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MARCH 2015 SEMIANNUAL POSTCLOSURE ENVIRONMENTAL MONITORING EVENT REPORT

ENVIRTE RCRA FACILITY THOMASTON, CONNECTICUT

RAMBOLL ENVIRON

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ACRONYMS AND ABBREVIATIONS

cis-1,2-DCE	cis-1,2-dichloroethene
CTDEEP	Connecticut Department of Energy and Environmental Protection
Denno	Denno Land Surveying
Envirite	Envirite Corporation
ft/ft	feet per foot
HDPE	high-density polyethylene
I-VC	industrial/commercial volatilization criteria
mg/L	milligram(s) per liter
MIBK	4-methyl-2-pentanone
NTU	nephelometric turbidity unit
PCE	tetrachloroethene
PCMP	postclosure monitoring plan
PCEMP	postclosure environmental monitoring plan
QA/QC	quality assurance/quality control
QAPP	quality assurance project plan
RCRA	Resource Conservation and Recovery Act
RDL	reportable detection limit
RSR	Remediation Standard Regulations
R-VC	residential volatilization criteria
SAP	sampling and analysis plan
SWPC	Surface Water Protection Criteria
TCE	trichloroethene
UCL	upper confidence limit
USEPA	United States Environmental Protection Agency
VC	vinyl chloride
VOC	volatile organic compound
WPCF	Water Pollution Control Facility

1. INTRODUCTION

On behalf of Envirite Corporation (Envirite), Ramboll Environ has completed the March 2015 semiannual postclosure environmental monitoring event at the Envirite Resource Conservation and Recovery Act (RCRA) facility (the Site) located on Old Waterbury Road in Thomaston, Connecticut. The scope of work associated with the postclosure environmental monitoring event was detailed in the following document:

- ENVIRON. 2014. Revised Post-Closure Environmental Monitoring Plan, Envirite RCRA Facility, Old Waterbury Road, Thomaston, Connecticut. November 10, 2014.

This was the second environmental monitoring event conducted in accordance with revised Post-Closure Environmental Monitoring Plan (PCEMP). The first was conducted in October 2014.

The location of the facility is shown in Figure 1 (Site Location Map). The Environmental Monitoring Locations Site Plan (Figure 2) shows the general layout of the Site and physical features including former developed areas, landfill areas, and the existing environmental monitoring network, including groundwater monitoring wells and surface water sampling locations.

1.1 Quality Assurance Project Plan/Sampling and Analysis Plan

The Quality Assurance Project Plan/Sampling and Analysis Plan (QAPP/SAP), dated December 3, 2013, documents the quality assurance/quality control (QA/QC) procedures associated with the revised PCEMP activities. Deviations and modifications from the December 3, 2013, QAPP/SAP were detailed in the revised PCEMP and include the following:

- Modifications to the groundwater monitoring well network
- Modifications to the groundwater laboratory analytical program
- Modifications to the surface water sampling locations and laboratory analytical program

The scope of the revised semiannual PCEMP are discussed further below.

2. SEMIANNUAL POSTCLOSURE ENVIRONMENTAL MONITORING PROGRAM

This section documents the scope of the March 2015 semiannual PCEMP event, including the groundwater and surface water monitoring networks and the associated laboratory analytical programs for these media. In addition, the scope of the groundwater elevation gauging activities are described herein.

This semiannual PCEMP event was conducted from March 30 to 31, 2015.

2.1 PCEMP Groundwater Monitoring Network

In conjunction with the March 2015 PCEMP sampling event, groundwater samples were collected from the wells detailed in Table 1 (below).

2.1.1 Groundwater Sampling Methodology

Groundwater sampling activities for this PCEMP monitoring event were conducted in accordance with the current USEPA–Region 1 Low-Stress (Low-Flow) Purging and Sampling Procedure for the Collection of Groundwater Samples from Monitoring Wells (EQASOP-GW 001), Revision No. 3, dated January 19, 2010. Detailed groundwater sampling procedures are discussed in the QAPP/SAP.

Groundwater samples were collected using QED bladder pumps equipped with disposable bladders and high-density polyethylene (HDPE) sample tubing. Bladders and tubing were replaced between wells, and pumps were decontaminated in accordance with the procedures specified in the QAPP/SAP. Once field parameters were stabilized within acceptable tolerances, groundwater samples were collected directly in laboratory-supplied containers containing the appropriate sample preservative for each analytical method. The samples were maintained on ice until delivery to the analytical laboratory.

During low-flow sampling, if turbidity cannot be stabilized below 5 nephelometric turbidity units (NTUs), samples will be collected for both total and dissolved metals concentrations to evaluate the potential effect of turbidity on these concentrations. The sample aliquot for dissolved metals analysis will be field-filtered through a 0.45 micron groundwater filter prior to preservation in the field. This did not occur during the March 2015 sampling event.

The groundwater sampling activities are documented in the field notes, field equipment calibration logs, and low-flow groundwater sampling field forms (Appendix A).

Table 1. Revised Postclosure Groundwater Monitoring Well Network

Well	Screened Interval (feet bgs)	Unit	Rationale
MW-30S	38 – 48	OB	Monitor groundwater quality downgradient of northern waste cells and PEWM-L and immediately surrounding former treatment facility
MW-51D[1]	18.3 – 28.3	OB	
MW-31S	17 – 27	OB	Monitor groundwater quality in vicinity and downgradient of PEWM-R
MW-50S[1]	13.7 – 18.7	OB	
MW-53D[1]	25 – 40	OB	
MW-41D	17 – 32	OB	Monitor groundwater quality along downgradient property boundary
MW-41S	10 – 20	OB	
MW-42S	22.5 – 32.5	OB	
MW-43D	58 – 68	OB	
MW-43S	22.5 – 32.5	OB	
MW-44D	62 - 72	OB	

1. Monitoring wells MW-50S, MW-51D, and MW-53D were added to the PCEMP.
bgs: below ground surface

BR: bedrock
OB: overburden
PEWM-L: Pre-Envirite Waste Material - Landfill
PEWM-R: Pre-Envirite Waste Material – Roadway

2.1.2 Groundwater Laboratory Analytical Program

Groundwater samples collected during the PCEMP event were submitted to Spectrum Analytical, Inc. (Spectrum) of Agawam, Massachusetts, for the following laboratory analyses:

- Volatile Organic Compounds (VOCs) by USEPA Method 8260C
- Total Metals: arsenic, barium, cadmium, chromium, copper, nickel, and zinc by USEPA Method 6010C
- Indicator Parameters: total cyanide by USEPA Method 335.4/9012B

Appendix B contains the Spectrum laboratory report.

2.2 Surface Water Sampling Program

Surface water samples were collected from within 2 to 3 feet of the shorelines adjacent to the landfill using disposable bottom-filling HDPE bailers inserted through the water column to just above the sediment-water interface. The water samples were immediately transferred to laboratory-supplied containers containing the appropriate sample preservative for each analytical method. Samples were maintained on ice until delivery to the analytical laboratory.

For the metals analyses, surface water samples were field-filtered through 0.45 micron filters prior to preservation with nitric acid in the field so the resulting metals analyses reflect dissolved metals concentrations. This was done to facilitate comparison to Connecticut Surface Water Quality Standards.

2.2.1 Surface Water Laboratory Analytical Program

The surface water samples were submitted to Spectrum for laboratory analyses for the following parameters:

- VOCs by USEPA Method 8260C
- Dissolved Metals: arsenic, cadmium, copper, and zinc by USEPA Method 6020A

2.3 Sample Design Logistics

Table 2 summarizes the sample design logistics for the March 2015 PCEMP monitoring event.

Table 2. Sample Design Logistics

Sampling Matrix	Parameter	Analytical Method Reference	Number of Samples	Sampling Frequency	Sampling Period
Groundwater	VOCs	SW-846/ USEPA Method 8260C	11 Primary Samples 1 Trip Blank 1 Field Duplicate 1 Equipment Blank	Semiannual	March 2015
	Total Metals	SW-846/ USEPA Method 6010C	11 Primary Samples 1 Field Duplicate 1 Equipment Blank		
	Cyanide	SW-846/ 335.4/9012B	11 Primary Samples 1 Field Duplicate 1 Equipment Blank		

Sampling Matrix	Parameter	Analytical Method Reference	Number of Samples	Sampling Frequency	Sampling Period
Surface Water – Naugatuck River and Branch Brook	VOCs	SW-846/ USEPA Method 8260C	4 Primary Samples 1 Field Duplicate 1 Equipment Blank	Semiannual	March 2015
	Dissolved Metals	SW-846/ USEPA Method 6020A			

Please note that due to a clerical error, the surface water quality summary tables documenting the April and October 2014 sampling events erroneously indicated total metals concentrations rather that dissolved metals concentrations, which was the analysis actually conducted and reported by the lab. We have corrected that error in the surface water summary table for this sampling round.

2.4 Groundwater and Surface Water Gauging Events

A comprehensive groundwater elevation gauging event was conducted on March 30, 2015, prior to the initiation of sampling activities. Depth to groundwater in each viable groundwater monitoring well was measured to the nearest 0.01 foot using an electronic interface probe.

The following is noteworthy with respect to the groundwater gauging conducted during this monitoring period:

- Although their exact construction details are unknown, water levels from shallow wells UNK-2, UNK-4, and UNK-5S were used to generate the overburden groundwater elevation contours because the water levels were measured to be within 10 feet of the bottom of the wells, within the presumed 10-foot screened interval.

Appendix A contains the groundwater elevation data field form for the March 30, 2015 gauging event. Table 3 summarizes the depth to groundwater and elevation data for the March 2015 gauging event and the calculated vertical hydraulic gradients at all well couplet and triplet locations.

3. DISCUSSION OF RESULTS

This semiannual report documents the March 2015 monitoring event (dates, samples collected, etc.) and the associated observations and analytical results, including tabulated field and analytical data. This report includes a discussion of QA/QC sample results and overburden and bedrock groundwater contour maps depicting the inferred groundwater flow directions beneath the landfill.

Beginning in 2015, annual reports will be prepared following the completion of the two semiannual monitoring events, which will present a more comprehensive data analyses. The annual reports will include all of the components of the semiannual reports, as well as a discussion of groundwater and surface water quality trends and the results the data validation activities (see QAPP/SAP, Section 19) noting any identified QA problems and implications and/or resolution. Finally, the annual reports will render an opinion regarding the adequacy of the current monitoring program and will make recommendations regarding modifications to the PCEMP, if warranted.

3.1 Groundwater Elevation Plans and Inferred Groundwater Flow Directions

Overburden and bedrock groundwater elevation contours were developed using Surfer© surface mapping system software employing the kriging algorithm.

As requested by USEPA, groundwater elevation data from bedrock monitoring well MW-55B and deep overburden well MW-51D were used when generating the overburden groundwater elevation contours.

3.1.1 March 30, 2015 Groundwater Elevations

The first quarter 2015 gauging of the on-Site wells was completed on March 30, 2015, and the resulting overburden and bedrock groundwater elevation contours are depicted on Figures 3-1 and 3-2, respectively.

Based on the March 30, 2015 contours, shallow overburden groundwater flows in a general south-southwesterly direction beneath the landfill under a horizontal hydraulic gradient of approximately 0.0075 feet of head per foot of horizontal distance (ft/ft). Bedrock groundwater flows in a general south to south-southwest direction beneath the landfill under a horizontal hydraulic gradient of approximately 0.0089 ft/ft.

The March 2015 overburden and bedrock groundwater elevation contours are generally consistent with previous quarterly gauging events.

3.2 Groundwater Quality Discussion

Groundwater quality data for the March 2015 semiannual PCEMP monitoring event is summarized in Table 4. The stabilized geochemical parameters measured in the field during low-flow sampling activities are summarized in Table 5.

The groundwater quality data are compared to the following groundwater criteria listed the Connecticut Remediation Standard Regulations (RSRs), Section 22a-133k-1 through 22a-133k-3, dated June 27, 2013:

- Surface Water Protection Criteria (SWPC) listed in Appendix D of the RSRs
- Residential and Industrial/Commercial Volatilization Criteria (R-VC and I-VC) listed in Appendix E of the RSRs.

Note that the Connecticut Department of Energy and Environmental Protection (CTDEEP) RSRs[1] are provided on the groundwater analytical summary tables for reference only.

[1] It should be noted that Envirite's legal counsel had advised that, according to the Regulations of Connecticut State Agencies Section 22a-133k-1(b), the RSRs do not apply to areas that are affected by discharges allowed under a groundwater discharge permit issued pursuant to Section 22a-430. Envirite has held a groundwater discharge permit since 1984 at the Thomaston

3.2.1 March 2015 Groundwater Quality Data

The following summarizes the groundwater quality data for the March 2015 sampling event:

- Cyanide was not detected above laboratory analytical reportable detection limits (RDLs) in any of the groundwater samples.
- Of the metals detected at concentrations above RDLs, only arsenic, copper, and zinc were detected at concentrations above applicable SWPC.
  - Arsenic was only detected above the RDL in the sample collected from downgradient well MW-43S, at a concentration exceeding the 0.004 mg/L SWPC.
  - Copper was detected at concentrations exceeding the 0.048 mg/L SWPC in the samples collected from wells MW-51D (located on the interior of the Site immediately west of the former treatment building) and downgradient well MW-43D.
  - Zinc was detected at concentrations exceeding the 0.123 mg/L SWPC in the samples collected from wells MW-31S (located immediately adjacent to the PEWM-R) and downgradient well MW-43D.
- VOCs detected above analytical RDLs in the groundwater samples included 2-butanone (MEK), cis-1,2-dichloroethene (cis-1,2-DCE), ethylbenzene, 4-methyl-2-pentanone (MIBK), tetrachloroethene (PCE), toluene, trichloroethene (TCE), vinyl chloride (VC), and xylenes.
  - Vinyl chloride was the only VOC detected at concentrations exceeding applicable groundwater criteria in the samples collected from wells MW-43D, MW-44D, MW-51D, and MW-53D.
  - VOCs were detected at concentrations below applicable standards in the samples collected from MW-30, MW-31S, MW-41S, MW-41D, MW-42S, MW-43S, and MW-50S.

Table 6 summarizes the exceedances of applicable groundwater criteria observed during the March 2015 groundwater sampling event.

Table 6. Groundwater Criteria Exceedances March 2015

Well	March 2015	SWPC	R-VC	I/C-VC
MW-31S	Zn = 1.38 mg/L	0.123 mg/L	-	-
MW-43S	As = 0.0114 mg/L	0.004 mg/L	-	-
MW-43D	VC = 5.8 µg/L Cu = 0.638 mg/L Zn = 0.602 mg/L	- 0.048 mg/L 0.123 mg/L	2 µg/L - -	2 µg/L - -
MW-44D	VC = 5.9 µg/L	-	2 µg/L	2 µg/L
MW-51D	Cu = 0.0656 mg/L VC = 2.2 µg/L	0.048 mg/L -	- 2 µg/L	- 2 µg/L
MW-53D	VC = 7.6 µg/L	-	2 µg/L	2 µg/L

- indicates groundwater criteria was not exceeded or is not established.

As: arsenic
Cu: copper
µg/L: microgram(s) per liter
mg/L: milligram(s) per liter
PCE: tetrachloroethene
TCE: trichloroethene
VC: vinyl chloride
Zn: zinc

facility. Thus, while compliance with RSRs is one indicator of potential need for remediation to CTDEEP, USEPA, and Envirite, these regulations are not strictly applicable to groundwater constituent levels at the Thomaston facility.

3.3 Surface Water Quality Discussion

Table 7 summarizes the surface water quality data for the March 2015 monitoring event. Surface water samples SW-BB-1, SW-BB-2, SW-NR-1, and SW-NR-2 were collected from Branch Brook and the Naugatuck River, upstream and downstream of the landfill, respectively. Figure 2 depicts the location of the surface water samples.

The surface water quality data were compared to the Numerical Water Quality Criteria for Chemical Constituents listed in the Connecticut Water Quality Standards, Sections 22a-426-1 to 22a-426-9, effective October 10, 2013. Specifically, the surface water quality data were compared to the Acute and Chronic Freshwater Aquatic Life Criteria listed in Table 3, Section 22a-426-9 Environmental Criteria.

The following summarizes the surface water quality data for the March 2015 sampling event.

- No VOCs were detected above analytical RDLs in the March 2015 surface water samples from Branch Brook or the Naugatuck River.
- Arsenic and copper were also not detected above analytical RDLs which were below the established acute and chronic Freshwater Aquatic Life Criteria.
- Only cadmium and zinc were detected above analytical RDLs; however, the concentrations of these metals were below the established acute and chronic Freshwater Aquatic Life Criteria. Note that all cadmium concentrations were reported as estimated (j-values), falling between the method detection limit (MDL) and the RDL.
- As discussed further below in Section 3.4, cadmium was detected at an estimated concentration (j-value) of 0.00001 mg/L in the March 30, 2015, surface water equipment blank; however, this detection does not affect data usability since the cadmium concentrations detected in the equipment blank and all primary samples were below applicable Freshwater Aquatic Life Criteria.

3.4 Data Validation and Usability Discussion

Tables 4 and 7 summarize the QA/QC blank sample data for the March 2015 monitoring event. The QA/QC duplicate sample data are included in the groundwater and surface water quality data summary tables discussed above.

- No VOCs were detected above analytical RDLs in the groundwater or surface water equipment or trip blank QA/QC samples for this monitoring event.
- Cadmium was detected at an estimated concentration (j-value) of 0.00001 mg/L in the March 30, 2015, surface water equipment blank, between the 0.00001 mg/L MDL and the 0.00025 mg/L RDL, but well below the 0.001 and 0.000125 mg/L acute and chronic Freshwater Aquatic Life Criteria, respectively. Typically, detections in the primary samples are qualified as non-detect if they do not exceed five times (5X) the equipment blank concentration (0.00001 mg/L), such as was detected at SW-BB-1 and SW-BB-2. As noted above, this detection does not affect data usability since the cadmium concentrations detected in the primary surface water samples were all below applicable Freshwater Aquatic Life Criteria.
- The groundwater and surface water duplicate sample results for this monitoring event were consistent with the primary sample results and do not indicate an issue with analytical precision.

The data validation report prepared to assess the validity and usability of laboratory analytical data generated from samples collected during the March 2015 PCEMP groundwater and surface water monitoring event is presented in Appendix C. The analytical data were evaluated for QA/QC based on ENVIRON's QAPP/ SAP for the Site (December 2013), USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (June 2008), and USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review (January 2010). Per the December 2013 QAPP/SAP, a USEPA Tier I data validation was performed on all laboratory data. The

QAPP/SAP indicated that a minimum of 10% of the data would undergo USEPA Tier II data validation. All of the groundwater and surface water data in Spectrum laboratory report SDG SC05125 underwent USEPA Tier II data validation in conjunction with this effort.

The data validation report (Appendix C) summarizes the QA/QC evaluation of the data according to precision, accuracy, representativeness, completeness, and comparability relative to the project data quality objectives. The report provides a quantitative and qualitative assessment of the data and identifies potential sources of error, uncertainty, and bias that may affect the overall usability of the data.

- The results of the data validation efforts indicate the data are usable for their intended purpose based on an evaluation of the QC parameters discussed in the data validation report.
- Cadmium was detected in surface water Equipment Blank sample EB-20150330 at an estimated concentration of 0.00001 mg/L. Given that the detection was below the RDL and therefore estimated, other detections below the RDL are flagged as estimated-non-detect (UJ). There were five samples with cadmium detections at concentrations below the MDL, DUP-20150330, SW-NR-1/20150330, SW-NR-2/20150330, SW-BB-1/20150330, and SW-BB-2/20150330.

4. CONCLUSIONS AND RECOMMENDATIONS

Ramboll Environ has completed the March 2015 semiannual PCEMP sampling event. No significant data anomalies were identified during this sampling event. Ramboll Environ recommends that the environmental monitoring program detailed in the revised PCEMP, dated November 10, 2014, continue to be implemented through 2015.

As noted above, at USEPA's request, the December 2013 through March 2015, groundwater sampling events were conducted using the USEPA low-flow sampling methodology; this change likely had an effect on the sampled concentrations of certain chemicals of concern in the 2013–2015 monitoring events relative to historical data. The potential effect of this change in sampling protocol will continue to be evaluated during future sampling events and will be documented in the upcoming annual reports.

The next scheduled environmental monitoring event is the semiannual PCEMP sampling event slated for September 2015.

TABLES

Table 3
Groundwater Elevation Data and Vertical Hydraulic Gradients
March 30, 2015

Envirite RCRA Landfill
Old Waterbury Road, Thomaston, CT

Well	Screened Interval Top (feet BGS)	Screened Interval Bottom (feet BGS)	Type	Ground Elevation (feet)	TOC Elevation (feet)	Stickup (feet)	3/30/15 Depth to Water (ft BTOC)	3/30/15 Groundwater Elevation (feet)	3/30/15 Vertical Gradient (feet/foot)	Comments
MW-30	38	48	DOB	342.13	341.74	-0.39	16.28	325.46	NA	
MW-31S	17	27	OB	340.13	340.29	0.16	15.00	325.29	0.0180	
MW-31D	26.5	31.5	DOB	339.90	341.77	1.87	16.61	325.16	0.0092	
MW-31B	37	47	BR	339.90	341.79	1.89	16.75	325.04		
MW-32S	14	24	OB	340.06	340.66	0.60	14.23	326.43	0.0220	
MW-32D	24.5	39.5	DOB	339.87	340.37	0.50	14.23	326.14		
MW-33	15	25	OB	339.05	340.47	1.42	17.29	323.18		
MW-36	21.5	31.5	DOB	326.77	328.74	1.97	5.48	323.26		Tubing and bailer wedged in well/Could not remove
MW-37D	27	32	DOB	325.55	327.53	1.98	4.31	323.22	0.0115	
MW-37B	55.7	65.7	BR	325.53	327.39	1.86	4.53	322.86		
MW-41S	10	20	OB	332.94	334.73	1.79	11.25	323.48	-0.0189	
MW-41D	17	32	OB	332.94	334.48	1.54	10.82	323.66	-	
MW-41B	45	55	BR	332.83	334.61	1.78	10.88	323.73		
MW-42S	22.5	32.5	OB	339.55	341.16	1.61	17.90	323.26	0.0110	
MW-42B	65	75	BR	340.09	342.15	2.06	19.35	322.80		
MW-43S	22.5	32.5	OB	339.26	340.41	1.15	17.36	323.05	-	
MW-43D	58	68	DOB	339.21	340.65	1.44	17.53	323.12		
MW-44S	17	27	OB	337.97	338.63	0.66	15.63	323.00	-	
MW-44D	62	72	OB	338.01	339.23	1.22	16.19	323.04	-0.0075	
MW-44B	75	85	BR	337.73	340.29	2.56	17.15	323.14		
MW-50S	13.7	18.7	OB	336.30	337.69	1.39	12.84	324.85		
MW-51D	18.3	28.3	OB	340.79	340.41	-0.38	15.34	325.07	-	
MW-51B	38.5	48.5	BR	340.73	340.27	-0.46	15.25	325.02		
MW-52D	43.5	58.5	OB	342.86	342.47	-0.39	N/M			Bailer and tubing wedged in well
MW-53D	25	40	OB	338.18	339.77	1.59	14.72	325.05		
MW-55B	15	25	BR	339.81	341.28	1.47	12.49	328.79		
MW-56S	7.0	12.0	OB	WELL NOT FOUND						Well located off Site on Thomaston POTW property
MW-56D	49	54	OB	WELL NOT FOUND						Well located off Site on Thomaston POTW property
MW-57	7.0	12.0	OB	WELL NOT FOUND						Well located off Site on Thomaston POTW property
MW-58S	6.0	11.0	OB	WELL NOT FOUND						Well located off Site on Thomaston POTW property
MW-58D	68.5	75.1	OB	WELL NOT FOUND						Well located off Site on Thomaston POTW property
MW-59S	5.0	15.0	OB	WELL NOT FOUND						Well located off Site in Roadway
MW-59D	40	50	OB	WELL NOT FOUND						Well located off Site in Roadway
MW-60	4	14	OB	WELL NOT FOUND						Well located off Site in Roadway
MW-61S	14	20	OB	337.31	339.34	2.03	14.85	324.49	0.0140	
MW-61D	42	52	OB	337.34	339.36	2.02	15.29	324.07	0.0259	
MW-61B	59	69	BR	337.38	339.54	2.16	15.91	323.63		
MW-62	19	21	OB	336.90	338.53	1.63	14.17	324.36	0.0408	
MW-62B	26	36	BR	336.86	338.61	1.75	14.70	323.91		
MW-63	14.5	24.5	OB	343.05	342.69	-0.36	15.65	327.04		
UNK-1	Unknown		?	334.14	N/M	-	N/M	-	-	Filled with concrete
UNK-2	Unknown	19.53	?	333.47	334.61	1.14	12.00	322.61	-	Unknown Well
UNK-3	Unknown	35.28	?	329.54	330.75	1.21	8.40	322.35	-	Unknown Well
UNK-4	Unknown	27.14	?	338.22	339.75	1.53	16.71	323.04	-	Unknown Well
UNK-5S	Unknown	13.85	?	325.45	327.26	1.81	4.81	322.45	-	Unknown Well
UNK-5D	Unknown	41.00	?	325.48	327.55	2.07	5.06	322.49	-	Unknown Well

Indicates well is located across Branch Brook
Indicates well is located off Site on Thomaston POTW property and adjacent roadway
Indicates groundwater elevation used to generate overburden groundwater elevation contours
Indicates upward hydraulic gradient
Indicates downward hydraulic gradient

BR: bedrock well
OB: shallow overburden well
DOB: deep overburden well
TOC: top of well casing
BTOC: below top of well casing
BGS: below ground surface
N/M: not measured

