

GROUNDWATER MONITORING REPORT - OCTOBER 2014

YOUTH SERVICES CENTER
1211 EAST ALDER STREET
SEATTLE, WASHINGTON

Prepared for
King County Facilities Management Division

Prepared by
Herrera Environmental Consultants, Inc.



Note:

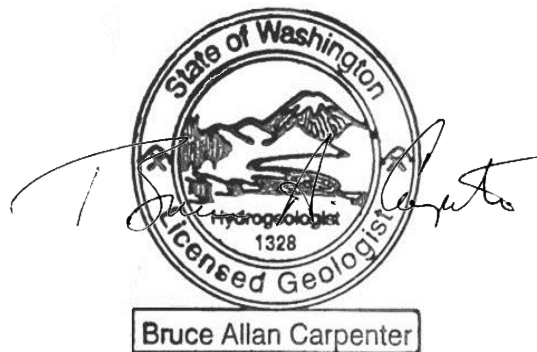
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GROUNDWATER MONITORING REPORT - OCTOBER 2014

YOUTH SERVICES CENTER
1211 EAST ALDER STREET
SEATTLE, WASHINGTON

Prepared for
King County Facilities Management Division
500 Fourth Avenue, Room 820
Seattle, Washington 98104

Prepared by
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November 5, 2014

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Introduction

Herrera Environmental Consultants (Herrera) was contracted by King County Facilities Management Division to conduct a follow-up sampling of 12 groundwater monitoring wells located at the Youth Services Center (YSC), located at 1211 East Alder Street in Seattle, Washington, Washington (Figure 1). This report presents the results of groundwater monitoring performed in October 2014.

Site Description and Background

A Phase II Environmental Site Assessment (ESA) of the YSC site was completed in November 2013 by Herrera for King County Facilities Management Division as part of the County's background studies for future redevelopment of the site. Analytical results of groundwater samples collected from a number of probes and monitoring wells during the Phase II ESA identified the presence of tetrachloroethylene (also known as perchloroethylene, or "perc") and other chemicals associated with dry cleaning in groundwater beneath the site. As the highest levels of these chemicals were observed at the upgradient boundary of the site, the source(s) appears to be one or more former dry cleaning businesses located north of the YSC property. These former businesses were identified in the 2010 Phase I ESA, also performed by Herrera, as historical sites of concern. The samples and results discussed in this report were collected as a follow-up to the data presented in the Phase II ESA for the purpose of determining current conditions and assessing seasonal or other variations.

The 2013 Phase II ESA identified a major plume of dry cleaning solvents composed of a mixture of tetrachloroethylene, trichloroethylene, and trans- and cis-dichloroethylenes; the degradation by-product vinyl chloride was not detected in any sample. Tetrachloroethylene was found at all 17 locations contamination was present, including both geoprobes and monitoring wells. Concentrations exceeded the Model Toxics Control (MTCA) method A cleanup level of 5 milligrams per liter (mg/L) at 13 of them; trichloroethylene was found at seven of the same locations and the dichloroethylenes were found at three of the locations.

Additional groundwater sampling was performed by Herrera in March 2014 to monitor seasonal variation of groundwater levels and contaminant concentrations. These results were presented in a report prepared by Herrera for King County in April 2014.

Results

Detailed subsurface conditions at the site are described in the 2013 Phase II ESA report. Groundwater monitoring and sampling, and sample management procedures followed the same protocols described in the 2013 Phase II ESA report.

Groundwater Conditions

Groundwater levels measured at 12 monitoring wells and three piezometers on October 8, 2014, are provided in Table 1, along with measurements from September 2013 and March 2014. Water level elevations across the property ranged from 0.2 to 3.4 feet lower in October, very comparable to measurements made in September 2013. October water levels were approximately 3 feet lower across the northwest portion of the property, 1.5 feet lower

Table 1. Summary of Water Level Elevation Data from Monitoring Wells at Youth Services Center, Seattle, Washington.

Monitoring Well Identification	Measurement Date	Reference Point Elevation ^a (feet MSL)	Depth to Water ^b (feet)	Water Level Elevation (feet MSL)
MW-1s	9/23/13	254.65	8.98	245.67
	3/26/14	254.65	5.64	249.01
	10/8/14	254.65	9.04	245.61
MW-1d	9/23/13	254.62	7.94	246.68
	3/26/14	254.62	5.06	249.56
	10/8/14	254.62	7.96	246.66
MW-2	9/23/13	248.16	17.95	230.21
	3/26/14	248.16	14.89	233.27
	10/8/14	248.16	17.02	231.14
MW-3	9/23/13	223.34	9.18	214.16
	3/26/14	223.34	8.50	214.84
	10/8/14	223.34	9.24	214.10
MW-4	9/23/13	215.91	7.99	207.92
	3/26/14	215.91	7.61	208.30
	10/8/14	215.91	8.05	207.86
MW-5	9/23/13	215.50	7.16	208.34
	3/26/14	215.50	6.98	208.52
	10/8/14	215.50	7.20	208.30
MW-6	9/23/13	236.12	12.53	223.59
	3/26/14	236.12	10.82	225.30
	10/8/14	236.12	12.69	223.43
MW-7	9/23/13	235.44	13.32	222.12
	3/26/14	235.44	10.91	224.53
	10/8/14	235.44	13.28	222.16
MW-8	9/23/13	235.48	20.80	214.68
	3/26/14	235.48	19.23	216.25
	10/8/14	235.48	20.78	214.70
MW-9	9/23/13	250.22	8.57	241.65
	3/26/14	250.22	7.37	242.85
	10/8/14	250.22	8.69	241.53

Table 1 (continued). Summary of Water Level Elevation Data from Monitoring Wells at Youth Services Center, Seattle, Washington.

Monitoring Well Identification	Measurement Date	Reference Point Elevation ^a (feet MSL)	Depth to Water ^b (feet)	Water Level Elevation (feet MSL)
MW-10	9/23/13	251.63	4.75	246.88
	3/26/14	251.63	3.86	247.77
	10/8/14	251.63	4.92	246.71
MW-11	9/23/13	251.99	12.14	239.85
	3/26/14	251.99	9.15	242.84
	10/8/14	251.99	12.29	239.70
P-2	9/23/13	246.19	14.30	231.89
	3/26/14	246.19	12.33	233.86
	10/8/14	246.19	14.37	231.82
P-3	9/23/13	239.90	4.55	235.35
	3/26/14	239.90	2.42	237.48
	10/8/14	239.90	4.65	235.25
P-9	9/23/13	216.55	NA	NA
	3/26/14	216.55	7.91	208.64
	10/8/14	216.55	8.47	208.08

^a Top of well casing was surveyed to Mean Sea Level.

^b Depth to water measurements were taken from reference point marks on top of PVC well casing.

NA - not available

in the south-central portion of the property, and 0.5 feet higher in the southeast corner of the property than the previous March. Even though the overall site gradient was lower in October than March, the flow direction was very similar (Figure 2).

Water levels measured in MW-1s (9.0 feet below ground surface [bgs]) and in MW-1d (8.0 feet bgs) continue to indicate an upward vertical gradient. The difference in water levels has been consistently about a foot in the dry Fall periods of 2013 and 2014, approximately twice the amount measured in the wet Spring period of 2014.

Groundwater Analytical Results

Analytical results for the October 8 and 9 sampling event are presented in Table 2, with the distribution of tetrachloroethylene in groundwater across the site shown in Figure 2. The laboratory report and a Data Quality Assurance Review are attached; all data were deemed acceptable, based on *USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review*.

Tetrachloroethylene concentrations decreased slightly compared to the March 2014 sampling event at MW-1s and MW-11, the shallow wells nearest the assumed offsite source north of the northwest property corner. An increase in concentration was seen in groundwater collected from MW-1d, approximately 25 feet deeper than MW-1s, exceeding the MTCA method A cleanup level for the first time since monitoring began. Concentrations in the center of the property also increased compared to the September 2013 and March 2014 sampling events, but remained generally constant at the southern property line. Plume boundaries and general concentration gradients, defined by order-of-magnitude concentration divisions, appear similar between all three monitoring events (i.e., no change in depiction of the plume has been made, except for an order of magnitude boundary adjustment at MW-8 and a slight adjustment at the southeast corner of the property).

The tetrachloroethylene concentration at MW-9 has remained relatively consistent between the three monitoring events, possibly associated with another historical dry cleaner source northeast of the primary source.

Limitations

This report has been prepared for exclusive use by King County. The analyses and conclusions included in this report are based on conditions encountered at the time of our field investigation, as well as professional experience and judgment. Herrera cannot be responsible for interpretation by others of the data contained in this report.

Herrera's services were performed with due diligence in a manner consistent with that level of care and skill ordinarily exercised by members of the profession currently practicing under similar conditions in the area. No other warranty, express or implied, is made.

Table 2. Groundwater Dry Cleaner Solvent Analytical Results Summary (µg/L), Youth Services Center, Seattle, Washington.						
Sample Identification	Date Sampled	Analytical Parameters				
		Tetrachloroethylene	Trichloroethylene	cis-1, 2 dichloroethylene	trans-1, 2 dichloroethylene	Vinyl chloride
MW-1s	9/23/13	3,900	21	26	ND (20)	ND (20)
	3/26/14	6,900	61	120	ND (30)	ND (30)
	10/9/14	6,600	49	130	ND (30)	ND (30)
MW-1d	9/23/13	2.7	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20)
	3/26/14	4.5	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20)
	10/9/14	10	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20)
MW-2	9/23/13	3,000	ND (20)	ND (20)	ND (20)	ND (20)
	3/26/14	1,800	ND (10)	ND (10)	ND (10)	ND (10)
	10/8/14	3,500	ND (20)	ND (20)	ND (20)	ND (20)
MW-3	9/23/13	ND(1.0)	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20)
	3/26/14	ND(0.20)	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20)
	10/9/14	ND(0.20)	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20)
MW-4	9/23/13	66	1.8	ND (0.20)	ND (0.20)	ND (0.20)
	3/26/14	45	1.7	ND (0.20)	ND (0.20)	ND (0.20)
	10/9/14	58	1.7	ND (0.20)	ND (0.20)	ND (0.20)
MW-5	9/23/13	1.7	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20)
	3/26/14	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20)
	10/9/14	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20)
MW-6	7/30/13	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20)
	9/23/13	ND (1.0)	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20)
	3/27/14	ND (1.0)	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20)
	10/9/14	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20)

Table 2 (continued). Groundwater Dry Cleaner Solvent Analytical Results Summary (µg/L), Youth Services Center, Seattle, Washington.

