.BEGNOCKE@ARCADIS-US.COM QUOTE NO.

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ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

PROJECT NO./NAME
B0604486.2015.00003 SAMPLER(S) - PLEASE PRINT/SIGN NAME
FLUAAK/BENDER Scott Filipich

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

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

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

Containers & Preservatives

MERIT LAB NO. FOR LAB USE ONLY	YEAR		SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives								Certifications	
	DATE	TIME				NONE	HCl	HNO ₃	H ₂ SO ₄	NaOH	MeOH	OTHER			
65289.15	4/15/15	1605	MW-33-0415 2015	GW	3	X								X	☐ Other _____ Special Instructions
.16	I	1705	MW-11-0415 2015	GW	3	X								X	
.17		—	DUP-01-0415 2015	GW	3	X								X	
.18		—	DUP-02-0415 2015	GW	3	X								X	
.19		—	DUP-03-0415 2015	GW	3	X								X	
.20		—	TRIP BLANK	GW	3	X								X	
.21	4/16/15	0750	MW-31-0416 2015	GW	3	X								X	
.22/.23/.24	I	1040	MW-21-0416 2015 MS/MSD	GW	9	X								X	
.25		1100	MW-23-0416 2015	GW	3	X								X	
.26		1130	MW-22-0416 2015	GW	3	X								X	
.27		1145	MW-28-0416 2015	GW	3	X								X	
.28		1230	MW-29-0416 2015	GW	3	X								X	

RELINQUISHED BY:
SIGNATURE/ORGANIZATION
Scott Filipich ARCADIS DATE
4-16-15 TIME
1500

RECEIVED BY:
SIGNATURE/ORGANIZATION
NAVY FRIDGE DATE
4-16-15 TIME
1500

RELINQUISHED BY:
SIGNATURE/ORGANIZATION
ARCADIS DATE
4-17-15 TIME
1000

RECEIVED BY:
SIGNATURE/ORGANIZATION
NAVY DATE
4-17-15 TIME
2000

RELINQUISHED BY:
SIGNATURE/ORGANIZATION
Merit DATE
4-17-15 TIME
1445

RECEIVED BY:
SIGNATURE/ORGANIZATION
Michael Dunkman DATE
04/17/15 TIME
1445

SEAL NO. SEAL INTACT INITIALS NOTES: TEMP. ON ARRIVAL **52**

SEAL NO. SEAL INTACT INITIALS



Analytical Laboratory Report

Report ID: S65290.01(01)
Generated on 04/29/2015

Report to

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Report Summary

Lab Sample ID(s): S65290.01-S65290.05
Project: B0064486.2015.00003
Collected Date: 04/16/2015
Submitted Date/Time: 04/17/2015 14:45
Sampled by: Filipiak/Bender
P.O. #: B0064486.2015.00003

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Maya Murshak
Technical Director



Analytical Laboratory Report

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



Analytical Laboratory 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



Analytical Laboratory Report

Method Summary

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



Analytical Laboratory Report

Sample Summary (5 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S65290.01	SS-5_04162015	Surface Water	04/16/2015 08:35
S65290.02	SS-3_04162015	Surface Water	04/16/2015 08:55
S65290.03	SS-4_04162015	Surface Water	04/16/2015 09:05
S65290.04	SS-1_04162015	Surface Water	04/16/2015 09:30
S65290.05	SS-2_04162015	Surface Water	04/16/2015 09:40



Analytical Laboratory Report

Lab Sample ID: S65290.01
Sample Tag: SS-5_04162015
Collected Date/Time: 04/16/2015 08:35
Matrix: Surface Water
COC Reference: 83516

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	5.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

pH check for VOCs	<2	STD Units		N/A	04/29/15 10:40	LBR		
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Organics - Volatiles