TABLE 4

Groundwater Quality Data
March 2015

Envirite RCRA Landfill
Old Waterbury Road, Thomaston, CT

				EAST						INTERIOR				SOUTH/DOWNGRADIENT												QAQC			
				MW-31S		MW-50S		MW-53D		MW-30		MW-51D		MW-41S		MW-41D		MW-42S		MW-42S (DUP)		MW-43S		MW-43D		MW-44D		Trip Blank		Equipment Blank	
Analytes	CT RSRs			3/31/2015		3/31/2015		3/31/2015		3/31/2015		3/31/2015		3/31/2015		3/31/2015		3/31/2015		3/31/2015		3/30/2015		3/30/2015		3/30/2015		3/31/2015		3/31/2015	
(concentration)	I/C VC	RES VC	SWPC	Result	RDL	Result	RDL	Result	RDL	Result	RDL	Result	RDL	Result	RDL	Result	RDL	Result	RDL	Result	RDL	Result	RDL	Result	RDL	Result	RDL	Result	RDL	Result	RDL
Indicator Parameters (mg/l)																															
Cyanide (total)	-	-	0.052	BRL	0.005	BRL	0.005	BRL	0.005	BRL	0.005	BRL	0.005	BRL	0.005	BRL	0.005	BRL	0.005	BRL	0.005	BRL	0.005	BRL	0.005	BRL	0.005	NT	NT	BRL	0.005
Total Metals (mg/l)																															
Arsenic	-	-	0.004	BRL	0.004	BRL	0.004	BRL	0.004	BRL	0.004	BRL	0.004	BRL	0.004	BRL	0.004	BRL	0.004	BRL	0.004	**0.0114**	0.004	BRL	0.004	BRL	0.004	NT	NT	BRL	0.004
Barium	-	-	-	0.163	0.005	0.0555	0.005	0.0191	0.005	BRL	0.005	0.0406	0.005	0.0577	0.005	0.0622	0.005	0.0686	0.005	0.074	0.005	0.0568	0.005	0.0184	0.005	0.0348	0.005	NT	NT	BRL	0.005
Cadmium	-	-	0.006	BRL	0.0025	0.0006	0.0025	0.0006	0.0025	BRL	0.0025	0.0018	0.0025	0.0004	0.0025	0.0003	0.0025	0.0009	0.0025	0.0011	0.0025	0.0006	0.0025	0.004	0.0025	0.0015	0.0025	NT	NT	BRL	0.0025
Chromium	-	-	0.11	0.0454	0.005	BRL	0.005	BRL	0.005	BRL	0.005	0.005	0.005	BRL	0.005	BRL	0.005	BRL	0.005	BRL	0.005	BRL	0.005	BRL	0.005	BRL	0.005	NT	NT	BRL	0.005
Copper	-	-	0.048	0.0179	0.005	BRL	0.005	BRL	0.005	BRL	0.005	**0.0656**	0.005	0.0128	0.005	BRL	0.005	0.0194	0.005	0.0222	0.005	0.0139	0.005	**0.638**	0.005	0.042	0.005	NT	NT	BRL	0.005
Nickel	-	-	0.88	0.122	0.005	0.007	0.005	0.0153	0.005	BRL	0.005	0.0412	0.005	BRL	0.005	BRL	0.005	0.0303	0.005	0.0338	0.005	0.0132	0.005	0.196	0.005	0.035	0.005	NT	NT	BRL	0.005
Zinc	-	-	0.123	**1.38**	0.0165	0.0568	0.0165	0.0051	0.005	0.0095	0.0165	0.0572	0.0165	0.038	0.0615	BRL	0.01	0.088	0.0615	0.096	0.0615	0.016	0.0615	**0.602**	0.0615	0.0562	0.0615	NT	NT	BRL	0.005
Volatile Organic Compounds (µg/l)																															
1,1,2-Trichlorotrifluoroethane (Freon 113)	-	-	-	BRL	500	BRL	5	BRL	5	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1
Acetone	50000	50000	-	BRL	5000	BRL	50	BRL	50	BRL	10	BRL	10	BRL	10	BRL	10	BRL	10	BRL	10	BRL	10	BRL	10	BRL	10	BRL	10	BRL	10
Acrylonitrile	-	-	20	**BRL**	250	BRL	2.5	BRL	2.5	BRL	0.5	BRL	0.5	BRL	0.5	BRL	0.5	BRL	0.5	BRL	0.5	BRL	0.5	BRL	0.5	BRL	0.5	BRL	0.5	BRL	0.5
Benzene	530	215	710	**BRL**	500	BRL	5	BRL	5	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1
Bromobenzene	-	-	-	BRL	500	BRL	5	BRL	5	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1
Bromochloromethane	-	-	-	BRL	500	BRL	5	BRL	5	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1
Bromodichloromethane	-	-	-	BRL	250	BRL	2.5	BRL	2.5	BRL	0.5	BRL	0.5	BRL	0.5	BRL	0.5	BRL	0.5	BRL	0.5	BRL	0.5	BRL	0.5	BRL	0.5	BRL	0.5	BRL	0.5
Bromoform	3800	920	10800	BRL	500	BRL	5	BRL	5	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1
Bromomethane	-	-	-	BRL	1000	BRL	10	BRL	10	BRL	2	BRL	2	BRL	2	BRL	2	BRL	2	BRL	2	BRL	2	BRL	2	BRL	2	BRL	2	BRL	2
2-Butanone (MEK)	50000	50000	-	7300	5000	BRL	50	BRL	50	BRL	10	BRL	10	BRL	10	BRL	10	BRL	10	BRL	10	BRL	10	BRL	10	BRL	10	BRL	10	BRL	10
n-Butylbenzene	-	-	-	BRL	500	BRL	5	BRL	5	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1
sec-Butylbenzene	-	-	-	BRL	500	BRL	5	BRL	5	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1
tert-Butylbenzene	-	-	-	BRL	500	BRL	5	BRL	5	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1
Carbon disulfide	-	-	-	BRL	1000	BRL	10	BRL	10	BRL	2	BRL	2	BRL	2	BRL	2	BRL	2	BRL	2	BRL	2	BRL	2	BRL	2	BRL	2	BRL	2
Carbon tetrachloride	40	16	132	**BRL**	500	BRL	5	BRL	5	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1
Chlorobenzene	6150	1800	420000	BRL	500	BRL	5	BRL	5	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1
Chloroethane	-	-	-	BRL	1000	BRL	10	BRL	10	BRL	2	BRL	2	BRL	2	BRL	2	BRL	2	BRL	2	BRL	2	BRL	2	BRL	2	BRL	2	BRL	2
Chloroform	710	287	14100	**BRL**	500	BRL	5	BRL	5	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1
Chloromethane	-	-	-	BRL	1000	BRL	10	BRL	10	BRL	2	BRL	2	BRL	2	BRL	2	BRL	2	BRL	2	BRL	2	BRL	2	BRL	2	BRL	2	BRL	2
2-Chlorotoluene	-	-	-	BRL	500	BRL	5	BRL	5	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1
4-Chlorotoluene	-	-	-	BRL	500	BRL	5	BRL	5	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1
1,2-Dibromo-3-chloropropane	-	-	-	BRL	1000	BRL	10	BRL	10	BRL	2	BRL	2	BRL	2	BRL	2	BRL	2	BRL	2	BRL	2	BRL	2	BRL	2	BRL	2	BRL	2
Dibromochloromethane	-	-	1020	BRL	250	BRL	2.5	BRL	2.5	BRL	0.5	BRL	0.5	BRL	0.5	BRL	0.5	BRL	0.5	BRL	0.5	BRL	0.5	BRL	0.5	BRL	0.5	BRL	0.5	BRL	0.5
1,2-Dibromoethane (EDB)	16	4	-	**BRL**	250	BRL	2.5	BRL	2.5	BRL	0.5	BRL	0.5	BRL	0.5	BRL	0.5	BRL	0.5	BRL	0.5	BRL	0.5	BRL	0.5	BRL	0.5	BRL	0.5	BRL	0.5
Dibromomethane	-	-	-	BRL	500	BRL	5	BRL	5	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1
1,2-Dichlorobenzene	50000	30500	170000	BRL	500	BRL	5	BRL	5	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1
1,3-Dichlorobenzene	50000	24200	26000	BRL	500	BRL	5	BRL	5	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1
1,4-Dichlorobenzene	50000	50000	26000	BRL	500	BRL	5	BRL	5	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1
Dichlorodifluoromethane (Freon12)	-	-	-	BRL	1000	BRL	10	BRL	10	BRL	2	BRL	2	BRL	2	BRL	2	BRL	2	BRL	2	BRL	2	BRL	2	BRL	2	BRL	2	BRL	2
1,1-Dichloroethane	50000	34600	-	BRL	500	BRL	5	BRL	5	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1
1,2-Dichloroethane	90	21	2970	**BRL**	500	BRL	5	BRL	5	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1
1,1-Dichloroethene	6	1	96	**BRL**	500	**BRL**	5	**BRL**	5	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1
cis-1,2-Dichloroethene	-	-	-	2930	500	87.1	5	170	5	10.2	1	59.8	1	2.7	1	39.3	1	16.6	1	16.6	1	7.5	1	83.3	1	79.3	1	BRL	1	BRL	1
trans-1,2-Dichloroethene	-	-	-	BRL	500	BRL	5	BRL	5	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1
1,2-Dichloropropane	60	14	-	**BRL**	500	BRL	5	BRL	5	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1
1,3-Dichloropropane	-	-	34000	BRL	500	BRL	5	BRL	5	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1
2,2-Dichloropropane	-	-	-	BRL	500	BRL	5	BRL	5	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1
1,1-Dichloropropene	-	-	-	BRL	500	BRL	5	BRL	5	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1
cis-1,3-Dichloropropene	-	-	-	BRL	250	BRL	2.5	BRL	2.5	BRL	0.5	BRL	0.5	BRL	0.5	BRL	0.5	BRL	0.5	BRL	0.5	BRL	0.5	BRL	0.5	BRL	0.5	BRL	0.5	BRL	0.5
trans-1,3-Dichloropropene	-	-	-	BRL	250	BRL	2.5	BRL	2.5	BRL	0.5	BRL	0.5	BRL	0.5	BRL	0.5	BRL	0.5	BRL	0.5	BRL	0.5	BRL	0.5	BRL	0.5	BRL	0.5	BRL	0.5
Ethylbenzene	50000	50000	580000	3170	500	BRL	5	BRL	5	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1
Hexachlorobutadiene	-	-	-	BRL	250	BRL	2.5	BRL	2.5	BRL	0.5	BRL	0.5	BRL	0.5	BRL	0.5	BRL	0.5	BRL	0.5	BRL	0.5	BRL	0.5	BRL	0.5	BRL	0.5	BRL	0.5
2-Hexanone (MBK)	-	-	-	BRL	5000	BRL	50	BRL	50	BRL	10	BRL	10	BRL	10	BRL	10	BRL	10	BRL	10	BRL	10	BRL	10	BRL	10	BRL	10	BRL	10
Isopropylbenzene	-	-	-	BRL	500	BRL	5	BRL	5	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1
4-Isopropyltoluene	-	-	-	BRL	500	BRL	5	BRL	5	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1
Methyl tert-butyl ether	50000	50000	-	BRL	500	BRL	5	BRL	5	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1
4-Methyl-2-pentanone (MIBK)	50000	50000	-	17700	5000	BRL	50	BRL	50	BRL	10	BRL	10	BRL	10	BRL	10	BRL	10	BRL	10	BRL	10	BRL	10	BRL	10	BRL	10	BRL	10
Methylene chloride	50000	50000	48000	BRL	1000	BRL	10	BRL	10	BRL	2	BRL	2	BRL	2	BRL	2	BRL	2	BRL	2	BRL	2	BRL	2	BRL	2	BRL	2	BRL	2
Naphthalene	-	-	-	BRL	500	BRL	5	BRL	5	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1
n-Propylbenzene	-	-	-	BRL	500	BRL	5	BRL	5	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1
Styrene	2065	580	-	BRL	500	BRL	5	BRL	5	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1
1,1,1,2-Tetrachloroethane	50	12	-	**BRL**	500	BRL	5	BRL	5	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1
1,1,2,2-Tetrachloroethane	100	23	110	**BRL**	250	BRL	2.5	BRL	2.5	BRL	0.5	BRL	0.5	BRL	0.5	BRL	0.5	BRL	0.5	BRL	0.5	BRL	0.5	BRL	0.5	BRL	0.5	BRL	0.5	BRL	0.5
Tetrachloroethene	3820	1500	88	**BRL**	500	26.3	5	37.5	5	4.4	1	29.4	1	1.4	1	8	1	4.9	1	5.3	1	9.2	1	31.5	1	22.5	1	BRL	1	BRL	1
Toluene	50000	23500	4000000	11500	500	BRL	5	BRL	5	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1
1,2,3-Trichlorobenzene	-	-	-	BRL	500	BRL	5	BRL	5	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1
1,2,4-Trichlorobenzene	-	-	-	BRL	500	BRL	5	BRL	5	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1
1,3,5-Trichlorobenzene	-	-	-	BRL	500	BRL	5	BRL	5	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1
1,1,1-Trichloroethane	50000	20400	62000	BRL	500	BRL	5	BRL	5	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1
1,1,2-Trichloroethane	19600	8000	1260	BRL	500	BRL	5	BRL	5	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1
Trichloroethene	540	219	2340	**BRL**	500	32	5	57.2	5	5.6	1	38	1	1.4	1	13.1	1	6.7	1	6.6	1	6.6	1	52.2	1	44.4	1	BRL	1	BRL	1
Trichlorofluoromethane (Freon 11)	-	-	-	BRL	500	BRL	5	BRL	5	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1
1,2,3-Trichloropropane	-	-	-	BRL	500	BRL	5	BRL	5	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1
1,2,4-Trimethylbenzene	-	-	-	BRL	500	BRL	5	BRL	5	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1
1,3,5-Trimethylbenzene	-	-	-	BRL	500	BRL	5	BRL	5	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1
Vinyl chloride	2	2	15750	**BRL**	500	**BRL**	5	**7.6**	5	BRL	1	**2.2**	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	**5.8**	1	**5.9**	1	BRL	1	BRL	1
m,p-Xylene	50000	21300	-	6360	1000	BRL	10	BRL	10	BRL	2	BRL	2	BRL	2	BRL	2	BRL	2	BRL	2	BRL	2	BRL	2	BRL	2	BRL	2	BRL	2
o-Xylene			-	2620	500	BRL	5	BRL	5	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1
Tetrahydrofuran	-	-	-	BRL	1000	BRL	10	BRL	10	BRL	2	BRL	2	BRL	2	BRL	2	BRL	2	BRL	2	BRL	2	BRL	2	BRL	2	BRL	2	BRL	2
Ethyl ether	-	-	-	BRL	500	BRL	5	BRL	5	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1
Tert-amyl methyl ether	-	-	-	BRL	500	BRL	5	BRL	5	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1
Ethyl tert-butyl ether	-	-	-	BRL	500	BRL	5	BRL	5	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1
Di-isopropyl ether	-	-	-	BRL	500	BRL	5	BRL	5	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1
Tert-Butanol / butyl alcohol	-	-	-	BRL	5000	BRL	50	BRL	50	BRL	10	BRL	10	BRL	10	BRL	10	BRL	10	BRL	10	BRL	10	BRL	10	BRL	10	BRL	10	BRL	10
trans-1,4-Dichloro-2-butene	-	-	-	BRL	10000	BRL	25	BRL	25	BRL	5	BRL	5	BRL	5	BRL	5	BRL	5	BRL	5	BRL	5	BRL	5	BRL	5	BRL	5	BRL	5
1,4-Dioxane	-	-	-	BRL	2500	BRL	100	BRL	100	BRL	20	BRL	20	BRL	20	BRL	20	BRL	20	BRL	20	BRL	20	BRL	20	BRL	20	BRL	20	BRL	20
Ethanol	-	-	-	BRL	200000	BRL	2,000	BRL	2,000	BRL	400	BRL	400	BRL	400	BRL	400	BRL	400	BRL	400	BRL	400	BRL	400	BRL	400	BRL	400	BRL	400

Notes
1. Groundwater criteria taken from Connecticut Remediation Standard Regulations (RSRs), Section 22a-133k-1 through 22a-133k-3, dated June 26, 2013.
2. SWPC = Surface Water Protection Criteria.
3. VC = Volatilization Criteria. (I/C = Industrial/Commercial; RES = Residential)
4. - indicates RSR standard not established.
5. RDL = Reportable Detection Limit
6. BRL = Below Reporting Limit
7. NT = Not Tested
8. Blue indicates RDL above RSR criteria.
9. Red indicates concentration exceeds RSR criteria.
10. Chromium SWPC indicates hexavalent chromium.
11. Yellow highlighting indicates reported concentration is estimated (J-value) due to detection between method detection limit (MDL) and reportable detection limit (RDL).

TABLE 5
STABILIZED AND/OR FINAL GEOCHEMICAL FIELD PARAMETERS
March 2015

Envirite RCRA Facility
Old Waterbury Rd, Thomaston, CT
ENVIRON Project No. 08-14218H

Groundwater Monitoring Well	Discrete Interval Specs		March 2015							
	Screen Intervals (feet BGS)		Flow Rate (mL/min)	Depth to Water (feet TOC)	pH (SU)	Temp. (°C)	Specific Conductance (µS/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)
	Top Depth	Bottom Depth								
MW-30	38.0	48.0	150	16.30	5.08	11.95	21.00	3.97	232.20	0.01
MW-31S	17.0	27.0	60	17.00	6.05	12.55	960.00	0.19	-69.90	4.87
MW-41S	10.0	20.0	200	11.35	4.82	8.77	194.00	2.42	253.90	3.97
MW-41D	17.0	32.0	240	10.88	5.77	11.01	415.00	0.47	209.70	3.87
MW-42S	22.5	32.5	180	18.08	6.09	10.12	523.00	3.62	225.70	1.25
MW-43S	22.5	32.5	180	17.20	6.06	11.12	1108.00	2.63	211.40	1.32
MW-43D	58.0	68.0	200	17.65	5.28	10.79	1462.00	0.33	271.50	0.54
MW-44D	62.0	72.0	200	16.00	4.97	8.59	1331.00	0.41	251.6	0.12
MW-50S	13.7	18.7	240	12.91	5.99	8.65	634.00	0.42	109.50	0.19
MW-51D	18.3	28.3	280	15.36	6.03	10.17	1138.00	0.39	205.60	0.00
MW-53D	25.0	40.0	240	14.70	6.14	11.58	999.00	0.44	80.50	3.11

Notes:
1. BGS refers to below ground surface.
2. Well installation depths expressed in feet relative to ground surface.
3. feet TOC indicates measurements are expressed in feet below the top of the PVC well casing.

TABLE 7

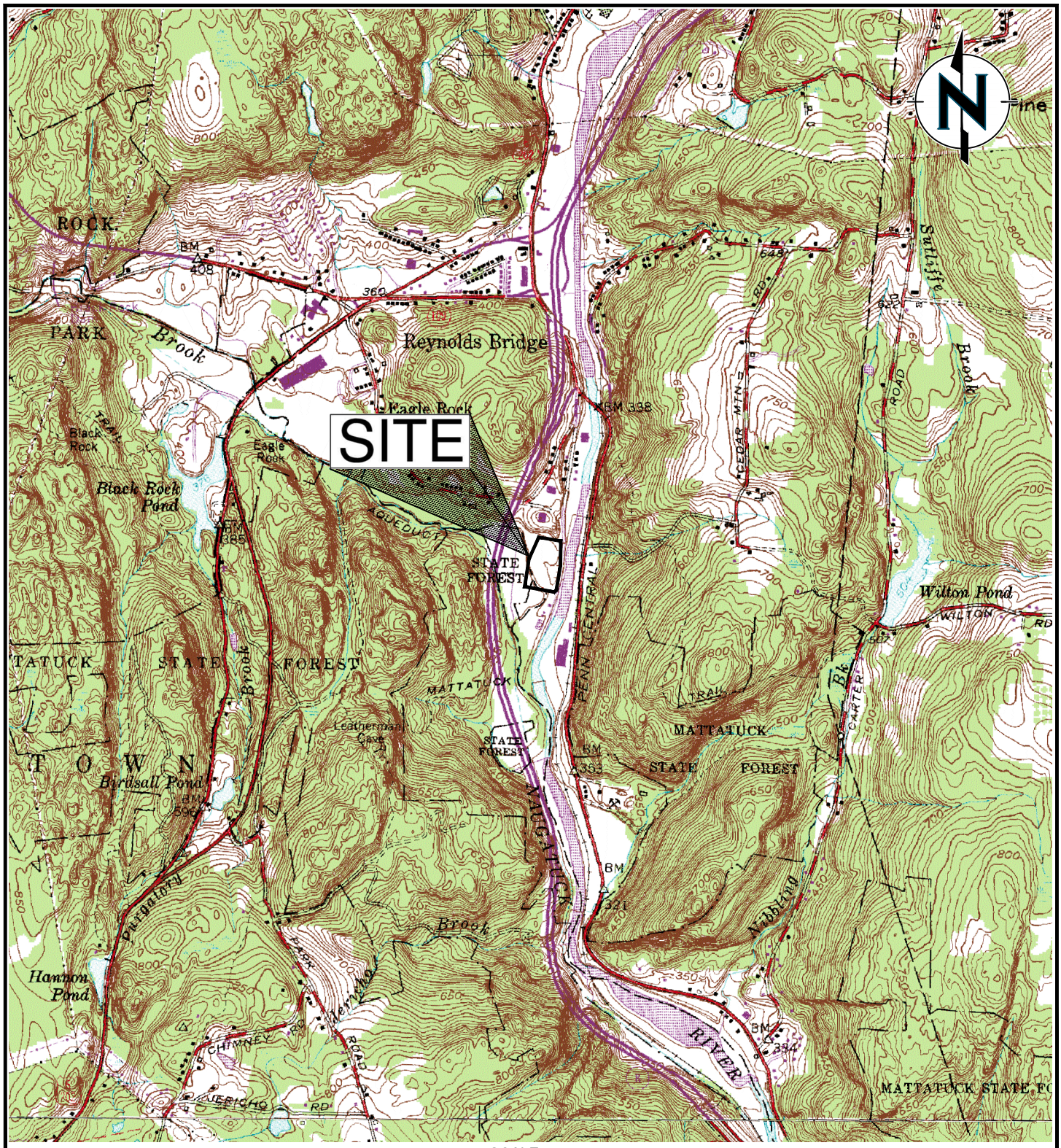
Surface Water Quality Data
March 2015

Envirite RCRA Landfill
Old Waterbury Road, Thomaston, CT

			Naugatuck River						Branch Brook				QAQC			
		Sample Location	SW-NR-1		SW-NR-1 (DUP)		SW-NR-2		SW-BB-1		SW-BB-2		Trip Blank		Equipment Blank	
Analytes	Freshwater Aquatic Life Criteria		3/30/2015		3/30/2014		3/30/2015		3/30/2015		3/30/2015		3/30/2015		3/30/2015	
(concentrations)	Acute	Chronic	Result	RDL	Results	RDL	Result	RDL	Result	RDL	Result	RDL	Results	RDL	Results	RDL
Dissolved Metals (mg/l)																
Arsenic	0.34	0.15	BRL	0.0006	BRL	0.0006	BRL	0.0006	BRL	0.006	BRL	0.0006	NT	NT	BRL	0.0005
Cadmium	0.001	0.000125	0.00007	0.00025	0.00007	0.00025	0.00007	0.00025	0.00002	0.00025	0.00002	0.00025	NT	NT	0.00001	0.00025
Copper	0.0143	0.0048	BRL	0.0018	BRL	0.0018	BRL	0.0018	BRL	0.0018	BRL	0.0018	NT	NT	BRL	0.00025
Zinc	0.065	0.065	0.0119	0.001	0.0116	0.001	0.0112	0.001	0.00413	0.001	0.00442	0.001	NT	NT	BRL	0.025
Volatile Organic Compounds (µg/l)																
1,1,2-Trichlorotrifluoroethane (Freon 113)	-	-	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1
Acetone	-	-	BRL	10	BRL	10	BRL	10	BRL	10	BRL	10	BRL	10	BRL	10
Acrylonitrile	-	-	BRL	0.5	BRL	0.5	BRL	0.5	BRL	0.5	BRL	0.5	BRL	0.5	BRL	0.5
Benzene	-	-	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1
Bromobenzene	-	-	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1
Bromochloromethane	-	-	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1
Bromodichloromethane	-	-	BRL	0.5	BRL	0.5	BRL	0.5	BRL	0.5	BRL	0.5	BRL	0.5	BRL	0.5
Bromoform	-	-	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1
Bromomethane	-	-	BRL	2	BRL	2	BRL	2	BRL	2	BRL	2	BRL	2	BRL	2
2-Butanone (MEK)	-	-	BRL	10	BRL	10	BRL	10	BRL	10	BRL	10	BRL	10	BRL	10
n-Butylbenzene	-	-	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1
sec-Butylbenzene	-	-	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1
tert-Butylbenzene	-	-	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1
Carbon disulfide	-	-	BRL	2	BRL	2	BRL	2	BRL	2	BRL	2	BRL	2	BRL	2
Carbon tetrachloride	-	-	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1
Chlorobenzene	-	-	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1
Chloroethane	-	-	BRL	2	BRL	2	BRL	2	BRL	2	BRL	2	BRL	2	BRL	2
Chloroform	-	-	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1
Chloromethane	-	-	BRL	2	BRL	2	BRL	2	BRL	2	BRL	2	BRL	2	BRL	2
2-Chlorotoluene	-	-	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1
4-Chlorotoluene	-	-	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1
1,2-Dibromo-3-chloropropane	-	-	BRL	2	BRL	2	BRL	2	BRL	2	BRL	2	BRL	2	BRL	2
Dibromochloromethane	-	-	BRL	0.5	BRL	0.5	BRL	0.5	BRL	0.5	BRL	0.5	BRL	0.5	BRL	0.5
1,2-Dibromoethane (EDB)	-	-	BRL	0.5	BRL	0.5	BRL	0.5	BRL	0.5	BRL	0.5	BRL	0.5	BRL	0.5
Dibromomethane	-	-	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1
1,2-Dichlorobenzene	-	-	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1
1,3-Dichlorobenzene	-	-	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1
1,4-Dichlorobenzene	-	-	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1
Dichlorodifluoromethane (Freon12)	-	-	BRL	2	BRL	2	BRL	2	BRL	2	BRL	2	BRL	2	BRL	2
1,1-Dichloroethane	-	-	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1
1,2-Dichloroethane	-	-	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1
1,1-Dichloroethene	-	-	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1
cis-1,2-Dichloroethene	-	-	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1
trans-1,2-Dichloroethene	-	-	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1
1,2-Dichloropropane	-	-	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1
1,3-Dichloropropane	-	-	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1
2,2-Dichloropropane	-	-	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1
1,1-Dichloropropene	-	-	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1
cis-1,3-Dichloropropene	-	-	BRL	0.5	BRL	0.5	BRL	0.5	BRL	0.5	BRL	0.5	BRL	0.5	BRL	0.5
trans-1,3-Dichloropropene	-	-	BRL	0.5	BRL	0.5	BRL	0.5	BRL	0.5	BRL	0.5	BRL	0.5	BRL	0.5
Ethylbenzene	-	-	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1
Hexachlorobutadiene	-	-	BRL	0.5	BRL	0.5	BRL	0.5	BRL	0.5	BRL	0.5	BRL	0.5	BRL	0.5
2-Hexanone (MBK)	-	-	BRL	10	BRL	10	BRL	10	BRL	10	BRL	10	BRL	10	BRL	10
Isopropylbenzene	-	-	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1
4-Isopropyltoluene	-	-	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1
Methyl tert-butyl ether	-	-	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1
4-Methyl-2-pentanone (MIBK)	-	-	BRL	10	BRL	10	BRL	10	BRL	10	BRL	10	BRL	10	BRL	10
Methylene chloride	-	-	BRL	2	BRL	2	BRL	2	BRL	2	BRL	2	BRL	2	BRL	2
Naphthalene	-	-	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1
n-Propylbenzene	-	-	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1
Styrene	-	-	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1
1,1,1,2-Tetrachloroethane	-	-	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1
1,1,2,2-Tetrachloroethane	-	-	BRL	0.5	BRL	0.5	BRL	0.5	BRL	0.5	BRL	0.5	BRL	0.5	BRL	0.5
Tetrachloroethene	-	-	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1
Toluene	-	-	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1
1,2,3-Trichlorobenzene	-	-	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1
1,2,4-Trichlorobenzene	-	-	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1
1,3,5-Trichlorobenzene	-	-	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1
1,1,1-Trichloroethane	-	-	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1
1,1,2-Trichloroethane	-	-	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1
Trichloroethene	-	-	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1
Trichlorofluoromethane (Freon 11)	-	-	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1
1,2,3-Trichloropropane	-	-	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1
1,2,4-Trimethylbenzene	-	-	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1
1,3,5-Trimethylbenzene	-	-	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1
Vinyl chloride	-	-	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1
m,p-Xylene	-	-	BRL	2	BRL	2	BRL	2	BRL	2	BRL	2	BRL	2	BRL	2
o-Xylene	-	-	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1
Tetrahydrofuran	-	-	BRL	2	BRL	2	BRL	2	BRL	2	BRL	2	BRL	2	BRL	2
Ethyl ether	-	-	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1
Tert-amyl methyl ether	-	-	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1
Ethyl tert-butyl ether	-	-	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1
Di-isopropyl ether	-	-	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1	BRL	1
Tert-Butanol / butyl alcohol	-	-	BRL	10	BRL	10	BRL	10	BRL	10	BRL	10	BRL	10	BRL	10
trans-1,4-Dichloro-2-butene	-	-	BRL	5	BRL	5	BRL	5	BRL	5	BRL	5	BRL	5	BRL	5
1,4-Dioxane	-	-	BRL	20	BRL	20	BRL	20	BRL	20	BRL	20	BRL	20	BRL	20
Ethanol	-	-	BRL	400	BRL	400	BRL	400	BRL	400	BRL	400	BRL	400	BRL	400

Notes
1. Freshwater aquatic life criteria taken from Connecticut Remediation Standard Regulations (RSRs), Section 22a-426-1 through 22a-426-9, dated October 10, 2013.
2. - indicates RSR standard not established.
3. RDL = Reportable Detection Limit
4. BRL = Below Reporting Limit
5. NT = Not Tested
6. Blue indicates RDL above RSR criteria.
7. Red indicates concentration exceeds RSR criteria.
8. Yellow highlighting indicates reported concentration is estimated (J-value) due to detection between method detection limit (MDL) and reportable detection limit (RDL).

FIGURES



SCALE 1:24000

0 0.5 1 Kilometers

0 1/2 1 Miles

2000 0 2000 4000 Feet

SOURCE: U.S. Geological Survey 7.5 minute (topographic) quadrangles; Thomaston, and Waterbury, Connecticut.

RAMBOLL ENVIRON

DRAFTED BY: \GMILES

DATE: 5/16/2013

Site Location Map

Envirite RCRA Landfill

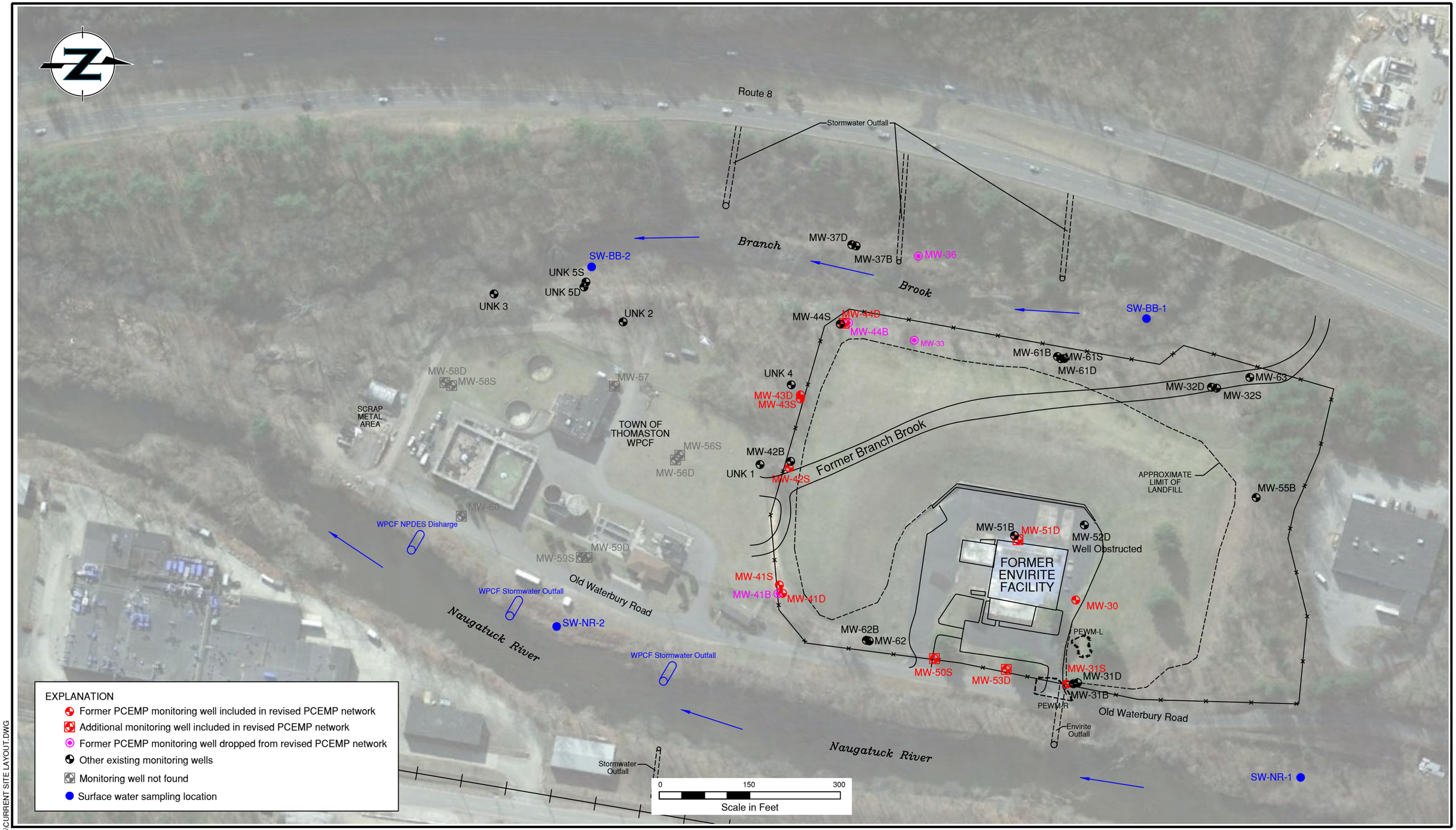
Old Waterbury Road, Thomaston, CT

Figure

1

PROJECT: 08-14218F

C:\PROJECTS\08-14218F\SLM THOMASTON CT.DWG



RAMBOLL ENVIRON

DRAFTED BY: \GMILES

DATE: 12/8/2014

Environmental Monitoring Locations Site Plan

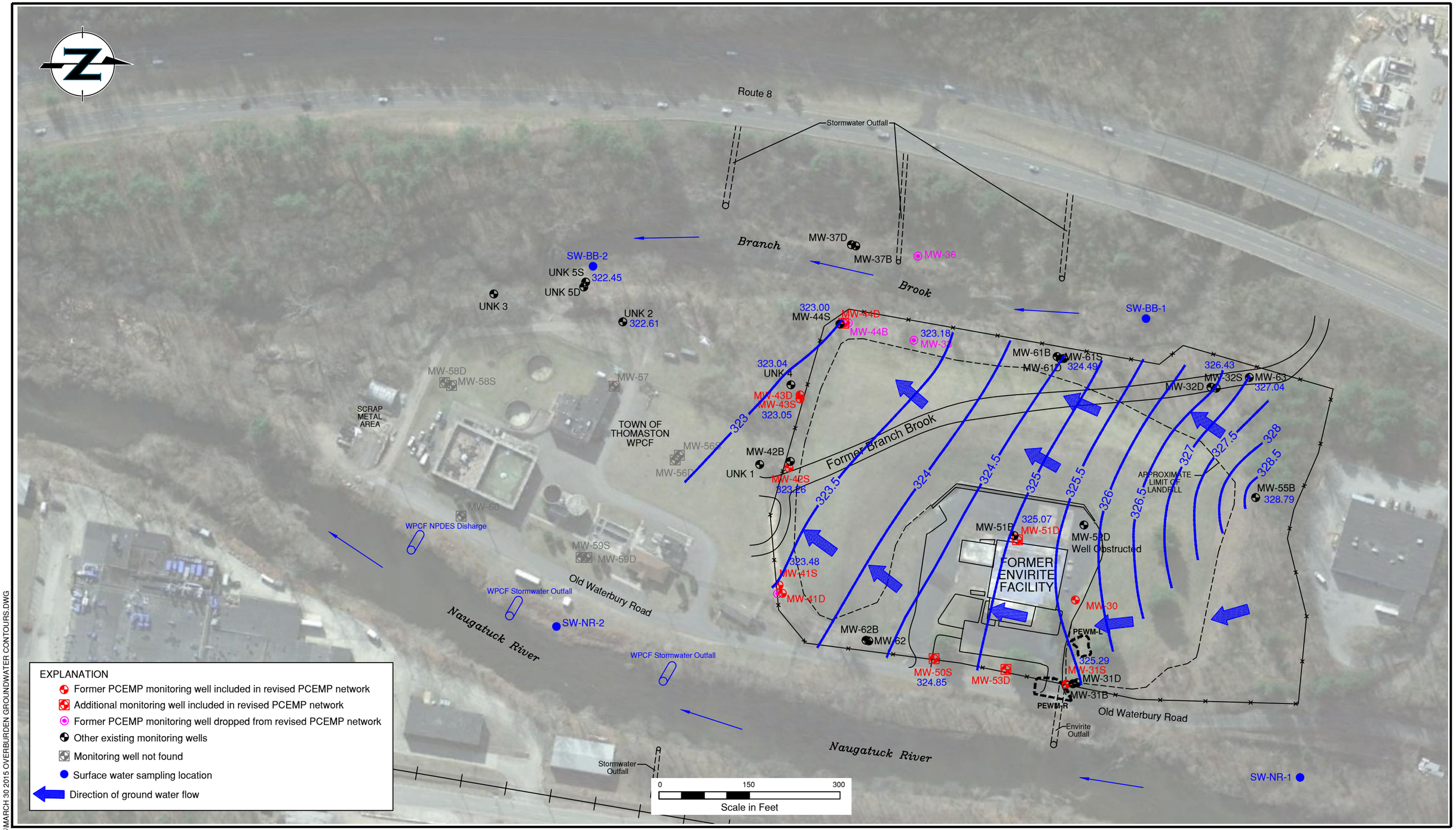
Envirite RCRA Facility

Old Waterbury Road, Thomaston, Connecticut

Figure

2

C:\PROJECTS\08-14218G5\CURRENT SITE LAYOUT.DWG



RAMBOLL ENVIRON

DRAFTED BY: \GMILES

DATE: 4/20/2015

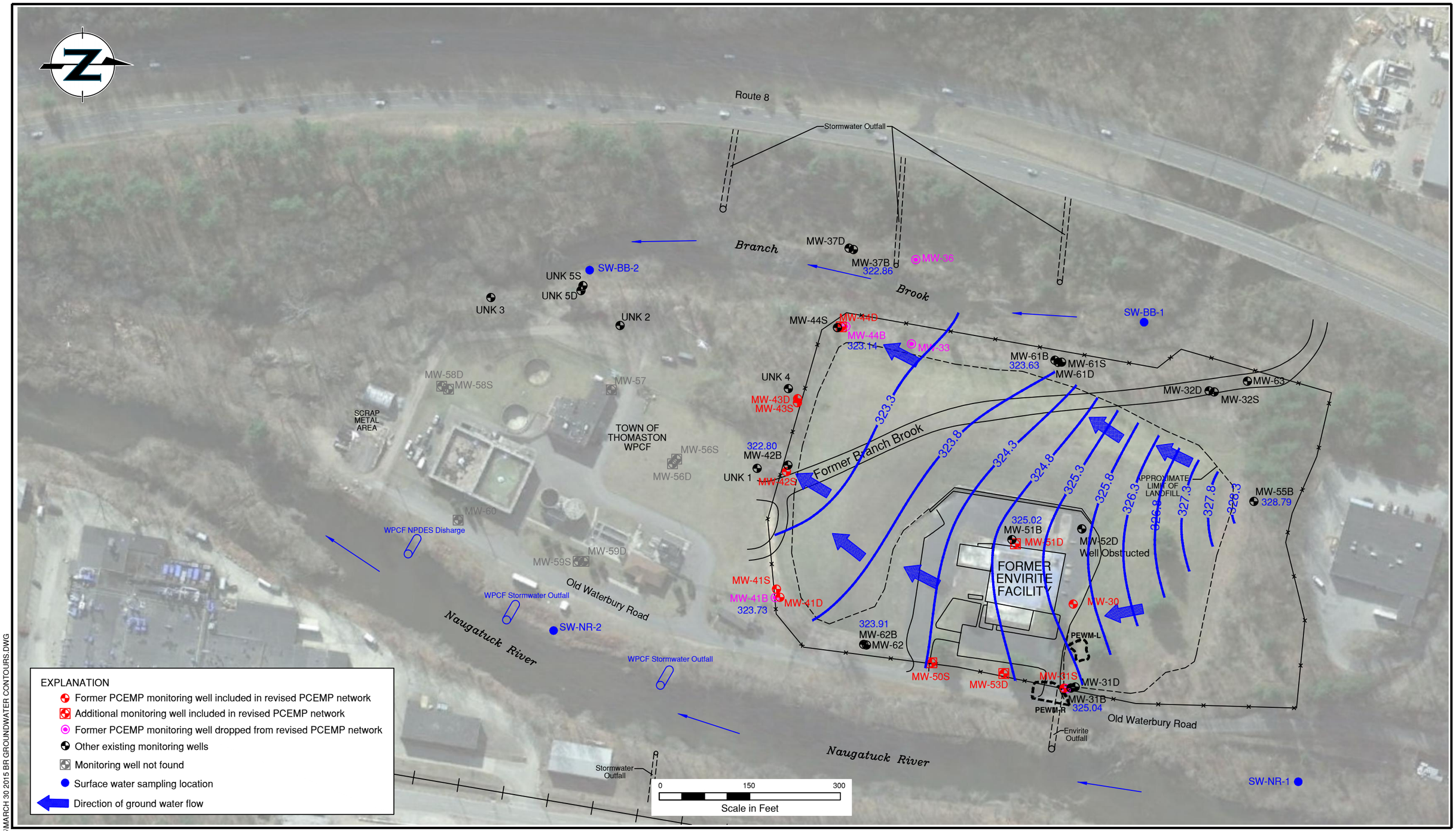
Environmental Monitoring Locations Site Plan
March 30, 2015 Overburden Groundwater Elevation Contours