Sample Identification	Date Sampled	Analytical Parameters				
		Tetrachloroethylene	Trichloroethylene	cis-1, 2 dichloroethylene	trans-1, 2 dichloroethylene	Vinyl chloride
MW-7	7/30/13	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20)
	9/23/13	ND (1.0)	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20)
	3/27/14	ND (1.0)	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20)
	10/9/14	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20)
MW-8	7/30/13	150	ND (0.40)	ND (0.40)	ND (0.40)	ND (0.40)
	9/23/13	98	1.9	ND (1.0)	ND (1.0)	ND (1.0)
	3/26/14	100	2.0	ND (1.0)	ND (1.0)	ND (1.0)
	10/9/14	83	1.6	ND (0.40)	ND (0.40)	ND (0.40)
MW-9	9/23/13	230	16	ND (2.0)	ND (2.0)	ND (2.0)
	3/27/14	230	14	ND (1.0)	ND (1.0)	ND (1.0)
	10/8/14	220	14	ND (1.0)	ND (1.0)	ND (1.0)
MW-10	9/23/13	ND (1.0)	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20)
	3/27/14	ND (1.0)	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20)
	10/9/14	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20)
MW-11	9/23/13	3,000	ND (20)	ND (20)	ND (20)	ND (20)
	3/26/14	6,800	ND (30)	ND (30)	ND (30)	ND (30)
	10/8/14	5,800	ND (20)	ND (20)	ND (20)	ND (20)
MTCA Cleanup Level		5.0 ^a	5.0 ^a	16.0 ^b	160 ^b	0.20 ^a

^a MTCA method A cleanup level for unrestricted land use

^b MTCA method B cleanup level

µg/L - micrograms per liter

Bold values were detected

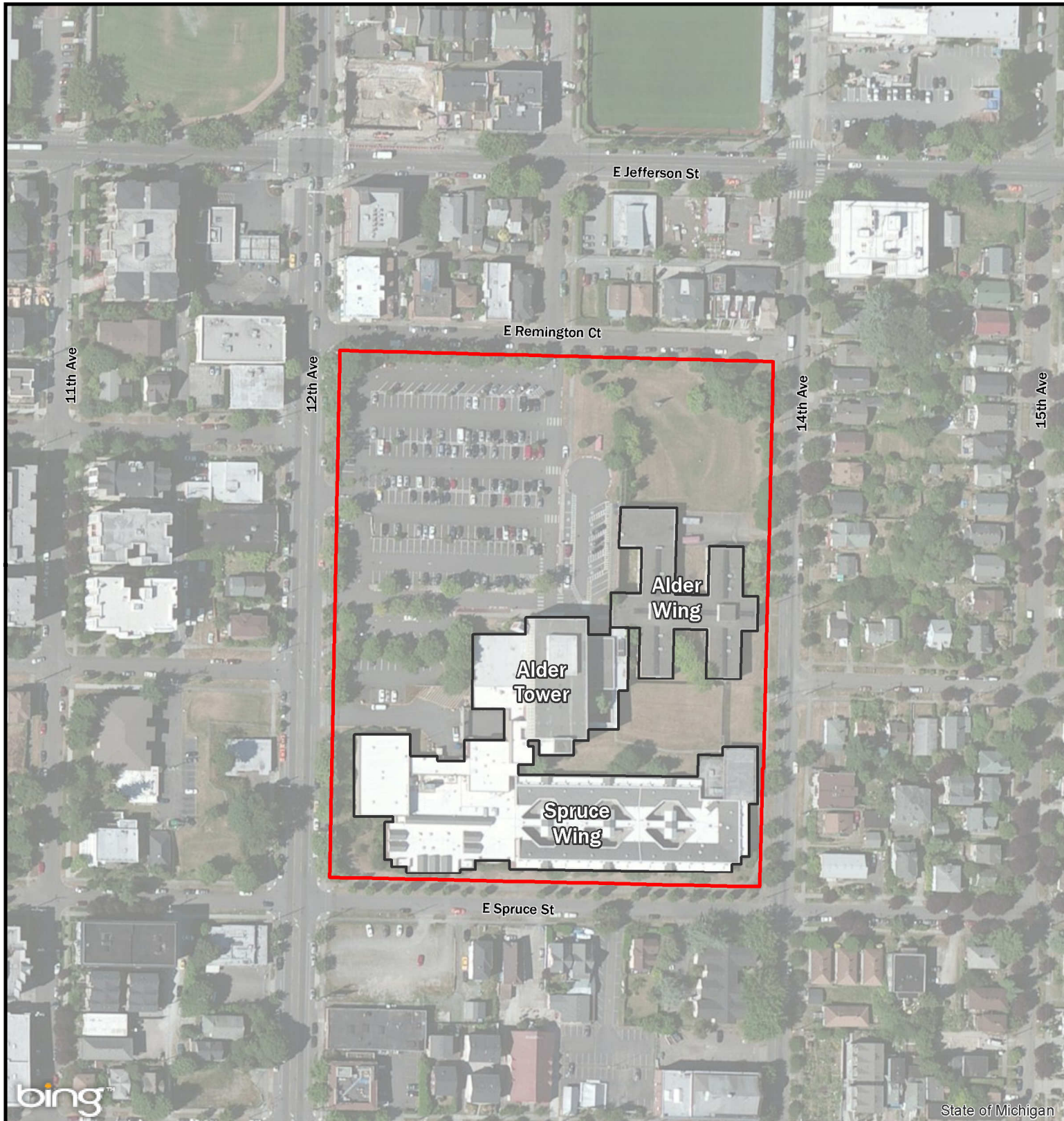
Bold and shaded values exceed MTCA cleanup level

ND - Constituent not detected (detection limit)



November 2014

FIGURES



Legend

- Existing building
- Subject property

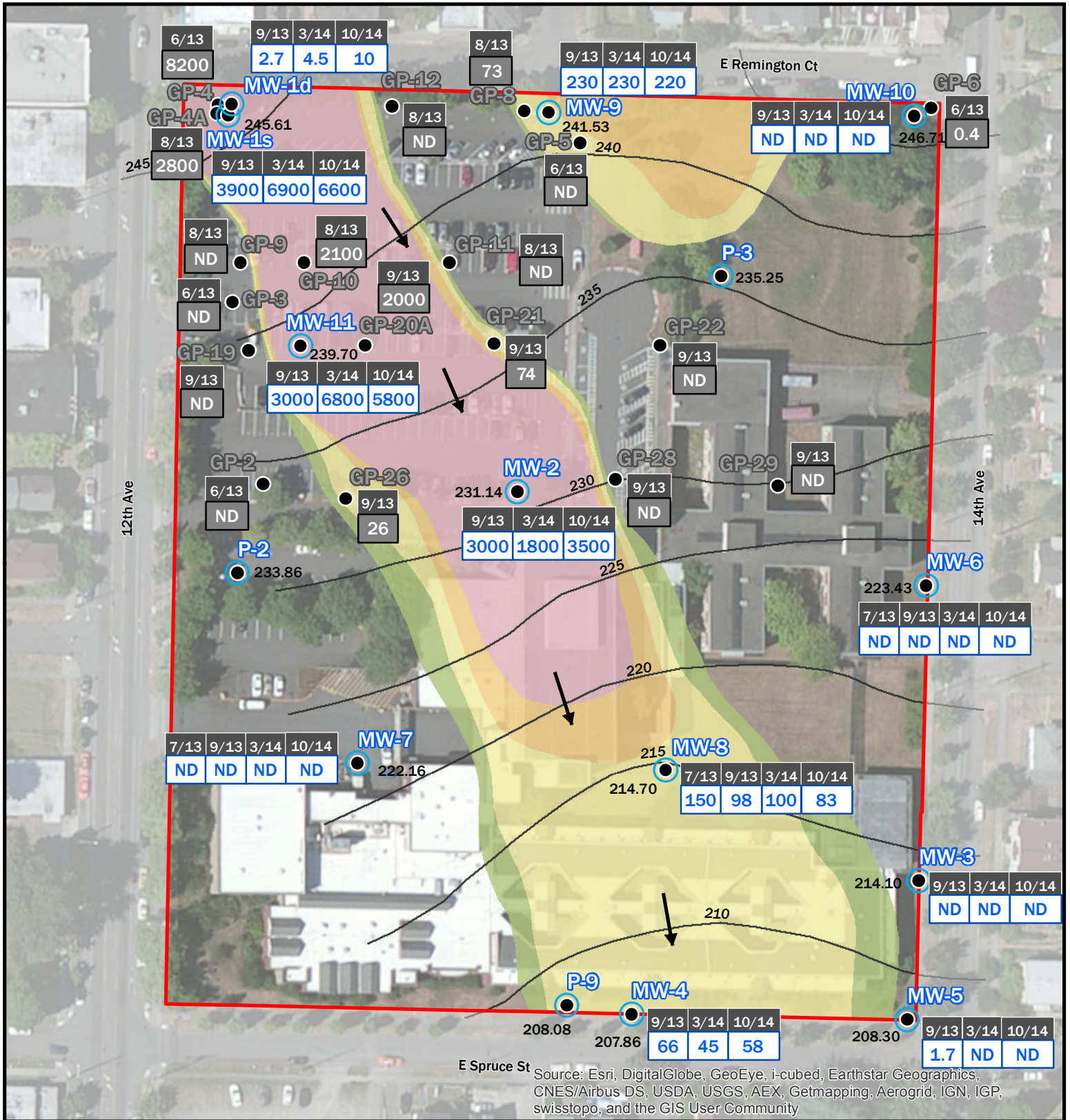


Figure 1.
Location Map, Youth Services Center,
Seattle, Washington.



Bing 2011 (Aerial)

K:\Projects\09-04 193-002\Project\youth_service_center-site.mxd



Legend

Approx. PCE concentration (µg/L)

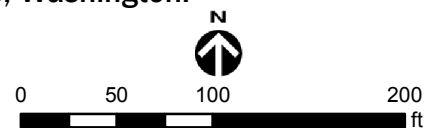
- < 1
- 1 - 100
- 100 - 1,000
- > 1,000

- 208.08 - Groundwater surface elevation
- Monitoring well/piezometer location
- mm/yy PCE concentration and sampling date
- ##
- 225 Groundwater contour
- Estimated direction of groundwater flow
- Subject property

Notes:
Groundwater elevations based on survey (NAVD 1988) completed by Parametrix, July 14-18 and September 23, 2013.
Water levels measured on October 8, 2014.
YSC prefix has been removed from probe labels to improve legibility of figure.
ND: non-detect concentration

Figure 2.

Groundwater Sampling Summary Results
(as of October 2014), Youth Services Center,
Seattle, Washington.



HERRERA

ESRI 2011 (Aerial)
K:\Project\Y2014\14-05838-001\Project\groundwater_sampling_results_201410.mxd

ATTACHMENT A

Data Quality Review, Laboratory Analytical Report, Chain of Custody Record

Data Quality Assurance Review Summary

A data quality assurance review was performed on all analytical data from groundwater samples collected on October 8 and 9, 2014, at the Youth Services Center in Seattle, Washington. The laboratory's performance was reviewed in accordance with quality control specifications outlined by the analytical methods and the US Environmental Protection Agency (USEPA) functional guidelines for organic data review (USEPA 2008) and with laboratory quality control limits.

Twelve water samples were collected for chemical analysis from monitoring wells MW-1s, MW-1d, MW-2, MW-3, MW-4, MW-5, MW-6, MW-7, MW-8, MW-9, MW-10, and MW-11. OnSite Environmental Inc. of Redmond, Washington, analyzed all water samples for halogenated volatile organic compounds (HVOCs) using USEPA Method 8260C (USEPA 2006).