Volatile Organics - DEQ List

Diethyl ether	Not detected	ug/L	10	SW8260C	04/28/15 17:29	WAT	60-29-7	
Acetone	Not detected	ug/L	50	SW8260C	04/28/15 17:29	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	SW8260C	04/28/15 17:29	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	SW8260C	04/28/15 17:29	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW8260C	04/28/15 17:29	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	SW8260C	04/28/15 17:29	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	SW8260C	04/28/15 17:29	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW8260C	04/28/15 17:29	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	SW8260C	04/28/15 17:29	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW8260C	04/28/15 17:29	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	SW8260C	04/28/15 17:29	WAT	74-83-9	
Chloroethane	Not detected	ug/L	5	SW8260C	04/28/15 17:29	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260C	04/28/15 17:29	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260C	04/28/15 17:29	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	SW8260C	04/28/15 17:29	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260C	04/28/15 17:29	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260C	04/28/15 17:29	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260C	04/28/15 17:29	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	SW8260C	04/28/15 17:29	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	SW8260C	04/28/15 17:29	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	SW8260C	04/28/15 17:29	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260C	04/28/15 17:29	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW8260C	04/28/15 17:29	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	SW8260C	04/28/15 17:29	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW8260C	04/28/15 17:29	WAT	56-23-5	
Benzene	Not detected	ug/L	1	SW8260C	04/28/15 17:29	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260C	04/28/15 17:29	WAT	107-06-2	
Trichloroethene	2	ug/L	1	SW8260C	04/28/15 17:29	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260C	04/28/15 17:29	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW8260C	04/28/15 17:29	WAT	75-27-4	
Dibromomethane	Not detected	ug/L	5	SW8260C	04/28/15 17:29	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260C	04/28/15 17:29	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	SW8260C	04/28/15 17:29	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260C	04/28/15 17:29	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260C	04/28/15 17:29	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW8260C	04/28/15 17:29	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW8260C	04/28/15 17:29	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	SW8260C	04/28/15 17:29	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260C	04/28/15 17:29	WAT	106-93-4	



Analytical Laboratory Report

Lab Sample ID: S65290.01 (continued)

Sample Tag: SS-5_04162015

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	04/28/15 17:29	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW8260C	04/28/15 17:29	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	SW8260C	04/28/15 17:29	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	SW8260C	04/28/15 17:29	WAT		
o-Xylene	Not detected	ug/L	1	SW8260C	04/28/15 17:29	WAT	95-47-6	
Styrene	Not detected	ug/L	1	SW8260C	04/28/15 17:29	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	SW8260C	04/28/15 17:29	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	SW8260C	04/28/15 17:29	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260C	04/28/15 17:29	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	SW8260C	04/28/15 17:29	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	SW8260C	04/28/15 17:29	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	SW8260C	04/28/15 17:29	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW8260C	04/28/15 17:29	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	SW8260C	04/28/15 17:29	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW8260C	04/28/15 17:29	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	SW8260C	04/28/15 17:29	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	SW8260C	04/28/15 17:29	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260C	04/28/15 17:29	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260C	04/28/15 17:29	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260C	04/28/15 17:29	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW8260C	04/28/15 17:29	WAT	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	SW8260C	04/28/15 17:29	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	SW8260C	04/28/15 17:29	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW8260C	04/28/15 17:29	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW8260C	04/28/15 17:29	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW8260C	04/28/15 17:29	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	SW8260C	04/28/15 17:29	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	SW8260C	04/28/15 17:29	WAT	91-57-6	



Analytical Laboratory Report

Lab Sample ID: S65290.02
Sample Tag: SS-3_04162015
Collected Date/Time: 04/16/2015 08:55
Matrix: Surface Water
COC Reference: 83516

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	5.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

pH check for VOCs	<2	STD Units		N/A	04/29/15 10:40	LBR		
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Organics - Volatiles

Volatile Organics - DEQ List

Diethyl ether	Not detected	ug/L	10	SW8260C	04/28/15 17:50	WAT	60-29-7	
Acetone	Not detected	ug/L	50	SW8260C	04/28/15 17:50	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	SW8260C	04/28/15 17:50	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	SW8260C	04/28/15 17:50	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW8260C	04/28/15 17:50	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	SW8260C	04/28/15 17:50	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	SW8260C	04/28/15 17:50	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW8260C	04/28/15 17:50	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	SW8260C	04/28/15 17:50	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW8260C	04/28/15 17:50	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	SW8260C	04/28/15 17:50	WAT	74-83-9	
Chloroethane	Not detected	ug/L	5	SW8260C	04/28/15 17:50	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260C	04/28/15 17:50	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260C	04/28/15 17:50	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	SW8260C	04/28/15 17:50	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260C	04/28/15 17:50	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260C	04/28/15 17:50	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260C	04/28/15 17:50	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	SW8260C	04/28/15 17:50	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	SW8260C	04/28/15 17:50	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	SW8260C	04/28/15 17:50	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260C	04/28/15 17:50	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW8260C	04/28/15 17:50	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	SW8260C	04/28/15 17:50	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW8260C	04/28/15 17:50	WAT	56-23-5	
Benzene	Not detected	ug/L	1	SW8260C	04/28/15 17:50	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260C	04/28/15 17:50	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW8260C	04/28/15 17:50	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260C	04/28/15 17:50	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW8260C	04/28/15 17:50	WAT	75-27-4	
Dibromomethane	Not detected	ug/L	5	SW8260C	04/28/15 17:50	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260C	04/28/15 17:50	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	SW8260C	04/28/15 17:50	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260C	04/28/15 17:50	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260C	04/28/15 17:50	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW8260C	04/28/15 17:50	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW8260C	04/28/15 17:50	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	SW8260C	04/28/15 17:50	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260C	04/28/15 17:50	WAT	106-93-4	