Envirite RCRA Facility

Old Waterbury Road, Thomaston, Connecticut

Figure
3-1

C:\PROJECTS\08-14218G5\MARCH 30 2015 OVERBURDEN GROUNDWATER CONTOURS.DWG



C:\PROJECTS\08-14218G5\MARCH 30 2015 BR GROUNDWATER CONTOURS.DWG

RAMBOLL ENVIRON

DRAFTED BY: \GMILES

DATE: 4/20/2015

Environmental Monitoring Locations Site Plan
March 30, 2015 Bedrock Groundwater Elevation Contours

Envirite RCRA Facility

Old Waterbury Road, Thomaston, Connecticut

Figure
3-2

APPENDIX A
FIELD NOTES, GROUNDWATER ELEVATION GAUGING FORM, EQUIPMENT CALIBRATION LOGS, AND LOW-FLOW GROUNDWATER SAMPLING FIELD FORMS

ENVIRON
100 Pearl Street, East Tower, Third Floor, Hartford, Connecticut 06103
Tel: +1 860 503 1660 Fax: +1 860 241 0620
environcorp.com

Thomaston Envirite
Case Name

3-30-15
Date

08-14218H
Case #

☐ Phone Call ☐ Meeting ☒ Work ☐ Other

Luke C / John U
ENVIRON Staff Member

GWS
Subject

Other Parties

0730 on site. 40°F, Light snow, cloudy.
Calibrated Equipment.
Luke + John review HASP w/ focus on water safety, PPE, and biological hazards.
Opening all wells to let breath before doing waterlevels.
John begins waterlevels while Luke collects surfacewater samples.
Duplicate surfacewater sample collected at SW-NR-1.
Checked in at POTW. Collected waterlevels at POTW.
1230 Luke begins groundwater sampling.
John's vehicle stuck in snow.
1300 Vehicle unstuck. John finishes up waterlevels.
1400 John's vehicle stuck again.
1550 Luke's vehicle stuck in drainage swale.
1700 Luke's vehicle unstuck.
John still stuck, called AAA.
1900 AAA gives Luke a chain to pull John's vehicle.
1915 offsite.

ENVIRON
3 Carlisle Road, Suite 210
Westford, MA 01886
T: +1 978 449 0358
F: +1 978 449 0301

EQUIPMENT CALIBRATION LOG

PRELIMINARY FIELD DRAFT REVIEW PENDING

PROJECT NAME: Envirite RCRA Landfill

FIELD PERSON: Luke C John U

PROJECT NUMBER: 08-14218 H

PROJECT MANAGER: John N

PROJECT LOCATION: Thomaston, CT

FORM DATES: FROM 3-30-15 TO 3-31-15

DATE	EQUIPMENT MODEL/TYPE	SERIAL NUMBER	TEMP. (°C)	STANDARD	PRECALIBRATED READING	CALIBRATED READING
3-30-15	YSI	08J101248		Cond=1000 DO=100 Orp=237.5 pH=4,7,10	Cond=1000 DO=99.9 Orp=236 pH=4,7,10	Cond=1000 DO=100 Orp=237.5 pH=4,7,10
3-30-15	Turb	LaMotte		0, 10, 100	0, 10, 100	0, 10, 100
3-30-15	YSI	14F100062		Cond=1000 DO=100 Orp=237.5 pH=4,7,10	Cond=1001 DO=99.7 Orp=237 pH=4,7,10	Cond=1000 DO=100 Orp=237.5 pH=4,7,10
3-30-15	Turb	LaMotte		0, 10, 100	0, 10, 100	0, 10, 100
3-31-15	YSI	08J101248		Cond=1000 DO=100 Orp=237.5 pH=4,7,10	Cond=1002 DO=99.8 Orp=238 pH=4,7,10	Cond=1000 DO=100 Orp=237.5 pH=4,7,10
3-31-15	Turb	La Motte		0, 10, 100	0, 10, 100	0, 10, 100
3-31-15	YSI	14F100062		Cond=1000 DO=100 Orp=237.5 pH=4,7,10	Cond=1001 DO=100 Orp=237 pH=4,7,10	Cond=1000 DO=100 Orp=237.5 pH=4,7,10
3-31-15	Turb	LaMotte		0, 10, 100	0, 10, 100	0, 10, 100

LC

LC

GROUNDWATER GAUGING FORM

SITE: ENVIRITE RCRA Landfill

LOCATION: Old Waterbury Road, Thomaston, CT

DATE: 3-30-15

PERSONNEL: Luke C
John V

Well	Screened Interval (feet bgs)	Type	Time	Depth to Water (ft BTOC)	Total Depth (ft BGS)	Stickup (feet)	Comments
MW-30	38 - 48	OB		16.28			
MW-31S	17 – 27	OB		15.00			Obstruction at 7.80'
MW-31D	26.5 – 31.5	OB		16.61			
MW-31B	37 - 47	BR		16.75			
MW-32S	14 - 24	OB		14.23			
MW-32D	24.5 - 39.5	OB		14.23			
MW-33	15 - 25	OB		17.29			
MW-36	21.5 - 31.5	OB		5.48			Tubing and bailer wedged in well/Could not remove.
MW-37D	27 - 32	OB		4.31			Mislabelled in the field as MW-37B.
MW-37B	55.7 - 65.7	BR		4.53			Mislabelled in the field as MW-37D.
MW-41S	10 - 20	OB		11.25			
MW-41D	17 - 32	OB		10.82			
MW-41B	45 - 55	BR		10.88			
MW-42S	22.5 – 32.5	OB		17.90			
MW-42B	65 - 75	BR		19.35			
MW-43S	22.5 – 32.5	OB		17.36			
MW-43D	58 - 68	OB		17.53			
MW-44S	17 - 27	OB		15.63			
MW-44D	62 - 72	OB		16.19			
MW-44B	75 - 85	BR		17.15			Hitting something at 18.75'
MW-50S	13.7 – 18.7	OB		12.84			
MW-51D	18.3 - 28.3	OB		15.34			
MW-51B	38.5 - 48.5	BR		15.25			
MW-52D	43.5 - 58.5	OB					Bailer and tubing wedged in well.
MW-53D	25 - 40	OB		14.72			
MW-55B	15 - 25	BR		12.49			
MW-56S	7 - 12	OB					Well located off Site on POTW property. Never found.
MW-56D	49 - 54	OB					Well located off Site on POTW property. Never found.
MW-57	7 - 12	OB					Well located off Site on POTW property. Never found.
MW-58S	6 - 11	OB					Well located off Site on POTW property. Never found.
MW-58D	68.5 - 75.1	OB					Well located off Site on POTW property. Never found.
MW-59S	5 - 15	OB					Well located off Site in Roadway. Never found.
MW-59D	40 - 50	OB					Well located off Site in Roadway. Never found.
MW-60	4 - 14	OB					Well located off Site in Roadway. Never found.
MW-61S	14 - 20	OB		14.85			
MW-61D	42 - 52	OB		15.29			
MW-61B	59 - 69	BR		15.91			
MW-62	19 - 21	OB		14.17			
MW-62B	26 -36	BR		14.70			
MW-63	14.5 – 24.5	OB		15.65			
UNK-1	UNKNOWN	OB					POTW property. Abandoned.
UNK-2	UNKNOWN	OB		12.00			POTW property. Between POTW and Branch Brook
UNK-3	UNKNOWN	OB		8.40			POTW property. Between POTW and Branch Brook
UNK-4	UNKNOWN	OB		16.71			POTW property. By 43 couplet
UNK-5S	UNKNOWN	OB		4.81			POTW property. Newly discovered.
UNK-5D	UNKNOWN	OB		5.06			POTW properly. Newly discovered.

Indicates well is located across Branch Brook in GA Area
Indicates well is located off Site on Thomaston POTW property and/or adjacent roadway
Indicates waterlevel is unable to be obtained

LOW FLOW GROUNDWATER SAMPLING FIELD FORM

Site: Thomaston Envirite
Project No.: 08-14218H
Date: 3-30-15
Weather: 40°F Snow Showers, Cloudy

Well ID: MW-43D
Sample ID: MW-43D/20150330
Sampler: Luke Chmieleck.
Signature: [illegible]

Well Condition Observations	
Protective Casing:	Good
Lock:	
Label:	LC
Surface Seal:	
PVC Well Casing:	

Well Volume Calculations	
Well Diameter (in.):	2"
Depth to Water (ft.):	17.65
Total Depth (ft.):	69.65
Well Volume (gal.):	8.49

Pump Start: 1315

Time	Throttle SETTING (Feet H_2O)	Time Refill/ Discharge	Cycles per Minute	Discharge Volume/Cycle (mL)	FLOW RATE (mL/min)	DEPTH TO WATER (feet)	pH (SU)	TEMP (°C)	SPECIFIC CONDUCTANCE (uS/cm)	DISSOLVED OXYGEN (mg/L)	ORP (mV)	TURBIDITY (NTU)	TOTAL PURGE VOLUME (liters or gallons)
1320		10/5	4	50	200	17.65	5.43	10.68	1444	1.24	272.9	1.09	.5
1325		10/5	4	50	200	17.65	5.33	10.71	1460	0.69	273.7	0.82	1.5
1330		10/5	4	50	200	17.65	5.30	10.71	1462	0.51	273.0	0.71	2.5
1335	LC	10/5	4	50	200	17.65	5.29	10.74	1461	0.45	272.5	0.67	3.5
1340		10/5	4	50	200	17.65	5.28	10.80	1462	0.38	271.9	0.64	4.5
1345		10/5	4	50	200	17.65	5.28	10.79	1461	0.34	271.7	0.60	5.5
1350		10/5	4	50	200	17.65	5.28	10.79	1462	0.33	271.5	0.54	6.5
							LC						
Stabilization Criteria					100 - 400 mL/min	Drawdown < 0.3'	+/- 0.1 units	3%	3%	10% > 0.5 mg/L or 3 consecutive readings <0.5 mg/L	+/- 10 mV	10% >5 NTU or 3 consecutive readings < 5 NTU	
Stabilization Achieved (Y/N)					Y	Y	Y	Y	Y	Y	Y	Y	

Sampling/Purging Equipment	
Water Level Meter:	Solinst
pH/S.C./Dissolved Oxygen/ORP:	YSI
Turbidity:	LaMotte
Pump:	Bladder
Intake Depth (feet below PVC):	64.65
Tubing:	1/4" Poly

Laboratory Analyses/Containers			
Container	Preservative	#	Analysis
see COC			

Note: During well purging, monitor indicator field parameters (turbidity, temperature, specific conductance, pH, ORP, DO) at a minimum frequency of 3-5 minute intervals or greater. The pump's flow rate must be able to "turn over" at least one (1) flow-through-cell volume between measurements (for a 250 mL flow-through-cell with a flow rate of 50 mLs/min., the monitoring frequency would be every five minutes; for a 500 mL flow-through-cell it would be every ten minutes). If the cell volume cannot be replaced in the five minute interval, then the time between measurements must be increased accordingly.

SAMPLE COLLECTION TIME	START	END
	1350	LC

Comments: Total Purge Volume = 6.5 L

ENVIRON

8 Hollis Street
Groton, MA 01450

LOW FLOW GROUNDWATER SAMPLING FIELD FORM

Site: Thomaston Envirite
Project No.: 08-142184
Date: 3-30-15
Weather: 40°F Snow Showers, Cloudy

Well ID: MW-43S
Sample ID: MW-43S/20150330
Sampler: Luke Chmielecki
Signature: [illegible]

Well Condition Observations	
Protective Casing:	Good
Lock:	↓
Label:	LC
Surface Seal:	
PVC Well Casing:	↓

Well Volume Calculations	
Well Diameter (in.):	2
Depth to Water (ft.):	17.20
Total Depth (ft.):	33.63
Well Volume (gal.):	2.68

Pump Start: 1400

Time	Throttle SETTING (Feet H_2O)	Time Refill/ Discharge	Cycles per Minute	Discharge Volume/Cycle (mL)	FLOW RATE (mL/min)	DEPTH TO WATER (feet)	pH (SU)	TEMP (°C)	SPECIFIC CONDUCTANCE (uS/cm)	DISSOLVED OXYGEN (mg/L)	ORP (mV)	TURBIDITY (NTU)	TOTAL PURGE VOLUME (liters or gallons)
1405	↓	10/5	4	45	180	17.20	6.16	11.15	1084	4.79	212.0	2.63	.72
1410		10/5	4	45	180	17.20	6.08	11.16	1100	3.65	210.6	2.40	1.44
1415	LC	10/5	4	45	180	17.20	6.07	11.14	1102	2.70	210.9	1.66	2.16
1420		10/5	4	45	180	17.20	6.07	11.13	1107	2.65	211.2	1.40	2.88
1425		10/5	4	45	180	17.20	6.06	11.12	1108	2.63	211.4	1.32	3.6
							LC						
Stabilization Criteria					100 - 400 mL/min	Drawdown < 0.3'	+/- 0.1 units	3%	3%	10% > 0.5 mg/L or 3 consecutive readings <0.5 mg/L	+/- 10 mV	10% >5 NTU or 3 consecutive readings < 5 NTU	
Stabilization Achieved (Y/N)					Y	Y	Y	Y	Y	Y	Y	Y	

Sampling/Purging Equipment	
Water Level Meter:	Solinst
pH/S.C./Dissolved Oxygen/ORP:	YSI
Turbidity:	LaMotte
Pump:	Bladder
Intake Depth (feet below PVC):	27.5
Tubing:	1/4" poly

Note: During well purging, monitor indicator field parameters (turbidity, temperature, specific conductance, pH, ORP, DO) at a minimum frequency of 3-5 minute intervals or greater. The pump's flow rate must be able to "turn over" at least one (1) flow-through-cell volume between measurements (for a 250 mL flow-through-cell with a flow rate of 50 mL/min., the monitoring frequency would be every five minutes; for a 500 mL flow-through-cell it would be every ten minutes). If the cell volume cannot be replaced in the five minute interval, then the time between measurements must be increased accordingly.

Laboratory Analyses/Containers			
Container	Preservative	#	Analysis
See COC			

SAMPLE COLLECTION TIME	START	END
	1425	LC

Comments: Total Purge Volume = 3.6

ENVIRON

8 Hollis Street
Groton, MA 01450

LOW FLOW GROUNDWATER SAMPLING FIELD FORM

Site: Thomaston Enviro-te
Project No.: 08-14218H
Date: 3-30-15
Weather: 40°F Snow Showers, Cloudy

Well ID: MW-44D
Sample ID: MW-44D/20150330
Sampler: Luke Chmieleck.
Signature: [illegible]

Well Condition Observations	
Protective Casing:	Good
Lock:	
Label:	LC
Surface Seal:	
PVC Well Casing:	

Well Volume Calculations	
Well Diameter (in.):	2"
Depth to Water (ft.):	16.00
Total Depth (ft.):	73.68
Well Volume (gal.):	9.41

Pump Start:	1500

Time	Throttle SETTING (Feet H_2O)	Time Refill/ Discharge	Cycles per Minute	Discharge Volume/Cycle (mL)	FLOW RATE (mL/min)	DEPTH TO WATER (feet)	pH (SU)	TEMP (°C)	SPECIFIC CONDUCTANCE (uS/cm)	DISSOLVED OXYGEN (mg/L)	ORP (mV)	TURBIDITY (NTU)	TOTAL PURGE VOLUME (liters or gallons)
1505		10/5	4	50	200	16.00	5.03	8.48	1362	0.89	250.2	0.54	.5
1510		10/5	4	50	200	16.00	5.04	8.71	1366	0.54	248.7	0.13	1.5
1515		10/5	4	50	200	16.00	4.98	8.62	1351	0.57	249.7	0.13	2.5
1520	LC	10/5	4	50	200	16.00	4.97	8.60	1342	0.49	250.2	0.12	3.5
1525		10/5	4	50	200	16.00	4.96	8.57	1335	0.42	251.0	0.12	4.5
1530		10/5	4	50	200	16.00	4.97	8.59	1331	0.41	251.6	0.12	5.5
							LC						
Stabilization Criteria					100 - 400 mL/min	Drawdown < 0.3'	+/- 0.1 units	3%	3%	10% > 0.5 mg/L or 3 consecutive readings <0.5 mg/L	+/- 10 mV	10% >5 NTU or 3 consecutive readings < 5 NTU	
Stabilization Achieved (Y/N)					Y	Y	Y	Y	Y	Y	Y	Y	

Sampling/Purging Equipment	
Water Level Meter:	Solinst
pH/S.C./Dissolved Oxygen/ORP:	YSI
Turbidity:	LaMotte
Pump:	Bladder
Intake Depth (feet below PVC):	68.68
Tubing:	1/4" Poly

Laboratory Analyses/Containers			
Container	Preservative	#	Analysis
See COC			

Note: During well purging, monitor indicator field parameters (turbidity, temperature, specific conductance, pH, ORP, DO) at a minimum frequency of 3-5 minute intervals or greater. The pump's flow rate must be able to "turn over" at least one (1) flow-through-cell volume between measurements (for a 250 mL flow-through-cell with a flow rate of 50 mL/min., the monitoring frequency would be every five minutes; for a 500 mL flow-through-cell it would be every ten minutes). If the cell volume cannot be replaced in the five minute interval, then the time between measurements must be increased accordingly.

SAMPLE COLLECTION TIME	START	END
	1530	LC

Comments: Total Purge Volume = 5.5 L

ENVIRON

8 Hollis Street
Groton, MA 01450

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Thomaston Envirite
Case Name

3-31-15
Date

08-14218H
Case #

☐ Phone Call ☐ Meeting ☒ Work ☐ Other

Luke C / John U
ENVIRON Staff Member

GWS
Subject

Other Parties

0700 on site. 36°F, Partly Sunny.
Calibrated equipment.
Luke and John review HASP w/focus on PPE and driving safety.
Began groundwater sampling.
Duplicate sample collected at MW-42S.
Finished sampling.
Courier on site 1445.
Offsite 1500.

LC

LOW FLOW GROUNDWATER SAMPLING FIELD FORM

Site: Thomaston Envirite
Project No.: 08-14218H
Date: 3-31-15
Weather: 35°F Partly Cloudy

Well ID: MW-42S
Sample ID: MW-42S/20150331
Sampler: Luke Chmielecki
Signature: [illegible]

Well Condition Observations	
Protective Casing:	Good
Lock:	
Label:	
Surface Seal:	
PVC Well Casing:	

Well Volume Calculations	
Well Diameter (in.):	2
Depth to Water (ft.):	18.07
Total Depth (ft.):	32.50
Well Volume (gal.):	2.36

Pump Start: 0800

Time	Throttle SETTING (Feet H_2O)	Time Refill/ Discharge	Cycles per Minute	Discharge Volume/Cycle (mL)	FLOW RATE (mL/min)	DEPTH TO WATER (feet)	pH (SU)	TEMP (°C)	SPECIFIC CONDUCTANCE (uS/cm)	DISSOLVED OXYGEN (mg/L)	ORP (mV)	TURBIDITY (NTU)	TOTAL PURGE VOLUME (liters or gallons)
0805		10/5	4	45	180	18.07	6.11	10.03	526	4.02	227.0	1.60	.72
0810		10/5	4	45	180	18.07	6.10	10.21	525	3.68	226.8	1.49	1.44
0815		10/5	4	45	180	18.08	6.10	10.14	524	3.59	226.6	1.38	2.16
0820		10/5	4	45	180	18.08	6.09	10.13	524	3.61	226.0	1.30	2.88
0825		10/5	4	45	180	18.08	6.09	10.12	523	3.62	225.7	1.25	3.6
Stabilization Criteria					100 - 400 mL/min	Drawdown < 0.3'	+/- 0.1 units	3%	3%	10% > 0.5 mg/L or 3 consecutive readings <0.5 mg/L	+/- 10 mV	10% >5 NTU or 3 consecutive readings < 5 NTU	
Stabilization Achieved (Y/N)					Y	Y	Y	Y	Y	Y	Y	Y	

Sampling/Purging Equipment	
Water Level Meter:	Solinst
pH/S.C./Dissolved Oxygen/ORP:	YSI
Turbidity:	LaMotte
Pump:	Bladder
Intake Depth (feet below PVC):	27.50
Tubing:	1/4" Poly

Note: During well purging, monitor indicator field parameters (turbidity, temperature, specific conductance, pH, ORP, DO) at a minimum frequency of 3-5 minute intervals or greater. The pump's flow rate must be able to "turn over" at least one (1) flow-through-cell volume between measurements (for a 250 mL flow-through-cell with a flow rate of 50 mLs/min., the monitoring frequency would be every five minutes; for a 500 mL flow-through-cell it would be every ten minutes). If the cell volume cannot be replaced in the five minute interval, then the time between measurements must be increased accordingly.

Laboratory Analyses/Containers			
Container	Preservative	#	Analysis
See COC			

SAMPLE COLLECTION TIME	START	END
	0825	[illegible]

Comments: Total Purge Volume = 3.6 L
Collected Duplicate Sample.

ENVIRON

8 Hollis Street
Groton, MA 01450

LOW FLOW GROUNDWATER SAMPLING FIELD FORM

Site: Thomaston
Project No.: 08-1421EH
Date: 3/31/15
Weather: Partly cloudy 30°F

Well ID: MW-505
Sample ID: MW-505/20150331
Sampler: John Underwood
Signature: John W Underwood

Well Condition Observations	
Protective Casing:	good
Lock:	good
Label:	good
Surface Seal:	good
PVC Well Casing:	good

Well Volume Calculations	
Well Diameter (in.):	2"
Depth to Water (ft.):	12.28
Total Depth (ft.):	19.73
Well Volume (gal.):	

Pump Start:	750

Time	Throttle SETTING (Feet H_2O)	Time Refill/ Discharge	Cycles per Minute	Discharge Volume/Cycle (mL)	FLOW RATE (mL/min)	DEPTH TO WATER (feet)	pH (SU)	TEMP (°C)	SPECIFIC CONDUCTANCE (uS/cm)	DISSOLVED OXYGEN (mg/L)	ORP (mV)	TURBIDITY (NTU)	TOTAL PURGE VOLUME (liters or gallons)
750		10/5	4	75	300	12.81	Purge Start						0
755		10/5	4	75	300	12.91	6.42	8.55	638	1.49	92.2	0.62	1.5
800		10/5	4	60	240	12.91	6.18	8.59	668	1.00	106.1	0.57	3.0
805		10/5	4	50	200	12.91	6.09	8.73	659	0.79	108.9	0.52	4.2
810		10/5	4	50	200	12.91	6.05	8.77	650	0.66	111.6	0.68	5.4
815		10/5	4	50	200	12.91	6.01	8.70	643	0.49	112.1	0.33	6.6
820		10/5	4	50	200	12.91	6.00	8.64	638	0.46	110.7	0.21	7.8
825		10/5	4	60	240	12.91	5.99	8.65	634	0.42	109.5	0.19	9.2
Stabilization Criteria					100 - 400 mL/min	Drawdown < 0.3'	+/- 0.1 units	3%	3%	10% > 0.5 mg/L or 3 consecutive readings <0.5 mg/L	+/- 10 mV	10% >5 NTU or 3 consecutive readings < 5 NTU	
Stabilization Achieved (Y/N)					Y	Y	Y	Y	Y	Y	Y	Y	

Sampling/Purging Equipment	
Water Level Meter:	~~YSI (W)~~ Solinst
pH/S.C./Dissolved Oxygen/ORP:	YSI 556
Turbidity:	Lamotte
Pump:	Bladder
Intake Depth (feet below PVC):	17'
Tubing:	1/4" PVC

Laboratory Analyses/Containers			
Container	Preservative	#	Analysis
See Chain of Custody			

Note: During well purging, monitor indicator field parameters (turbidity, temperature, specific conductance, pH, ORP, DO) at a minimum frequency of 3-5 minute intervals or greater. The pump's flow rate must be able to "turn over" at least one (1) flow-through-cell volume between measurements (for a 250 mL flow-through-cell with a flow rate of 50 mLs/min., the monitoring frequency would be every five minutes; for a 500 mL flow-through-cell it would be every ten minutes). If the cell volume cannot be replaced in the five minute interval, then the time between measurements must be increased accordingly.

SAMPLE COLLECTION TIME	START	END
	830	840

Comments: Total Purge Volume = 9.2 Liters

ENVIRON

8 Hollis Street
Groton, MA 01450

LOW FLOW GROUNDWATER SAMPLING FIELD FORM

Site: Thomaston Envirite
Project No.: 08-14218H
Date: 3-31-15
Weather: 35°F Partly Cloudy

Well ID: MW-415
Sample ID: MW-415/20150331
Sampler: Luke Chmieleck:
Signature: [illegible]

Well Condition Observations	
Protective Casing:	Good
Lock:	
Label:	
Surface Seal:	
PVC Well Casing:	

Well Volume Calculations	
Well Diameter (in.):	2
Depth to Water (ft.):	11.33
Total Depth (ft.):	22.00
Well Volume (gal.):	1.74

Pump Start: 0930

Time	Throttle SETTING (Feet H_2O)	Time Refill/ Discharge	Cycles per Minute	Discharge Volume/Cycle (mL)	FLOW RATE (mL/min)	DEPTH TO WATER (feet)	pH (SU)	TEMP (°C)	SPECIFIC CONDUCTANCE (uS/cm)	DISSOLVED OXYGEN (mg/L)	ORP (mV)	TURBIDITY (NTU)	TOTAL PURGE VOLUME (liters or gallons)
0935		10/5	4	50	200	11.35	4.73	8.88	195	2.69	240.0	11.4	.5
0940		10/5	4	50	200	11.35	4.75	8.61	193	2.45	245.6	5.79	1.5
0945		10/5	4	50	200	11.35	4.78	8.77	144	2.40	249.4	4.62	2.5
0950		10/5	4	50	200	11.35	4.83	8.74	144	2.44	252.0	4.21	3.5
0955		10/5	4	50	200	11.35	4.82	8.76	144	2.41	253.3	4.02	4.5
1000		10/5	4	50	200	11.35	4.82	8.77	144	2.42	253.9	3.97	5.5
Stabilization Criteria					100 - 400 mL/min	Drawdown < 0.3'	+/- 0.1 units	3%	3%	10% > 0.5 mg/L or 3 consecutive readings <0.5 mg/L	+/- 10 mV	10% >5 NTU or 3 consecutive readings < 5 NTU	
Stabilization Achieved (Y/N)					Y	Y	Y	Y	Y	Y	Y	Y	

Sampling/Purging Equipment	
Water Level Meter:	Solinst
pH/S.C./Dissolved Oxygen/ORP:	YSI
Turbidity:	LaMotte
Pump:	Bladder
Intake Depth (feet below PVC):	15.00
Tubing:	1/4" Poly

Laboratory Analyses/Containers			
Container	Preservative	#	Analysis
See COC			

Note: During well purging, monitor indicator field parameters (turbidity, temperature, specific conductance, pH, ORP, DO) at a minimum frequency of 3-5 minute intervals or greater. The pump's flow rate must be able to "turn over" at least one (1) flow-through-cell volume between measurements (for a 250 mL flow-through-cell with a flow rate of 50 mLs/min, the monitoring frequency would be every five minutes; for a 500 mL flow-through-cell it would be every ten minutes). If the cell volume cannot be replaced in the five minute interval, then the time between measurements must be increased accordingly.

SAMPLE COLLECTION TIME	START	END
	1000	

Comments: Total Purge Volume = 5.5 L

ENVIRON

8 Hollis Street
Groton, MA 01450

LOW FLOW GROUNDWATER SAMPLING FIELD FORM

Site: Thomaston
Project No.: 08-14218H
Date: 3/31/15
Weather: p. cloudy 30°F

Well ID: MW-53D
Sample ID: MW-53D/20150331
Sampler: J. Underwood
Signature: John W Underwood

Well Condition Observations	
Protective Casing:	good
Lock:	
Label:	
Surface Seal:	
PVC Well Casing:	

Well Volume Calculations	
Well Diameter (in.):	2
Depth to Water (ft.):	14.70
Total Depth (ft.):	41.55
Well Volume (gal.):	

Pump Start: 1005

Time	Throttle SETTING (Feet H_2O)	Time Refill/ Discharge	Cycles per Minute	Discharge Volume/Cycle (mL)	FLOW RATE (mL/min)	DEPTH TO WATER (feet)	pH (SU)	TEMP (°C)	SPECIFIC CONDUCTANCE (uS/cm)	DISSOLVED OXYGEN (mg/L)	ORP (mV)	TURBIDITY (NTU)	TOTAL PURGE VOLUME (liters or gallons)
1005													0
1010		10/5	4	60	240	14.70	6.27	11.26	973	~~2.~~ 1.52	110.0	4.78	1.2
1015		10/5	4	60	240	14.70	6.20	11.27	1010	1.22	103.4	4.78	2.4
1020		10/5	4	60	240	14.70	6.17	11.34	1018	1.01	103.5	4.85	3.6
1025		10/5	4	60	240	14.70	6.16	11.42	1019	0.87	98.7	4.71	4.8
1030		10/5	4	60	240	14.70	6.16	11.39	1018	0.68	92.3	4.31	6.0
1035		10/5	4	60	240	14.70	6.16	11.45	1014	0.66	89.3	4.26	7.2
1040		10/5	4	60	240	14.70	6.15	11.53	1005	0.48	84.0	3.21	8.4
1045		10/5	4	60	240	14.70	6.14	11.57	1004	0.46	81.9	3.52	9.6
1050		10/5	4	60	240	14.70	6.14	11.58	999	0.44	80.5	3.11	10.8
								John W Underwood					
Stabilization Criteria					100 - 400 mL/min	Drawdown < 0.3'	+/- 0.1 units	3%	3%	10% > 0.5 mg/L or 3 consecutive readings <0.5 mg/L	+/- 10 mV	10% >5 NTU or 3 consecutive readings < 5 NTU	
Stabilization Achieved (Y/N)					Y	Y	Y	Y	Y	Y	Y	Y	

Sampling/Purging Equipment	
Water Level Meter:	Solinst
pH/S.C./Dissolved Oxygen/ORP:	YSI 556
Turbidity:	Lamotte
Pump:	Bladder
Intake Depth (feet below PVC):	34'
Tubing:	1/4" Poly

Laboratory Analyses/Containers			
Container	Preservative	#	Analysis
See	Chain	of	Custody

Note: During well purging, monitor indicator field parameters (turbidity, temperature, specific conductance, pH, ORP, DO) at a minimum frequency of 3-5 minute intervals or greater. The pump's flow rate must be able to "turn over" at least one (1) flow-through-cell volume between measurements (for a 250 mL flow-through-cell with a flow rate of 50 mL/min., the monitoring frequency would be every five minutes; for a 500 mL flow-through-cell it would be every ten minutes). If the cell volume cannot be replaced in the five minute interval, then the time between measurements must be increased accordingly.