Quality control data submitted by the laboratory were reviewed; raw laboratory data were not provided or reviewed. Review of the laboratory report and data validation results is summarized below.

Water HVOC Analytical Results

The water HVOC results were determined to be acceptable for use and no data were qualified, based on the following criteria:

- **Holding Times**—All water samples were preserved with hydrochloric acid and analyzed within the maximum holding time (14 days) for USEPA Method 8260C.
- **Laboratory Reporting Limits**—The laboratory reporting (practical quantitation) limits for HVOC constituents in water were below regulatory criteria (i.e., WAC 173-340) for samples collected from wells MW-1d, MW-3, MW-4, MW-5, MW-6, MW-7, and MW-12. The elevated detection of tetrachloroethylene required sample dilution in samples collected from wells MW-1s, MW-2, MW-8, MW-9, and MW-11, raising the practical quantitation limit for vinyl chloride, methylene chloride, and trichloroethylene above regulatory criteria.
- **Blank Analysis**—Two method blanks were analyzed with the water samples. The method blanks contained no reportable levels of HVOC constituents above practical quantitation limits, and no data have been qualified. No field blanks were collected.
- **Surrogate Analysis**—Three surrogate compounds were analyzed with the project samples and method blanks in accordance with the USEPA Method 8260C. As shown in Table A1, surrogate recovery values for each compound were within the respective laboratory control limit ranges.
- **Spike Blank Analysis**—Two spike blank/spike blank duplicate (SB/SBD) samples were analyzed with the project samples. Spike levels were 10 times the laboratory reporting (practical quantitation) limits. Percent recovery and RPD results were correctly calculated. As shown in Table A2, percent recovery and RPD values for the five HVOC targeted constituents were within their respective laboratory control limit ranges.

Table A1. Water HVOC Surrogate Recovery Results.			
Compound	Project Water Samples Percent Recovery	Method Blanks Percent Recovery	Laboratory QC Limits—Water
Dibromofluoromethane	98-103	100-101	62-122
Toluene-d8	97-102	100	70-120
4-Bromofluorobenzene	91-97	95-97	71-120

Table A2. Water HVOC Spike Blank Results.					
Compound	SB Percent Recovery	SBD Percent Recovery	Laboratory Percent Recovery Limits	SB/SBD RPD Results	Laboratory RPD QC Limits
1,1-Dichloroethene	110-115	109-111	63-142	1-5	0-17
Benzene	102-108	101-103	76-125	1-7	0-15
Trichloroethene	90-93	88-91	74-125	1-6	0-16
Toluene	103-107	100-102	75-125	1-7	0-15
Chlorobenzene	97-98	95-98	80-140	2-3	0-15

References

USEPA. 2006. Test Methods for Evaluating Solid Waste, Physical/Chemical Methods SW-846 Third Edition, Updates I, II, IIA, IIB, IIIA, IIIB, IVA, and IVB. Office of Solid Waste and Emergency Response, US Environmental Protection Agency, Washington, D.C. February 2006.

USEPA. 2008. USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review. EPA 540-R-08-01. OSWER 9240.1-48. Office of Superfund Remediation and Technology Innovation (OSRTI), US Environmental Protection Agency, Washington, D.C. June 2008.



14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

October 17, 2014

Bruce Carpenter
Herrera Environmental Consultants, Inc.
2200 6th Avenue, Suite 1100
Seattle, WA 98121

Re: Analytical Data for Project 14-05838-001
Laboratory Reference No. 1410-131

Dear Bruce:

Enclosed are the analytical results and associated quality control data for samples submitted on October 10, 2014.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

A handwritten signature in black ink, appearing to read "DeB" followed by a stylized flourish.

David Baumeister
Project Manager

Enclosures

Date of Report: October 17, 2014
Samples Submitted: October 10, 2014
Laboratory Reference: 1410-131
Project: 14-05838-001

Case Narrative

Samples were collected on October 8 and 9, 2014 and received by the laboratory on October 10, 2014. They were maintained at the laboratory at a temperature of 2°C to 6°C.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

Date of Report: October 17, 2014
 Samples Submitted: October 10, 2014
 Laboratory Reference: 1410-131
 Project: 14-05838-001

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-1s					
Laboratory ID:	10-131-01					
Dichlorodifluoromethane	ND	30	EPA 8260C	10-14-14	10-14-14	
Chloromethane	ND	150	EPA 8260C	10-14-14	10-14-14	
Vinyl Chloride	ND	30	EPA 8260C	10-14-14	10-14-14	
Bromomethane	ND	30	EPA 8260C	10-14-14	10-14-14	
Chloroethane	ND	150	EPA 8260C	10-14-14	10-14-14	
Trichlorofluoromethane	ND	30	EPA 8260C	10-14-14	10-14-14	
1,1-Dichloroethene	ND	30	EPA 8260C	10-14-14	10-14-14	
Iodomethane	ND	150	EPA 8260C	10-14-14	10-14-14	
Methylene Chloride	ND	150	EPA 8260C	10-14-14	10-14-14	
(trans) 1,2-Dichloroethene	ND	30	EPA 8260C	10-14-14	10-14-14	
1,1-Dichloroethane	ND	30	EPA 8260C	10-14-14	10-14-14	
2,2-Dichloropropane	ND	30	EPA 8260C	10-14-14	10-14-14	
(cis) 1,2-Dichloroethene	130	30	EPA 8260C	10-14-14	10-14-14	
Bromochloromethane	ND	30	EPA 8260C	10-14-14	10-14-14	
Chloroform	ND	30	EPA 8260C	10-14-14	10-14-14	
1,1,1-Trichloroethane	ND	30	EPA 8260C	10-14-14	10-14-14	
Carbon Tetrachloride	ND	30	EPA 8260C	10-14-14	10-14-14	
1,1-Dichloropropene	ND	30	EPA 8260C	10-14-14	10-14-14	
1,2-Dichloroethane	ND	30	EPA 8260C	10-14-14	10-14-14	
Trichloroethene	49	30	EPA 8260C	10-14-14	10-14-14	
1,2-Dichloropropane	ND	30	EPA 8260C	10-14-14	10-14-14	
Dibromomethane	ND	30	EPA 8260C	10-14-14	10-14-14	
Bromodichloromethane	ND	30	EPA 8260C	10-14-14	10-14-14	
2-Chloroethyl Vinyl Ether	ND	150	EPA 8260C	10-14-14	10-14-14	
(cis) 1,3-Dichloropropene	ND	30	EPA 8260C	10-14-14	10-14-14	
(trans) 1,3-Dichloropropene	ND	30	EPA 8260C	10-14-14	10-14-14	

Date of Report: October 17, 2014
 Samples Submitted: October 10, 2014
 Laboratory Reference: 1410-131
 Project: 14-05838-001

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-1s					
Laboratory ID:	10-131-01					
1,1,2-Trichloroethane	ND	30	EPA 8260C	10-14-14	10-14-14	
Tetrachloroethene	6600	30	EPA 8260C	10-14-14	10-14-14	
1,3-Dichloropropane	ND	30	EPA 8260C	10-14-14	10-14-14	
Dibromochloromethane	ND	30	EPA 8260C	10-14-14	10-14-14	
1,2-Dibromoethane	ND	30	EPA 8260C	10-14-14	10-14-14	
Chlorobenzene	ND	30	EPA 8260C	10-14-14	10-14-14	
1,1,1,2-Tetrachloroethane	ND	30	EPA 8260C	10-14-14	10-14-14	
Bromoform	ND	150	EPA 8260C	10-14-14	10-14-14	
Bromobenzene	ND	30	EPA 8260C	10-14-14	10-14-14	
1,1,2,2-Tetrachloroethane	ND	30	EPA 8260C	10-14-14	10-14-14	
1,2,3-Trichloropropane	ND	30	EPA 8260C	10-14-14	10-14-14	
2-Chlorotoluene	ND	30	EPA 8260C	10-14-14	10-14-14	
4-Chlorotoluene	ND	30	EPA 8260C	10-14-14	10-14-14	
1,3-Dichlorobenzene	ND	30	EPA 8260C	10-14-14	10-14-14	
1,4-Dichlorobenzene	ND	30	EPA 8260C	10-14-14	10-14-14	
1,2-Dichlorobenzene	ND	30	EPA 8260C	10-14-14	10-14-14	
1,2-Dibromo-3-chloropropane	ND	150	EPA 8260C	10-14-14	10-14-14	
1,2,4-Trichlorobenzene	ND	30	EPA 8260C	10-14-14	10-14-14	
Hexachlorobutadiene	ND	30	EPA 8260C	10-14-14	10-14-14	
1,2,3-Trichlorobenzene	ND	30	EPA 8260C	10-14-14	10-14-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>103</i>	<i>62-122</i>				
<i>Toluene-d8</i>	<i>99</i>	<i>70-120</i>				
<i>4-Bromofluorobenzene</i>	<i>94</i>	<i>71-120</i>				

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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-1d					
Laboratory ID:	10-131-02					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	10-15-14	10-15-14	
Chloromethane	ND	1.0	EPA 8260C	10-15-14	10-15-14	
Vinyl Chloride	ND	0.20	EPA 8260C	10-15-14	10-15-14	
Bromomethane	ND	0.20	EPA 8260C	10-15-14	10-15-14	
Chloroethane	ND	1.0	EPA 8260C	10-15-14	10-15-14	
Trichlorofluoromethane	ND	0.20	EPA 8260C	10-15-14	10-15-14	
1,1-Dichloroethene	ND	0.20	EPA 8260C	10-15-14	10-15-14	
Iodomethane	ND	1.0	EPA 8260C	10-15-14	10-15-14	
Methylene Chloride	ND	1.0	EPA 8260C	10-15-14	10-15-14	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	10-15-14	10-15-14	
1,1-Dichloroethane	ND	0.20	EPA 8260C	10-15-14	10-15-14	
2,2-Dichloropropane	ND	0.20	EPA 8260C	10-15-14	10-15-14	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	10-15-14	10-15-14	
Bromochloromethane	ND	0.20	EPA 8260C	10-15-14	10-15-14	
Chloroform	ND	0.20	EPA 8260C	10-15-14	10-15-14	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	10-15-14	10-15-14	
Carbon Tetrachloride	ND	0.20	EPA 8260C	10-15-14	10-15-14	
1,1-Dichloropropene	ND	0.20	EPA 8260C	10-15-14	10-15-14	
1,2-Dichloroethane	ND	0.20	EPA 8260C	10-15-14	10-15-14	
Trichloroethene	ND	0.20	EPA 8260C	10-15-14	10-15-14	
1,2-Dichloropropane	ND	0.20	EPA 8260C	10-15-14	10-15-14	
Dibromomethane	ND	0.20	EPA 8260C	10-15-14	10-15-14	
Bromodichloromethane	ND	0.20	EPA 8260C	10-15-14	10-15-14	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	10-15-14	10-15-14	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	10-15-14	10-15-14	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	10-15-14	10-15-14	