Analytical Laboratory Report

Lab Sample ID: S65290.02 (continued)

Sample Tag: SS-3_04162015

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	04/28/15 17:50	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW8260C	04/28/15 17:50	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	SW8260C	04/28/15 17:50	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	SW8260C	04/28/15 17:50	WAT		
o-Xylene	Not detected	ug/L	1	SW8260C	04/28/15 17:50	WAT	95-47-6	
Styrene	Not detected	ug/L	1	SW8260C	04/28/15 17:50	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	SW8260C	04/28/15 17:50	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	SW8260C	04/28/15 17:50	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260C	04/28/15 17:50	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	SW8260C	04/28/15 17:50	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	SW8260C	04/28/15 17:50	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	SW8260C	04/28/15 17:50	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW8260C	04/28/15 17:50	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	SW8260C	04/28/15 17:50	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW8260C	04/28/15 17:50	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	SW8260C	04/28/15 17:50	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	SW8260C	04/28/15 17:50	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260C	04/28/15 17:50	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260C	04/28/15 17:50	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260C	04/28/15 17:50	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW8260C	04/28/15 17:50	WAT	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	SW8260C	04/28/15 17:50	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	SW8260C	04/28/15 17:50	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW8260C	04/28/15 17:50	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW8260C	04/28/15 17:50	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW8260C	04/28/15 17:50	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	SW8260C	04/28/15 17:50	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	SW8260C	04/28/15 17:50	WAT	91-57-6	



Analytical Laboratory Report

Lab Sample ID: S65290.03
Sample Tag: SS-4_04162015
Collected Date/Time: 04/16/2015 09:05
Matrix: Surface Water
COC Reference: 83516

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	5.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

pH check for VOCs	<2	STD Units		N/A	04/29/15 10:40	LBR		
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Organics - Volatiles

Volatile Organics - DEQ List

Diethyl ether	Not detected	ug/L	10	SW8260C	04/28/15 18:10	WAT	60-29-7	
Acetone	Not detected	ug/L	50	SW8260C	04/28/15 18:10	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	SW8260C	04/28/15 18:10	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	SW8260C	04/28/15 18:10	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW8260C	04/28/15 18:10	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	SW8260C	04/28/15 18:10	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	SW8260C	04/28/15 18:10	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW8260C	04/28/15 18:10	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	SW8260C	04/28/15 18:10	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW8260C	04/28/15 18:10	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	SW8260C	04/28/15 18:10	WAT	74-83-9	
Chloroethane	Not detected	ug/L	5	SW8260C	04/28/15 18:10	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260C	04/28/15 18:10	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260C	04/28/15 18:10	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	SW8260C	04/28/15 18:10	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260C	04/28/15 18:10	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260C	04/28/15 18:10	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260C	04/28/15 18:10	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	SW8260C	04/28/15 18:10	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	SW8260C	04/28/15 18:10	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	SW8260C	04/28/15 18:10	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260C	04/28/15 18:10	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW8260C	04/28/15 18:10	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	SW8260C	04/28/15 18:10	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW8260C	04/28/15 18:10	WAT	56-23-5	
Benzene	Not detected	ug/L	1	SW8260C	04/28/15 18:10	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260C	04/28/15 18:10	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW8260C	04/28/15 18:10	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260C	04/28/15 18:10	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW8260C	04/28/15 18:10	WAT	75-27-4	
Dibromomethane	Not detected	ug/L	5	SW8260C	04/28/15 18:10	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260C	04/28/15 18:10	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	SW8260C	04/28/15 18:10	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260C	04/28/15 18:10	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260C	04/28/15 18:10	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW8260C	04/28/15 18:10	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW8260C	04/28/15 18:10	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	SW8260C	04/28/15 18:10	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260C	04/28/15 18:10	WAT	106-93-4	



Analytical Laboratory Report

Lab Sample ID: S65290.03 (continued)