SAMPLE COLLECTION TIME	START	END
	1055	1105

Comments: Total Purge Volume = 10.8 L

ENVIRON

8 Hollis Street
Groton, MA 01450

LOW FLOW GROUNDWATER SAMPLING FIELD FORM

Site: Thomaston Envirite
Project No.: 08-14218H
Date: 3-31-15
Weather: 35° F Partly Cloudy

Well ID: MW-41D
Sample ID: MW-41D/20150331
Sampler: Luke Chmielecki
Signature: [illegible]

Well Condition Observations	
Protective Casing:	Good
Lock:	
Label:	
Surface Seal:	
PVC Well Casing:	

Well Volume Calculations	
Well Diameter (in.):	2
Depth to Water (ft.):	10.85
Total Depth (ft.):	32.00
Well Volume (gal.):	3.45

Pump Start: 1025

Time	Throttle SETTING (Feet H_2O)	Time Refill/ Discharge	Cycles per Minute	Discharge Volume/Cycle (mL)	FLOW RATE (mL/min)	DEPTH TO WATER (feet)	pH (SU)	TEMP (°C)	SPECIFIC CONDUCTANCE (uS/cm)	DISSOLVED OXYGEN (mg/L)	ORP (mV)	TURBIDITY (NTU)	TOTAL PURGE VOLUME (liters or gallons)
1030		10/5	4	60	240	10.88	5.79	10.55	411	0.88	216.6	4.16	1.2
1035		10/5	4	60	240	10.88	5.81	10.93	412	0.64	213.5	4.07	2.4
1040		10/5	4	60	240	10.88	5.80	11.10	415	0.60	211.8	4.01	3.6
1045		10/5	4	60	240	10.88	5.78	11.06	414	0.56	211.1	3.94	4.8
1050		10/5	4	60	240	10.88	5.76	11.03	415	0.49	210.4	3.91	6
1055		10/5	4	60	240	10.88	5.76	10.99	414	0.48	209.9	3.87	7.2
1100		10/5	4	60	240	10.88	5.77	11.01	415	0.47	209.7	3.87	8.4
Stabilization Criteria					100 - 400 mL/min	Drawdown < 0.3'	+/- 0.1 units	3%	3%	10% > 0.5 mg/L or 3 consecutive readings <0.5 mg/L	+/- 10 mV	10% >5 NTU or 3 consecutive readings < 5 NTU	
Stabilization Achieved (Y/N)					Y	Y	Y	Y	Y	Y	Y	Y	

Sampling/Purging Equipment	
Water Level Meter:	Solinst
pH/S.C./Dissolved Oxygen/ORP:	YSI
Turbidity:	LaMotte
Pump:	Bladder
Intake Depth (feet below PVC):	24.5
Tubing:	1/4" Poly

Laboratory Analyses/Containers			
Container	Preservative	#	Analysis
See COC			

Note: During well purging, monitor indicator field parameters (turbidity, temperature, specific conductance, pH, ORP, DO) at a minimum frequency of 3-5 minute intervals or greater. The pump's flow rate must be able to "turn over" at least one (1) flow-through-cell volume between measurements (for a 250 mL flow-through-cell with a flow rate of 50 mLs/min, the monitoring frequency would be every five minutes; for a 500 mL flow-through-cell it would be every ten minutes). If the cell volume cannot be replaced in the five minute interval, then the time between measurements must be increased accordingly.

SAMPLE COLLECTION TIME	START	END
	1100	

Comments: Total Purge Volume = 8.4 L

ENVIRON

8 Hollis Street
Groton, MA 01450

LOW FLOW GROUNDWATER SAMPLING FIELD FORM

Site: Thomaston
Project No.: 08-14218H
Date: 3/31/15
Weather: P. Cloudy 35°F

Well ID: MW-51D
Sample ID: MW-51D/20150331
Sampler: J. Underwood
Signature: John Underwood

Well Condition Observations	
Protective Casing:	good
Lock:	
Label:	
Surface Seal:	
PVC Well Casing:	

Well Volume Calculations	
Well Diameter (in.):	2
Depth to Water (ft.):	15.35
Total Depth (ft.):	28.46
Well Volume (gal.):	

Pump Start: 1135

Time	Throttle SETTING (Feet H_2O)	Time Refill/ Discharge	Cycles per Minute	Discharge Volume/Cycle (mL)	FLOW RATE (mL/min)	DEPTH TO WATER (feet)	pH (SU)	TEMP (°C)	SPECIFIC CONDUCTANCE (uS/cm)	DISSOLVED OXYGEN (mg/L)	ORP (mV)	TURBIDITY (NTU)	TOTAL PURGE VOLUME (liters or gallons)
1135			Purge start										
1140		10/5	4	70	280	15.35	6.01	10.15	1127	1.01	229.1	0.66	1.4
1145		10/5	4	70	280	15.35	6.04	10.15	1132	0.73	223.1	0.61	2.8
1150		10/5	4	70	280	15.35	6.04	10.11	1133	0.57	219.4	0.09	4.2
1155		10/5	4	70	280	15.35	6.04	10.13	1134	0.46	214.0	0.01	5.6
1200		10/5	4	70	280	15.35	6.04	10.14	1134	0.46	210.7	0.00	7.0
1205		10/5	4	70	280	15.36	6.03	10.17	1138	0.39	205.6	0.00	8.4
Stabilization Criteria					100 - 400 mL/min	Drawdown < 0.3'	+/- 0.1 units	3%	3%	10% > 0.5 mg/L or 3 consecutive readings <0.5 mg/L	+/- 10 mV	10% >5 NTU or 3 consecutive readings < 5 NTU	
Stabilization Achieved (Y/N)					Y	Y	Y	Y	Y	Y	Y	Y	

John Underwood

Sampling/Purging Equipment	
Water Level Meter:	Solinst
pH/S.C./Dissolved Oxygen/ORP:	YSI 556
Turbidity:	LaMotte
Pump:	Bladder
Intake Depth (feet below PVC):	23.46
Tubing:	1/4" poly

Note: During well purging, monitor indicator field parameters (turbidity, temperature, specific conductance, pH, ORP, DO) at a minimum frequency of 3-5 minute intervals or greater. The pump's flow rate must be able to "turn over" at least one (1) flow-through-cell volume between measurements (for a 250 mL flow-through-cell with a flow rate of 50 mLs/min., the monitoring frequency would be every five minutes; for a 500 mL flow-through-cell it would be every ten minutes). If the cell volume cannot be replaced in the five minute interval, then the time between measurements must be increased accordingly.

Laboratory Analyses/Containers			
Container	Preservative	#	Analysis
See Chain of Custody			

SAMPLE COLLECTION TIME	START	END
	1210	1220

Comments: Total Purge Volume = 8.4L

ENVIRON

8 Hollis Street
Groton, MA 01450

LOW FLOW GROUNDWATER SAMPLING FIELD FORM

Site: Thomaston Envirite
Project No.: 08-14218H
Date: 3-31-15
Weather: 35°F Partly Cloudy

Well ID: MW-31S
Sample ID: MW-31S/20150331
Sampler: Luke Chmielecki
Signature: [illegible]

Well Condition Observations	
Protective Casing:	Good
Lock:	
Label:	
Surface Seal:	
PVC Well Casing:	

Well Volume Calculations	
Well Diameter (in.):	1.5
Depth to Water (ft.):	15.00
Total Depth (ft.):	26.90
Well Volume (gal.):	1.94

Pump Start: 1205

Time	Throttle SETTING (Feet H_2O)	Time Refill/ Discharge	Cycles per Minute	Discharge Volume/Cycle (mL)	FLOW RATE (mL/min)	DEPTH TO WATER (feet)	pH (SU)	TEMP (°C)	SPECIFIC CONDUCTANCE (uS/cm)	DISSOLVED OXYGEN (mg/L)	ORP (mV)	TURBIDITY (NTU)	TOTAL PURGE VOLUME (liters or gallons)
1210		5/5	6	10	60	16.90	5.83	12.07	746	0.47	-96.9	6.09	.35
1215		5/5	6	10	60	16.95	5.91	12.10	782	0.31	-101.1	5.69	.7
1220		5/5	6	10	60	17.00	5.99	11.94	848	0.25	-94.2	5.17	1.05
1225		5/5	6	10	60	17.00	6.04	12.61	949	0.21	-74.1	4.92	1.4
1230		5/5	6	10	60	17.00	6.06	12.57	965	0.20	-71.4	4.89	1.75
1235		5/5	6	10	60	17.00	6.05	12.55	960	0.19	-69.9	4.87	2.1
Stabilization Criteria					100 - 400 mL/min	Drawdown < 0.3'	+/- 0.1 units	3%	3%	10% > 0.5 mg/L or 3 consecutive readings <0.5 mg/L	+/- 10 mV	10% >5 NTU or 3 consecutive readings < 5 NTU	
Stabilization Achieved (Y/N)					*y	y	y	y	y	y	y	y	

Sampling/Purging Equipment	
Water Level Meter:	Solinst
pH/S.C./Dissolved Oxygen/ORP:	YSI
Turbidity:	LaMotte
Pump:	micro bladder
Intake Depth (feet below PVC):	21.90
Tubing:	1/4" Poly

Note: During well purging, monitor indicator field parameters (turbidity, temperature, specific conductance, pH, ORP, DO) at a minimum frequency of 3-5 minute intervals or greater. The pump's flow rate must be able to "turn over" at least one (1) flow-through-cell volume between measurements (for a 250 mL flow-through-cell with a flow rate of 50 mL/min., the monitoring frequency would be every five minutes; for a 500 mL flow-through-cell it would be every ten minutes). If the cell volume cannot be replaced in the five minute interval, then the time between measurements must be increased accordingly.

Laboratory Analyses/Containers			
Container	Preservative	#	Analysis
See COC			

SAMPLE COLLECTION TIME	START	END
	1235	

Comments: Total Purge Volume = 2.1 L

* low flow rate due to microbladder pump.

ENVIRON

8 Hollis Street
Groton, MA 01450

LOW FLOW GROUNDWATER SAMPLING FIELD FORM

Site: Thomaston
Project No.: 08-14218+1
Date: 3/31/15
Weather: Cloudy 35°F

Well ID: MW-30
Sample ID: MW-30/20150331
Sampler: J. Underwood
Signature: John Underwood

Well Condition Observations	
Protective Casing:	good
Lock:	✓
Label:	✓
Surface Seal:	✓
PVC Well Casing:	✓

Well Volume Calculations	
Well Diameter (in.):	1.5
Depth to Water (ft.):	16.30
Total Depth (ft.):	21.80
Well Volume (gal.):	

Pump Start: 1255

Time	Throttle SETTING (Feet H_2O)	Time Refill/ Discharge	Cycles per Minute	Discharge Volume/Cycle (mL)	FLOW RATE (mL/min)	DEPTH TO WATER (feet)	pH (SU)	TEMP (°C)	SPECIFIC CONDUCTANCE (uS/cm)	DISSOLVED OXYGEN (mg/L)	ORP (mV)	TURBIDITY (NTU)	TOTAL PURGE VOLUME (liters or gallons)
1255		Start											
1305		5/5	6	25	150	16.30	6.51	11.71	33	7.16	180.2	1.28	0.75
1310		5/5	6	25	150	16.30	5.20	12.07	21	5.30	223.8	1.11	1.50
1315		5/5	6	25	150	16.30	5.16	12.09	21	4.40	227.4	0.06	2.25
1320		5/5	6	25	150	16.30	5.12	12.04	21	4.08	230.1	0.01	3.0
1325		5/5	6	25	150	16.30	5.08	11.95	21	3.98	232.2	0.01	3.75
Stabilization Criteria					100 - 400 mL/min	Drawdown < 0.3'	+/- 0.1 units	3%	3%	10% > 0.5 mg/L or 3 consecutive readings <0.5 mg/L	+/- 10 mV	10% >5 NTU or 3 consecutive readings < 5 NTU	
Stabilization Achieved (Y/N)					Y	Y	Y	Y	Y	Y	Y	Y	

John Underwood

Sampling/Purging Equipment	
Water Level Meter:	Solinst
pH/S.C./Dissolved Oxygen/ORP:	YSI 556
Turbidity:	LaMotte
Pump:	Micro Bladder
Intake Depth (feet below PVC):	18
Tubing:	1/4" Poly

Laboratory Analyses/Containers			
Container	Preservative	#	Analysis
See Chain of Custody			

Note: During well purging, monitor indicator field parameters (turbidity, temperature, specific conductance, pH, ORP, DO) at a minimum frequency of 3-5 minute intervals or greater. The pump's flow rate must be able to "turn over" at least one (1) flow-through-cell volume between measurements (for a 250 mL flow-through-cell with a flow rate of 50 mLs/min., the monitoring frequency would be every five minutes; for a 500 mL flow-through-cell it would be every ten minutes). If the cell volume cannot be replaced in the five minute interval, then the time between measurements must be increased accordingly.

SAMPLE COLLECTION TIME	START	END
	1330	1350

Comments: Total Purge Volume = 3.75 L

ENVIRON

8 Hollis Street
Groton, MA 01450

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

CHAIN OF CUSTODY RECORD

Page 1 of 1

Special Handling:
- [x] Standard TAT - 7 to 10 business days (5 Day)
- [ ] Rush TAT - Date Needed: _____

All TATs subject to laboratory approval
Min. 24-hr notification needed for rushes
Samples disposed after 60 days unless otherwise instructed.

Report To: ENVIRON
3 Carlisle Rd. Suite 210
Westford, MA

Telephone #: 603-703-5534
Project Mgr: John Noble

Invoice To: Kris Sibinga
Envirite Corporation
PO BOX 591
Chappaqua NY 10514

P.O No.: _____ Quote/RQN: _____

Project No: 08-14218 H
Site Name: Envirite RCRA Landfill
Location: Thomaston State: CT
Sampler(s): Luke C
John U

F=Field Filtered 1=$Na_2S_2O_3$ 2=HCl 3=H_2SO_4 4=HNO_3 5=NaOH 6=Ascorbic Acid
7=CH3OH 8=$NaHSO_4$ 9=Deionized Water 10=H_3PO_4 11= _____ 12= _____

DW=Dinking Water GW=Groundwater SW=Surface Water WW=Waste Water
O=Oil SO=Soil SL=Sludge A=Indoor/Ambient Air SG=Soil Gas
X1= Trip Blank X2= Equipment Blank X3= _____

G= Grab C=Compsite

List Preservative Code below: 2 | 4 | 4 | 5

QA/QC Reporting Notes:
* additional charges may appply

MA DEP MCP CAM Report? [ ] Yes [ ] No
CT DPH RCP Report? [x] Yes [ ] No
[ ] Standard [ ] No QC
[x] DQA*
[ ] ASP A* [ ] ASP B*
[ ] NJ Reduced* [ ] NJ Full*
[ ] Tier II* [ ] Tier IV*
[x] Other: CT RCP CT RSRs
State-specific reporting standards:

Lab ID:	Sample ID:	Date:	Time:	Type	Matrix	# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic		VOCs 8260	As, Ba, Cd, Cr, Cu, Ni, Zn	Dissolved As, Cd, Cu, Zn (6020)*	Cyanide					Check if chlorinated
	TB-20150330	3-30-15	0900	G	X1	1					X								☐
	EB-20150330		1200		X2	3			1		X		X						☐
	DUP-20150330		NA		SW	3			1		X		X						☐
	SW-NR-1/20150330		0915		SW	3			1		X		X						☐
	SW-NR-2/20150330		0935		SW	3			1		X		X						☐
	SW-BB-1/20150330		1030		SW	3			1		X		X						☐
	SW-BB-2/20150330		1100		SW	3			1		X		X						☐
	MW-43D/20150330		1350		GW	3			2		X	X		X					☐
	MW-43S/20150330		1425		GW	3			2		X	X		X					☐
	MW-44D/20150330	3-30-15	1530	G	GW	3			2		X	X		X					☐

Relinquished by:	Received by:	Date:	Time:	Temp °C
[signature]	[signature]	3/31/15	1455	Observed
				Correction Factor
				Corrected
				IR ID #

[ ] EDD format: ENVIRON Equis 4-File
[ ] E-mail to: jnoble@environcorp.com

* Freshwater Aquatic Life Criteria

Condition upon receipt: [ ] Ambient [ ] Iced [ ] Refrigerated [ ] DI VOA Frozen [ ] Soil Jar Frozen
Custody Seals: [ ] Present [ ] Intact [ ] Broken

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

CHAIN OF CUSTODY RECORD

Page 2 of 3

Special Handling:
- [x] Standard TAT - 7 to 10 business days (5 Day)
- [ ] Rush TAT - Date Needed: _____

All TATs subject to laboratory approval
Min. 24-hr notification needed for rushes
Samples disposed after 60 days unless otherwise instructed.

Report To: ENVIRON
3 Carlisle Rd Suite 210
Westford, MA

Telephone #: 603-703-5534
Project Mgr: John Noble

Invoice To: Kris Sibinga
Envirite Corporation
PO Box 591
Chappaqua NY 10514

P.O No.: _____ Quote/RQN: _____

Project No: 08-14218 H
Site Name: Envirite RCRA Landfill
Location: Thomaston State: CT
Sampler(s): Luke C
John U

F=Field Filtered 1=Na_2S2O_3 2=HCl 3=H_2SO_4 4=HNO_3 5=NaOH 6=Ascorbic Acid
7=CH3OH 8=$NaHSO_4$ 9=Deionized Water 10=H_3PO_4 11= _____ 12= _____

DW=Dinking Water GW=Groundwater SW=Surface Water WW=Waste Water
O=Oil SO=Soil SL=Sludge A=Indoor/Ambient Air SG=Soil Gas
X1= Trip Blank X2= Equipment Blank X3= _____

G= Grab C=Compsite

List Preservative Code below: 2 | 4 | 5

QA/QC Reporting Notes:
* additional charges may appply

MA DEP MCP CAM Report? [ ] Yes [ ] No
CT DPH RCP Report? [x] Yes [ ] No
[ ] Standard [ ] No QC
[x] DQA*
[ ] ASP A* [ ] ASP B*
[ ] NJ Reduced* [ ] NJ Full*
[ ] Tier II* [ ] Tier IV*
[x] Other: CT RCP CT RSRs
State-specific reporting standards:

Lab ID:	Sample ID:	Date:	Time:	Type	Matrix	# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic		VOCs 8260	As, Ba, Cd, Cr, Cu, Ni, Zn	Cyanide						Check if chlorinated
	MW-42S/20150331	3-31-15	~~1530~~ 0825	G	GW	3			2		X	X	X						[ ]
	TB-20150331		0900		X1	1					X								[ ]
	EB-20150331		1200		X2	3			2		X	X	X						[ ]
	DUP-20150331		NA		GW	3			2		X	X	X						[ ]
	MW-41S/20150331		1000		GW	3			2		X	X	X						[ ]
	MW-41D/20150331		1100		GW	3			2		X	X	X						[ ]
	MW-31S/20150331		1235		GW	3			2		X	X	X						[ ]
	MW-50S/20150331		0830		GW	3			2		X	X	X						[ ]
	MW-53D/20150331		1055		GW	3			2		X	X	X						[ ]
	MW-51D/20150331	3-31-15	1210	G	GW	3			2		X	X	X						[ ]

Relinquished by:	Received by:	Date:	Time:	Temp °C
[signature]	[signature]	3-31-15	1455	Observed
				Correction Factor
				Corrected
				IR ID #

[ ] EDD format: ENVIRON Equis 4-File
[ ] E-mail to: jnoble@environcorp.com

Condition upon receipt: Custody Seals: [ ] Present [ ] Intact [ ] Broken
[ ] Ambient [x] Iced [ ] Refrigerated [ ] DI VOA Frozen [ ] Soil Jar Frozen

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

CHAIN OF CUSTODY RECORD

Page 3 of 3

Special Handling:
- [x] Standard TAT - 7 to 10 business days (5 Day)
- [ ] Rush TAT - Date Needed: _____

All TATs subject to laboratory approval
Min. 24-hr notification needed for rushes
Samples disposed after 60 days unless otherwise instructed.

Report To: ENVIRON
3 Carlisle Rd Suite 210
Westford MA

Telephone #: 603-703-5534
Project Mgr: John Noble

Invoice To: Kris Sibinga
Envirite Corporation
PO Box 591
Chappaqua NY 10514

P.O No.: _____ Quote/RQN: _____

Project No: 08-14218H
Site Name: Envirite RCRA Landfill
Location: Thomaston State: CT
Sampler(s): Luke C
John U

F=Field Filtered 1=$Na_2S_2O_3$ 2=HCl 3=H_2SO_4 4=HNO_3 5=NaOH 6=Ascorbic Acid
7=CH3OH 8=$NaHSO_4$ 9=Deionized Water 10=H_3PO_4 11= _____ 12= _____

DW=Dinking Water GW=Groundwater SW=Surface Water WW=Waste Water
O=Oil SO=Soil SL=Sludge A=Indoor/Ambient Air SG=Soil Gas
X1= _____ X2= _____ X3= _____

G= Grab C=Compsite

List Preservative Code below: 2 | 4 | 5

QA/QC Reporting Notes:
* additional charges may appply

MA DEP MCP CAM Report? [ ] Yes [ ] No
CT DPH RCP Report? [x] Yes [ ] No
[ ] Standard [ ] No QC
[x] DQA*
[ ] ASP A* [ ] ASP B*
[ ] NJ Reduced* [ ] NJ Full*
[ ] Tier II* [ ] Tier IV*
[x] Other: CT RCP CT RSRs
State-specific reporting standards:

Lab ID:	Sample ID:	Date:	Time:	Type	Matrix	# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic		VOCs 8260	As, Ba, Cd, Cr, Cu, Ni, Zn	Cyanide						Check if chlorinated
	MW-30/20150331	3-31-15	1330	G	GW	3			2		X	X	X						[ ]
																			[ ]
																			[ ]
					LC														[ ]
																			[ ]
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																			[ ]

Relinquished by:	Received by:	Date:	Time:	Temp °C
[signature]	[signature]	3-31-15	1535	Observed
				Correction Factor
				Corrected
				IR ID #

[ ] EDD format: ENVIRON Equis 4-File
[ ] E-mail to: jnoble@environcorp.com

Condition upon receipt: [ ] Ambient [x] Iced [ ] Refrigerated
Custody Seals: [ ] Present [ ] Intact [ ] Broken
[ ] DI VOA Frozen [ ] Soil Jar Frozen

APPENDIX B
SPECTRUM ANALYTICAL, INC. LABORATORY REPORTS (SC05125)

Report Date:
07-Apr-15 15:55

☑ Final Report
☐ Re-Issued Report
☐ Revised Report

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

Laboratory Report

ENVIRON International Corporation
3 Carlisle Rd
Westford, MA 01886
Attn: John Noble

Project: Envirite RCRA Landfill - Thomaston, CT
Project #: 08-14218H

Laboratory ID	Client Sample ID	Matrix	Date Sampled	Date Received
SC05125-01	TB-20150330	Trip Blank	30-Mar-15 09:00	31-Mar-15 17:05
SC05125-02	EB-20150330	Equipment Blank	30-Mar-15 12:00	31-Mar-15 17:05
SC05125-03	DUP-20150330	Surface Water	30-Mar-15 00:00	31-Mar-15 17:05
SC05125-04	SW-NR-1/20150330	Surface Water	30-Mar-15 09:15	31-Mar-15 17:05
SC05125-05	SW-NR-2/20150330	Surface Water	30-Mar-15 09:35	31-Mar-15 17:05
SC05125-06	SW-BB-1/20150330	Surface Water	30-Mar-15 10:30	31-Mar-15 17:05
SC05125-07	SW-BB-2/20150330	Surface Water	30-Mar-15 11:00	31-Mar-15 17:05
SC05125-08	MW-43D/20150330	Ground Water	30-Mar-15 13:50	31-Mar-15 17:05
SC05125-09	MW-43S/20150330	Ground Water	30-Mar-15 14:25	31-Mar-15 17:05
SC05125-10	MW-44D/20150330	Ground Water	30-Mar-15 15:30	31-Mar-15 17:05
SC05125-11	MW-42S/20150331	Ground Water	31-Mar-15 08:25	31-Mar-15 17:05
SC05125-12	TB-20150331	Trip Blank	31-Mar-15 09:00	31-Mar-15 17:05
SC05125-13	EB-20150331	Equipment Blank	31-Mar-15 12:00	31-Mar-15 17:05
SC05125-14	DUP-20150331	Ground Water	31-Mar-15 00:00	31-Mar-15 17:05
SC05125-15	MW-41S/20150331	Ground Water	31-Mar-15 10:00	31-Mar-15 17:05
SC05125-16	MW-41D/20150331	Ground Water	31-Mar-15 11:00	31-Mar-15 17:05
SC05125-17	MW-31S/20150331	Ground Water	31-Mar-15 12:35	31-Mar-15 17:05
SC05125-18	MW-50S/20150331	Ground Water	31-Mar-15 08:30	31-Mar-15 17:05
SC05125-19	MW-53D/20150331	Ground Water	31-Mar-15 10:55	31-Mar-15 17:05
SC05125-20	MW-51D/20150331	Ground Water	31-Mar-15 12:10	31-Mar-15 17:05
SC05125-21	MW-30/20150331	Ground Water	31-Mar-15 13:30	31-Mar-15 17:05

I attest that the information contained within the report has been reviewed for accuracy and checked against the quality control requirements for each method. These results relate only to the sample(s) as received.
All applicable NELAC requirements have been met.

Massachusetts # M-MA138/MA1110
Connecticut # PH-0777
Florida # E87600/E87936
Maine # MA138
New Hampshire # 2538
New Jersey # MA011/MA012
New York # 11393
Pennsylvania # 68-04426/68-02924
Rhode Island # 98
USDA # S-51435

Authorized by:

Nicole Leja
Laboratory Director

Spectrum Analytical holds certification in the State of New York for the analytes as indicated with an X in the "Cert." column within this report. Please note that the State of New York does not offer certification for all analytes. Please refer to our website for specific certification holdings in each state.
Please note that this report contains 100 pages of analytical data plus Chain of Custody document(s). When the Laboratory Report is indicated as revised, this report supersedes any previously dated reports for the laboratory ID(s) referenced above. Where this report identifies subcontracted analyses, copies of the subcontractor's test report are available upon request. This report may not be reproduced, except in full, without written approval from Spectrum Analytical, Inc.

Spectrum Analytical, Inc. is a NELAC accredited laboratory organization and meets NELAC testing standards. Use of the NELAC logo however does not insure that Spectrum is currently accredited for the specific method or analyte indicated. Please refer to our "Quality" web page at www.spectrum-analytical.com for a full listing of our current certifications and fields of accreditation. States in which Spectrum Analytical, Inc. holds NELAC certification are New York, New Hampshire, New Jersey, Pennsylvania and Florida. All analytical work for Volatile Organic and Air analysis are transferred to and conducted at our 830 Silver Street location (NJ-MA012, PA-68-04426 and FL-E87936).

Please contact the Laboratory or Technical Director at 800-789-9115 with any questions regarding the data contained in this laboratory report.

CASE NARRATIVE:

Data has been reported to the MDL. This report includes estimated concentrations detected below the RDL and above the MDL (J-Flag).

All non-detects and all results below the detection limit are reported as "<" (less than) the detection limit in this report.

The samples were received -0.1 degrees Celsius, please refer to the Chain of Custody for details specific to temperature upon receipt. An infrared thermometer with a tolerance of +/- 1.0 degrees Celsius was used immediately upon receipt of the samples.

If a Matrix Spike (MS), Matrix Spike Duplicate (MSD) or Duplicate (DUP) was not requested on the Chain of Custody, method criteria may have been fulfilled with a source sample not of this Sample Delivery Group.

See below for any non-conformances and issues relating to quality control samples and/or sample analysis/matrix.

SW846 6020A

Laboratory Control Samples:

1505917 BS/BSD

Cadmium percent recoveries (84/90) are outside individual acceptance criteria (85-115), but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

DUP-20150330
EB-20150330
SW-BB-1/20150330
SW-BB-2/20150330
SW-NR-1/20150330
SW-NR-2/20150330

Duplicates:

1505917-DUP1 *Source: SC05125-07*

MRL raised to correlate to batch QC reporting limits.

Arsenic
Copper

Samples:

SC05125-02 *EB-20150330*

MRL raised to correlate to batch QC reporting limits.

Arsenic
Copper

SC05125-03 *DUP-20150330*

MRL raised to correlate to batch QC reporting limits.

Arsenic
Copper

SC05125-04 *SW-NR-1/20150330*

MRL raised to correlate to batch QC reporting limits.

Arsenic
Copper

SC05125-05 *SW-NR-2/20150330*

SW846 6020A

Samples:

SC05125-05 *SW-NR-2/20150330*

MRL raised to correlate to batch QC reporting limits.

Arsenic
Copper

SC05125-06 *SW-BB-1/20150330*

MRL raised to correlate to batch QC reporting limits.

Arsenic
Copper

SC05125-07 *SW-BB-2/20150330*

MRL raised to correlate to batch QC reporting limits.

Arsenic
Copper

SW846 8260C

Calibration:

1503088

Analyte quantified by quadratic equation type calibration.

1,1,2,2-Tetrachloroethane
1,2,4-Trichlorobenzene
1,2-Dibromo-3-chloropropane
Bromoform
Carbon tetrachloride
Naphthalene
trans-1,3-Dichloropropene

SW846 8260C

Calibration:

1503088

This affected the following samples:

1506064-BLK1
1506064-BS1
1506064-BSD1
1506192-BLK1
1506192-BS1
1506192-BSD1
1506192-MS1
1506192-MSD1
1506298-BLK1
1506298-BS1
1506298-BSD1
DUP-20150330
DUP-20150331
EB-20150330
EB-20150331
MW-30/20150331
MW-31S/20150331
MW-41D/20150331
MW-41S/20150331
MW-42S/20150331
MW-43D/20150330
MW-43S/20150330
MW-44D/20150330
MW-50S/20150331
MW-51D/20150331
MW-53D/20150331
S502589-ICV1
S502800-CCV1
S502875-CCV1
S502944-CCV1
SW-BB-1/20150330
SW-BB-2/20150330
SW-NR-1/20150330
SW-NR-2/20150330
TB-20150331

1504001

SW846 8260C

Calibration:

1504001

Analyte quantified by quadratic equation type calibration.

1,2,3-Trichlorobenzene
1,2,4-Trichlorobenzene
1,2,4-Trimethylbenzene
1,2-Dibromo-3-chloropropane
1,3,5-Trimethylbenzene
1,4-Dioxane
2,2-Dichloropropane
2-Butanone (MEK)
2-Hexanone (MBK)
4-Isopropyltoluene
4-Methyl-2-pentanone (MIBK)
Bromoform
Chloromethane
cis-1,3-Dichloropropene
Hexachlorobutadiene
m,p-Xylene
Naphthalene
n-Butylbenzene
n-Propylbenzene
o-Xylene
sec-Butylbenzene
Styrene
Tert-Butanol / butyl alcohol
tert-Butylbenzene
Tetrahydrofuran
trans-1,2-Dichloroethene
trans-1,3-Dichloropropene
trans-1,4-Dichloro-2-butene

This affected the following samples:

1505963-BLK1
1505963-BS1
1505963-BSD1
S502690-ICV1
S502749-CCV1
TB-20150330

S502589-ICV1

Analyte percent recovery is outside individual acceptance criteria (80-120).