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-1d					
Laboratory ID:	10-131-02					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	10-15-14	10-15-14	
Tetrachloroethene	10	0.20	EPA 8260C	10-15-14	10-15-14	
1,3-Dichloropropane	ND	0.20	EPA 8260C	10-15-14	10-15-14	
Dibromochloromethane	ND	0.20	EPA 8260C	10-15-14	10-15-14	
1,2-Dibromoethane	ND	0.20	EPA 8260C	10-15-14	10-15-14	
Chlorobenzene	ND	0.20	EPA 8260C	10-15-14	10-15-14	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	10-15-14	10-15-14	
Bromoform	ND	1.0	EPA 8260C	10-15-14	10-15-14	
Bromobenzene	ND	0.20	EPA 8260C	10-15-14	10-15-14	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	10-15-14	10-15-14	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	10-15-14	10-15-14	
2-Chlorotoluene	ND	0.20	EPA 8260C	10-15-14	10-15-14	
4-Chlorotoluene	ND	0.20	EPA 8260C	10-15-14	10-15-14	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	10-15-14	10-15-14	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	10-15-14	10-15-14	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	10-15-14	10-15-14	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	10-15-14	10-15-14	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	10-15-14	10-15-14	
Hexachlorobutadiene	ND	0.20	EPA 8260C	10-15-14	10-15-14	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	10-15-14	10-15-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>98</i>	<i>79-122</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>80-120</i>				
<i>4-Bromofluorobenzene</i>	<i>94</i>	<i>80-120</i>				

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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-2					
Laboratory ID:	10-131-03					
Dichlorodifluoromethane	ND	20	EPA 8260C	10-14-14	10-14-14	
Chloromethane	ND	100	EPA 8260C	10-14-14	10-14-14	
Vinyl Chloride	ND	20	EPA 8260C	10-14-14	10-14-14	
Bromomethane	ND	20	EPA 8260C	10-14-14	10-14-14	
Chloroethane	ND	100	EPA 8260C	10-14-14	10-14-14	
Trichlorofluoromethane	ND	20	EPA 8260C	10-14-14	10-14-14	
1,1-Dichloroethene	ND	20	EPA 8260C	10-14-14	10-14-14	
Iodomethane	ND	100	EPA 8260C	10-14-14	10-14-14	
Methylene Chloride	ND	100	EPA 8260C	10-14-14	10-14-14	
(trans) 1,2-Dichloroethene	ND	20	EPA 8260C	10-14-14	10-14-14	
1,1-Dichloroethane	ND	20	EPA 8260C	10-14-14	10-14-14	
2,2-Dichloropropane	ND	20	EPA 8260C	10-14-14	10-14-14	
(cis) 1,2-Dichloroethene	ND	20	EPA 8260C	10-14-14	10-14-14	
Bromochloromethane	ND	20	EPA 8260C	10-14-14	10-14-14	
Chloroform	ND	20	EPA 8260C	10-14-14	10-14-14	
1,1,1-Trichloroethane	ND	20	EPA 8260C	10-14-14	10-14-14	
Carbon Tetrachloride	ND	20	EPA 8260C	10-14-14	10-14-14	
1,1-Dichloropropene	ND	20	EPA 8260C	10-14-14	10-14-14	
1,2-Dichloroethane	ND	20	EPA 8260C	10-14-14	10-14-14	
Trichloroethene	ND	20	EPA 8260C	10-14-14	10-14-14	
1,2-Dichloropropane	ND	20	EPA 8260C	10-14-14	10-14-14	
Dibromomethane	ND	20	EPA 8260C	10-14-14	10-14-14	
Bromodichloromethane	ND	20	EPA 8260C	10-14-14	10-14-14	
2-Chloroethyl Vinyl Ether	ND	100	EPA 8260C	10-14-14	10-14-14	
(cis) 1,3-Dichloropropene	ND	20	EPA 8260C	10-14-14	10-14-14	
(trans) 1,3-Dichloropropene	ND	20	EPA 8260C	10-14-14	10-14-14	

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-2					
Laboratory ID:	10-131-03					
1,1,2-Trichloroethane	ND	20	EPA 8260C	10-14-14	10-14-14	
Tetrachloroethene	3500	20	EPA 8260C	10-14-14	10-14-14	
1,3-Dichloropropane	ND	20	EPA 8260C	10-14-14	10-14-14	
Dibromochloromethane	ND	20	EPA 8260C	10-14-14	10-14-14	
1,2-Dibromoethane	ND	20	EPA 8260C	10-14-14	10-14-14	
Chlorobenzene	ND	20	EPA 8260C	10-14-14	10-14-14	
1,1,1,2-Tetrachloroethane	ND	20	EPA 8260C	10-14-14	10-14-14	
Bromoform	ND	100	EPA 8260C	10-14-14	10-14-14	
Bromobenzene	ND	20	EPA 8260C	10-14-14	10-14-14	
1,1,2,2-Tetrachloroethane	ND	20	EPA 8260C	10-14-14	10-14-14	
1,2,3-Trichloropropane	ND	20	EPA 8260C	10-14-14	10-14-14	
2-Chlorotoluene	ND	20	EPA 8260C	10-14-14	10-14-14	
4-Chlorotoluene	ND	20	EPA 8260C	10-14-14	10-14-14	
1,3-Dichlorobenzene	ND	20	EPA 8260C	10-14-14	10-14-14	
1,4-Dichlorobenzene	ND	20	EPA 8260C	10-14-14	10-14-14	
1,2-Dichlorobenzene	ND	20	EPA 8260C	10-14-14	10-14-14	
1,2-Dibromo-3-chloropropane	ND	100	EPA 8260C	10-14-14	10-14-14	
1,2,4-Trichlorobenzene	ND	20	EPA 8260C	10-14-14	10-14-14	
Hexachlorobutadiene	ND	20	EPA 8260C	10-14-14	10-14-14	
1,2,3-Trichlorobenzene	ND	20	EPA 8260C	10-14-14	10-14-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>101</i>	<i>62-122</i>				
<i>Toluene-d8</i>	<i>98</i>	<i>70-120</i>				
<i>4-Bromofluorobenzene</i>	<i>95</i>	<i>71-120</i>				

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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-3					
Laboratory ID:	10-131-04					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	10-15-14	10-15-14	
Chloromethane	ND	1.0	EPA 8260C	10-15-14	10-15-14	
Vinyl Chloride	ND	0.20	EPA 8260C	10-15-14	10-15-14	
Bromomethane	ND	0.20	EPA 8260C	10-15-14	10-15-14	
Chloroethane	ND	1.0	EPA 8260C	10-15-14	10-15-14	
Trichlorofluoromethane	ND	0.20	EPA 8260C	10-15-14	10-15-14	
1,1-Dichloroethene	ND	0.20	EPA 8260C	10-15-14	10-15-14	
Iodomethane	ND	1.0	EPA 8260C	10-15-14	10-15-14	
Methylene Chloride	ND	1.0	EPA 8260C	10-15-14	10-15-14	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	10-15-14	10-15-14	
1,1-Dichloroethane	ND	0.20	EPA 8260C	10-15-14	10-15-14	
2,2-Dichloropropane	ND	0.20	EPA 8260C	10-15-14	10-15-14	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	10-15-14	10-15-14	
Bromochloromethane	ND	0.20	EPA 8260C	10-15-14	10-15-14	
Chloroform	ND	0.20	EPA 8260C	10-15-14	10-15-14	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	10-15-14	10-15-14	
Carbon Tetrachloride	ND	0.20	EPA 8260C	10-15-14	10-15-14	
1,1-Dichloropropene	ND	0.20	EPA 8260C	10-15-14	10-15-14	
1,2-Dichloroethane	ND	0.20	EPA 8260C	10-15-14	10-15-14	
Trichloroethene	ND	0.20	EPA 8260C	10-15-14	10-15-14	
1,2-Dichloropropane	ND	0.20	EPA 8260C	10-15-14	10-15-14	
Dibromomethane	ND	0.20	EPA 8260C	10-15-14	10-15-14	
Bromodichloromethane	ND	0.20	EPA 8260C	10-15-14	10-15-14	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	10-15-14	10-15-14	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	10-15-14	10-15-14	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	10-15-14	10-15-14	

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-3					
Laboratory ID:	10-131-04					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	10-15-14	10-15-14	
Tetrachloroethene	ND	0.20	EPA 8260C	10-15-14	10-15-14	
1,3-Dichloropropane	ND	0.20	EPA 8260C	10-15-14	10-15-14	
Dibromochloromethane	ND	0.20	EPA 8260C	10-15-14	10-15-14	
1,2-Dibromoethane	ND	0.20	EPA 8260C	10-15-14	10-15-14	
Chlorobenzene	ND	0.20	EPA 8260C	10-15-14	10-15-14	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	10-15-14	10-15-14	
Bromoform	ND	1.0	EPA 8260C	10-15-14	10-15-14	
Bromobenzene	ND	0.20	EPA 8260C	10-15-14	10-15-14	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	10-15-14	10-15-14	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	10-15-14	10-15-14	
2-Chlorotoluene	ND	0.20	EPA 8260C	10-15-14	10-15-14	
4-Chlorotoluene	ND	0.20	EPA 8260C	10-15-14	10-15-14	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	10-15-14	10-15-14	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	10-15-14	10-15-14	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	10-15-14	10-15-14	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	10-15-14	10-15-14	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	10-15-14	10-15-14	
Hexachlorobutadiene	ND	0.20	EPA 8260C	10-15-14	10-15-14	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	10-15-14	10-15-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	98	79-122				
<i>Toluene-d8</i>	99	80-120				
<i>4-Bromofluorobenzene</i>	96	80-120				

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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-4					
Laboratory ID:	10-131-05					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	10-14-14	10-14-14	
Chloromethane	ND	1.0	EPA 8260C	10-14-14	10-14-14	
Vinyl Chloride	ND	0.20	EPA 8260C	10-14-14	10-14-14	
Bromomethane	ND	0.20	EPA 8260C	10-14-14	10-14-14	
Chloroethane	ND	1.0	EPA 8260C	10-14-14	10-14-14	
Trichlorofluoromethane	ND	0.20	EPA 8260C	10-14-14	10-14-14	
1,1-Dichloroethene	ND	0.20	EPA 8260C	10-14-14	10-14-14	
Iodomethane	ND	1.0	EPA 8260C	10-14-14	10-14-14	
Methylene Chloride	ND	1.0	EPA 8260C	10-14-14	10-14-14	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	10-14-14	10-14-14	
1,1-Dichloroethane	ND	0.20	EPA 8260C	10-14-14	10-14-14	
2,2-Dichloropropane	ND	0.20	EPA 8260C	10-14-14	10-14-14	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	10-14-14	10-14-14	
Bromochloromethane	ND	0.20	EPA 8260C	10-14-14	10-14-14	
Chloroform	ND	0.20	EPA 8260C	10-14-14	10-14-14	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	10-14-14	10-14-14	
Carbon Tetrachloride	ND	0.20	EPA 8260C	10-14-14	10-14-14	
1,1-Dichloropropene	ND	0.20	EPA 8260C	10-14-14	10-14-14	
1,2-Dichloroethane	ND	0.20	EPA 8260C	10-14-14	10-14-14	
Trichloroethene	1.7	0.20	EPA 8260C	10-14-14	10-14-14	
1,2-Dichloropropane	ND	0.20	EPA 8260C	10-14-14	10-14-14	
Dibromomethane	ND	0.20	EPA 8260C	10-14-14	10-14-14	
Bromodichloromethane	ND	0.20	EPA 8260C	10-14-14	10-14-14	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	10-14-14	10-14-14	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	10-14-14	10-14-14	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	10-14-14	10-14-14	