Sample Tag: SS-4_04162015

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	04/28/15 18:10	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW8260C	04/28/15 18:10	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	SW8260C	04/28/15 18:10	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	SW8260C	04/28/15 18:10	WAT		
o-Xylene	Not detected	ug/L	1	SW8260C	04/28/15 18:10	WAT	95-47-6	
Styrene	Not detected	ug/L	1	SW8260C	04/28/15 18:10	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	SW8260C	04/28/15 18:10	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	SW8260C	04/28/15 18:10	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260C	04/28/15 18:10	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	SW8260C	04/28/15 18:10	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	SW8260C	04/28/15 18:10	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	SW8260C	04/28/15 18:10	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW8260C	04/28/15 18:10	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	SW8260C	04/28/15 18:10	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW8260C	04/28/15 18:10	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	SW8260C	04/28/15 18:10	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	SW8260C	04/28/15 18:10	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260C	04/28/15 18:10	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260C	04/28/15 18:10	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260C	04/28/15 18:10	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW8260C	04/28/15 18:10	WAT	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	SW8260C	04/28/15 18:10	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	SW8260C	04/28/15 18:10	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW8260C	04/28/15 18:10	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW8260C	04/28/15 18:10	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW8260C	04/28/15 18:10	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	SW8260C	04/28/15 18:10	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	SW8260C	04/28/15 18:10	WAT	91-57-6	



Analytical Laboratory Report

Lab Sample ID: S65290.04
Sample Tag: SS-1_04162015
Collected Date/Time: 04/16/2015 09:30
Matrix: Surface Water
COC Reference: 83516

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	5.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

pH check for VOCs	<2	STD Units		N/A	04/29/15 10:40	LBR		
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Organics - Volatiles

Volatile Organics - DEQ List

Diethyl ether	Not detected	ug/L	10	SW8260C	04/28/15 18:30	WAT	60-29-7	
Acetone	Not detected	ug/L	50	SW8260C	04/28/15 18:30	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	SW8260C	04/28/15 18:30	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	SW8260C	04/28/15 18:30	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW8260C	04/28/15 18:30	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	SW8260C	04/28/15 18:30	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	SW8260C	04/28/15 18:30	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW8260C	04/28/15 18:30	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	SW8260C	04/28/15 18:30	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW8260C	04/28/15 18:30	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	SW8260C	04/28/15 18:30	WAT	74-83-9	
Chloroethane	Not detected	ug/L	5	SW8260C	04/28/15 18:30	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260C	04/28/15 18:30	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260C	04/28/15 18:30	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	SW8260C	04/28/15 18:30	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260C	04/28/15 18:30	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260C	04/28/15 18:30	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260C	04/28/15 18:30	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	SW8260C	04/28/15 18:30	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	SW8260C	04/28/15 18:30	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	SW8260C	04/28/15 18:30	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260C	04/28/15 18:30	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW8260C	04/28/15 18:30	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	SW8260C	04/28/15 18:30	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW8260C	04/28/15 18:30	WAT	56-23-5	
Benzene	Not detected	ug/L	1	SW8260C	04/28/15 18:30	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260C	04/28/15 18:30	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW8260C	04/28/15 18:30	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260C	04/28/15 18:30	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW8260C	04/28/15 18:30	WAT	75-27-4	
Dibromomethane	Not detected	ug/L	5	SW8260C	04/28/15 18:30	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260C	04/28/15 18:30	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	SW8260C	04/28/15 18:30	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260C	04/28/15 18:30	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260C	04/28/15 18:30	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW8260C	04/28/15 18:30	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW8260C	04/28/15 18:30	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	SW8260C	04/28/15 18:30	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260C	04/28/15 18:30	WAT	106-93-4	



Analytical Laboratory Report

Lab Sample ID: S65290.04 (continued)