Dichlorodifluoromethane (Freon12) (77%)

SW846 8260C

Calibration:

S502589-ICV1

This affected the following samples:

1506064-BLK1
1506064-BS1
1506064-BSD1
1506192-BLK1
1506192-BS1
1506192-BSD1
1506192-MS1
1506192-MSD1
1506298-BLK1
1506298-BS1
1506298-BSD1
DUP-20150330
DUP-20150331
EB-20150330
EB-20150331
MW-30/20150331
MW-31S/20150331
MW-41D/20150331
MW-41S/20150331
MW-42S/20150331
MW-43D/20150330
MW-43S/20150330
MW-44D/20150330
MW-50S/20150331
MW-51D/20150331
MW-53D/20150331
S502800-CCV1
S502875-CCV1
S502944-CCV1
SW-BB-1/20150330
SW-BB-2/20150330
SW-NR-1/20150330
SW-NR-2/20150330
TB-20150331

S502690-ICV1

Analyte percent recovery is outside individual acceptance criteria (80-120).

Acetone (124%)
Dichlorodifluoromethane (Freon12) (78%)
Vinyl chloride (73%)

This affected the following samples:

1505963-BLK1
1505963-BS1
1505963-BSD1
S502749-CCV1
TB-20150330

Laboratory Control Samples:

1505963 BS/BSD

SW846 8260C

Laboratory Control Samples:

1505963 BS/BSD

Ethyl tert-butyl ether percent recoveries (69/75) are outside individual acceptance criteria (70-130), but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

TB-20150330

Methyl tert-butyl ether percent recoveries (65/70) are outside individual acceptance criteria (70-130), but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

TB-20150330

Tert-Butanol / butyl alcohol percent recoveries (65/69) are outside individual acceptance criteria (70-130), but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

TB-20150330

1506064 BS/BSD

Ethanol percent recoveries (106/133) are outside individual acceptance criteria (70-130), but within overall method allowances. All reported results of the following samples are considered to have a potentially high bias:

DUP-20150330
EB-20150330
MW-43D/20150330
SW-BB-1/20150330
SW-BB-2/20150330
SW-NR-1/20150330
SW-NR-2/20150330

1506064 BSD

Ethanol RPD 22% (20%) is outside individual acceptance criteria.

1506064-BS1

LCS/LCSD were analyzed in place of MS/MSD.

1506064-BSD1

LCS/LCSD were analyzed in place of MS/MSD.

1506192 BS/BSD

Bromomethane percent recoveries (126/136) are outside individual acceptance criteria (70-130), but within overall method allowances. All reported results of the following samples are considered to have a potentially high bias:

EB-20150331
MW-31S/20150331
MW-41D/20150331
MW-41S/20150331
MW-42S/20150331
MW-43S/20150330
MW-44D/20150330
MW-50S/20150331
TB-20150331

SW846 8260C

Laboratory Control Samples:

1506192 BS/BSD

Carbon disulfide percent recoveries (143/158) are outside individual acceptance criteria (70-130), but within overall method allowances. All reported results of the following samples are considered to have a potentially high bias:

EB-20150331
MW-31S/20150331
MW-41D/20150331
MW-41S/20150331
MW-42S/20150331
MW-43S/20150330
MW-44D/20150330
MW-50S/20150331
TB-20150331

1506298 BS/BSD

Bromomethane percent recoveries (145/137) are outside individual acceptance criteria (70-130), but within overall method allowances. All reported results of the following samples are considered to have a potentially high bias:

DUP-20150331
MW-30/20150331
MW-51D/20150331
MW-53D/20150331

Spikes:

1506192-MS1 *Source: SC05125-21*

The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

Bromomethane

1506192-MSD1 *Source: SC05125-21*

RPD out of acceptance range.

Carbon disulfide

The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

Bromomethane

Samples:

S502749-CCV1

Analyte percent difference is outside individual acceptance criteria (20), but within overall method allowances.

Ethyl tert-butyl ether (-25.6%)
Methyl tert-butyl ether (-30.9%)

Analyte percent drift is outside individual acceptance criteria (20), but within overall method allowances.

Tert-Butanol / butyl alcohol (-31.3%)
trans-1,2-Dichloroethene (31.0%)

This affected the following samples:

1505963-BLK1
1505963-BS1
1505963-BSD1
TB-20150330

SW846 8260C

Samples:

S502800-CCV1

Analyte percent difference is outside individual acceptance criteria (20), but within overall method allowances.

Bromomethane (24.1%)

This affected the following samples:

1506064-BLK1
1506064-BS1
1506064-BSD1
DUP-20150330
EB-20150330
MW-43D/20150330
SW-BB-1/20150330
SW-BB-2/20150330
SW-NR-1/20150330
SW-NR-2/20150330

S502875-CCV1

Analyte percent difference is outside individual acceptance criteria (20), but within overall method allowances.

Bromomethane (31.4%)
Carbon disulfide (32.6%)

Analyte percent drift is outside individual acceptance criteria (20), but within overall method allowances.

1,2,4-Trichlorobenzene (-21.1%)
Naphthalene (-29.0%)

This affected the following samples:

1506192-BLK1
1506192-BS1
1506192-BSD1
1506192-MS1
1506192-MSD1
EB-20150331
MW-31S/20150331
MW-41D/20150331
MW-41S/20150331
MW-42S/20150331
MW-43S/20150330
MW-44D/20150330
MW-50S/20150331
TB-20150331

S502944-CCV1

Analyte percent difference is outside individual acceptance criteria (20), but within overall method allowances.

1,1,1-Trichloroethane (22.6%)
1,1-Dichloroethene (21.5%)
2,2-Dichloropropane (21.7%)
Bromomethane (38.9%)
Carbon disulfide (20.6%)
Chloroethane (26.9%)
Vinyl chloride (27.1%)

Analyte percent drift is outside individual acceptance criteria (20), but within overall method allowances.

Naphthalene (-27.4%)
Trichlorofluoromethane (Freon 11) (25.3%)

SW846 8260C

Samples:

S502944-CCV1

This affected the following samples:

1506298-BLK1
1506298-BS1
1506298-BSD1
DUP-20150331
MW-30/20150331
MW-51D/20150331
MW-53D/20150331

SC05125-17 *MW-31S/20150331*

Sample dilution required for high concentration of target analytes to be within the instrument calibration range.

SC05125-18 *MW-50S/20150331*

Sample dilution required for high concentration of target analytes to be within the instrument calibration range.

SC05125-19 *MW-53D/20150331*

Sample dilution required for high concentration of target analytes to be within the instrument calibration range.

Sample Acceptance Check Form

Client:	ENVIRON International Corporation - Westford, MA
Project:	Envirite RCRA Landfill - Thomaston, CT / 08-14218H
Work Order:	SC05125
Sample(s) received on:	3/31/2015

The following outlines the condition of samples for the attached Chain of Custody upon receipt.

	Yes	No	N/A
Were custody seals present?	☐	☑	☐
Were custody seals intact?	☐	☐	☑
Were samples received at a temperature of ≤ 6°C?	☑	☐	☐
Were samples cooled on ice upon transfer to laboratory representative?	☑	☐	☐
Were sample containers received intact?	☑	☐	☐
Were samples properly labeled (labels affixed to sample containers and include sample ID, site location, and/or project number and the collection date)?	☑	☐	☐
Were samples accompanied by a Chain of Custody document?	☑	☐	☐
Does Chain of Custody document include proper, full, and complete documentation, which shall include sample ID, site location, and/or project number, date and time of collection, collector's name, preservation type, sample matrix and any special remarks concerning the sample?	☑	☐	☐
Did sample container labels agree with Chain of Custody document?	☑	☐	☐
Were samples received within method-specific holding times?	☑	☐	☐

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
TB-20150330	08-14218H	Trip Blank	30-Mar-15 09:00	31-Mar-15
SC05125-01				

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Volatile Organic Compounds													
Volatile Organic Compounds by SW846 8260 Prepared by method SW846 5030 Water MS													
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 1.0		µg/l	1.0	0.5	1	SW846 8260C	02-Apr-15	03-Apr-15	NAA	1505963	X
67-64-1	Acetone	< 10.0		µg/l	10.0	2.5	1	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 0.5		µg/l	0.5	0.5	1	"	"	"	"	"	X
71-43-2	Benzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
108-86-1	Bromobenzene	< 1.0		µg/l	1.0	0.1	1	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 0.5		µg/l	0.5	0.2	1	"	"	"	"	"	X
75-25-2	Bromoform	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
74-83-9	Bromomethane	< 2.0		µg/l	2.0	0.5	1	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 10.0		µg/l	10.0	1.2	1	"	"	"	"	"	X
104-51-8	n-Butylbenzene	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 2.0		µg/l	2.0	0.3	1	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
75-00-3	Chloroethane	< 2.0		µg/l	2.0	0.4	1	"	"	"	"	"	X
67-66-3	Chloroform	< 1.0		µg/l	1.0	0.4	1	"	"	"	"	"	X
74-87-3	Chloromethane	< 2.0		µg/l	2.0	0.3	1	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 2.0		µg/l	2.0	0.9	1	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 0.5		µg/l	0.5	0.2	1	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 0.5		µg/l	0.5	0.3	1	"	"	"	"	"	X
74-95-3	Dibromomethane	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 2.0		µg/l	2.0	0.6	1	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 1.0		µg/l	1.0	0.1	1	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 1.0		µg/l	1.0	0.7	1	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 0.5		µg/l	0.5	0.2	1	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 0.5		µg/l	0.5	0.3	1	"	"	"	"	"	X
100-41-4	Ethylbenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 0.5		µg/l	0.5	0.4	1	"	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	< 10.0		µg/l	10.0	0.5	1	"	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
TB-20150330	08-14218H	Trip Blank	30-Mar-15 09:00	31-Mar-15
SC05125-01				

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Volatile Organic Compounds													
Volatile Organic Compounds by SW846 8260 Prepared by method SW846 5030 Water MS													
98-82-8	Isopropylbenzene	< 1.0		µg/l	1.0	0.2	1	SW846 8260C	02-Apr-15	03-Apr-15	NAA	1505963	X
99-87-6	4-Isopropyltoluene	< 1.0		µg/l	1.0	0.4	1	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 10.0		µg/l	10.0	0.7	1	"	"	"	"	"	X
75-09-2	Methylene chloride	< 2.0		µg/l	2.0	0.3	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 1.0		µg/l	1.0	0.4	1	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
100-42-5	Styrene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 0.5		µg/l	0.5	0.3	1	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 1.0		µg/l	1.0	0.6	1	"	"	"	"	"	X
108-88-3	Toluene	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 1.0		µg/l	1.0	0.4	1	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	
71-55-6	1,1,1-Trichloroethane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
79-01-6	Trichloroethene	< 1.0		µg/l	1.0	0.4	1	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 1.0		µg/l	1.0	0.5	1	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 1.0		µg/l	1.0	0.4	1	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 1.0		µg/l	1.0	0.9	1	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 2.0		µg/l	2.0	0.4	1	"	"	"	"	"	X
95-47-6	o-Xylene	< 1.0		µg/l	1.0	0.5	1	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 2.0		µg/l	2.0	0.7	1	"	"	"	"	"	
60-29-7	Ethyl ether	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	< 1.0		µg/l	1.0	0.1	1	"	"	"	"	"	X
108-20-3	Di-isopropyl ether	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	< 10.0		µg/l	10.0	7.5	1	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 20.0		µg/l	20.0	12.4	1	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-buten e	< 5.0		µg/l	5.0	1.1	1	"	"	"	"	"	X
64-17-5	Ethanol	< 400		µg/l	400	22.7	1	"	"	"	"	"	X
Surrogate recoveries:													
460-00-4	*4-Bromofluorobenzene*	*87*			*70-130 %*			"	"	"	"	"	
2037-26-5	*Toluene-d8*	*99*			*70-130 %*			"	"	"	"	"	
17060-07-0	*1,2-Dichloroethane-d4*	*103*			*70-130 %*			"	"	"	"	"	
1868-53-7	*Dibromofluoromethane*	*101*			*70-130 %*			"	"	"	"	"	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
EB-20150330	08-14218H	Equipment Blank	30-Mar-15 12:00	31-Mar-15
SC05125-02				

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Volatile Organic Compounds													
Volatile Organic Compounds by SW846 8260 Prepared by method SW846 5030 Water MS													
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 1.0		µg/l	1.0	0.5	1	SW846 8260C	03-Apr-15	03-Apr-15	GMA	1506064	X
67-64-1	Acetone	< 10.0		µg/l	10.0	2.5	1	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 0.5		µg/l	0.5	0.5	1	"	"	"	"	"	X
71-43-2	Benzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
108-86-1	Bromobenzene	< 1.0		µg/l	1.0	0.1	1	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 0.5		µg/l	0.5	0.2	1	"	"	"	"	"	X
75-25-2	Bromoform	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
74-83-9	Bromomethane	< 2.0		µg/l	2.0	0.5	1	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 10.0		µg/l	10.0	1.2	1	"	"	"	"	"	X
104-51-8	n-Butylbenzene	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 2.0		µg/l	2.0	0.3	1	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
75-00-3	Chloroethane	< 2.0		µg/l	2.0	0.4	1	"	"	"	"	"	X
67-66-3	Chloroform	< 1.0		µg/l	1.0	0.4	1	"	"	"	"	"	X
74-87-3	Chloromethane	< 2.0		µg/l	2.0	0.3	1	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 2.0		µg/l	2.0	0.9	1	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 0.5		µg/l	0.5	0.2	1	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 0.5		µg/l	0.5	0.3	1	"	"	"	"	"	X
74-95-3	Dibromomethane	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 2.0		µg/l	2.0	0.6	1	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 1.0		µg/l	1.0	0.1	1	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 1.0		µg/l	1.0	0.7	1	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 0.5		µg/l	0.5	0.2	1	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 0.5		µg/l	0.5	0.3	1	"	"	"	"	"	X
100-41-4	Ethylbenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 0.5		µg/l	0.5	0.4	1	"	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	< 10.0		µg/l	10.0	0.5	1	"	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
EB-20150330	08-14218H	Equipment Blank	30-Mar-15 12:00	31-Mar-15
SC05125-02				

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Volatile Organic Compounds													
Volatile Organic Compounds by SW846 8260 Prepared by method SW846 5030 Water MS													
98-82-8	Isopropylbenzene	< 1.0		µg/l	1.0	0.2	1	SW846 8260C	03-Apr-15	03-Apr-15	GMA	1506064	X
99-87-6	4-Isopropyltoluene	< 1.0		µg/l	1.0	0.4	1	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 10.0		µg/l	10.0	0.7	1	"	"	"	"	"	X
75-09-2	Methylene chloride	< 2.0		µg/l	2.0	0.3	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 1.0		µg/l	1.0	0.4	1	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
100-42-5	Styrene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 0.5		µg/l	0.5	0.3	1	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 1.0		µg/l	1.0	0.6	1	"	"	"	"	"	X
108-88-3	Toluene	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 1.0		µg/l	1.0	0.4	1	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	
71-55-6	1,1,1-Trichloroethane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
79-01-6	Trichloroethene	< 1.0		µg/l	1.0	0.4	1	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 1.0		µg/l	1.0	0.5	1	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 1.0		µg/l	1.0	0.4	1	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 1.0		µg/l	1.0	0.9	1	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 2.0		µg/l	2.0	0.4	1	"	"	"	"	"	X
95-47-6	o-Xylene	< 1.0		µg/l	1.0	0.5	1	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 2.0		µg/l	2.0	0.7	1	"	"	"	"	"	
60-29-7	Ethyl ether	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	< 1.0		µg/l	1.0	0.1	1	"	"	"	"	"	X
108-20-3	Di-isopropyl ether	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	< 10.0		µg/l	10.0	7.5	1	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 20.0		µg/l	20.0	12.4	1	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-buten e	< 5.0		µg/l	5.0	1.1	1	"	"	"	"	"	X
64-17-5	Ethanol	< 400		µg/l	400	22.7	1	"	"	"	"	"	X
Surrogate recoveries:													
460-00-4	*4-Bromofluorobenzene*	*97*			*70-130 %*			"	"	"	"	"	
2037-26-5	*Toluene-d8*	*101*			*70-130 %*			"	"	"	"	"	
17060-07-0	*1,2-Dichloroethane-d4*	*108*			*70-130 %*			"	"	"	"	"	
1868-53-7	*Dibromofluoromethane*	*101*			*70-130 %*			"	"	"	"	"	
Soluble Metals by EPA 200/6000 Series Methods													
	Filtration	**Field Filtered**		N/A			1	EPA 200.7/3005A/6010			LNB	1505908	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
EB-20150330 SC05125-02	08-14218H	Equipment Blank	30-Mar-15 12:00	31-Mar-15

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Soluble Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	< 0.00060	R06	mg/l	0.00060	0.00010	1	SW846 6020A	02-Apr-15	03-Apr-15	edt	1505917	X
7440-43-9	Cadmium	**0.00001**	J	mg/l	0.00025	0.00001	1	"	"	"	"	"	X
7440-50-8	Copper	< 0.00180	R06	mg/l	0.00180	0.00003	1	"	"	"	"	"	X
7440-66-6	Zinc	< 0.00100		mg/l	0.00100	0.00060	1	"	06-Apr-15	06-Apr-15	"	1506143	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
DUP-20150330	08-14218H	Surface Water	30-Mar-15 00:00	31-Mar-15
SC05125-03				

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Volatile Organic Compounds													
Volatile Organic Compounds by SW846 8260 Prepared by method SW846 5030 Water MS													
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 1.0		µg/l	1.0	0.5	1	SW846 8260C	03-Apr-15	03-Apr-15	GMA	1506064	X
67-64-1	Acetone	< 10.0		µg/l	10.0	2.5	1	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 0.5		µg/l	0.5	0.5	1	"	"	"	"	"	X
71-43-2	Benzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
108-86-1	Bromobenzene	< 1.0		µg/l	1.0	0.1	1	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 0.5		µg/l	0.5	0.2	1	"	"	"	"	"	X
75-25-2	Bromoform	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
74-83-9	Bromomethane	< 2.0		µg/l	2.0	0.5	1	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 10.0		µg/l	10.0	1.2	1	"	"	"	"	"	X
104-51-8	n-Butylbenzene	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 2.0		µg/l	2.0	0.3	1	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
75-00-3	Chloroethane	< 2.0		µg/l	2.0	0.4	1	"	"	"	"	"	X
67-66-3	Chloroform	< 1.0		µg/l	1.0	0.4	1	"	"	"	"	"	X
74-87-3	Chloromethane	< 2.0		µg/l	2.0	0.3	1	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 2.0		µg/l	2.0	0.9	1	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 0.5		µg/l	0.5	0.2	1	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 0.5		µg/l	0.5	0.3	1	"	"	"	"	"	X
74-95-3	Dibromomethane	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 2.0		µg/l	2.0	0.6	1	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 1.0		µg/l	1.0	0.1	1	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 1.0		µg/l	1.0	0.7	1	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 0.5		µg/l	0.5	0.2	1	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 0.5		µg/l	0.5	0.3	1	"	"	"	"	"	X
100-41-4	Ethylbenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 0.5		µg/l	0.5	0.4	1	"	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	< 10.0		µg/l	10.0	0.5	1	"	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
DUP-20150330	08-14218H	Surface Water	30-Mar-15 00:00	31-Mar-15
SC05125-03				

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Volatile Organic Compounds													
Volatile Organic Compounds by SW846 8260 Prepared by method SW846 5030 Water MS													
98-82-8	Isopropylbenzene	< 1.0		µg/l	1.0	0.2	1	SW846 8260C	03-Apr-15	03-Apr-15	GMA	1506064	X
99-87-6	4-Isopropyltoluene	< 1.0		µg/l	1.0	0.4	1	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 10.0		µg/l	10.0	0.7	1	"	"	"	"	"	X
75-09-2	Methylene chloride	< 2.0		µg/l	2.0	0.3	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 1.0		µg/l	1.0	0.4	1	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
100-42-5	Styrene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 0.5		µg/l	0.5	0.3	1	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 1.0		µg/l	1.0	0.6	1	"	"	"	"	"	X
108-88-3	Toluene	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 1.0		µg/l	1.0	0.4	1	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	
71-55-6	1,1,1-Trichloroethane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
79-01-6	Trichloroethene	< 1.0		µg/l	1.0	0.4	1	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 1.0		µg/l	1.0	0.5	1	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 1.0		µg/l	1.0	0.4	1	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 1.0		µg/l	1.0	0.9	1	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 2.0		µg/l	2.0	0.4	1	"	"	"	"	"	X
95-47-6	o-Xylene	< 1.0		µg/l	1.0	0.5	1	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 2.0		µg/l	2.0	0.7	1	"	"	"	"	"	
60-29-7	Ethyl ether	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	< 1.0		µg/l	1.0	0.1	1	"	"	"	"	"	X
108-20-3	Di-isopropyl ether	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	< 10.0		µg/l	10.0	7.5	1	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 20.0		µg/l	20.0	12.4	1	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-buten e	< 5.0		µg/l	5.0	1.1	1	"	"	"	"	"	X
64-17-5	Ethanol	< 400		µg/l	400	22.7	1	"	"	"	"	"	X
Surrogate recoveries:													
460-00-4	*4-Bromofluorobenzene*	*97*			*70-130 %*			"	"	"	"	"	
2037-26-5	*Toluene-d8*	*102*			*70-130 %*			"	"	"	"	"	
17060-07-0	*1,2-Dichloroethane-d4*	*107*			*70-130 %*			"	"	"	"	"	
1868-53-7	*Dibromofluoromethane*	*102*			*70-130 %*			"	"	"	"	"	
Soluble Metals by EPA 200/6000 Series Methods													
	Filtration	**Field Filtered**		N/A			1	EPA 200.7/3005A/6010			LNB	1505908	

This laboratory report is not valid without an authorized signature on the cover page.

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
DUP-20150330 SC05125-03	08-14218H	Surface Water	30-Mar-15 00:00	31-Mar-15

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Soluble Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	< 0.00060	R06	mg/l	0.00060	0.00010	1	SW846 6020A	02-Apr-15	03-Apr-15	edt	1505917	X
7440-43-9	Cadmium	**0.00007**	J	mg/l	0.00025	0.00001	1	"	"	"	"	"	X
7440-50-8	Copper	< 0.00180	R06	mg/l	0.00180	0.00003	1	"	"	"	"	"	X
7440-66-6	Zinc	**0.0116**		mg/l	0.00100	0.00060	1	"	06-Apr-15	06-Apr-15	"	1506143	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
SW-NR-1/20150330	08-14218H	Surface Water	30-Mar-15 09:15	31-Mar-15
SC05125-04				

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Volatile Organic Compounds													
Volatile Organic Compounds by SW846 8260 Prepared by method SW846 5030 Water MS													
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 1.0		µg/l	1.0	0.5	1	SW846 8260C	03-Apr-15	03-Apr-15	GMA	1506064	X
67-64-1	Acetone	< 10.0		µg/l	10.0	2.5	1	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 0.5		µg/l	0.5	0.5	1	"	"	"	"	"	X
71-43-2	Benzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
108-86-1	Bromobenzene	< 1.0		µg/l	1.0	0.1	1	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 0.5		µg/l	0.5	0.2	1	"	"	"	"	"	X
75-25-2	Bromoform	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
74-83-9	Bromomethane	< 2.0		µg/l	2.0	0.5	1	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 10.0		µg/l	10.0	1.2	1	"	"	"	"	"	X
104-51-8	n-Butylbenzene	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 2.0		µg/l	2.0	0.3	1	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
75-00-3	Chloroethane	< 2.0		µg/l	2.0	0.4	1	"	"	"	"	"	X
67-66-3	Chloroform	< 1.0		µg/l	1.0	0.4	1	"	"	"	"	"	X
74-87-3	Chloromethane	< 2.0		µg/l	2.0	0.3	1	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 2.0		µg/l	2.0	0.9	1	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 0.5		µg/l	0.5	0.2	1	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 0.5		µg/l	0.5	0.3	1	"	"	"	"	"	X
74-95-3	Dibromomethane	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 2.0		µg/l	2.0	0.6	1	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 1.0		µg/l	1.0	0.1	1	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 1.0		µg/l	1.0	0.7	1	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 0.5		µg/l	0.5	0.2	1	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 0.5		µg/l	0.5	0.3	1	"	"	"	"	"	X
100-41-4	Ethylbenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 0.5		µg/l	0.5	0.4	1	"	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	< 10.0		µg/l	10.0	0.5	1	"	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
SW-NR-1/20150330	08-14218H	Surface Water	30-Mar-15 09:15	31-Mar-15
SC05125-04				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Volatile Organic Compounds													
Volatile Organic Compounds by SW846 8260 Prepared by method SW846 5030 Water MS													
98-82-8	Isopropylbenzene	< 1.0		µg/l	1.0	0.2	1	SW846 8260C	03-Apr-15	03-Apr-15	GMA	1506064	X
99-87-6	4-Isopropyltoluene	< 1.0		µg/l	1.0	0.4	1	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 10.0		µg/l	10.0	0.7	1	"	"	"	"	"	X
75-09-2	Methylene chloride	< 2.0		µg/l	2.0	0.3	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 1.0		µg/l	1.0	0.4	1	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
100-42-5	Styrene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 0.5		µg/l	0.5	0.3	1	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 1.0		µg/l	1.0	0.6	1	"	"	"	"	"	X
108-88-3	Toluene	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 1.0		µg/l	1.0	0.4	1	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	
71-55-6	1,1,1-Trichloroethane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
79-01-6	Trichloroethene	< 1.0		µg/l	1.0	0.4	1	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 1.0		µg/l	1.0	0.5	1	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 1.0		µg/l	1.0	0.4	1	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 1.0		µg/l	1.0	0.9	1	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 2.0		µg/l	2.0	0.4	1	"	"	"	"	"	X
95-47-6	o-Xylene	< 1.0		µg/l	1.0	0.5	1	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 2.0		µg/l	2.0	0.7	1	"	"	"	"	"	
60-29-7	Ethyl ether	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	< 1.0		µg/l	1.0	0.1	1	"	"	"	"	"	X
108-20-3	Di-isopropyl ether	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	< 10.0		µg/l	10.0	7.5	1	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 20.0		µg/l	20.0	12.4	1	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-buten e	< 5.0		µg/l	5.0	1.1	1	"	"	"	"	"	X
64-17-5	Ethanol	< 400		µg/l	400	22.7	1	"	"	"	"	"	X
Surrogate recoveries:													
460-00-4	*4-Bromofluorobenzene*	*98*			*70-130 %*			"	"	"	"	"	
2037-26-5	*Toluene-d8*	*102*			*70-130 %*			"	"	"	"	"	
17060-07-0	*1,2-Dichloroethane-d4*	*106*			*70-130 %*			"	"	"	"	"	
1868-53-7	*Dibromofluoromethane*	*100*			*70-130 %*			"	"	"	"	"	
Soluble Metals by EPA 200/6000 Series Methods													
	Filtration	**Field Filtered**		N/A			1	EPA 200.7/3005A/6010			LNB	1505908	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
SW-NR-1/20150330 SC05125-04	08-14218H	Surface Water	30-Mar-15 09:15	31-Mar-15

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Soluble Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	< 0.00060	R06	mg/l	0.00060	0.00010	1	SW846 6020A	02-Apr-15	03-Apr-15	edt	1505917	X
7440-43-9	Cadmium	**0.00007**	J	mg/l	0.00025	0.00001	1	"	"	"	"	"	X
7440-50-8	Copper	< 0.00180	R06	mg/l	0.00180	0.00003	1	"	"	"	"	"	X
7440-66-6	Zinc	**0.0119**		mg/l	0.00100	0.00060	1	"	06-Apr-15	06-Apr-15	"	1506143	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
SW-NR-2/20150330	08-14218H	Surface Water	30-Mar-15 09:35	31-Mar-15
SC05125-05				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Volatile Organic Compounds													
Volatile Organic Compounds by SW846 8260 Prepared by method SW846 5030 Water MS													
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 1.0		µg/l	1.0	0.5	1	SW846 8260C	03-Apr-15	04-Apr-15	GMA	1506064	X
67-64-1	Acetone	< 10.0		µg/l	10.0	2.5	1	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 0.5		µg/l	0.5	0.5	1	"	"	"	"	"	X
71-43-2	Benzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
108-86-1	Bromobenzene	< 1.0		µg/l	1.0	0.1	1	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 0.5		µg/l	0.5	0.2	1	"	"	"	"	"	X
75-25-2	Bromoform	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
74-83-9	Bromomethane	< 2.0		µg/l	2.0	0.5	1	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 10.0		µg/l	10.0	1.2	1	"	"	"	"	"	X
104-51-8	n-Butylbenzene	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 2.0		µg/l	2.0	0.3	1	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
75-00-3	Chloroethane	< 2.0		µg/l	2.0	0.4	1	"	"	"	"	"	X
67-66-3	Chloroform	< 1.0		µg/l	1.0	0.4	1	"	"	"	"	"	X
74-87-3	Chloromethane	< 2.0		µg/l	2.0	0.3	1	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 2.0		µg/l	2.0	0.9	1	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 0.5		µg/l	0.5	0.2	1	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 0.5		µg/l	0.5	0.3	1	"	"	"	"	"	X
74-95-3	Dibromomethane	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 2.0		µg/l	2.0	0.6	1	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 1.0		µg/l	1.0	0.1	1	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 1.0		µg/l	1.0	0.7	1	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 0.5		µg/l	0.5	0.2	1	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 0.5		µg/l	0.5	0.3	1	"	"	"	"	"	X
100-41-4	Ethylbenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 0.5		µg/l	0.5	0.4	1	"	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	< 10.0		µg/l	10.0	0.5	1	"	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
SW-NR-2/20150330	08-14218H	Surface Water	30-Mar-15 09:35	31-Mar-15
SC05125-05				

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Volatile Organic Compounds													
Volatile Organic Compounds by SW846 8260 Prepared by method SW846 5030 Water MS													
98-82-8	Isopropylbenzene	< 1.0		µg/l	1.0	0.2	1	SW846 8260C	03-Apr-15	04-Apr-15	GMA	1506064	X
99-87-6	4-Isopropyltoluene	< 1.0		µg/l	1.0	0.4	1	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 10.0		µg/l	10.0	0.7	1	"	"	"	"	"	X
75-09-2	Methylene chloride	< 2.0		µg/l	2.0	0.3	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 1.0		µg/l	1.0	0.4	1	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
100-42-5	Styrene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 0.5		µg/l	0.5	0.3	1	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 1.0		µg/l	1.0	0.6	1	"	"	"	"	"	X
108-88-3	Toluene	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 1.0		µg/l	1.0	0.4	1	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	
71-55-6	1,1,1-Trichloroethane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
79-01-6	Trichloroethene	< 1.0		µg/l	1.0	0.4	1	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 1.0		µg/l	1.0	0.5	1	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 1.0		µg/l	1.0	0.4	1	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 1.0		µg/l	1.0	0.9	1	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 2.0		µg/l	2.0	0.4	1	"	"	"	"	"	X
95-47-6	o-Xylene	< 1.0		µg/l	1.0	0.5	1	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 2.0		µg/l	2.0	0.7	1	"	"	"	"	"	
60-29-7	Ethyl ether	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	< 1.0		µg/l	1.0	0.1	1	"	"	"	"	"	X
108-20-3	Di-isopropyl ether	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	< 10.0		µg/l	10.0	7.5	1	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 20.0		µg/l	20.0	12.4	1	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-buten e	< 5.0		µg/l	5.0	1.1	1	"	"	"	"	"	X
64-17-5	Ethanol	< 400		µg/l	400	22.7	1	"	"	"	"	"	X
Surrogate recoveries:													
460-00-4	*4-Bromofluorobenzene*	*97*			*70-130 %*			"	"	"	"	"	
2037-26-5	*Toluene-d8*	*101*			*70-130 %*			"	"	"	"	"	
17060-07-0	*1,2-Dichloroethane-d4*	*106*			*70-130 %*			"	"	"	"	"	
1868-53-7	*Dibromofluoromethane*	*101*			*70-130 %*			"	"	"	"	"	
Soluble Metals by EPA 200/6000 Series Methods													
	Filtration	**Field Filtered**		N/A			1	EPA 200.7/3005A/6010			LNB	1505908	

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Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
SW-NR-2/20150330 SC05125-05	08-14218H	Surface Water	30-Mar-15 09:35	31-Mar-15

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Soluble Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	< 0.00060	R06	mg/l	0.00060	0.00010	1	SW846 6020A	02-Apr-15	03-Apr-15	edt	1505917	X
7440-43-9	Cadmium	**0.00007**	J	mg/l	0.00025	0.00001	1	"	"	"	"	"	X
7440-50-8	Copper	< 0.00180	R06	mg/l	0.00180	0.00003	1	"	"	"	"	"	X
7440-66-6	Zinc	**0.0112**		mg/l	0.00100	0.00060	1	"	06-Apr-15	06-Apr-15	"	1506143	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
SW-BB-1/20150330	08-14218H	Surface Water	30-Mar-15 10:30	31-Mar-15
SC05125-06				

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Volatile Organic Compounds													
Volatile Organic Compounds by SW846 8260 Prepared by method SW846 5030 Water MS													
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 1.0		µg/l	1.0	0.5	1	SW846 8260C	03-Apr-15	04-Apr-15	GMA	1506064	X
67-64-1	Acetone	< 10.0		µg/l	10.0	2.5	1	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 0.5		µg/l	0.5	0.5	1	"	"	"	"	"	X
71-43-2	Benzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
108-86-1	Bromobenzene	< 1.0		µg/l	1.0	0.1	1	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 0.5		µg/l	0.5	0.2	1	"	"	"	"	"	X
75-25-2	Bromoform	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
74-83-9	Bromomethane	< 2.0		µg/l	2.0	0.5	1	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 10.0		µg/l	10.0	1.2	1	"	"	"	"	"	X
104-51-8	n-Butylbenzene	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 2.0		µg/l	2.0	0.3	1	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
75-00-3	Chloroethane	< 2.0		µg/l	2.0	0.4	1	"	"	"	"	"	X
67-66-3	Chloroform	< 1.0		µg/l	1.0	0.4	1	"	"	"	"	"	X
74-87-3	Chloromethane	< 2.0		µg/l	2.0	0.3	1	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 2.0		µg/l	2.0	0.9	1	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 0.5		µg/l	0.5	0.2	1	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 0.5		µg/l	0.5	0.3	1	"	"	"	"	"	X
74-95-3	Dibromomethane	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 2.0		µg/l	2.0	0.6	1	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 1.0		µg/l	1.0	0.1	1	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 1.0		µg/l	1.0	0.7	1	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 0.5		µg/l	0.5	0.2	1	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 0.5		µg/l	0.5	0.3	1	"	"	"	"	"	X
100-41-4	Ethylbenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 0.5		µg/l	0.5	0.4	1	"	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	< 10.0		µg/l	10.0	0.5	1	"	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
SW-BB-1/20150330	08-14218H	Surface Water	30-Mar-15 10:30	31-Mar-15
SC05125-06				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Volatile Organic Compounds													
Volatile Organic Compounds by SW846 8260 Prepared by method SW846 5030 Water MS													
98-82-8	Isopropylbenzene	< 1.0		µg/l	1.0	0.2	1	SW846 8260C	03-Apr-15	04-Apr-15	GMA	1506064	X
99-87-6	4-Isopropyltoluene	< 1.0		µg/l	1.0	0.4	1	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 10.0		µg/l	10.0	0.7	1	"	"	"	"	"	X
75-09-2	Methylene chloride	< 2.0		µg/l	2.0	0.3	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 1.0		µg/l	1.0	0.4	1	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
100-42-5	Styrene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 0.5		µg/l	0.5	0.3	1	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 1.0		µg/l	1.0	0.6	1	"	"	"	"	"	X
108-88-3	Toluene	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 1.0		µg/l	1.0	0.4	1	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	
71-55-6	1,1,1-Trichloroethane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
79-01-6	Trichloroethene	< 1.0		µg/l	1.0	0.4	1	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 1.0		µg/l	1.0	0.5	1	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 1.0		µg/l	1.0	0.4	1	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 1.0		µg/l	1.0	0.9	1	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 2.0		µg/l	2.0	0.4	1	"	"	"	"	"	X
95-47-6	o-Xylene	< 1.0		µg/l	1.0	0.5	1	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 2.0		µg/l	2.0	0.7	1	"	"	"	"	"	
60-29-7	Ethyl ether	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	< 1.0		µg/l	1.0	0.1	1	"	"	"	"	"	X
108-20-3	Di-isopropyl ether	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	< 10.0		µg/l	10.0	7.5	1	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 20.0		µg/l	20.0	12.4	1	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-buten e	< 5.0		µg/l	5.0	1.1	1	"	"	"	"	"	X
64-17-5	Ethanol	< 400		µg/l	400	22.7	1	"	"	"	"	"	X
Surrogate recoveries:													
460-00-4	*4-Bromofluorobenzene*	*97*			*70-130 %*			"	"	"	"	"	
2037-26-5	*Toluene-d8*	*101*			*70-130 %*			"	"	"	"	"	
17060-07-0	*1,2-Dichloroethane-d4*	*107*			*70-130 %*			"	"	"	"	"	
1868-53-7	*Dibromofluoromethane*	*101*			*70-130 %*			"	"	"	"	"	
Soluble Metals by EPA 200/6000 Series Methods													
	Filtration	**Field Filtered**		N/A			1	EPA 200.7/3005A/6010			LNB	1505908	

This laboratory report is not valid without an authorized signature on the cover page.