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-4					
Laboratory ID:	10-131-05					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	10-14-14	10-14-14	
Tetrachloroethene	58	1.0	EPA 8260C	10-15-14	10-15-14	
1,3-Dichloropropane	ND	0.20	EPA 8260C	10-14-14	10-14-14	
Dibromochloromethane	ND	0.20	EPA 8260C	10-14-14	10-14-14	
1,2-Dibromoethane	ND	0.20	EPA 8260C	10-14-14	10-14-14	
Chlorobenzene	ND	0.20	EPA 8260C	10-14-14	10-14-14	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	10-14-14	10-14-14	
Bromoform	ND	1.0	EPA 8260C	10-14-14	10-14-14	
Bromobenzene	ND	0.20	EPA 8260C	10-14-14	10-14-14	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	10-14-14	10-14-14	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	10-14-14	10-14-14	
2-Chlorotoluene	ND	0.20	EPA 8260C	10-14-14	10-14-14	
4-Chlorotoluene	ND	0.20	EPA 8260C	10-14-14	10-14-14	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	10-14-14	10-14-14	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	10-14-14	10-14-14	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	10-14-14	10-14-14	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	10-14-14	10-14-14	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	10-14-14	10-14-14	
Hexachlorobutadiene	ND	0.20	EPA 8260C	10-14-14	10-14-14	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	10-14-14	10-14-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>100</i>	<i>62-122</i>				
<i>Toluene-d8</i>	<i>98</i>	<i>70-120</i>				
<i>4-Bromofluorobenzene</i>	<i>92</i>	<i>71-120</i>				

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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-5					
Laboratory ID:	10-131-06					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	10-14-14	10-14-14	
Chloromethane	ND	1.0	EPA 8260C	10-14-14	10-14-14	
Vinyl Chloride	ND	0.20	EPA 8260C	10-14-14	10-14-14	
Bromomethane	ND	0.20	EPA 8260C	10-14-14	10-14-14	
Chloroethane	ND	1.0	EPA 8260C	10-14-14	10-14-14	
Trichlorofluoromethane	ND	0.20	EPA 8260C	10-14-14	10-14-14	
1,1-Dichloroethene	ND	0.20	EPA 8260C	10-14-14	10-14-14	
Iodomethane	ND	1.0	EPA 8260C	10-14-14	10-14-14	
Methylene Chloride	ND	1.0	EPA 8260C	10-14-14	10-14-14	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	10-14-14	10-14-14	
1,1-Dichloroethane	ND	0.20	EPA 8260C	10-14-14	10-14-14	
2,2-Dichloropropane	ND	0.20	EPA 8260C	10-14-14	10-14-14	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	10-14-14	10-14-14	
Bromochloromethane	ND	0.20	EPA 8260C	10-14-14	10-14-14	
Chloroform	ND	0.20	EPA 8260C	10-14-14	10-14-14	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	10-14-14	10-14-14	
Carbon Tetrachloride	ND	0.20	EPA 8260C	10-14-14	10-14-14	
1,1-Dichloropropene	ND	0.20	EPA 8260C	10-14-14	10-14-14	
1,2-Dichloroethane	ND	0.20	EPA 8260C	10-14-14	10-14-14	
Trichloroethene	ND	0.20	EPA 8260C	10-14-14	10-14-14	
1,2-Dichloropropane	ND	0.20	EPA 8260C	10-14-14	10-14-14	
Dibromomethane	ND	0.20	EPA 8260C	10-14-14	10-14-14	
Bromodichloromethane	ND	0.20	EPA 8260C	10-14-14	10-14-14	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	10-14-14	10-14-14	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	10-14-14	10-14-14	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	10-14-14	10-14-14	

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-5					
Laboratory ID:	10-131-06					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	10-14-14	10-14-14	
Tetrachloroethene	ND	0.20	EPA 8260C	10-14-14	10-14-14	
1,3-Dichloropropane	ND	0.20	EPA 8260C	10-14-14	10-14-14	
Dibromochloromethane	ND	0.20	EPA 8260C	10-14-14	10-14-14	
1,2-Dibromoethane	ND	0.20	EPA 8260C	10-14-14	10-14-14	
Chlorobenzene	ND	0.20	EPA 8260C	10-14-14	10-14-14	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	10-14-14	10-14-14	
Bromoform	ND	1.0	EPA 8260C	10-14-14	10-14-14	
Bromobenzene	ND	0.20	EPA 8260C	10-14-14	10-14-14	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	10-14-14	10-14-14	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	10-14-14	10-14-14	
2-Chlorotoluene	ND	0.20	EPA 8260C	10-14-14	10-14-14	
4-Chlorotoluene	ND	0.20	EPA 8260C	10-14-14	10-14-14	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	10-14-14	10-14-14	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	10-14-14	10-14-14	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	10-14-14	10-14-14	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	10-14-14	10-14-14	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	10-14-14	10-14-14	
Hexachlorobutadiene	ND	0.20	EPA 8260C	10-14-14	10-14-14	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	10-14-14	10-14-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>102</i>	<i>62-122</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>70-120</i>				
<i>4-Bromofluorobenzene</i>	<i>96</i>	<i>71-120</i>				

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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-6					
Laboratory ID:	10-131-07					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	10-14-14	10-14-14	
Chloromethane	ND	1.0	EPA 8260C	10-14-14	10-14-14	
Vinyl Chloride	ND	0.20	EPA 8260C	10-14-14	10-14-14	
Bromomethane	ND	0.20	EPA 8260C	10-14-14	10-14-14	
Chloroethane	ND	1.0	EPA 8260C	10-14-14	10-14-14	
Trichlorofluoromethane	ND	0.20	EPA 8260C	10-14-14	10-14-14	
1,1-Dichloroethene	ND	0.20	EPA 8260C	10-14-14	10-14-14	
Iodomethane	ND	1.0	EPA 8260C	10-14-14	10-14-14	
Methylene Chloride	ND	1.0	EPA 8260C	10-14-14	10-14-14	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	10-14-14	10-14-14	
1,1-Dichloroethane	ND	0.20	EPA 8260C	10-14-14	10-14-14	
2,2-Dichloropropane	ND	0.20	EPA 8260C	10-14-14	10-14-14	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	10-14-14	10-14-14	
Bromochloromethane	ND	0.20	EPA 8260C	10-14-14	10-14-14	
Chloroform	ND	0.20	EPA 8260C	10-14-14	10-14-14	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	10-14-14	10-14-14	
Carbon Tetrachloride	ND	0.20	EPA 8260C	10-14-14	10-14-14	
1,1-Dichloropropene	ND	0.20	EPA 8260C	10-14-14	10-14-14	
1,2-Dichloroethane	ND	0.20	EPA 8260C	10-14-14	10-14-14	
Trichloroethene	ND	0.20	EPA 8260C	10-14-14	10-14-14	
1,2-Dichloropropane	ND	0.20	EPA 8260C	10-14-14	10-14-14	
Dibromomethane	ND	0.20	EPA 8260C	10-14-14	10-14-14	
Bromodichloromethane	ND	0.20	EPA 8260C	10-14-14	10-14-14	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	10-14-14	10-14-14	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	10-14-14	10-14-14	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	10-14-14	10-14-14	

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-6					
Laboratory ID:	10-131-07					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	10-14-14	10-14-14	
Tetrachloroethene	ND	0.20	EPA 8260C	10-14-14	10-14-14	
1,3-Dichloropropane	ND	0.20	EPA 8260C	10-14-14	10-14-14	
Dibromochloromethane	ND	0.20	EPA 8260C	10-14-14	10-14-14	
1,2-Dibromoethane	ND	0.20	EPA 8260C	10-14-14	10-14-14	
Chlorobenzene	ND	0.20	EPA 8260C	10-14-14	10-14-14	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	10-14-14	10-14-14	
Bromoform	ND	1.0	EPA 8260C	10-14-14	10-14-14	
Bromobenzene	ND	0.20	EPA 8260C	10-14-14	10-14-14	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	10-14-14	10-14-14	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	10-14-14	10-14-14	
2-Chlorotoluene	ND	0.20	EPA 8260C	10-14-14	10-14-14	
4-Chlorotoluene	ND	0.20	EPA 8260C	10-14-14	10-14-14	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	10-14-14	10-14-14	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	10-14-14	10-14-14	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	10-14-14	10-14-14	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	10-14-14	10-14-14	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	10-14-14	10-14-14	
Hexachlorobutadiene	ND	0.20	EPA 8260C	10-14-14	10-14-14	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	10-14-14	10-14-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>98</i>	<i>62-122</i>				
<i>Toluene-d8</i>	<i>97</i>	<i>70-120</i>				
<i>4-Bromofluorobenzene</i>	<i>91</i>	<i>71-120</i>				

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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-7					
Laboratory ID:	10-131-08					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	10-14-14	10-14-14	
Chloromethane	ND	1.0	EPA 8260C	10-14-14	10-14-14	
Vinyl Chloride	ND	0.20	EPA 8260C	10-14-14	10-14-14	
Bromomethane	ND	0.20	EPA 8260C	10-14-14	10-14-14	
Chloroethane	ND	1.0	EPA 8260C	10-14-14	10-14-14	
Trichlorofluoromethane	ND	0.20	EPA 8260C	10-14-14	10-14-14	
1,1-Dichloroethene	ND	0.20	EPA 8260C	10-14-14	10-14-14	
Iodomethane	ND	1.0	EPA 8260C	10-14-14	10-14-14	
Methylene Chloride	ND	1.0	EPA 8260C	10-14-14	10-14-14	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	10-14-14	10-14-14	
1,1-Dichloroethane	ND	0.20	EPA 8260C	10-14-14	10-14-14	
2,2-Dichloropropane	ND	0.20	EPA 8260C	10-14-14	10-14-14	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	10-14-14	10-14-14	
Bromochloromethane	ND	0.20	EPA 8260C	10-14-14	10-14-14	
Chloroform	ND	0.20	EPA 8260C	10-14-14	10-14-14	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	10-14-14	10-14-14	
Carbon Tetrachloride	ND	0.20	EPA 8260C	10-14-14	10-14-14	
1,1-Dichloropropene	ND	0.20	EPA 8260C	10-14-14	10-14-14	
1,2-Dichloroethane	ND	0.20	EPA 8260C	10-14-14	10-14-14	
Trichloroethene	ND	0.20	EPA 8260C	10-14-14	10-14-14	
1,2-Dichloropropane	ND	0.20	EPA 8260C	10-14-14	10-14-14	
Dibromomethane	ND	0.20	EPA 8260C	10-14-14	10-14-14	
Bromodichloromethane	ND	0.20	EPA 8260C	10-14-14	10-14-14	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	10-14-14	10-14-14	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	10-14-14	10-14-14	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	10-14-14	10-14-14	