Sample Tag: SS-1_04162015

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	04/28/15 18:30	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW8260C	04/28/15 18:30	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	SW8260C	04/28/15 18:30	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	SW8260C	04/28/15 18:30	WAT		
o-Xylene	Not detected	ug/L	1	SW8260C	04/28/15 18:30	WAT	95-47-6	
Styrene	Not detected	ug/L	1	SW8260C	04/28/15 18:30	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	SW8260C	04/28/15 18:30	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	SW8260C	04/28/15 18:30	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260C	04/28/15 18:30	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	SW8260C	04/28/15 18:30	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	SW8260C	04/28/15 18:30	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	SW8260C	04/28/15 18:30	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW8260C	04/28/15 18:30	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	SW8260C	04/28/15 18:30	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW8260C	04/28/15 18:30	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	SW8260C	04/28/15 18:30	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	SW8260C	04/28/15 18:30	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260C	04/28/15 18:30	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260C	04/28/15 18:30	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260C	04/28/15 18:30	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW8260C	04/28/15 18:30	WAT	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	SW8260C	04/28/15 18:30	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	SW8260C	04/28/15 18:30	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW8260C	04/28/15 18:30	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW8260C	04/28/15 18:30	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW8260C	04/28/15 18:30	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	SW8260C	04/28/15 18:30	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	SW8260C	04/28/15 18:30	WAT	91-57-6	



Analytical Laboratory Report

Lab Sample ID: S65290.05
Sample Tag: SS-2_04162015
Collected Date/Time: 04/16/2015 09:40
Matrix: Surface Water
COC Reference: 83516

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	5.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

pH check for VOCs	<2	STD Units		N/A	04/29/15 10:40	LBR		
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Organics - Volatiles

Volatile Organics - DEQ List

Diethyl ether	Not detected	ug/L	10	SW8260C	04/28/15 18:50	WAT	60-29-7	
Acetone	Not detected	ug/L	50	SW8260C	04/28/15 18:50	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	SW8260C	04/28/15 18:50	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	SW8260C	04/28/15 18:50	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW8260C	04/28/15 18:50	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	SW8260C	04/28/15 18:50	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	SW8260C	04/28/15 18:50	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW8260C	04/28/15 18:50	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	SW8260C	04/28/15 18:50	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW8260C	04/28/15 18:50	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	SW8260C	04/28/15 18:50	WAT	74-83-9	
Chloroethane	Not detected	ug/L	5	SW8260C	04/28/15 18:50	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260C	04/28/15 18:50	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260C	04/28/15 18:50	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	SW8260C	04/28/15 18:50	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260C	04/28/15 18:50	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260C	04/28/15 18:50	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260C	04/28/15 18:50	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	SW8260C	04/28/15 18:50	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	SW8260C	04/28/15 18:50	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	SW8260C	04/28/15 18:50	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260C	04/28/15 18:50	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW8260C	04/28/15 18:50	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	SW8260C	04/28/15 18:50	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW8260C	04/28/15 18:50	WAT	56-23-5	
Benzene	Not detected	ug/L	1	SW8260C	04/28/15 18:50	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260C	04/28/15 18:50	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW8260C	04/28/15 18:50	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260C	04/28/15 18:50	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW8260C	04/28/15 18:50	WAT	75-27-4	
Dibromomethane	Not detected	ug/L	5	SW8260C	04/28/15 18:50	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260C	04/28/15 18:50	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	SW8260C	04/28/15 18:50	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260C	04/28/15 18:50	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260C	04/28/15 18:50	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW8260C	04/28/15 18:50	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW8260C	04/28/15 18:50	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	SW8260C	04/28/15 18:50	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260C	04/28/15 18:50	WAT	106-93-4	



Analytical Laboratory Report

Lab Sample ID: S65290.05 (continued)

Sample Tag: SS-2_04162015

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	04/28/15 18:50	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW8260C	04/28/15 18:50	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	SW8260C	04/28/15 18:50	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	SW8260C	04/28/15 18:50	WAT		
o-Xylene	Not detected	ug/L	1	SW8260C	04/28/15 18:50	WAT	95-47-6	
Styrene	Not detected	ug/L	1	SW8260C	04/28/15 18:50	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	SW8260C	04/28/15 18:50	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	SW8260C	04/28/15 18:50	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260C	04/28/15 18:50	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	SW8260C	04/28/15 18:50	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	SW8260C	04/28/15 18:50	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	SW8260C	04/28/15 18:50	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW8260C	04/28/15 18:50	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	SW8260C	04/28/15 18:50	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW8260C	04/28/15 18:50	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	SW8260C	04/28/15 18:50	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	SW8260C	04/28/15 18:50	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260C	04/28/15 18:50	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260C	04/28/15 18:50	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260C	04/28/15 18:50	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW8260C	04/28/15 18:50	WAT	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	SW8260C	04/28/15 18:50	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	SW8260C	04/28/15 18:50	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW8260C	04/28/15 18:50	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW8260C	04/28/15 18:50	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW8260C	04/28/15 18:50	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	SW8260C	04/28/15 18:50	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	SW8260C	04/28/15 18:50	WAT	91-57-6	