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
SW-BB-1/20150330 SC05125-06	08-14218H	Surface Water	30-Mar-15 10:30	31-Mar-15

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Soluble Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	< 0.00060	R06	mg/l	0.00060	0.00010	1	SW846 6020A	02-Apr-15	03-Apr-15	edt	1505917	X
7440-43-9	Cadmium	**0.00002**	J	mg/l	0.00025	0.00001	1	"	"	"	"	"	X
7440-50-8	Copper	< 0.00180	R06	mg/l	0.00180	0.00003	1	"	"	"	"	"	X
7440-66-6	Zinc	**0.00413**		mg/l	0.00100	0.00060	1	"	06-Apr-15	06-Apr-15	"	1506143	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
SW-BB-2/20150330	08-14218H	Surface Water	30-Mar-15 11:00	31-Mar-15
SC05125-07				

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Volatile Organic Compounds													
Volatile Organic Compounds by SW846 8260 Prepared by method SW846 5030 Water MS													
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 1.0		µg/l	1.0	0.5	1	SW846 8260C	03-Apr-15	04-Apr-15	GMA	1506064	X
67-64-1	Acetone	< 10.0		µg/l	10.0	2.5	1	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 0.5		µg/l	0.5	0.5	1	"	"	"	"	"	X
71-43-2	Benzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
108-86-1	Bromobenzene	< 1.0		µg/l	1.0	0.1	1	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 0.5		µg/l	0.5	0.2	1	"	"	"	"	"	X
75-25-2	Bromoform	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
74-83-9	Bromomethane	< 2.0		µg/l	2.0	0.5	1	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 10.0		µg/l	10.0	1.2	1	"	"	"	"	"	X
104-51-8	n-Butylbenzene	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 2.0		µg/l	2.0	0.3	1	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
75-00-3	Chloroethane	< 2.0		µg/l	2.0	0.4	1	"	"	"	"	"	X
67-66-3	Chloroform	< 1.0		µg/l	1.0	0.4	1	"	"	"	"	"	X
74-87-3	Chloromethane	< 2.0		µg/l	2.0	0.3	1	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 2.0		µg/l	2.0	0.9	1	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 0.5		µg/l	0.5	0.2	1	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 0.5		µg/l	0.5	0.3	1	"	"	"	"	"	X
74-95-3	Dibromomethane	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 2.0		µg/l	2.0	0.6	1	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 1.0		µg/l	1.0	0.1	1	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 1.0		µg/l	1.0	0.7	1	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 0.5		µg/l	0.5	0.2	1	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 0.5		µg/l	0.5	0.3	1	"	"	"	"	"	X
100-41-4	Ethylbenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 0.5		µg/l	0.5	0.4	1	"	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	< 10.0		µg/l	10.0	0.5	1	"	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
SW-BB-2/20150330 SC05125-07	08-14218H	Surface Water	30-Mar-15 11:00	31-Mar-15

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Volatile Organic Compounds													
Volatile Organic Compounds by SW846 8260 Prepared by method SW846 5030 Water MS													
98-82-8	Isopropylbenzene	< 1.0		µg/l	1.0	0.2	1	SW846 8260C	03-Apr-15	04-Apr-15	GMA	1506064	X
99-87-6	4-Isopropyltoluene	< 1.0		µg/l	1.0	0.4	1	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 10.0		µg/l	10.0	0.7	1	"	"	"	"	"	X
75-09-2	Methylene chloride	< 2.0		µg/l	2.0	0.3	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 1.0		µg/l	1.0	0.4	1	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
100-42-5	Styrene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 0.5		µg/l	0.5	0.3	1	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 1.0		µg/l	1.0	0.6	1	"	"	"	"	"	X
108-88-3	Toluene	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 1.0		µg/l	1.0	0.4	1	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	
71-55-6	1,1,1-Trichloroethane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
79-01-6	Trichloroethene	< 1.0		µg/l	1.0	0.4	1	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 1.0		µg/l	1.0	0.5	1	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 1.0		µg/l	1.0	0.4	1	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 1.0		µg/l	1.0	0.9	1	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 2.0		µg/l	2.0	0.4	1	"	"	"	"	"	X
95-47-6	o-Xylene	< 1.0		µg/l	1.0	0.5	1	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 2.0		µg/l	2.0	0.7	1	"	"	"	"	"	
60-29-7	Ethyl ether	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	< 1.0		µg/l	1.0	0.1	1	"	"	"	"	"	X
108-20-3	Di-isopropyl ether	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	< 10.0		µg/l	10.0	7.5	1	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 20.0		µg/l	20.0	12.4	1	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-buten e	< 5.0		µg/l	5.0	1.1	1	"	"	"	"	"	X
64-17-5	Ethanol	< 400		µg/l	400	22.7	1	"	"	"	"	"	X
Surrogate recoveries:													
460-00-4	*4-Bromofluorobenzene*	*97*			*70-130 %*			"	"	"	"	"	
2037-26-5	*Toluene-d8*	*103*			*70-130 %*			"	"	"	"	"	
17060-07-0	*1,2-Dichloroethane-d4*	*108*			*70-130 %*			"	"	"	"	"	
1868-53-7	*Dibromofluoromethane*	*102*			*70-130 %*			"	"	"	"	"	
Soluble Metals by EPA 200/6000 Series Methods													
	Filtration	**Field Filtered**		N/A			1	EPA 200.7/3005A/6010			LNB	1505908	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
SW-BB-2/20150330 SC05125-07	08-14218H	Surface Water	30-Mar-15 11:00	31-Mar-15

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Soluble Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	< 0.00060	R06	mg/l	0.00060	0.00010	1	SW846 6020A	02-Apr-15	03-Apr-15	edt	1505917	X
7440-43-9	Cadmium	**0.00002**	J	mg/l	0.00025	0.00001	1	"	"	"	"	"	X
7440-50-8	Copper	< 0.00180	R06	mg/l	0.00180	0.00003	1	"	"	"	"	"	X
7440-66-6	Zinc	**0.00442**		mg/l	0.00100	0.00060	1	"	06-Apr-15	06-Apr-15	"	1506143	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MW-43D/20150330	08-14218H	Ground Water	30-Mar-15 13:50	31-Mar-15
SC05125-08				

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Volatile Organic Compounds													
Volatile Organic Compounds by SW846 8260 Prepared by method SW846 5030 Water MS													
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 1.0		µg/l	1.0	0.5	1	SW846 8260C	03-Apr-15	04-Apr-15	GMA	1506064	X
67-64-1	Acetone	< 10.0		µg/l	10.0	2.5	1	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 0.5		µg/l	0.5	0.5	1	"	"	"	"	"	X
71-43-2	Benzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
108-86-1	Bromobenzene	< 1.0		µg/l	1.0	0.1	1	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 0.5		µg/l	0.5	0.2	1	"	"	"	"	"	X
75-25-2	Bromoform	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
74-83-9	Bromomethane	< 2.0		µg/l	2.0	0.5	1	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 10.0		µg/l	10.0	1.2	1	"	"	"	"	"	X
104-51-8	n-Butylbenzene	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 2.0		µg/l	2.0	0.3	1	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
75-00-3	Chloroethane	< 2.0		µg/l	2.0	0.4	1	"	"	"	"	"	X
67-66-3	Chloroform	< 1.0		µg/l	1.0	0.4	1	"	"	"	"	"	X
74-87-3	Chloromethane	< 2.0		µg/l	2.0	0.3	1	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 2.0		µg/l	2.0	0.9	1	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 0.5		µg/l	0.5	0.2	1	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 0.5		µg/l	0.5	0.3	1	"	"	"	"	"	X
74-95-3	Dibromomethane	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 2.0		µg/l	2.0	0.6	1	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	**83.3**		µg/l	1.0	0.2	1	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 1.0		µg/l	1.0	0.1	1	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 1.0		µg/l	1.0	0.7	1	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 0.5		µg/l	0.5	0.2	1	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 0.5		µg/l	0.5	0.3	1	"	"	"	"	"	X
100-41-4	Ethylbenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 0.5		µg/l	0.5	0.4	1	"	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	< 10.0		µg/l	10.0	0.5	1	"	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MW-43D/20150330	08-14218H	Ground Water	30-Mar-15 13:50	31-Mar-15
SC05125-08				

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Volatile Organic Compounds													
Volatile Organic Compounds by SW846 8260 Prepared by method SW846 5030 Water MS													
98-82-8	Isopropylbenzene	< 1.0		µg/l	1.0	0.2	1	SW846 8260C	03-Apr-15	04-Apr-15	GMA	1506064	X
99-87-6	4-Isopropyltoluene	< 1.0		µg/l	1.0	0.4	1	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 10.0		µg/l	10.0	0.7	1	"	"	"	"	"	X
75-09-2	Methylene chloride	< 2.0		µg/l	2.0	0.3	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 1.0		µg/l	1.0	0.4	1	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
100-42-5	Styrene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 0.5		µg/l	0.5	0.3	1	"	"	"	"	"	X
127-18-4	Tetrachloroethene	**31.5**		µg/l	1.0	0.6	1	"	"	"	"	"	X
108-88-3	Toluene	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 1.0		µg/l	1.0	0.4	1	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	
71-55-6	1,1,1-Trichloroethane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
79-01-6	Trichloroethene	**52.2**		µg/l	1.0	0.4	1	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 1.0		µg/l	1.0	0.5	1	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 1.0		µg/l	1.0	0.4	1	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 1.0		µg/l	1.0	0.9	1	"	"	"	"	"	X
75-01-4	Vinyl chloride	**5.8**		µg/l	1.0	0.3	1	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 2.0		µg/l	2.0	0.4	1	"	"	"	"	"	X
95-47-6	o-Xylene	< 1.0		µg/l	1.0	0.5	1	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 2.0		µg/l	2.0	0.7	1	"	"	"	"	"	
60-29-7	Ethyl ether	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	< 1.0		µg/l	1.0	0.1	1	"	"	"	"	"	X
108-20-3	Di-isopropyl ether	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	< 10.0		µg/l	10.0	7.5	1	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 20.0		µg/l	20.0	12.4	1	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-buten e	< 5.0		µg/l	5.0	1.1	1	"	"	"	"	"	X
64-17-5	Ethanol	< 400		µg/l	400	22.7	1	"	"	"	"	"	X
Surrogate recoveries:													
460-00-4	*4-Bromofluorobenzene*	*98*			*70-130 %*			"	"	"	"	"	
2037-26-5	*Toluene-d8*	*101*			*70-130 %*			"	"	"	"	"	
17060-07-0	*1,2-Dichloroethane-d4*	*107*			*70-130 %*			"	"	"	"	"	
1868-53-7	*Dibromofluoromethane*	*103*			*70-130 %*			"	"	"	"	"	
Total Metals by EPA 200/6000 Series Methods													
	Preservation	**Field Preserved**		N/A			1	EPA 200/6000 methods			LNB	1505892	
Total Metals by EPA 6000/7000 Series Methods													

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Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MW-43D/20150330 SC05125-08	08-14218H	Ground Water	30-Mar-15 13:50	31-Mar-15

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Total Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	< 0.0040		mg/l	0.0040	0.0027	1	SW846 6010C	02-Apr-15	06-Apr-15	BJW	1505916	X
7440-39-3	Barium	**0.0184**		mg/l	0.0050	0.0003	1	"	"	"	"	"	X
7440-43-9	Cadmium	**0.0040**		mg/l	0.0025	0.0002	1	"	"	"	"	"	X
7440-47-3	Chromium	< 0.0050		mg/l	0.0050	0.0010	1	"	"	"	"	"	X
7440-50-8	Copper	**0.638**		mg/l	0.0050	0.0035	1	"	"	"	"	"	X
7440-02-0	Nickel	**0.196**		mg/l	0.0050	0.0014	1	"	"	"	"	"	X
7440-66-6	Zinc	**0.602**		mg/l	0.0050	0.0006	1	"	"	"	"	"	X
General Chemistry Parameters													
57-12-5	Cyanide (total)	< 0.00500		mg/l	0.00500	0.00442	1	EPA 335.4 / SW846 9012B	03-Apr-15	03-Apr-15	RLT	1506072	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MW-43S/20150330	08-14218H	Ground Water	30-Mar-15 14:25	31-Mar-15
SC05125-09				

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Volatile Organic Compounds													
Volatile Organic Compounds by SW846 8260 Prepared by method SW846 5030 Water MS													
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 1.0		µg/l	1.0	0.5	1	SW846 8260C	06-Apr-15	07-Apr-15	GMA	1506192	X
67-64-1	Acetone	< 10.0		µg/l	10.0	2.5	1	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 0.5		µg/l	0.5	0.5	1	"	"	"	"	"	X
71-43-2	Benzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
108-86-1	Bromobenzene	< 1.0		µg/l	1.0	0.1	1	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 0.5		µg/l	0.5	0.2	1	"	"	"	"	"	X
75-25-2	Bromoform	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
74-83-9	Bromomethane	< 2.0		µg/l	2.0	0.5	1	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 10.0		µg/l	10.0	1.2	1	"	"	"	"	"	X
104-51-8	n-Butylbenzene	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 2.0		µg/l	2.0	0.3	1	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
75-00-3	Chloroethane	< 2.0		µg/l	2.0	0.4	1	"	"	"	"	"	X
67-66-3	Chloroform	< 1.0		µg/l	1.0	0.4	1	"	"	"	"	"	X
74-87-3	Chloromethane	< 2.0		µg/l	2.0	0.3	1	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 2.0		µg/l	2.0	0.9	1	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 0.5		µg/l	0.5	0.2	1	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 0.5		µg/l	0.5	0.3	1	"	"	"	"	"	X
74-95-3	Dibromomethane	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 2.0		µg/l	2.0	0.6	1	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	**7.5**		µg/l	1.0	0.2	1	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 1.0		µg/l	1.0	0.1	1	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 1.0		µg/l	1.0	0.7	1	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 0.5		µg/l	0.5	0.2	1	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 0.5		µg/l	0.5	0.3	1	"	"	"	"	"	X
100-41-4	Ethylbenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 0.5		µg/l	0.5	0.4	1	"	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	< 10.0		µg/l	10.0	0.5	1	"	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MW-43S/20150330	08-14218H	Ground Water	30-Mar-15 14:25	31-Mar-15
SC05125-09				

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Volatile Organic Compounds													
Volatile Organic Compounds by SW846 8260 Prepared by method SW846 5030 Water MS													
98-82-8	Isopropylbenzene	< 1.0		µg/l	1.0	0.2	1	SW846 8260C	06-Apr-15	07-Apr-15	GMA	1506192	X
99-87-6	4-Isopropyltoluene	< 1.0		µg/l	1.0	0.4	1	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 10.0		µg/l	10.0	0.7	1	"	"	"	"	"	X
75-09-2	Methylene chloride	< 2.0		µg/l	2.0	0.3	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 1.0		µg/l	1.0	0.4	1	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
100-42-5	Styrene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 0.5		µg/l	0.5	0.3	1	"	"	"	"	"	X
127-18-4	Tetrachloroethene	**9.2**		µg/l	1.0	0.6	1	"	"	"	"	"	X
108-88-3	Toluene	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 1.0		µg/l	1.0	0.4	1	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	
71-55-6	1,1,1-Trichloroethane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
79-01-6	Trichloroethene	**6.6**		µg/l	1.0	0.4	1	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 1.0		µg/l	1.0	0.5	1	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 1.0		µg/l	1.0	0.4	1	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 1.0		µg/l	1.0	0.9	1	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 2.0		µg/l	2.0	0.4	1	"	"	"	"	"	X
95-47-6	o-Xylene	< 1.0		µg/l	1.0	0.5	1	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 2.0		µg/l	2.0	0.7	1	"	"	"	"	"	
60-29-7	Ethyl ether	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	< 1.0		µg/l	1.0	0.1	1	"	"	"	"	"	X
108-20-3	Di-isopropyl ether	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	< 10.0		µg/l	10.0	7.5	1	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 20.0		µg/l	20.0	12.4	1	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-buten e	< 5.0		µg/l	5.0	1.1	1	"	"	"	"	"	X
64-17-5	Ethanol	< 400		µg/l	400	22.7	1	"	"	"	"	"	X
Surrogate recoveries:													
460-00-4	*4-Bromofluorobenzene*	*97*			*70-130 %*			"	"	"	"	"	
2037-26-5	*Toluene-d8*	*103*			*70-130 %*			"	"	"	"	"	
17060-07-0	*1,2-Dichloroethane-d4*	*106*			*70-130 %*			"	"	"	"	"	
1868-53-7	*Dibromofluoromethane*	*103*			*70-130 %*			"	"	"	"	"	
Total Metals by EPA 200/6000 Series Methods													
	Preservation	**Field Preserved**		N/A			1	EPA 200/6000 methods			LNB	1505892	
Total Metals by EPA 6000/7000 Series Methods													

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MW-43S/20150330 SC05125-09	08-14218H	Ground Water	30-Mar-15 14:25	31-Mar-15

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Total Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	**0.0114**		mg/l	0.0040	0.0027	1	SW846 6010C	02-Apr-15	06-Apr-15	BJW	1505916	X
7440-39-3	Barium	**0.0568**		mg/l	0.0050	0.0003	1	"	"	"	"	"	X
7440-43-9	Cadmium	**0.0006**	J	mg/l	0.0025	0.0002	1	"	"	"	"	"	X
7440-47-3	Chromium	< 0.0050		mg/l	0.0050	0.0010	1	"	"	"	"	"	X
7440-50-8	Copper	**0.0139**		mg/l	0.0050	0.0035	1	"	"	"	"	"	X
7440-02-0	Nickel	**0.0132**		mg/l	0.0050	0.0014	1	"	"	"	"	"	X
7440-66-6	Zinc	**0.0160**		mg/l	0.0050	0.0006	1	"	"	"	"	"	X
General Chemistry Parameters													
57-12-5	Cyanide (total)	< 0.00500		mg/l	0.00500	0.00442	1	EPA 335.4 / SW846 9012B	03-Apr-15	03-Apr-15	RLT	1506072	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MW-44D/20150330	08-14218H	Ground Water	30-Mar-15 15:30	31-Mar-15
SC05125-10				

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Volatile Organic Compounds													
Volatile Organic Compounds by SW846 8260 Prepared by method SW846 5030 Water MS													
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 1.0		µg/l	1.0	0.5	1	SW846 8260C	06-Apr-15	07-Apr-15	GMA	1506192	X
67-64-1	Acetone	< 10.0		µg/l	10.0	2.5	1	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 0.5		µg/l	0.5	0.5	1	"	"	"	"	"	X
71-43-2	Benzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
108-86-1	Bromobenzene	< 1.0		µg/l	1.0	0.1	1	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 0.5		µg/l	0.5	0.2	1	"	"	"	"	"	X
75-25-2	Bromoform	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
74-83-9	Bromomethane	< 2.0		µg/l	2.0	0.5	1	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 10.0		µg/l	10.0	1.2	1	"	"	"	"	"	X
104-51-8	n-Butylbenzene	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 2.0		µg/l	2.0	0.3	1	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
75-00-3	Chloroethane	< 2.0		µg/l	2.0	0.4	1	"	"	"	"	"	X
67-66-3	Chloroform	< 1.0		µg/l	1.0	0.4	1	"	"	"	"	"	X
74-87-3	Chloromethane	< 2.0		µg/l	2.0	0.3	1	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 2.0		µg/l	2.0	0.9	1	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 0.5		µg/l	0.5	0.2	1	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 0.5		µg/l	0.5	0.3	1	"	"	"	"	"	X
74-95-3	Dibromomethane	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 2.0		µg/l	2.0	0.6	1	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	**79.3**		µg/l	1.0	0.2	1	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 1.0		µg/l	1.0	0.1	1	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 1.0		µg/l	1.0	0.7	1	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 0.5		µg/l	0.5	0.2	1	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 0.5		µg/l	0.5	0.3	1	"	"	"	"	"	X
100-41-4	Ethylbenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 0.5		µg/l	0.5	0.4	1	"	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	< 10.0		µg/l	10.0	0.5	1	"	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MW-44D/20150330	08-14218H	Ground Water	30-Mar-15 15:30	31-Mar-15
SC05125-10				

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Volatile Organic Compounds													
Volatile Organic Compounds by SW846 8260 Prepared by method SW846 5030 Water MS													
98-82-8	Isopropylbenzene	< 1.0		µg/l	1.0	0.2	1	SW846 8260C	06-Apr-15	07-Apr-15	GMA	1506192	X
99-87-6	4-Isopropyltoluene	< 1.0		µg/l	1.0	0.4	1	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 10.0		µg/l	10.0	0.7	1	"	"	"	"	"	X
75-09-2	Methylene chloride	< 2.0		µg/l	2.0	0.3	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 1.0		µg/l	1.0	0.4	1	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
100-42-5	Styrene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 0.5		µg/l	0.5	0.3	1	"	"	"	"	"	X
127-18-4	Tetrachloroethene	**22.5**		µg/l	1.0	0.6	1	"	"	"	"	"	X
108-88-3	Toluene	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 1.0		µg/l	1.0	0.4	1	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	
71-55-6	1,1,1-Trichloroethane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
79-01-6	Trichloroethene	**44.4**		µg/l	1.0	0.4	1	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 1.0		µg/l	1.0	0.5	1	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 1.0		µg/l	1.0	0.4	1	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 1.0		µg/l	1.0	0.9	1	"	"	"	"	"	X
75-01-4	Vinyl chloride	**5.9**		µg/l	1.0	0.3	1	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 2.0		µg/l	2.0	0.4	1	"	"	"	"	"	X
95-47-6	o-Xylene	< 1.0		µg/l	1.0	0.5	1	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 2.0		µg/l	2.0	0.7	1	"	"	"	"	"	
60-29-7	Ethyl ether	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	< 1.0		µg/l	1.0	0.1	1	"	"	"	"	"	X
108-20-3	Di-isopropyl ether	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	< 10.0		µg/l	10.0	7.5	1	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 20.0		µg/l	20.0	12.4	1	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-buten e	< 5.0		µg/l	5.0	1.1	1	"	"	"	"	"	X
64-17-5	Ethanol	< 400		µg/l	400	22.7	1	"	"	"	"	"	X
Surrogate recoveries:													
460-00-4	*4-Bromofluorobenzene*	*97*			*70-130 %*			"	"	"	"	"	
2037-26-5	*Toluene-d8*	*104*			*70-130 %*			"	"	"	"	"	
17060-07-0	*1,2-Dichloroethane-d4*	*108*			*70-130 %*			"	"	"	"	"	
1868-53-7	*Dibromofluoromethane*	*105*			*70-130 %*			"	"	"	"	"	
Total Metals by EPA 200/6000 Series Methods													
	Preservation	**Field Preserved**		N/A			1	EPA 200/6000 methods			LNB	1505892	
Total Metals by EPA 6000/7000 Series Methods													

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Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MW-44D/20150330 SC05125-10	08-14218H	Ground Water	30-Mar-15 15:30	31-Mar-15

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Total Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	< 0.0040		mg/l	0.0040	0.0027	1	SW846 6010C	02-Apr-15	06-Apr-15	BJW	1505916	X
7440-39-3	Barium	**0.0348**		mg/l	0.0050	0.0003	1	"	"	"	"	"	X
7440-43-9	Cadmium	**0.0015**	J	mg/l	0.0025	0.0002	1	"	"	"	"	"	X
7440-47-3	Chromium	< 0.0050		mg/l	0.0050	0.0010	1	"	"	"	"	"	X
7440-50-8	Copper	**0.0420**		mg/l	0.0050	0.0035	1	"	"	"	"	"	X
7440-02-0	Nickel	**0.0350**		mg/l	0.0050	0.0014	1	"	"	"	"	"	X
7440-66-6	Zinc	**0.0562**		mg/l	0.0050	0.0006	1	"	"	"	"	"	X
General Chemistry Parameters													
57-12-5	Cyanide (total)	< 0.00500		mg/l	0.00500	0.00442	1	EPA 335.4 / SW846 9012B	07-Apr-15	07-Apr-15	RLT	1506302	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MW-42S/20150331 SC05125-11	08-14218H	Ground Water	31-Mar-15 08:25	31-Mar-15

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Volatile Organic Compounds													
Volatile Organic Compounds by SW846 8260 Prepared by method SW846 5030 Water MS													
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 1.0		µg/l	1.0	0.5	1	SW846 8260C	06-Apr-15	07-Apr-15	GMA	1506192	X
67-64-1	Acetone	< 10.0		µg/l	10.0	2.5	1	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 0.5		µg/l	0.5	0.5	1	"	"	"	"	"	X
71-43-2	Benzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
108-86-1	Bromobenzene	< 1.0		µg/l	1.0	0.1	1	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 0.5		µg/l	0.5	0.2	1	"	"	"	"	"	X
75-25-2	Bromoform	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
74-83-9	Bromomethane	< 2.0		µg/l	2.0	0.5	1	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 10.0		µg/l	10.0	1.2	1	"	"	"	"	"	X
104-51-8	n-Butylbenzene	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 2.0		µg/l	2.0	0.3	1	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
75-00-3	Chloroethane	< 2.0		µg/l	2.0	0.4	1	"	"	"	"	"	X
67-66-3	Chloroform	< 1.0		µg/l	1.0	0.4	1	"	"	"	"	"	X
74-87-3	Chloromethane	< 2.0		µg/l	2.0	0.3	1	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 2.0		µg/l	2.0	0.9	1	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 0.5		µg/l	0.5	0.2	1	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 0.5		µg/l	0.5	0.3	1	"	"	"	"	"	X
74-95-3	Dibromomethane	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 2.0		µg/l	2.0	0.6	1	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	**16.6**		µg/l	1.0	0.2	1	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 1.0		µg/l	1.0	0.1	1	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 1.0		µg/l	1.0	0.7	1	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 0.5		µg/l	0.5	0.2	1	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 0.5		µg/l	0.5	0.3	1	"	"	"	"	"	X
100-41-4	Ethylbenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 0.5		µg/l	0.5	0.4	1	"	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	< 10.0		µg/l	10.0	0.5	1	"	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MW-42S/20150331	08-14218H	Ground Water	31-Mar-15 08:25	31-Mar-15
SC05125-11				

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Volatile Organic Compounds													
Volatile Organic Compounds by SW846 8260 Prepared by method SW846 5030 Water MS													
98-82-8	Isopropylbenzene	< 1.0		µg/l	1.0	0.2	1	SW846 8260C	06-Apr-15	07-Apr-15	GMA	1506192	X
99-87-6	4-Isopropyltoluene	< 1.0		µg/l	1.0	0.4	1	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 10.0		µg/l	10.0	0.7	1	"	"	"	"	"	X
75-09-2	Methylene chloride	< 2.0		µg/l	2.0	0.3	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 1.0		µg/l	1.0	0.4	1	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
100-42-5	Styrene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 0.5		µg/l	0.5	0.3	1	"	"	"	"	"	X
127-18-4	Tetrachloroethene	**4.9**		µg/l	1.0	0.6	1	"	"	"	"	"	X
108-88-3	Toluene	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 1.0		µg/l	1.0	0.4	1	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	
71-55-6	1,1,1-Trichloroethane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
79-01-6	Trichloroethene	**6.7**		µg/l	1.0	0.4	1	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 1.0		µg/l	1.0	0.5	1	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 1.0		µg/l	1.0	0.4	1	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 1.0		µg/l	1.0	0.9	1	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 2.0		µg/l	2.0	0.4	1	"	"	"	"	"	X
95-47-6	o-Xylene	< 1.0		µg/l	1.0	0.5	1	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 2.0		µg/l	2.0	0.7	1	"	"	"	"	"	
60-29-7	Ethyl ether	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	< 1.0		µg/l	1.0	0.1	1	"	"	"	"	"	X
108-20-3	Di-isopropyl ether	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	< 10.0		µg/l	10.0	7.5	1	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 20.0		µg/l	20.0	12.4	1	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-buten e	< 5.0		µg/l	5.0	1.1	1	"	"	"	"	"	X
64-17-5	Ethanol	< 400		µg/l	400	22.7	1	"	"	"	"	"	X
Surrogate recoveries:													
460-00-4	*4-Bromofluorobenzene*	*96*			*70-130 %*			"	"	"	"	"	
2037-26-5	*Toluene-d8*	*103*			*70-130 %*			"	"	"	"	"	
17060-07-0	*1,2-Dichloroethane-d4*	*108*			*70-130 %*			"	"	"	"	"	
1868-53-7	*Dibromofluoromethane*	*104*			*70-130 %*			"	"	"	"	"	
Total Metals by EPA 200/6000 Series Methods													
	Preservation	**Field Preserved**		N/A			1	EPA 200/6000 methods			LNB	1505892	
Total Metals by EPA 6000/7000 Series Methods													