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-7					
Laboratory ID:	10-131-08					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	10-14-14	10-14-14	
Tetrachloroethene	ND	0.20	EPA 8260C	10-14-14	10-14-14	
1,3-Dichloropropane	ND	0.20	EPA 8260C	10-14-14	10-14-14	
Dibromochloromethane	ND	0.20	EPA 8260C	10-14-14	10-14-14	
1,2-Dibromoethane	ND	0.20	EPA 8260C	10-14-14	10-14-14	
Chlorobenzene	ND	0.20	EPA 8260C	10-14-14	10-14-14	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	10-14-14	10-14-14	
Bromoform	ND	1.0	EPA 8260C	10-14-14	10-14-14	
Bromobenzene	ND	0.20	EPA 8260C	10-14-14	10-14-14	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	10-14-14	10-14-14	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	10-14-14	10-14-14	
2-Chlorotoluene	ND	0.20	EPA 8260C	10-14-14	10-14-14	
4-Chlorotoluene	ND	0.20	EPA 8260C	10-14-14	10-14-14	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	10-14-14	10-14-14	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	10-14-14	10-14-14	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	10-14-14	10-14-14	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	10-14-14	10-14-14	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	10-14-14	10-14-14	
Hexachlorobutadiene	ND	0.20	EPA 8260C	10-14-14	10-14-14	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	10-14-14	10-14-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	98	62-122				
<i>Toluene-d8</i>	99	70-120				
<i>4-Bromofluorobenzene</i>	96	71-120				

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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-8					
Laboratory ID:	10-131-09					
Dichlorodifluoromethane	ND	0.40	EPA 8260C	10-14-14	10-14-14	
Chloromethane	ND	2.0	EPA 8260C	10-14-14	10-14-14	
Vinyl Chloride	ND	0.40	EPA 8260C	10-14-14	10-14-14	
Bromomethane	ND	0.40	EPA 8260C	10-14-14	10-14-14	
Chloroethane	ND	2.0	EPA 8260C	10-14-14	10-14-14	
Trichlorofluoromethane	ND	0.40	EPA 8260C	10-14-14	10-14-14	
1,1-Dichloroethene	ND	0.40	EPA 8260C	10-14-14	10-14-14	
Iodomethane	ND	2.0	EPA 8260C	10-14-14	10-14-14	
Methylene Chloride	ND	2.0	EPA 8260C	10-14-14	10-14-14	
(trans) 1,2-Dichloroethene	ND	0.40	EPA 8260C	10-14-14	10-14-14	
1,1-Dichloroethane	ND	0.40	EPA 8260C	10-14-14	10-14-14	
2,2-Dichloropropane	ND	0.40	EPA 8260C	10-14-14	10-14-14	
(cis) 1,2-Dichloroethene	ND	0.40	EPA 8260C	10-14-14	10-14-14	
Bromochloromethane	ND	0.40	EPA 8260C	10-14-14	10-14-14	
Chloroform	ND	0.40	EPA 8260C	10-14-14	10-14-14	
1,1,1-Trichloroethane	ND	0.40	EPA 8260C	10-14-14	10-14-14	
Carbon Tetrachloride	ND	0.40	EPA 8260C	10-14-14	10-14-14	
1,1-Dichloropropene	ND	0.40	EPA 8260C	10-14-14	10-14-14	
1,2-Dichloroethane	ND	0.40	EPA 8260C	10-14-14	10-14-14	
Trichloroethene	1.6	0.40	EPA 8260C	10-14-14	10-14-14	
1,2-Dichloropropane	ND	0.40	EPA 8260C	10-14-14	10-14-14	
Dibromomethane	ND	0.40	EPA 8260C	10-14-14	10-14-14	
Bromodichloromethane	ND	0.40	EPA 8260C	10-14-14	10-14-14	
2-Chloroethyl Vinyl Ether	ND	2.0	EPA 8260C	10-14-14	10-14-14	
(cis) 1,3-Dichloropropene	ND	0.40	EPA 8260C	10-14-14	10-14-14	
(trans) 1,3-Dichloropropene	ND	0.40	EPA 8260C	10-14-14	10-14-14	

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-8					
Laboratory ID:	10-131-09					
1,1,2-Trichloroethane	ND	0.40	EPA 8260C	10-14-14	10-14-14	
Tetrachloroethene	83	0.40	EPA 8260C	10-14-14	10-14-14	
1,3-Dichloropropane	ND	0.40	EPA 8260C	10-14-14	10-14-14	
Dibromochloromethane	ND	0.40	EPA 8260C	10-14-14	10-14-14	
1,2-Dibromoethane	ND	0.40	EPA 8260C	10-14-14	10-14-14	
Chlorobenzene	ND	0.40	EPA 8260C	10-14-14	10-14-14	
1,1,1,2-Tetrachloroethane	ND	0.40	EPA 8260C	10-14-14	10-14-14	
Bromoform	ND	2.0	EPA 8260C	10-14-14	10-14-14	
Bromobenzene	ND	0.40	EPA 8260C	10-14-14	10-14-14	
1,1,2,2-Tetrachloroethane	ND	0.40	EPA 8260C	10-14-14	10-14-14	
1,2,3-Trichloropropane	ND	0.40	EPA 8260C	10-14-14	10-14-14	
2-Chlorotoluene	ND	0.40	EPA 8260C	10-14-14	10-14-14	
4-Chlorotoluene	ND	0.40	EPA 8260C	10-14-14	10-14-14	
1,3-Dichlorobenzene	ND	0.40	EPA 8260C	10-14-14	10-14-14	
1,4-Dichlorobenzene	ND	0.40	EPA 8260C	10-14-14	10-14-14	
1,2-Dichlorobenzene	ND	0.40	EPA 8260C	10-14-14	10-14-14	
1,2-Dibromo-3-chloropropane	ND	2.0	EPA 8260C	10-14-14	10-14-14	
1,2,4-Trichlorobenzene	ND	0.40	EPA 8260C	10-14-14	10-14-14	
Hexachlorobutadiene	ND	0.40	EPA 8260C	10-14-14	10-14-14	
1,2,3-Trichlorobenzene	ND	0.40	EPA 8260C	10-14-14	10-14-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>102</i>	<i>62-122</i>				
<i>Toluene-d8</i>	<i>102</i>	<i>70-120</i>				
<i>4-Bromofluorobenzene</i>	<i>96</i>	<i>71-120</i>				

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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-9					
Laboratory ID:	10-131-10					
Dichlorodifluoromethane	ND	1.0	EPA 8260C	10-14-14	10-14-14	
Chloromethane	ND	5.0	EPA 8260C	10-14-14	10-14-14	
Vinyl Chloride	ND	1.0	EPA 8260C	10-14-14	10-14-14	
Bromomethane	ND	1.0	EPA 8260C	10-14-14	10-14-14	
Chloroethane	ND	5.0	EPA 8260C	10-14-14	10-14-14	
Trichlorofluoromethane	ND	1.0	EPA 8260C	10-14-14	10-14-14	
1,1-Dichloroethene	ND	1.0	EPA 8260C	10-14-14	10-14-14	
Iodomethane	ND	5.0	EPA 8260C	10-14-14	10-14-14	
Methylene Chloride	ND	5.0	EPA 8260C	10-14-14	10-14-14	
(trans) 1,2-Dichloroethene	ND	1.0	EPA 8260C	10-14-14	10-14-14	
1,1-Dichloroethane	ND	1.0	EPA 8260C	10-14-14	10-14-14	
2,2-Dichloropropane	ND	1.0	EPA 8260C	10-14-14	10-14-14	
(cis) 1,2-Dichloroethene	ND	1.0	EPA 8260C	10-14-14	10-14-14	
Bromochloromethane	ND	1.0	EPA 8260C	10-14-14	10-14-14	
Chloroform	ND	1.0	EPA 8260C	10-14-14	10-14-14	
1,1,1-Trichloroethane	ND	1.0	EPA 8260C	10-14-14	10-14-14	
Carbon Tetrachloride	ND	1.0	EPA 8260C	10-14-14	10-14-14	
1,1-Dichloropropene	ND	1.0	EPA 8260C	10-14-14	10-14-14	
1,2-Dichloroethane	ND	1.0	EPA 8260C	10-14-14	10-14-14	
Trichloroethene	14	1.0	EPA 8260C	10-14-14	10-14-14	
1,2-Dichloropropane	ND	1.0	EPA 8260C	10-14-14	10-14-14	
Dibromomethane	ND	1.0	EPA 8260C	10-14-14	10-14-14	
Bromodichloromethane	ND	1.0	EPA 8260C	10-14-14	10-14-14	
2-Chloroethyl Vinyl Ether	ND	5.0	EPA 8260C	10-14-14	10-14-14	
(cis) 1,3-Dichloropropene	ND	1.0	EPA 8260C	10-14-14	10-14-14	
(trans) 1,3-Dichloropropene	ND	1.0	EPA 8260C	10-14-14	10-14-14	

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-9					
Laboratory ID:	10-131-10					
1,1,2-Trichloroethane	ND	1.0	EPA 8260C	10-14-14	10-14-14	
Tetrachloroethene	220	1.0	EPA 8260C	10-14-14	10-14-14	
1,3-Dichloropropane	ND	1.0	EPA 8260C	10-14-14	10-14-14	
Dibromochloromethane	ND	1.0	EPA 8260C	10-14-14	10-14-14	
1,2-Dibromoethane	ND	1.0	EPA 8260C	10-14-14	10-14-14	
Chlorobenzene	ND	1.0	EPA 8260C	10-14-14	10-14-14	
1,1,1,2-Tetrachloroethane	ND	1.0	EPA 8260C	10-14-14	10-14-14	
Bromoform	ND	5.0	EPA 8260C	10-14-14	10-14-14	
Bromobenzene	ND	1.0	EPA 8260C	10-14-14	10-14-14	
1,1,2,2-Tetrachloroethane	ND	1.0	EPA 8260C	10-14-14	10-14-14	
1,2,3-Trichloropropane	ND	1.0	EPA 8260C	10-14-14	10-14-14	
2-Chlorotoluene	ND	1.0	EPA 8260C	10-14-14	10-14-14	
4-Chlorotoluene	ND	1.0	EPA 8260C	10-14-14	10-14-14	
1,3-Dichlorobenzene	ND	1.0	EPA 8260C	10-14-14	10-14-14	
1,4-Dichlorobenzene	ND	1.0	EPA 8260C	10-14-14	10-14-14	
1,2-Dichlorobenzene	ND	1.0	EPA 8260C	10-14-14	10-14-14	
1,2-Dibromo-3-chloropropane	ND	5.0	EPA 8260C	10-14-14	10-14-14	
1,2,4-Trichlorobenzene	ND	1.0	EPA 8260C	10-14-14	10-14-14	
Hexachlorobutadiene	ND	1.0	EPA 8260C	10-14-14	10-14-14	
1,2,3-Trichlorobenzene	ND	1.0	EPA 8260C	10-14-14	10-14-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>100</i>	<i>62-122</i>				
<i>Toluene-d8</i>	<i>98</i>	<i>70-120</i>				
<i>4-Bromofluorobenzene</i>	<i>94</i>	<i>71-120</i>				