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MW-42S/20150331 SC05125-11	08-14218H	Ground Water	31-Mar-15 08:25	31-Mar-15

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Total Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	< 0.0040		mg/l	0.0040	0.0027	1	SW846 6010C	02-Apr-15	06-Apr-15	BJW	1505916	X
7440-39-3	Barium	**0.0686**		mg/l	0.0050	0.0003	1	"	"	"	"	"	X
7440-43-9	Cadmium	**0.0009**	J	mg/l	0.0025	0.0002	1	"	"	"	"	"	X
7440-47-3	Chromium	< 0.0050		mg/l	0.0050	0.0010	1	"	"	"	"	"	X
7440-50-8	Copper	**0.0194**		mg/l	0.0050	0.0035	1	"	"	"	"	"	X
7440-02-0	Nickel	**0.0303**		mg/l	0.0050	0.0014	1	"	"	"	"	"	X
7440-66-6	Zinc	**0.0880**		mg/l	0.0050	0.0006	1	"	"	"	"	"	X
General Chemistry Parameters													
57-12-5	Cyanide (total)	< 0.00500		mg/l	0.00500	0.00442	1	EPA 335.4 / SW846 9012B	07-Apr-15	07-Apr-15	RLT	1506302	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
TB-20150331	08-14218H	Trip Blank	31-Mar-15 09:00	31-Mar-15
SC05125-12				

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Volatile Organic Compounds													
Volatile Organic Compounds by SW846 8260 Prepared by method SW846 5030 Water MS													
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 1.0		µg/l	1.0	0.5	1	SW846 8260C	06-Apr-15	07-Apr-15	GMA	1506192	X
67-64-1	Acetone	< 10.0		µg/l	10.0	2.5	1	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 0.5		µg/l	0.5	0.5	1	"	"	"	"	"	X
71-43-2	Benzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
108-86-1	Bromobenzene	< 1.0		µg/l	1.0	0.1	1	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 0.5		µg/l	0.5	0.2	1	"	"	"	"	"	X
75-25-2	Bromoform	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
74-83-9	Bromomethane	< 2.0		µg/l	2.0	0.5	1	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 10.0		µg/l	10.0	1.2	1	"	"	"	"	"	X
104-51-8	n-Butylbenzene	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 2.0		µg/l	2.0	0.3	1	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
75-00-3	Chloroethane	< 2.0		µg/l	2.0	0.4	1	"	"	"	"	"	X
67-66-3	Chloroform	< 1.0		µg/l	1.0	0.4	1	"	"	"	"	"	X
74-87-3	Chloromethane	< 2.0		µg/l	2.0	0.3	1	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 2.0		µg/l	2.0	0.9	1	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 0.5		µg/l	0.5	0.2	1	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 0.5		µg/l	0.5	0.3	1	"	"	"	"	"	X
74-95-3	Dibromomethane	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 2.0		µg/l	2.0	0.6	1	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 1.0		µg/l	1.0	0.1	1	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 1.0		µg/l	1.0	0.7	1	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 0.5		µg/l	0.5	0.2	1	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 0.5		µg/l	0.5	0.3	1	"	"	"	"	"	X
100-41-4	Ethylbenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 0.5		µg/l	0.5	0.4	1	"	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	< 10.0		µg/l	10.0	0.5	1	"	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
TB-20150331	08-14218H	Trip Blank	31-Mar-15 09:00	31-Mar-15
SC05125-12				

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Volatile Organic Compounds													
Volatile Organic Compounds by SW846 8260 Prepared by method SW846 5030 Water MS													
98-82-8	Isopropylbenzene	< 1.0		µg/l	1.0	0.2	1	SW846 8260C	06-Apr-15	07-Apr-15	GMA	1506192	X
99-87-6	4-Isopropyltoluene	< 1.0		µg/l	1.0	0.4	1	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 10.0		µg/l	10.0	0.7	1	"	"	"	"	"	X
75-09-2	Methylene chloride	< 2.0		µg/l	2.0	0.3	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 1.0		µg/l	1.0	0.4	1	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
100-42-5	Styrene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 0.5		µg/l	0.5	0.3	1	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 1.0		µg/l	1.0	0.6	1	"	"	"	"	"	X
108-88-3	Toluene	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 1.0		µg/l	1.0	0.4	1	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	
71-55-6	1,1,1-Trichloroethane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
79-01-6	Trichloroethene	< 1.0		µg/l	1.0	0.4	1	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 1.0		µg/l	1.0	0.5	1	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 1.0		µg/l	1.0	0.4	1	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 1.0		µg/l	1.0	0.9	1	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 2.0		µg/l	2.0	0.4	1	"	"	"	"	"	X
95-47-6	o-Xylene	< 1.0		µg/l	1.0	0.5	1	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 2.0		µg/l	2.0	0.7	1	"	"	"	"	"	
60-29-7	Ethyl ether	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	< 1.0		µg/l	1.0	0.1	1	"	"	"	"	"	X
108-20-3	Di-isopropyl ether	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	< 10.0		µg/l	10.0	7.5	1	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 20.0		µg/l	20.0	12.4	1	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-buten e	< 5.0		µg/l	5.0	1.1	1	"	"	"	"	"	X
64-17-5	Ethanol	< 400		µg/l	400	22.7	1	"	"	"	"	"	X
Surrogate recoveries:													
460-00-4	*4-Bromofluorobenzene*	*97*			*70-130 %*			"	"	"	"	"	
2037-26-5	*Toluene-d8*	*104*			*70-130 %*			"	"	"	"	"	
17060-07-0	*1,2-Dichloroethane-d4*	*108*			*70-130 %*			"	"	"	"	"	
1868-53-7	*Dibromofluoromethane*	*103*			*70-130 %*			"	"	"	"	"	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
EB-20150331	08-14218H	Equipment Blank	31-Mar-15 12:00	31-Mar-15
SC05125-13				

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Volatile Organic Compounds													
Volatile Organic Compounds by SW846 8260 Prepared by method SW846 5030 Water MS													
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 1.0		µg/l	1.0	0.5	1	SW846 8260C	06-Apr-15	07-Apr-15	GMA	1506192	X
67-64-1	Acetone	< 10.0		µg/l	10.0	2.5	1	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 0.5		µg/l	0.5	0.5	1	"	"	"	"	"	X
71-43-2	Benzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
108-86-1	Bromobenzene	< 1.0		µg/l	1.0	0.1	1	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 0.5		µg/l	0.5	0.2	1	"	"	"	"	"	X
75-25-2	Bromoform	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
74-83-9	Bromomethane	< 2.0		µg/l	2.0	0.5	1	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 10.0		µg/l	10.0	1.2	1	"	"	"	"	"	X
104-51-8	n-Butylbenzene	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 2.0		µg/l	2.0	0.3	1	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
75-00-3	Chloroethane	< 2.0		µg/l	2.0	0.4	1	"	"	"	"	"	X
67-66-3	Chloroform	< 1.0		µg/l	1.0	0.4	1	"	"	"	"	"	X
74-87-3	Chloromethane	< 2.0		µg/l	2.0	0.3	1	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 2.0		µg/l	2.0	0.9	1	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 0.5		µg/l	0.5	0.2	1	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 0.5		µg/l	0.5	0.3	1	"	"	"	"	"	X
74-95-3	Dibromomethane	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 2.0		µg/l	2.0	0.6	1	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 1.0		µg/l	1.0	0.1	1	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 1.0		µg/l	1.0	0.7	1	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 0.5		µg/l	0.5	0.2	1	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 0.5		µg/l	0.5	0.3	1	"	"	"	"	"	X
100-41-4	Ethylbenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 0.5		µg/l	0.5	0.4	1	"	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	< 10.0		µg/l	10.0	0.5	1	"	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
EB-20150331	08-14218H	Equipment Blank	31-Mar-15 12:00	31-Mar-15
SC05125-13				

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Volatile Organic Compounds													
Volatile Organic Compounds by SW846 8260 Prepared by method SW846 5030 Water MS													
98-82-8	Isopropylbenzene	< 1.0		µg/l	1.0	0.2	1	SW846 8260C	06-Apr-15	07-Apr-15	GMA	1506192	X
99-87-6	4-Isopropyltoluene	< 1.0		µg/l	1.0	0.4	1	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 10.0		µg/l	10.0	0.7	1	"	"	"	"	"	X
75-09-2	Methylene chloride	< 2.0		µg/l	2.0	0.3	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 1.0		µg/l	1.0	0.4	1	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
100-42-5	Styrene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 0.5		µg/l	0.5	0.3	1	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 1.0		µg/l	1.0	0.6	1	"	"	"	"	"	X
108-88-3	Toluene	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 1.0		µg/l	1.0	0.4	1	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	
71-55-6	1,1,1-Trichloroethane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
79-01-6	Trichloroethene	< 1.0		µg/l	1.0	0.4	1	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 1.0		µg/l	1.0	0.5	1	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 1.0		µg/l	1.0	0.4	1	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 1.0		µg/l	1.0	0.9	1	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 2.0		µg/l	2.0	0.4	1	"	"	"	"	"	X
95-47-6	o-Xylene	< 1.0		µg/l	1.0	0.5	1	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 2.0		µg/l	2.0	0.7	1	"	"	"	"	"	
60-29-7	Ethyl ether	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	< 1.0		µg/l	1.0	0.1	1	"	"	"	"	"	X
108-20-3	Di-isopropyl ether	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	< 10.0		µg/l	10.0	7.5	1	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 20.0		µg/l	20.0	12.4	1	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-buten e	< 5.0		µg/l	5.0	1.1	1	"	"	"	"	"	X
64-17-5	Ethanol	< 400		µg/l	400	22.7	1	"	"	"	"	"	X
Surrogate recoveries:													
460-00-4	*4-Bromofluorobenzene*	*97*			*70-130 %*			"	"	"	"	"	
2037-26-5	*Toluene-d8*	*103*			*70-130 %*			"	"	"	"	"	
17060-07-0	*1,2-Dichloroethane-d4*	*108*			*70-130 %*			"	"	"	"	"	
1868-53-7	*Dibromofluoromethane*	*103*			*70-130 %*			"	"	"	"	"	
Total Metals by EPA 200/6000 Series Methods													
	Preservation	**Field Preserved**		N/A			1	EPA 200/6000 methods			LNB	1505892	
Total Metals by EPA 6000/7000 Series Methods													

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
EB-20150331 SC05125-13	08-14218H	Equipment Blank	31-Mar-15 12:00	31-Mar-15

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Total Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	< 0.0040		mg/l	0.0040	0.0027	1	SW846 6010C	02-Apr-15	06-Apr-15	BJW	1505916	X
7440-39-3	Barium	< 0.0050		mg/l	0.0050	0.0003	1	"	"	"	"	"	X
7440-43-9	Cadmium	< 0.0002	U	mg/l	0.0025	0.0002	1	"	"	"	"	"	X
7440-47-3	Chromium	< 0.0050		mg/l	0.0050	0.0010	1	"	"	"	"	"	X
7440-50-8	Copper	< 0.0050		mg/l	0.0050	0.0035	1	"	"	"	"	"	X
7440-02-0	Nickel	< 0.0050		mg/l	0.0050	0.0014	1	"	"	"	"	"	X
7440-66-6	Zinc	< 0.0050		mg/l	0.0050	0.0006	1	"	"	"	"	"	X
General Chemistry Parameters													
57-12-5	Cyanide (total)	< 0.00500		mg/l	0.00500	0.00442	1	EPA 335.4 / SW846 9012B	07-Apr-15	07-Apr-15	RLT	1506302	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
DUP-20150331	08-14218H	Ground Water	31-Mar-15 00:00	31-Mar-15
SC05125-14				

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Volatile Organic Compounds													
Volatile Organic Compounds by SW846 8260 Prepared by method SW846 5030 Water MS													
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 1.0		µg/l	1.0	0.5	1	SW846 8260C	07-Apr-15	07-Apr-15	GMA	1506298	X
67-64-1	Acetone	< 10.0		µg/l	10.0	2.5	1	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 0.5		µg/l	0.5	0.5	1	"	"	"	"	"	X
71-43-2	Benzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
108-86-1	Bromobenzene	< 1.0		µg/l	1.0	0.1	1	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 0.5		µg/l	0.5	0.2	1	"	"	"	"	"	X
75-25-2	Bromoform	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
74-83-9	Bromomethane	< 2.0		µg/l	2.0	0.5	1	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 10.0		µg/l	10.0	1.2	1	"	"	"	"	"	X
104-51-8	n-Butylbenzene	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 2.0		µg/l	2.0	0.3	1	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
75-00-3	Chloroethane	< 2.0		µg/l	2.0	0.4	1	"	"	"	"	"	X
67-66-3	Chloroform	< 1.0		µg/l	1.0	0.4	1	"	"	"	"	"	X
74-87-3	Chloromethane	< 2.0		µg/l	2.0	0.3	1	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 2.0		µg/l	2.0	0.9	1	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 0.5		µg/l	0.5	0.2	1	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 0.5		µg/l	0.5	0.3	1	"	"	"	"	"	X
74-95-3	Dibromomethane	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 2.0		µg/l	2.0	0.6	1	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	**16.6**		µg/l	1.0	0.2	1	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 1.0		µg/l	1.0	0.1	1	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 1.0		µg/l	1.0	0.7	1	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 0.5		µg/l	0.5	0.2	1	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 0.5		µg/l	0.5	0.3	1	"	"	"	"	"	X
100-41-4	Ethylbenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 0.5		µg/l	0.5	0.4	1	"	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	< 10.0		µg/l	10.0	0.5	1	"	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
DUP-20150331	08-14218H	Ground Water	31-Mar-15 00:00	31-Mar-15
SC05125-14				

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Volatile Organic Compounds													
Volatile Organic Compounds by SW846 8260 Prepared by method SW846 5030 Water MS													
98-82-8	Isopropylbenzene	< 1.0		µg/l	1.0	0.2	1	SW846 8260C	07-Apr-15	07-Apr-15	GMA	1506298	X
99-87-6	4-Isopropyltoluene	< 1.0		µg/l	1.0	0.4	1	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 10.0		µg/l	10.0	0.7	1	"	"	"	"	"	X
75-09-2	Methylene chloride	< 2.0		µg/l	2.0	0.3	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 1.0		µg/l	1.0	0.4	1	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
100-42-5	Styrene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 0.5		µg/l	0.5	0.3	1	"	"	"	"	"	X
127-18-4	Tetrachloroethene	**5.3**		µg/l	1.0	0.6	1	"	"	"	"	"	X
108-88-3	Toluene	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 1.0		µg/l	1.0	0.4	1	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	
71-55-6	1,1,1-Trichloroethane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
79-01-6	Trichloroethene	**6.6**		µg/l	1.0	0.4	1	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 1.0		µg/l	1.0	0.5	1	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 1.0		µg/l	1.0	0.4	1	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 1.0		µg/l	1.0	0.9	1	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 2.0		µg/l	2.0	0.4	1	"	"	"	"	"	X
95-47-6	o-Xylene	< 1.0		µg/l	1.0	0.5	1	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 2.0		µg/l	2.0	0.7	1	"	"	"	"	"	
60-29-7	Ethyl ether	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	< 1.0		µg/l	1.0	0.1	1	"	"	"	"	"	X
108-20-3	Di-isopropyl ether	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	< 10.0		µg/l	10.0	7.5	1	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 20.0		µg/l	20.0	12.4	1	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-buten e	< 5.0		µg/l	5.0	1.1	1	"	"	"	"	"	X
64-17-5	Ethanol	< 400		µg/l	400	22.7	1	"	"	"	"	"	X
Surrogate recoveries:													
460-00-4	*4-Bromofluorobenzene*	*96*			*70-130 %*			"	"	"	"	"	
2037-26-5	*Toluene-d8*	*102*			*70-130 %*			"	"	"	"	"	
17060-07-0	*1,2-Dichloroethane-d4*	*109*			*70-130 %*			"	"	"	"	"	
1868-53-7	*Dibromofluoromethane*	*101*			*70-130 %*			"	"	"	"	"	
Total Metals by EPA 200/6000 Series Methods													
	Preservation	**Field Preserved**		N/A			1	EPA 200/6000 methods			LNB	1505892	
Total Metals by EPA 6000/7000 Series Methods													

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
DUP-20150331 SC05125-14	08-14218H	Ground Water	31-Mar-15 00:00	31-Mar-15

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Total Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	< 0.0040		mg/l	0.0040	0.0027	1	SW846 6010C	02-Apr-15	06-Apr-15	BJW	1505916	X
7440-39-3	Barium	**0.0740**		mg/l	0.0050	0.0003	1	"	"	"	"	"	X
7440-43-9	Cadmium	**0.0011**	J	mg/l	0.0025	0.0002	1	"	"	"	"	"	X
7440-47-3	Chromium	< 0.0050		mg/l	0.0050	0.0010	1	"	"	"	"	"	X
7440-50-8	Copper	**0.0222**		mg/l	0.0050	0.0035	1	"	"	"	"	"	X
7440-02-0	Nickel	**0.0338**		mg/l	0.0050	0.0014	1	"	"	"	"	"	X
7440-66-6	Zinc	**0.0960**		mg/l	0.0050	0.0006	1	"	"	"	"	"	X
General Chemistry Parameters													
57-12-5	Cyanide (total)	< 0.00500		mg/l	0.00500	0.00442	1	EPA 335.4 / SW846 9012B	07-Apr-15	07-Apr-15	RLT	1506302	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MW-41S/20150331	08-14218H	Ground Water	31-Mar-15 10:00	31-Mar-15
SC05125-15				

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Volatile Organic Compounds													
Volatile Organic Compounds by SW846 8260 Prepared by method SW846 5030 Water MS													
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 1.0		µg/l	1.0	0.5	1	SW846 8260C	06-Apr-15	07-Apr-15	GMA	1506192	X
67-64-1	Acetone	< 10.0		µg/l	10.0	2.5	1	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 0.5		µg/l	0.5	0.5	1	"	"	"	"	"	X
71-43-2	Benzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
108-86-1	Bromobenzene	< 1.0		µg/l	1.0	0.1	1	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 0.5		µg/l	0.5	0.2	1	"	"	"	"	"	X
75-25-2	Bromoform	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
74-83-9	Bromomethane	< 2.0		µg/l	2.0	0.5	1	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 10.0		µg/l	10.0	1.2	1	"	"	"	"	"	X
104-51-8	n-Butylbenzene	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 2.0		µg/l	2.0	0.3	1	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
75-00-3	Chloroethane	< 2.0		µg/l	2.0	0.4	1	"	"	"	"	"	X
67-66-3	Chloroform	< 1.0		µg/l	1.0	0.4	1	"	"	"	"	"	X
74-87-3	Chloromethane	< 2.0		µg/l	2.0	0.3	1	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 2.0		µg/l	2.0	0.9	1	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 0.5		µg/l	0.5	0.2	1	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 0.5		µg/l	0.5	0.3	1	"	"	"	"	"	X
74-95-3	Dibromomethane	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 2.0		µg/l	2.0	0.6	1	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	**2.7**		µg/l	1.0	0.2	1	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 1.0		µg/l	1.0	0.1	1	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 1.0		µg/l	1.0	0.7	1	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 0.5		µg/l	0.5	0.2	1	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 0.5		µg/l	0.5	0.3	1	"	"	"	"	"	X
100-41-4	Ethylbenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 0.5		µg/l	0.5	0.4	1	"	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	< 10.0		µg/l	10.0	0.5	1	"	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MW-41S/20150331	08-14218H	Ground Water	31-Mar-15 10:00	31-Mar-15
SC05125-15				

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Volatile Organic Compounds													
Volatile Organic Compounds by SW846 8260 Prepared by method SW846 5030 Water MS													
98-82-8	Isopropylbenzene	< 1.0		µg/l	1.0	0.2	1	SW846 8260C	06-Apr-15	07-Apr-15	GMA	1506192	X
99-87-6	4-Isopropyltoluene	< 1.0		µg/l	1.0	0.4	1	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 10.0		µg/l	10.0	0.7	1	"	"	"	"	"	X
75-09-2	Methylene chloride	< 2.0		µg/l	2.0	0.3	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 1.0		µg/l	1.0	0.4	1	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
100-42-5	Styrene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 0.5		µg/l	0.5	0.3	1	"	"	"	"	"	X
127-18-4	Tetrachloroethene	**1.4**		µg/l	1.0	0.6	1	"	"	"	"	"	X
108-88-3	Toluene	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 1.0		µg/l	1.0	0.4	1	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	
71-55-6	1,1,1-Trichloroethane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
79-01-6	Trichloroethene	**1.4**		µg/l	1.0	0.4	1	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 1.0		µg/l	1.0	0.5	1	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 1.0		µg/l	1.0	0.4	1	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 1.0		µg/l	1.0	0.9	1	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 2.0		µg/l	2.0	0.4	1	"	"	"	"	"	X
95-47-6	o-Xylene	< 1.0		µg/l	1.0	0.5	1	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 2.0		µg/l	2.0	0.7	1	"	"	"	"	"	
60-29-7	Ethyl ether	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	< 1.0		µg/l	1.0	0.1	1	"	"	"	"	"	X
108-20-3	Di-isopropyl ether	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	< 10.0		µg/l	10.0	7.5	1	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 20.0		µg/l	20.0	12.4	1	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-buten e	< 5.0		µg/l	5.0	1.1	1	"	"	"	"	"	X
64-17-5	Ethanol	< 400		µg/l	400	22.7	1	"	"	"	"	"	X
Surrogate recoveries:													
460-00-4	*4-Bromofluorobenzene*	*96*			*70-130 %*			"	"	"	"	"	
2037-26-5	*Toluene-d8*	*103*			*70-130 %*			"	"	"	"	"	
17060-07-0	*1,2-Dichloroethane-d4*	*108*			*70-130 %*			"	"	"	"	"	
1868-53-7	*Dibromofluoromethane*	*105*			*70-130 %*			"	"	"	"	"	
Total Metals by EPA 200/6000 Series Methods													
	Preservation	**Field Preserved**		N/A			1	EPA 200/6000 methods			LNB	1505892	
Total Metals by EPA 6000/7000 Series Methods													

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Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MW-41S/20150331 SC05125-15	08-14218H	Ground Water	31-Mar-15 10:00	31-Mar-15

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Total Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	< 0.0040		mg/l	0.0040	0.0027	1	SW846 6010C	02-Apr-15	06-Apr-15	BJW	1505916	X
7440-39-3	Barium	**0.0577**		mg/l	0.0050	0.0003	1	"	"	"	"	"	X
7440-43-9	Cadmium	**0.0004**	J	mg/l	0.0025	0.0002	1	"	"	"	"	"	X
7440-47-3	Chromium	< 0.0050		mg/l	0.0050	0.0010	1	"	"	"	"	"	X
7440-50-8	Copper	**0.0128**		mg/l	0.0050	0.0035	1	"	"	"	"	"	X
7440-02-0	Nickel	< 0.0050		mg/l	0.0050	0.0014	1	"	"	"	"	"	X
7440-66-6	Zinc	**0.0380**		mg/l	0.0050	0.0006	1	"	"	"	"	"	X
General Chemistry Parameters													
57-12-5	Cyanide (total)	< 0.00500		mg/l	0.00500	0.00442	1	EPA 335.4 / SW846 9012B	07-Apr-15	07-Apr-15	RLT	1506302	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MW-41D/20150331	08-14218H	Ground Water	31-Mar-15 11:00	31-Mar-15
SC05125-16				

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Volatile Organic Compounds													
Volatile Organic Compounds by SW846 8260 Prepared by method SW846 5030 Water MS													
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 1.0		µg/l	1.0	0.5	1	SW846 8260C	06-Apr-15	07-Apr-15	GMA	1506192	X
67-64-1	Acetone	< 10.0		µg/l	10.0	2.5	1	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 0.5		µg/l	0.5	0.5	1	"	"	"	"	"	X
71-43-2	Benzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
108-86-1	Bromobenzene	< 1.0		µg/l	1.0	0.1	1	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 0.5		µg/l	0.5	0.2	1	"	"	"	"	"	X
75-25-2	Bromoform	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
74-83-9	Bromomethane	< 2.0		µg/l	2.0	0.5	1	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 10.0		µg/l	10.0	1.2	1	"	"	"	"	"	X
104-51-8	n-Butylbenzene	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 2.0		µg/l	2.0	0.3	1	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
75-00-3	Chloroethane	< 2.0		µg/l	2.0	0.4	1	"	"	"	"	"	X
67-66-3	Chloroform	< 1.0		µg/l	1.0	0.4	1	"	"	"	"	"	X
74-87-3	Chloromethane	< 2.0		µg/l	2.0	0.3	1	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 2.0		µg/l	2.0	0.9	1	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 0.5		µg/l	0.5	0.2	1	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 0.5		µg/l	0.5	0.3	1	"	"	"	"	"	X
74-95-3	Dibromomethane	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 2.0		µg/l	2.0	0.6	1	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	**39.3**		µg/l	1.0	0.2	1	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 1.0		µg/l	1.0	0.1	1	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 1.0		µg/l	1.0	0.7	1	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 0.5		µg/l	0.5	0.2	1	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 0.5		µg/l	0.5	0.3	1	"	"	"	"	"	X
100-41-4	Ethylbenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 0.5		µg/l	0.5	0.4	1	"	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	< 10.0		µg/l	10.0	0.5	1	"	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MW-41D/20150331 SC05125-16	08-14218H	Ground Water	31-Mar-15 11:00	31-Mar-15

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Volatile Organic Compounds													
Volatile Organic Compounds by SW846 8260 Prepared by method SW846 5030 Water MS													
98-82-8	Isopropylbenzene	< 1.0		µg/l	1.0	0.2	1	SW846 8260C	06-Apr-15	07-Apr-15	GMA	1506192	X
99-87-6	4-Isopropyltoluene	< 1.0		µg/l	1.0	0.4	1	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 10.0		µg/l	10.0	0.7	1	"	"	"	"	"	X
75-09-2	Methylene chloride	< 2.0		µg/l	2.0	0.3	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 1.0		µg/l	1.0	0.4	1	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
100-42-5	Styrene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 0.5		µg/l	0.5	0.3	1	"	"	"	"	"	X
127-18-4	Tetrachloroethene	**8.0**		µg/l	1.0	0.6	1	"	"	"	"	"	X
108-88-3	Toluene	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 1.0		µg/l	1.0	0.4	1	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	
71-55-6	1,1,1-Trichloroethane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
79-01-6	Trichloroethene	**13.1**		µg/l	1.0	0.4	1	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 1.0		µg/l	1.0	0.5	1	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 1.0		µg/l	1.0	0.4	1	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 1.0		µg/l	1.0	0.9	1	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 2.0		µg/l	2.0	0.4	1	"	"	"	"	"	X
95-47-6	o-Xylene	< 1.0		µg/l	1.0	0.5	1	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 2.0		µg/l	2.0	0.7	1	"	"	"	"	"	
60-29-7	Ethyl ether	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	< 1.0		µg/l	1.0	0.1	1	"	"	"	"	"	X
108-20-3	Di-isopropyl ether	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	< 10.0		µg/l	10.0	7.5	1	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 20.0		µg/l	20.0	12.4	1	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-buten e	< 5.0		µg/l	5.0	1.1	1	"	"	"	"	"	X
64-17-5	Ethanol	< 400		µg/l	400	22.7	1	"	"	"	"	"	X
Surrogate recoveries:													
460-00-4	*4-Bromofluorobenzene*	*98*			*70-130 %*			"	"	"	"	"	
2037-26-5	*Toluene-d8*	*103*			*70-130 %*			"	"	"	"	"	
17060-07-0	*1,2-Dichloroethane-d4*	*108*			*70-130 %*			"	"	"	"	"	
1868-53-7	*Dibromofluoromethane*	*105*			*70-130 %*			"	"	"	"	"	
Total Metals by EPA 200/6000 Series Methods													
	Preservation	**Field Preserved**		N/A			1	EPA 200/6000 methods			LNB	1505892	
Total Metals by EPA 6000/7000 Series Methods													

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Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MW-41D/20150331 SC05125-16	08-14218H	Ground Water	31-Mar-15 11:00	31-Mar-15

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Total Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	< 0.0040		mg/l	0.0040	0.0027	1	SW846 6010C	02-Apr-15	06-Apr-15	BJW	1505916	X
7440-39-3	Barium	**0.0622**		mg/l	0.0050	0.0003	1	"	"	"	"	"	X
7440-43-9	Cadmium	**0.0003**	J	mg/l	0.0025	0.0002	1	"	"	"	"	"	X
7440-47-3	Chromium	< 0.0050		mg/l	0.0050	0.0010	1	"	"	"	"	"	X
7440-50-8	Copper	< 0.0050		mg/l	0.0050	0.0035	1	"	"	"	"	"	X
7440-02-0	Nickel	< 0.0050		mg/l	0.0050	0.0014	1	"	"	"	"	"	X
7440-66-6	Zinc	< 0.0050		mg/l	0.0050	0.0006	1	"	"	"	"	"	X
General Chemistry Parameters													
57-12-5	Cyanide (total)	< 0.00500		mg/l	0.00500	0.00442	1	EPA 335.4 / SW846 9012B	07-Apr-15	07-Apr-15	RLT	1506302	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MW-31S/20150331	08-14218H	Ground Water	31-Mar-15 12:35	31-Mar-15
SC05125-17				