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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-10					
Laboratory ID:	10-131-11					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	10-14-14	10-14-14	
Chloromethane	ND	1.0	EPA 8260C	10-14-14	10-14-14	
Vinyl Chloride	ND	0.20	EPA 8260C	10-14-14	10-14-14	
Bromomethane	ND	0.20	EPA 8260C	10-14-14	10-14-14	
Chloroethane	ND	1.0	EPA 8260C	10-14-14	10-14-14	
Trichlorofluoromethane	ND	0.20	EPA 8260C	10-14-14	10-14-14	
1,1-Dichloroethene	ND	0.20	EPA 8260C	10-14-14	10-14-14	
Iodomethane	ND	1.0	EPA 8260C	10-14-14	10-14-14	
Methylene Chloride	ND	1.0	EPA 8260C	10-14-14	10-14-14	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	10-14-14	10-14-14	
1,1-Dichloroethane	ND	0.20	EPA 8260C	10-14-14	10-14-14	
2,2-Dichloropropane	ND	0.20	EPA 8260C	10-14-14	10-14-14	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	10-14-14	10-14-14	
Bromochloromethane	ND	0.20	EPA 8260C	10-14-14	10-14-14	
Chloroform	ND	0.20	EPA 8260C	10-14-14	10-14-14	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	10-14-14	10-14-14	
Carbon Tetrachloride	ND	0.20	EPA 8260C	10-14-14	10-14-14	
1,1-Dichloropropene	ND	0.20	EPA 8260C	10-14-14	10-14-14	
1,2-Dichloroethane	ND	0.20	EPA 8260C	10-14-14	10-14-14	
Trichloroethene	ND	0.20	EPA 8260C	10-14-14	10-14-14	
1,2-Dichloropropane	ND	0.20	EPA 8260C	10-14-14	10-14-14	
Dibromomethane	ND	0.20	EPA 8260C	10-14-14	10-14-14	
Bromodichloromethane	ND	0.20	EPA 8260C	10-14-14	10-14-14	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	10-14-14	10-14-14	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	10-14-14	10-14-14	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	10-14-14	10-14-14	

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-10					
Laboratory ID:	10-131-11					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	10-14-14	10-14-14	
Tetrachloroethene	ND	0.20	EPA 8260C	10-14-14	10-14-14	
1,3-Dichloropropane	ND	0.20	EPA 8260C	10-14-14	10-14-14	
Dibromochloromethane	ND	0.20	EPA 8260C	10-14-14	10-14-14	
1,2-Dibromoethane	ND	0.20	EPA 8260C	10-14-14	10-14-14	
Chlorobenzene	ND	0.20	EPA 8260C	10-14-14	10-14-14	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	10-14-14	10-14-14	
Bromoform	ND	1.0	EPA 8260C	10-14-14	10-14-14	
Bromobenzene	ND	0.20	EPA 8260C	10-14-14	10-14-14	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	10-14-14	10-14-14	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	10-14-14	10-14-14	
2-Chlorotoluene	ND	0.20	EPA 8260C	10-14-14	10-14-14	
4-Chlorotoluene	ND	0.20	EPA 8260C	10-14-14	10-14-14	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	10-14-14	10-14-14	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	10-14-14	10-14-14	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	10-14-14	10-14-14	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	10-14-14	10-14-14	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	10-14-14	10-14-14	
Hexachlorobutadiene	ND	0.20	EPA 8260C	10-14-14	10-14-14	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	10-14-14	10-14-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	98	62-122				
<i>Toluene-d8</i>	98	70-120				
<i>4-Bromofluorobenzene</i>	93	71-120				

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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-11					
Laboratory ID:	10-131-12					
Dichlorodifluoromethane	ND	20	EPA 8260C	10-14-14	10-14-14	
Chloromethane	ND	100	EPA 8260C	10-14-14	10-14-14	
Vinyl Chloride	ND	20	EPA 8260C	10-14-14	10-14-14	
Bromomethane	ND	20	EPA 8260C	10-14-14	10-14-14	
Chloroethane	ND	100	EPA 8260C	10-14-14	10-14-14	
Trichlorofluoromethane	ND	20	EPA 8260C	10-14-14	10-14-14	
1,1-Dichloroethene	ND	20	EPA 8260C	10-14-14	10-14-14	
Iodomethane	ND	100	EPA 8260C	10-14-14	10-14-14	
Methylene Chloride	ND	100	EPA 8260C	10-14-14	10-14-14	
(trans) 1,2-Dichloroethene	ND	20	EPA 8260C	10-14-14	10-14-14	
1,1-Dichloroethane	ND	20	EPA 8260C	10-14-14	10-14-14	
2,2-Dichloropropane	ND	20	EPA 8260C	10-14-14	10-14-14	
(cis) 1,2-Dichloroethene	ND	20	EPA 8260C	10-14-14	10-14-14	
Bromochloromethane	ND	20	EPA 8260C	10-14-14	10-14-14	
Chloroform	ND	20	EPA 8260C	10-14-14	10-14-14	
1,1,1-Trichloroethane	ND	20	EPA 8260C	10-14-14	10-14-14	
Carbon Tetrachloride	ND	20	EPA 8260C	10-14-14	10-14-14	
1,1-Dichloropropene	ND	20	EPA 8260C	10-14-14	10-14-14	
1,2-Dichloroethane	ND	20	EPA 8260C	10-14-14	10-14-14	
Trichloroethene	ND	20	EPA 8260C	10-14-14	10-14-14	
1,2-Dichloropropane	ND	20	EPA 8260C	10-14-14	10-14-14	
Dibromomethane	ND	20	EPA 8260C	10-14-14	10-14-14	
Bromodichloromethane	ND	20	EPA 8260C	10-14-14	10-14-14	
2-Chloroethyl Vinyl Ether	ND	100	EPA 8260C	10-14-14	10-14-14	
(cis) 1,3-Dichloropropene	ND	20	EPA 8260C	10-14-14	10-14-14	
(trans) 1,3-Dichloropropene	ND	20	EPA 8260C	10-14-14	10-14-14	

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-11					
Laboratory ID:	10-131-12					
1,1,2-Trichloroethane	ND	20	EPA 8260C	10-14-14	10-14-14	
Tetrachloroethene	5800	50	EPA 8260C	10-15-14	10-15-14	
1,3-Dichloropropane	ND	20	EPA 8260C	10-14-14	10-14-14	
Dibromochloromethane	ND	20	EPA 8260C	10-14-14	10-14-14	
1,2-Dibromoethane	ND	20	EPA 8260C	10-14-14	10-14-14	
Chlorobenzene	ND	20	EPA 8260C	10-14-14	10-14-14	
1,1,1,2-Tetrachloroethane	ND	20	EPA 8260C	10-14-14	10-14-14	
Bromoform	ND	100	EPA 8260C	10-14-14	10-14-14	
Bromobenzene	ND	20	EPA 8260C	10-14-14	10-14-14	
1,1,2,2-Tetrachloroethane	ND	20	EPA 8260C	10-14-14	10-14-14	
1,2,3-Trichloropropane	ND	20	EPA 8260C	10-14-14	10-14-14	
2-Chlorotoluene	ND	20	EPA 8260C	10-14-14	10-14-14	
4-Chlorotoluene	ND	20	EPA 8260C	10-14-14	10-14-14	
1,3-Dichlorobenzene	ND	20	EPA 8260C	10-14-14	10-14-14	
1,4-Dichlorobenzene	ND	20	EPA 8260C	10-14-14	10-14-14	
1,2-Dichlorobenzene	ND	20	EPA 8260C	10-14-14	10-14-14	
1,2-Dibromo-3-chloropropane	ND	100	EPA 8260C	10-14-14	10-14-14	
1,2,4-Trichlorobenzene	ND	20	EPA 8260C	10-14-14	10-14-14	
Hexachlorobutadiene	ND	20	EPA 8260C	10-14-14	10-14-14	
1,2,3-Trichlorobenzene	ND	20	EPA 8260C	10-14-14	10-14-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>103</i>	<i>62-122</i>				
<i>Toluene-d8</i>	<i>101</i>	<i>70-120</i>				
<i>4-Bromofluorobenzene</i>	<i>97</i>	<i>71-120</i>				

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Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1014W1					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	10-14-14	10-14-14	
Chloromethane	ND	1.0	EPA 8260C	10-14-14	10-14-14	
Vinyl Chloride	ND	0.20	EPA 8260C	10-14-14	10-14-14	
Bromomethane	ND	0.20	EPA 8260C	10-14-14	10-14-14	
Chloroethane	ND	1.0	EPA 8260C	10-14-14	10-14-14	
Trichlorofluoromethane	ND	0.20	EPA 8260C	10-14-14	10-14-14	
1,1-Dichloroethene	ND	0.20	EPA 8260C	10-14-14	10-14-14	
Iodomethane	ND	1.0	EPA 8260C	10-14-14	10-14-14	
Methylene Chloride	ND	1.0	EPA 8260C	10-14-14	10-14-14	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	10-14-14	10-14-14	
1,1-Dichloroethane	ND	0.20	EPA 8260C	10-14-14	10-14-14	
2,2-Dichloropropane	ND	0.20	EPA 8260C	10-14-14	10-14-14	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	10-14-14	10-14-14	
Bromochloromethane	ND	0.20	EPA 8260C	10-14-14	10-14-14	
Chloroform	ND	0.20	EPA 8260C	10-14-14	10-14-14	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	10-14-14	10-14-14	
Carbon Tetrachloride	ND	0.20	EPA 8260C	10-14-14	10-14-14	
1,1-Dichloropropene	ND	0.20	EPA 8260C	10-14-14	10-14-14	
1,2-Dichloroethane	ND	0.20	EPA 8260C	10-14-14	10-14-14	
Trichloroethene	ND	0.20	EPA 8260C	10-14-14	10-14-14	
1,2-Dichloropropane	ND	0.20	EPA 8260C	10-14-14	10-14-14	
Dibromomethane	ND	0.20	EPA 8260C	10-14-14	10-14-14	
Bromodichloromethane	ND	0.20	EPA 8260C	10-14-14	10-14-14	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	10-14-14	10-14-14	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	10-14-14	10-14-14	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	10-14-14	10-14-14	

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1014W1					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	10-14-14	10-14-14	
Tetrachloroethene	ND	0.20	EPA 8260C	10-14-14	10-14-14	
1,3-Dichloropropane	ND	0.20	EPA 8260C	10-14-14	10-14-14	
Dibromochloromethane	ND	0.20	EPA 8260C	10-14-14	10-14-14	
1,2-Dibromoethane	ND	0.20	EPA 8260C	10-14-14	10-14-14	
Chlorobenzene	ND	0.20	EPA 8260C	10-14-14	10-14-14	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	10-14-14	10-14-14	
Bromoform	ND	1.0	EPA 8260C	10-14-14	10-14-14	
Bromobenzene	ND	0.20	EPA 8260C	10-14-14	10-14-14	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	10-14-14	10-14-14	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	10-14-14	10-14-14	
2-Chlorotoluene	ND	0.20	EPA 8260C	10-14-14	10-14-14	
4-Chlorotoluene	ND	0.20	EPA 8260C	10-14-14	10-14-14	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	10-14-14	10-14-14	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	10-14-14	10-14-14	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	10-14-14	10-14-14	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	10-14-14	10-14-14	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	10-14-14	10-14-14	
Hexachlorobutadiene	ND	0.20	EPA 8260C	10-14-14	10-14-14	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	10-14-14	10-14-14	
Surrogate:	Percent Recovery	Control Limits				
Dibromofluoromethane	101	62-122				
Toluene-d8	100	70-120				
4-Bromofluorobenzene	95	71-120				

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Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1015W1					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	10-15-14	10-15-14	
Chloromethane	ND	1.0	EPA 8260C	10-15-14	10-15-14	
Vinyl Chloride	ND	0.20	EPA 8260C	10-15-14	10-15-14	
Bromomethane	ND	0.20	EPA 8260C	10-15-14	10-15-14	
Chloroethane	ND	1.0	EPA 8260C	10-15-14	10-15-14	
Trichlorofluoromethane	ND	0.20	EPA 8260C	10-15-14	10-15-14	
1,1-Dichloroethene	ND	0.20	EPA 8260C	10-15-14	10-15-14	
Iodomethane	ND	1.0	EPA 8260C	10-15-14	10-15-14	
Methylene Chloride	ND	1.0	EPA 8260C	10-15-14	10-15-14	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	10-15-14	10-15-14	
1,1-Dichloroethane	ND	0.20	EPA 8260C	10-15-14	10-15-14	
2,2-Dichloropropane	ND	0.20	EPA 8260C	10-15-14	10-15-14	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	10-15-14	10-15-14	
Bromochloromethane	ND	0.20	EPA 8260C	10-15-14	10-15-14	
Chloroform	ND	0.20	EPA 8260C	10-15-14	10-15-14	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	10-15-14	10-15-14	
Carbon Tetrachloride	ND	0.20	EPA 8260C	10-15-14	10-15-14	
1,1-Dichloropropene	ND	0.20	EPA 8260C	10-15-14	10-15-14	
1,2-Dichloroethane	ND	0.20	EPA 8260C	10-15-14	10-15-14	
Trichloroethene	ND	0.20	EPA 8260C	10-15-14	10-15-14	
1,2-Dichloropropane	ND	0.20	EPA 8260C	10-15-14	10-15-14	
Dibromomethane	ND	0.20	EPA 8260C	10-15-14	10-15-14	
Bromodichloromethane	ND	0.20	EPA 8260C	10-15-14	10-15-14	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	10-15-14	10-15-14	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	10-15-14	10-15-14	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	10-15-14	10-15-14	

Date of Report: October 17, 2014
 Samples Submitted: October 10, 2014
 Laboratory Reference: 1410-131
 Project: 14-05838-001

**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

Page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1015W1					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	10-15-14	10-15-14	
Tetrachloroethene	ND	0.20	EPA 8260C	10-15-14	10-15-14	
1,3-Dichloropropane	ND	0.20	EPA 8260C	10-15-14	10-15-14	
Dibromochloromethane	ND	0.20	EPA 8260C	10-15-14	10-15-14	
1,2-Dibromoethane	ND	0.20	EPA 8260C	10-15-14	10-15-14	
Chlorobenzene	ND	0.20	EPA 8260C	10-15-14	10-15-14	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	10-15-14	10-15-14	
Bromoform	ND	1.0	EPA 8260C	10-15-14	10-15-14	
Bromobenzene	ND	0.20	EPA 8260C	10-15-14	10-15-14	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	10-15-14	10-15-14	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	10-15-14	10-15-14	
2-Chlorotoluene	ND	0.20	EPA 8260C	10-15-14	10-15-14	
4-Chlorotoluene	ND	0.20	EPA 8260C	10-15-14	10-15-14	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	10-15-14	10-15-14	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	10-15-14	10-15-14	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	10-15-14	10-15-14	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	10-15-14	10-15-14	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	10-15-14	10-15-14	
Hexachlorobutadiene	ND	0.20	EPA 8260C	10-15-14	10-15-14	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	10-15-14	10-15-14	
Surrogate:	Percent Recovery	Control Limits				
Dibromofluoromethane	100	79-122				
Toluene-d8	100	80-120				
4-Bromofluorobenzene	97	80-120				

Date of Report: October 17, 2014
 Samples Submitted: October 10, 2014
 Laboratory Reference: 1410-131
 Project: 14-05838-001

**HALOGENATED VOLATILES EPA 8260C
 SB/SBD QUALITY CONTROL**

Matrix: Water

Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits		RPD	Limit	Flags
					Recovery				RPD		
SPIKE BLANKS											
Laboratory ID:	SB1014W1										
	SB	SBD	SB	SBD	SB	SBD					
1,1-Dichloroethene	11.5	10.9	10.0	10.0	115	109	63-142	5		17	
Benzene	10.8	10.1	10.0	10.0	108	101	78-125	7		15	
Trichloroethene	9.32	8.80	10.0	10.0	93	88	74-125	6		15	
Toluene	10.7	10.0	10.0	10.0	107	100	80-125	7		15	
Chlorobenzene	9.82	9.51	10.0	10.0	98	95	80-140	3		15	
Surrogate:											
Dibromofluoromethane					103	94	62-122				
Toluene-d8					100	96	70-120				
4-Bromofluorobenzene					97	95	71-120				

Date of Report: October 17, 2014
 Samples Submitted: October 10, 2014
 Laboratory Reference: 1410-131
 Project: 14-05838-001

**HALOGENATED VOLATILES EPA 8260C
 SB/SBD QUALITY CONTROL**

Matrix: Water

Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits		RPD	RPD Limit	Flags
					Recovery						
SPIKE BLANKS											
Laboratory ID:	SB1015W1										
	SB	SBD	SB	SBD	SB	SBD					
1,1-Dichloroethene	11.0	11.1	10.0	10.0	110	111	64-138	1		16	
Benzene	10.2	10.3	10.0	10.0	102	103	76-125	1		14	
Trichloroethene	8.97	9.05	10.0	10.0	90	91	75-125	1		16	
Toluene	10.3	10.2	10.0	10.0	103	102	75-125	1		15	
Chlorobenzene	9.67	9.82	10.0	10.0	97	98	80-140	2		15	
Surrogate:											
Dibromofluoromethane					99	102	79-122				
Toluene-d8					99	99	80-120				
4-Bromofluorobenzene					98	97	80-120				



Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
- B - The analyte indicated was also found in the blank sample.
- C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
- E - The value reported exceeds the quantitation range and is an estimate.
- F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
- H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
- I - Compound recovery is outside of the control limits.
- J - The value reported was below the practical quantitation limit. The value is an estimate.
- K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
- L - The RPD is outside of the control limits.
- M - Hydrocarbons in the gasoline range are impacting the diesel range result.
- M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
- N - Hydrocarbons in the lube oil range are impacting the diesel range result.
- N1 - Hydrocarbons in diesel range are impacting lube oil range results.
- O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
- P - The RPD of the detected concentrations between the two columns is greater than 40.
- Q - Surrogate recovery is outside of the control limits.
- S - Surrogate recovery data is not available due to the necessary dilution of the sample.
- T - The sample chromatogram is not similar to a typical _____.
- U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
- U1 - The practical quantitation limit is elevated due to interferences present in the sample.
- V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
- W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
- X - Sample extract treated with a mercury cleanup procedure.
- X1- Sample extract treated with a Sulfuric acid/Silica gel cleanup procedure.
- Y - The calibration verification for this analyte exceeded the 20% drift specified in method 8260C, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.
- Z -
- ND - Not Detected at PQL
- PQL - Practical Quantitation Limit
- RPD - Relative Percent Difference

Chain of Custody

Company: Herrera Environmental

Project Number: 14-05838-001

Project Name: YSC

Project Manager: Bruce Carpenter

Sampled by: Bruce Carpenter

**Turnaround Request
(in working days)**

(Check One)

☐ Same Day ☐ 1 Day

☐ 2 Days ☐ 3 Days

☒ Standard (7 Days)
(TPH analysis 5 Days)

☐ _____ (other)

Laboratory Number:

10-131

Lab ID		Sample Identification	Date Sampled	Time Sampled	Matrix	Number	NWTPH	NWTPH	NWTPH	NWTPH	Volatiles	Halogenes	Semivolatiles (with low PAHs 8260)	PCBs 8260	Organochlorine	Organophosphorus	Chlorinated	Total RCRA	Total MT	TCLP Metals	HEM (oil and grease)	% Moisture	
1		MW-1s	10/9/14	1757	W	3						X											
2		MW-1d	10/9/14	1718	W	3						X											
3		MW-2	10/8/14	1452	W	3						X											
4		MW-3	10/9/14	1328	W	3						X											
5		MW-4	10/9/14	1530	W	3						X											
6		MW-5	10/9/14	1439	W	3						X											
7		MW-6	10/9/14	923	W	3						X											
8		MW-7	10/9/14	1932	W	3						X											
9		MW-8	10/9/14	1149	W	3						X											
10		MW-9	10/8/14	1808	W	3						X											

Signature	Company	Date	Time	Comments/Special Instructions
<u>Bruce Carpenter</u>	Herrera Environmental	10/10/14	10:00	Sent via Courier
<u>Bill Speedy</u>		10/10/14	10:15	
<u>B. V.</u>	Speedy	10/10	11:30	
<u>[Signature]</u>	OGE	10/10/14	1130	
Relinquished				
Received				
Relinquished				
Received				
Relinquished				
Received				
Reviewed/Date	Reviewed/Date	Chromatograms with final report ☐		



Chain of Custody

Company:	Herrera Environmental
Project Number:	14-05838-001
Project Name:	YSC
Project Manager:	Bruce Carpenter
Sampled by:	Bruce Carpenter

Turnaround Request
(in working days)

(Check One)

☐ Same Day ☐ 1 Day
☐ 2 Days ☐ 3 Days

☒ Standard (7 Days)
(TPH analysis 5 Days)

☐ _____ (other)

Number of Containers

Laboratory Number:

10-131

Signature	Company	Date	Time	Comments/Special Instructions
Relinquished	Herrera Environmental	10/10/14	10:00	Sent Via Courier
Received	Speedy	10/10/14	10:15	
Relinquished	Speedy	10/10/14	11:30	
Received	COSE	10/10/14	11:30	
Relinquished				
Received				
Reviewed/Date	Reviewed/Date	Chromatograms with final report		

Data Package: Standard ☐ Level III ☐ Level IV ☐

Electronic Data Deliverables (EDDs) ☐ _____