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Volatile Organic Compounds													
Volatile Organic Compounds by SW846 8260 Prepared by method SW846 5030 Water MS			GS1										
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 500	D	µg/l	500	266	500	SW846 8260C	06-Apr-15	07-Apr-15	GMA	1506192	X
67-64-1	Acetone	< 5000	D	µg/l	5000	1240	500	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 250	D	µg/l	250	235	500	"	"	"	"	"	X
71-43-2	Benzene	< 500	D	µg/l	500	87.0	500	"	"	"	"	"	X
108-86-1	Bromobenzene	< 500	D	µg/l	500	55.5	500	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 500	D	µg/l	500	134	500	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 250	D	µg/l	250	89.0	500	"	"	"	"	"	X
75-25-2	Bromoform	< 500	D	µg/l	500	146	500	"	"	"	"	"	X
74-83-9	Bromomethane	< 1000	D	µg/l	1000	250	500	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	**7,300**	D	µg/l	5000	622	500	"	"	"	"	"	X
104-51-8	n-Butylbenzene	< 500	D	µg/l	500	132	500	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 500	D	µg/l	500	82.5	500	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 500	D	µg/l	500	106	500	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 1000	D	µg/l	1000	126	500	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 500	D	µg/l	500	113	500	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 500	D	µg/l	500	98.5	500	"	"	"	"	"	X
75-00-3	Chloroethane	< 1000	D	µg/l	1000	193	500	"	"	"	"	"	X
67-66-3	Chloroform	< 500	D	µg/l	500	204	500	"	"	"	"	"	X
74-87-3	Chloromethane	< 1000	D	µg/l	1000	172	500	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 500	D	µg/l	500	151	500	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 500	D	µg/l	500	102	500	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 1000	D	µg/l	1000	432	500	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 250	D	µg/l	250	122	500	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 250	D	µg/l	250	130	500	"	"	"	"	"	X
74-95-3	Dibromomethane	< 500	D	µg/l	500	128	500	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 500	D	µg/l	500	79.0	500	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 500	D	µg/l	500	110	500	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 500	D	µg/l	500	124	500	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 1000	D	µg/l	1000	292	500	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 500	D	µg/l	500	84.0	500	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 500	D	µg/l	500	81.0	500	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 500	D	µg/l	500	139	500	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	**2,930**	D	µg/l	500	117	500	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 500	D	µg/l	500	104	500	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 500	D	µg/l	500	74.5	500	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 500	D	µg/l	500	108	500	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 500	D	µg/l	500	335	500	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 500	D	µg/l	500	140	500	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 250	D	µg/l	250	100	500	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 250	D	µg/l	250	134	500	"	"	"	"	"	X
100-41-4	Ethylbenzene	**3,170**	D	µg/l	500	86.0	500	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 250	D	µg/l	250	201	500	"	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	< 5000	D	µg/l	5000	268	500	"	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MW-31S/20150331	08-14218H	Ground Water	31-Mar-15 12:35	31-Mar-15
SC05125-17				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Volatile Organic Compounds													
Volatile Organic Compounds by SW846 8260 Prepared by method SW846 5030 Water MS			GS1										
98-82-8	Isopropylbenzene	< 500	D	µg/l	500	117	500	SW846 8260C	06-Apr-15	07-Apr-15	GMA	1506192	X
99-87-6	4-Isopropyltoluene	< 500	D	µg/l	500	188	500	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 500	D	µg/l	500	86.0	500	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	**17,700**	D	µg/l	5000	368	500	"	"	"	"	"	X
75-09-2	Methylene chloride	< 1000	D	µg/l	1000	144	500	"	"	"	"	"	X
91-20-3	Naphthalene	< 500	D	µg/l	500	200	500	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 500	D	µg/l	500	108	500	"	"	"	"	"	X
100-42-5	Styrene	< 500	D	µg/l	500	90.0	500	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 500	D	µg/l	500	119	500	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 250	D	µg/l	250	160	500	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 500	D	µg/l	500	286	500	"	"	"	"	"	X
108-88-3	Toluene	**11,500**	D	µg/l	500	163	500	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 500	D	µg/l	500	126	500	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 500	D	µg/l	500	189	500	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 500	D	µg/l	500	101	500	"	"	"	"	"	
71-55-6	1,1,1-Trichloroethane	< 500	D	µg/l	500	103	500	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 500	D	µg/l	500	96.5	500	"	"	"	"	"	X
79-01-6	Trichloroethene	< 500	D	µg/l	500	190	500	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 500	D	µg/l	500	244	500	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 500	D	µg/l	500	102	500	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 500	D	µg/l	500	200	500	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 500	D	µg/l	500	444	500	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 500	D	µg/l	500	170	500	"	"	"	"	"	X
179601-23-1	m,p-Xylene	**6,360**	D	µg/l	1000	190	500	"	"	"	"	"	X
95-47-6	o-Xylene	**2,620**	D	µg/l	500	236	500	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 1000	D	µg/l	1000	362	500	"	"	"	"	"	
60-29-7	Ethyl ether	< 500	D	µg/l	500	98.0	500	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 500	D	µg/l	500	173	500	"	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	< 500	D	µg/l	500	73.0	500	"	"	"	"	"	X
108-20-3	Di-isopropyl ether	< 500	D	µg/l	500	108	500	"	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	< 5000	D	µg/l	5000	3740	500	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 10000	D	µg/l	10000	6200	500	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-buten e	< 2500	D	µg/l	2500	557	500	"	"	"	"	"	X
64-17-5	Ethanol	< 200000	D	µg/l	200000	11400	500	"	"	"	"	"	X
Surrogate recoveries:													
460-00-4	*4-Bromofluorobenzene*	*99*			*70-130 %*			"	"	"	"	"	
2037-26-5	*Toluene-d8*	*106*			*70-130 %*			"	"	"	"	"	
17060-07-0	*1,2-Dichloroethane-d4*	*109*			*70-130 %*			"	"	"	"	"	
1868-53-7	*Dibromofluoromethane*	*105*			*70-130 %*			"	"	"	"	"	
Total Metals by EPA 200/6000 Series Methods													
	Preservation	**Field Preserved**		N/A			1	EPA 200/6000 methods			LNB	1505892	
Total Metals by EPA 6000/7000 Series Methods													

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Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MW-31S/20150331 SC05125-17	08-14218H	Ground Water	31-Mar-15 12:35	31-Mar-15

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Total Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	< 0.0040		mg/l	0.0040	0.0027	1	SW846 6010C	02-Apr-15	06-Apr-15	BJW	1505916	X
7440-39-3	Barium	**0.163**		mg/l	0.0050	0.0003	1	"	"	"	"	"	X
7440-43-9	Cadmium	< 0.0002	U	mg/l	0.0025	0.0002	1	"	"	"	"	"	X
7440-47-3	Chromium	**0.0454**		mg/l	0.0050	0.0010	1	"	"	"	"	"	X
7440-50-8	Copper	**0.0179**		mg/l	0.0050	0.0035	1	"	"	"	"	"	X
7440-02-0	Nickel	**0.122**		mg/l	0.0050	0.0014	1	"	"	"	"	"	X
7440-66-6	Zinc	**1.38**		mg/l	0.0050	0.0006	1	"	"	"	"	"	X
General Chemistry Parameters													
57-12-5	Cyanide (total)	< 0.00500		mg/l	0.00500	0.00442	1	EPA 335.4 / SW846 9012B	07-Apr-15	07-Apr-15	RLT	1506302	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MW-50S/20150331	08-14218H	Ground Water	31-Mar-15 08:30	31-Mar-15
SC05125-18				

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Volatile Organic Compounds													
Volatile Organic Compounds by SW846 8260 Prepared by method SW846 5030 Water MS			GS1										
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 5.0	D	µg/l	5.0	2.7	5	SW846 8260C	06-Apr-15	07-Apr-15	GMA	1506192	X
67-64-1	Acetone	< 50.0	D	µg/l	50.0	12.4	5	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 2.5	D	µg/l	2.5	2.4	5	"	"	"	"	"	X
71-43-2	Benzene	< 5.0	D	µg/l	5.0	0.9	5	"	"	"	"	"	X
108-86-1	Bromobenzene	< 5.0	D	µg/l	5.0	0.6	5	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 5.0	D	µg/l	5.0	1.3	5	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 2.5	D	µg/l	2.5	0.9	5	"	"	"	"	"	X
75-25-2	Bromoform	< 5.0	D	µg/l	5.0	1.5	5	"	"	"	"	"	X
74-83-9	Bromomethane	< 10.0	D	µg/l	10.0	2.5	5	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 50.0	D	µg/l	50.0	6.2	5	"	"	"	"	"	X
104-51-8	n-Butylbenzene	< 5.0	D	µg/l	5.0	1.3	5	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 5.0	D	µg/l	5.0	0.8	5	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 5.0	D	µg/l	5.0	1.1	5	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 10.0	D	µg/l	10.0	1.3	5	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 5.0	D	µg/l	5.0	1.1	5	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 5.0	D	µg/l	5.0	1.0	5	"	"	"	"	"	X
75-00-3	Chloroethane	< 10.0	D	µg/l	10.0	1.9	5	"	"	"	"	"	X
67-66-3	Chloroform	< 5.0	D	µg/l	5.0	2.0	5	"	"	"	"	"	X
74-87-3	Chloromethane	< 10.0	D	µg/l	10.0	1.7	5	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 5.0	D	µg/l	5.0	1.5	5	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 5.0	D	µg/l	5.0	1.0	5	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 10.0	D	µg/l	10.0	4.3	5	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 2.5	D	µg/l	2.5	1.2	5	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 2.5	D	µg/l	2.5	1.3	5	"	"	"	"	"	X
74-95-3	Dibromomethane	< 5.0	D	µg/l	5.0	1.3	5	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 5.0	D	µg/l	5.0	0.8	5	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 5.0	D	µg/l	5.0	1.1	5	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 5.0	D	µg/l	5.0	1.2	5	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 10.0	D	µg/l	10.0	2.9	5	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 5.0	D	µg/l	5.0	0.8	5	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 5.0	D	µg/l	5.0	0.8	5	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 5.0	D	µg/l	5.0	1.4	5	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	**87.1**	D	µg/l	5.0	1.2	5	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 5.0	D	µg/l	5.0	1.0	5	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 5.0	D	µg/l	5.0	0.7	5	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 5.0	D	µg/l	5.0	1.1	5	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 5.0	D	µg/l	5.0	3.4	5	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 5.0	D	µg/l	5.0	1.4	5	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 2.5	D	µg/l	2.5	1.0	5	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 2.5	D	µg/l	2.5	1.3	5	"	"	"	"	"	X
100-41-4	Ethylbenzene	< 5.0	D	µg/l	5.0	0.9	5	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 2.5	D	µg/l	2.5	2.0	5	"	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	< 50.0	D	µg/l	50.0	2.7	5	"	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MW-50S/20150331	08-14218H	Ground Water	31-Mar-15 08:30	31-Mar-15
SC05125-18				

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Volatile Organic Compounds													
Volatile Organic Compounds by SW846 8260 Prepared by method SW846 5030 Water MS			GS1										
98-82-8	Isopropylbenzene	< 5.0	D	µg/l	5.0	1.2	5	SW846 8260C	06-Apr-15	07-Apr-15	GMA	1506192	X
99-87-6	4-Isopropyltoluene	< 5.0	D	µg/l	5.0	1.9	5	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 5.0	D	µg/l	5.0	0.9	5	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 50.0	D	µg/l	50.0	3.7	5	"	"	"	"	"	X
75-09-2	Methylene chloride	< 10.0	D	µg/l	10.0	1.4	5	"	"	"	"	"	X
91-20-3	Naphthalene	< 5.0	D	µg/l	5.0	2.0	5	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 5.0	D	µg/l	5.0	1.1	5	"	"	"	"	"	X
100-42-5	Styrene	< 5.0	D	µg/l	5.0	0.9	5	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 5.0	D	µg/l	5.0	1.2	5	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 2.5	D	µg/l	2.5	1.6	5	"	"	"	"	"	X
127-18-4	Tetrachloroethene	**26.3**	D	µg/l	5.0	2.9	5	"	"	"	"	"	X
108-88-3	Toluene	< 5.0	D	µg/l	5.0	1.6	5	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 5.0	D	µg/l	5.0	1.3	5	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 5.0	D	µg/l	5.0	1.9	5	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 5.0	D	µg/l	5.0	1.0	5	"	"	"	"	"	
71-55-6	1,1,1-Trichloroethane	< 5.0	D	µg/l	5.0	1.0	5	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 5.0	D	µg/l	5.0	1.0	5	"	"	"	"	"	X
79-01-6	Trichloroethene	**32.0**	D	µg/l	5.0	1.9	5	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 5.0	D	µg/l	5.0	2.4	5	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 5.0	D	µg/l	5.0	1.0	5	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 5.0	D	µg/l	5.0	2.0	5	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 5.0	D	µg/l	5.0	4.4	5	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 5.0	D	µg/l	5.0	1.7	5	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 10.0	D	µg/l	10.0	1.9	5	"	"	"	"	"	X
95-47-6	o-Xylene	< 5.0	D	µg/l	5.0	2.4	5	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 10.0	D	µg/l	10.0	3.6	5	"	"	"	"	"	
60-29-7	Ethyl ether	< 5.0	D	µg/l	5.0	1.0	5	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 5.0	D	µg/l	5.0	1.7	5	"	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	< 5.0	D	µg/l	5.0	0.7	5	"	"	"	"	"	X
108-20-3	Di-isopropyl ether	< 5.0	D	µg/l	5.0	1.1	5	"	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	< 50.0	D	µg/l	50.0	37.4	5	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 100	D	µg/l	100	62.0	5	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-buten e	< 25.0	D	µg/l	25.0	5.6	5	"	"	"	"	"	X
64-17-5	Ethanol	< 2000	D	µg/l	2000	114	5	"	"	"	"	"	X
Surrogate recoveries:													
460-00-4	*4-Bromofluorobenzene*	*96*			*70-130 %*			"	"	"	"	"	
2037-26-5	*Toluene-d8*	*103*			*70-130 %*			"	"	"	"	"	
17060-07-0	*1,2-Dichloroethane-d4*	*110*			*70-130 %*			"	"	"	"	"	
1868-53-7	*Dibromofluoromethane*	*104*			*70-130 %*			"	"	"	"	"	
Total Metals by EPA 200/6000 Series Methods													
	Preservation	**Field Preserved**		N/A			1	EPA 200/6000 methods			LNB	1505892	
Total Metals by EPA 6000/7000 Series Methods													

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Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MW-50S/20150331 SC05125-18	08-14218H	Ground Water	31-Mar-15 08:30	31-Mar-15

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Total Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	< 0.0040		mg/l	0.0040	0.0027	1	SW846 6010C	02-Apr-15	06-Apr-15	BJW	1505916	X
7440-39-3	Barium	**0.0555**		mg/l	0.0050	0.0003	1	"	"	"	"	"	X
7440-43-9	Cadmium	**0.0006**	J	mg/l	0.0025	0.0002	1	"	"	"	"	"	X
7440-47-3	Chromium	< 0.0050		mg/l	0.0050	0.0010	1	"	"	"	"	"	X
7440-50-8	Copper	< 0.0050		mg/l	0.0050	0.0035	1	"	"	"	"	"	X
7440-02-0	Nickel	**0.0070**		mg/l	0.0050	0.0014	1	"	"	"	"	"	X
7440-66-6	Zinc	**0.0568**		mg/l	0.0050	0.0006	1	"	"	"	"	"	X
General Chemistry Parameters													
57-12-5	Cyanide (total)	< 0.00500		mg/l	0.00500	0.00442	1	EPA 335.4 / SW846 9012B	07-Apr-15	07-Apr-15	RLT	1506302	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MW-53D/20150331	08-14218H	Ground Water	31-Mar-15 10:55	31-Mar-15
SC05125-19				

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Volatile Organic Compounds													
Volatile Organic Compounds by SW846 8260 Prepared by method SW846 5030 Water MS			GS1										
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 5.0	D	µg/l	5.0	2.7	5	SW846 8260C	07-Apr-15	07-Apr-15	GMA	1506298	X
67-64-1	Acetone	< 50.0	D	µg/l	50.0	12.4	5	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 2.5	D	µg/l	2.5	2.4	5	"	"	"	"	"	X
71-43-2	Benzene	< 5.0	D	µg/l	5.0	0.9	5	"	"	"	"	"	X
108-86-1	Bromobenzene	< 5.0	D	µg/l	5.0	0.6	5	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 5.0	D	µg/l	5.0	1.3	5	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 2.5	D	µg/l	2.5	0.9	5	"	"	"	"	"	X
75-25-2	Bromoform	< 5.0	D	µg/l	5.0	1.5	5	"	"	"	"	"	X
74-83-9	Bromomethane	< 10.0	D	µg/l	10.0	2.5	5	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 50.0	D	µg/l	50.0	6.2	5	"	"	"	"	"	X
104-51-8	n-Butylbenzene	< 5.0	D	µg/l	5.0	1.3	5	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 5.0	D	µg/l	5.0	0.8	5	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 5.0	D	µg/l	5.0	1.1	5	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 10.0	D	µg/l	10.0	1.3	5	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 5.0	D	µg/l	5.0	1.1	5	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 5.0	D	µg/l	5.0	1.0	5	"	"	"	"	"	X
75-00-3	Chloroethane	< 10.0	D	µg/l	10.0	1.9	5	"	"	"	"	"	X
67-66-3	Chloroform	< 5.0	D	µg/l	5.0	2.0	5	"	"	"	"	"	X
74-87-3	Chloromethane	< 10.0	D	µg/l	10.0	1.7	5	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 5.0	D	µg/l	5.0	1.5	5	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 5.0	D	µg/l	5.0	1.0	5	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 10.0	D	µg/l	10.0	4.3	5	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 2.5	D	µg/l	2.5	1.2	5	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 2.5	D	µg/l	2.5	1.3	5	"	"	"	"	"	X
74-95-3	Dibromomethane	< 5.0	D	µg/l	5.0	1.3	5	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 5.0	D	µg/l	5.0	0.8	5	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 5.0	D	µg/l	5.0	1.1	5	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 5.0	D	µg/l	5.0	1.2	5	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 10.0	D	µg/l	10.0	2.9	5	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 5.0	D	µg/l	5.0	0.8	5	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 5.0	D	µg/l	5.0	0.8	5	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 5.0	D	µg/l	5.0	1.4	5	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	**170**	D	µg/l	5.0	1.2	5	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 5.0	D	µg/l	5.0	1.0	5	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 5.0	D	µg/l	5.0	0.7	5	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 5.0	D	µg/l	5.0	1.1	5	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 5.0	D	µg/l	5.0	3.4	5	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 5.0	D	µg/l	5.0	1.4	5	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 2.5	D	µg/l	2.5	1.0	5	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 2.5	D	µg/l	2.5	1.3	5	"	"	"	"	"	X
100-41-4	Ethylbenzene	< 5.0	D	µg/l	5.0	0.9	5	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 2.5	D	µg/l	2.5	2.0	5	"	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	< 50.0	D	µg/l	50.0	2.7	5	"	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MW-53D/20150331	08-14218H	Ground Water	31-Mar-15 10:55	31-Mar-15
SC05125-19				

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Volatile Organic Compounds													
Volatile Organic Compounds by SW846 8260 Prepared by method SW846 5030 Water MS			GS1										
98-82-8	Isopropylbenzene	< 5.0	D	µg/l	5.0	1.2	5	SW846 8260C	07-Apr-15	07-Apr-15	GMA	1506298	X
99-87-6	4-Isopropyltoluene	< 5.0	D	µg/l	5.0	1.9	5	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 5.0	D	µg/l	5.0	0.9	5	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 50.0	D	µg/l	50.0	3.7	5	"	"	"	"	"	X
75-09-2	Methylene chloride	< 10.0	D	µg/l	10.0	1.4	5	"	"	"	"	"	X
91-20-3	Naphthalene	< 5.0	D	µg/l	5.0	2.0	5	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 5.0	D	µg/l	5.0	1.1	5	"	"	"	"	"	X
100-42-5	Styrene	< 5.0	D	µg/l	5.0	0.9	5	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 5.0	D	µg/l	5.0	1.2	5	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 2.5	D	µg/l	2.5	1.6	5	"	"	"	"	"	X
127-18-4	Tetrachloroethene	**37.5**	D	µg/l	5.0	2.9	5	"	"	"	"	"	X
108-88-3	Toluene	< 5.0	D	µg/l	5.0	1.6	5	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 5.0	D	µg/l	5.0	1.3	5	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 5.0	D	µg/l	5.0	1.9	5	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 5.0	D	µg/l	5.0	1.0	5	"	"	"	"	"	
71-55-6	1,1,1-Trichloroethane	< 5.0	D	µg/l	5.0	1.0	5	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 5.0	D	µg/l	5.0	1.0	5	"	"	"	"	"	X
79-01-6	Trichloroethene	**57.2**	D	µg/l	5.0	1.9	5	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 5.0	D	µg/l	5.0	2.4	5	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 5.0	D	µg/l	5.0	1.0	5	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 5.0	D	µg/l	5.0	2.0	5	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 5.0	D	µg/l	5.0	4.4	5	"	"	"	"	"	X
75-01-4	Vinyl chloride	**7.6**	D	µg/l	5.0	1.7	5	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 10.0	D	µg/l	10.0	1.9	5	"	"	"	"	"	X
95-47-6	o-Xylene	< 5.0	D	µg/l	5.0	2.4	5	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 10.0	D	µg/l	10.0	3.6	5	"	"	"	"	"	
60-29-7	Ethyl ether	< 5.0	D	µg/l	5.0	1.0	5	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 5.0	D	µg/l	5.0	1.7	5	"	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	< 5.0	D	µg/l	5.0	0.7	5	"	"	"	"	"	X
108-20-3	Di-isopropyl ether	< 5.0	D	µg/l	5.0	1.1	5	"	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	< 50.0	D	µg/l	50.0	37.4	5	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 100	D	µg/l	100	62.0	5	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-buten e	< 25.0	D	µg/l	25.0	5.6	5	"	"	"	"	"	X
64-17-5	Ethanol	< 2000	D	µg/l	2000	114	5	"	"	"	"	"	X
Surrogate recoveries:													
460-00-4	*4-Bromofluorobenzene*	*96*			*70-130 %*			"	"	"	"	"	
2037-26-5	*Toluene-d8*	*106*			*70-130 %*			"	"	"	"	"	
17060-07-0	*1,2-Dichloroethane-d4*	*109*			*70-130 %*			"	"	"	"	"	
1868-53-7	*Dibromofluoromethane*	*106*			*70-130 %*			"	"	"	"	"	
Total Metals by EPA 200/6000 Series Methods													
	Preservation	**Field Preserved**		N/A			1	EPA 200/6000 methods			LNB	1505892	
Total Metals by EPA 6000/7000 Series Methods													

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Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MW-53D/20150331 SC05125-19	08-14218H	Ground Water	31-Mar-15 10:55	31-Mar-15

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Total Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	< 0.0040		mg/l	0.0040	0.0027	1	SW846 6010C	02-Apr-15	06-Apr-15	BJW	1505916	X
7440-39-3	Barium	**0.0191**		mg/l	0.0050	0.0003	1	"	"	"	"	"	X
7440-43-9	Cadmium	**0.0006**	J	mg/l	0.0025	0.0002	1	"	"	"	"	"	X
7440-47-3	Chromium	< 0.0050		mg/l	0.0050	0.0010	1	"	"	"	"	"	X
7440-50-8	Copper	< 0.0050		mg/l	0.0050	0.0035	1	"	"	"	"	"	X
7440-02-0	Nickel	**0.0153**		mg/l	0.0050	0.0014	1	"	"	"	"	"	X
7440-66-6	Zinc	**0.0051**		mg/l	0.0050	0.0006	1	"	"	"	"	"	X
General Chemistry Parameters													
57-12-5	Cyanide (total)	< 0.00500		mg/l	0.00500	0.00442	1	EPA 335.4 / SW846 9012B	07-Apr-15	07-Apr-15	RLT	1506302	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MW-51D/20150331	08-14218H	Ground Water	31-Mar-15 12:10	31-Mar-15
SC05125-20				

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Volatile Organic Compounds													
Volatile Organic Compounds by SW846 8260 Prepared by method SW846 5030 Water MS													
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 1.0		µg/l	1.0	0.5	1	SW846 8260C	07-Apr-15	07-Apr-15	GMA	1506298	X
67-64-1	Acetone	< 10.0		µg/l	10.0	2.5	1	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 0.5		µg/l	0.5	0.5	1	"	"	"	"	"	X
71-43-2	Benzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
108-86-1	Bromobenzene	< 1.0		µg/l	1.0	0.1	1	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 0.5		µg/l	0.5	0.2	1	"	"	"	"	"	X
75-25-2	Bromoform	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
74-83-9	Bromomethane	< 2.0		µg/l	2.0	0.5	1	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 10.0		µg/l	10.0	1.2	1	"	"	"	"	"	X
104-51-8	n-Butylbenzene	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 2.0		µg/l	2.0	0.3	1	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
75-00-3	Chloroethane	< 2.0		µg/l	2.0	0.4	1	"	"	"	"	"	X
67-66-3	Chloroform	< 1.0		µg/l	1.0	0.4	1	"	"	"	"	"	X
74-87-3	Chloromethane	< 2.0		µg/l	2.0	0.3	1	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 2.0		µg/l	2.0	0.9	1	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 0.5		µg/l	0.5	0.2	1	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 0.5		µg/l	0.5	0.3	1	"	"	"	"	"	X
74-95-3	Dibromomethane	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 2.0		µg/l	2.0	0.6	1	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	**59.8**		µg/l	1.0	0.2	1	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 1.0		µg/l	1.0	0.1	1	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 1.0		µg/l	1.0	0.7	1	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 0.5		µg/l	0.5	0.2	1	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 0.5		µg/l	0.5	0.3	1	"	"	"	"	"	X
100-41-4	Ethylbenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 0.5		µg/l	0.5	0.4	1	"	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	< 10.0		µg/l	10.0	0.5	1	"	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MW-51D/20150331	08-14218H	Ground Water	31-Mar-15 12:10	31-Mar-15
SC05125-20				

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Volatile Organic Compounds													
Volatile Organic Compounds by SW846 8260 Prepared by method SW846 5030 Water MS													
98-82-8	Isopropylbenzene	< 1.0		µg/l	1.0	0.2	1	SW846 8260C	07-Apr-15	07-Apr-15	GMA	1506298	X
99-87-6	4-Isopropyltoluene	< 1.0		µg/l	1.0	0.4	1	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 10.0		µg/l	10.0	0.7	1	"	"	"	"	"	X
75-09-2	Methylene chloride	< 2.0		µg/l	2.0	0.3	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 1.0		µg/l	1.0	0.4	1	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
100-42-5	Styrene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 0.5		µg/l	0.5	0.3	1	"	"	"	"	"	X
127-18-4	Tetrachloroethene	**29.4**		µg/l	1.0	0.6	1	"	"	"	"	"	X
108-88-3	Toluene	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 1.0		µg/l	1.0	0.4	1	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	
71-55-6	1,1,1-Trichloroethane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
79-01-6	Trichloroethene	**38.0**		µg/l	1.0	0.4	1	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 1.0		µg/l	1.0	0.5	1	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 1.0		µg/l	1.0	0.4	1	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 1.0		µg/l	1.0	0.9	1	"	"	"	"	"	X
75-01-4	Vinyl chloride	**2.2**		µg/l	1.0	0.3	1	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 2.0		µg/l	2.0	0.4	1	"	"	"	"	"	X
95-47-6	o-Xylene	< 1.0		µg/l	1.0	0.5	1	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 2.0		µg/l	2.0	0.7	1	"	"	"	"	"	
60-29-7	Ethyl ether	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	< 1.0		µg/l	1.0	0.1	1	"	"	"	"	"	X
108-20-3	Di-isopropyl ether	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	< 10.0		µg/l	10.0	7.5	1	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 20.0		µg/l	20.0	12.4	1	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-buten e	< 5.0		µg/l	5.0	1.1	1	"	"	"	"	"	X
64-17-5	Ethanol	< 400		µg/l	400	22.7	1	"	"	"	"	"	X
Surrogate recoveries:													
460-00-4	*4-Bromofluorobenzene*	*97*			*70-130 %*			"	"	"	"	"	
2037-26-5	*Toluene-d8*	*103*			*70-130 %*			"	"	"	"	"	
17060-07-0	*1,2-Dichloroethane-d4*	*108*			*70-130 %*			"	"	"	"	"	
1868-53-7	*Dibromofluoromethane*	*102*			*70-130 %*			"	"	"	"	"	
Total Metals by EPA 200/6000 Series Methods													
	Preservation	**Field Preserved**		N/A			1	EPA 200/6000 methods			LNB	1505892	
Total Metals by EPA 6000/7000 Series Methods													

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MW-51D/20150331 SC05125-20	08-14218H	Ground Water	31-Mar-15 12:10	31-Mar-15

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Total Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	< 0.0040		mg/l	0.0040	0.0027	1	SW846 6010C	02-Apr-15	06-Apr-15	BJW	1505916	X
7440-39-3	Barium	**0.0406**		mg/l	0.0050	0.0003	1	"	"	"	"	"	X
7440-43-9	Cadmium	**0.0018**	J	mg/l	0.0025	0.0002	1	"	"	"	"	"	X
7440-47-3	Chromium	**0.0050**		mg/l	0.0050	0.0010	1	"	"	"	"	"	X
7440-50-8	Copper	**0.0656**		mg/l	0.0050	0.0035	1	"	"	"	"	"	X
7440-02-0	Nickel	**0.0412**		mg/l	0.0050	0.0014	1	"	"	"	"	"	X
7440-66-6	Zinc	**0.0572**		mg/l	0.0050	0.0006	1	"	"	"	"	"	X
General Chemistry Parameters													
57-12-5	Cyanide (total)	< 0.00500		mg/l	0.00500	0.00442	1	EPA 335.4 / SW846 9012B	07-Apr-15	07-Apr-15	RLT	1506302	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MW-30/20150331	08-14218H	Ground Water	31-Mar-15 13:30	31-Mar-15
SC05125-21				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Volatile Organic Compounds													
Re-analysis of Volatile Organic Compounds by SW846 8260 Prepared by method SW846 5030 Water MS													
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 1.0		µg/l	1.0	0.5	1	SW846 8260C	07-Apr-15	07-Apr-15	GMA	1506298	X
67-64-1	Acetone	< 10.0		µg/l	10.0	2.5	1	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 0.5		µg/l	0.5	0.5	1	"	"	"	"	"	X
71-43-2	Benzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
108-86-1	Bromobenzene	< 1.0		µg/l	1.0	0.1	1	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 0.5		µg/l	0.5	0.2	1	"	"	"	"	"	X
75-25-2	Bromoform	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
74-83-9	Bromomethane	< 2.0		µg/l	2.0	0.5	1	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 10.0		µg/l	10.0	1.2	1	"	"	"	"	"	X
104-51-8	n-Butylbenzene	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 2.0		µg/l	2.0	0.3	1	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
75-00-3	Chloroethane	< 2.0		µg/l	2.0	0.4	1	"	"	"	"	"	X
67-66-3	Chloroform	< 1.0		µg/l	1.0	0.4	1	"	"	"	"	"	X
74-87-3	Chloromethane	< 2.0		µg/l	2.0	0.3	1	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 2.0		µg/l	2.0	0.9	1	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 0.5		µg/l	0.5	0.2	1	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 0.5		µg/l	0.5	0.3	1	"	"	"	"	"	X
74-95-3	Dibromomethane	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 2.0		µg/l	2.0	0.6	1	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	**10.2**		µg/l	1.0	0.2	1	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 1.0		µg/l	1.0	0.1	1	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 1.0		µg/l	1.0	0.7	1	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 0.5		µg/l	0.5	0.2	1	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 0.5		µg/l	0.5	0.3	1	"	"	"	"	"	X
100-41-4	Ethylbenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 0.5		µg/l	0.5	0.4	1	"	"	"	"	"	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MW-30/20150331	08-14218H	Ground Water	31-Mar-15 13:30	31-Mar-15
SC05125-21				

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Volatile Organic Compounds													
Re-analysis of Volatile Organic Compounds by SW846 8260 Prepared by method SW846 5030 Water MS													
591-78-6	2-Hexanone (MBK)	< 10.0		µg/l	10.0	0.5	1	SW846 8260C	07-Apr-15	07-Apr-15	GMA	1506298	X
98-82-8	Isopropylbenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
99-87-6	4-Isopropyltoluene	< 1.0		µg/l	1.0	0.4	1	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 10.0		µg/l	10.0	0.7	1	"	"	"	"	"	X
75-09-2	Methylene chloride	< 2.0		µg/l	2.0	0.3	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 1.0		µg/l	1.0	0.4	1	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
100-42-5	Styrene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 0.5		µg/l	0.5	0.3	1	"	"	"	"	"	X
127-18-4	Tetrachloroethene	**4.4**		µg/l	1.0	0.6	1	"	"	"	"	"	X
108-88-3	Toluene	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 1.0		µg/l	1.0	0.4	1	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	
71-55-6	1,1,1-Trichloroethane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
79-01-6	Trichloroethene	**5.6**		µg/l	1.0	0.4	1	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 1.0		µg/l	1.0	0.5	1	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 1.0		µg/l	1.0	0.4	1	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 1.0		µg/l	1.0	0.9	1	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 2.0		µg/l	2.0	0.4	1	"	"	"	"	"	X
95-47-6	o-Xylene	< 1.0		µg/l	1.0	0.5	1	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 2.0		µg/l	2.0	0.7	1	"	"	"	"	"	
60-29-7	Ethyl ether	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 1.0		µg/l	1.0	0.3	1	"	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	< 1.0		µg/l	1.0	0.1	1	"	"	"	"	"	X
108-20-3	Di-isopropyl ether	< 1.0		µg/l	1.0	0.2	1	"	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	< 10.0		µg/l	10.0	7.5	1	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 20.0		µg/l	20.0	12.4	1	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-buten e	< 5.0		µg/l	5.0	1.1	1	"	"	"	"	"	X
64-17-5	Ethanol	< 400		µg/l	400	22.7	1	"	"	"	"	"	X
Surrogate recoveries:													
460-00-4	*4-Bromofluorobenzene*	*96*			*70-130 %*			"	"	"	"	"	
2037-26-5	*Toluene-d8*	*104*			*70-130 %*			"	"	"	"	"	
17060-07-0	*1,2-Dichloroethane-d4*	*108*			*70-130 %*			"	"	"	"	"	
1868-53-7	*Dibromofluoromethane*	*103*			*70-130 %*			"	"	"	"	"	
Total Metals by EPA 200/6000 Series Methods													

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MW-30/20150331 SC05125-21	08-14218H	Ground Water	31-Mar-15 13:30	31-Mar-15

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Total Metals by EPA 200/6000 Series Methods													
	Preservation	**Field Preserved**		N/A			1	EPA 200/6000 methods			LNB	1505892	
Total Metals by EPA 6000/7000 Series Methods													
7440-38-2	Arsenic	< 0.0040		mg/l	0.0040	0.0027	1	SW846 6010C	02-Apr-15	06-Apr-15	BJW	1505916	X
7440-39-3	Barium	< 0.0050		mg/l	0.0050	0.0003	1	"	"	"	"	"	X
7440-43-9	Cadmium	< 0.0002	U	mg/l	0.0025	0.0002	1	"	"	"	"	"	X
7440-47-3	Chromium	< 0.0050		mg/l	0.0050	0.0010	1	"	"	"	"	"	X
7440-50-8	Copper	< 0.0050		mg/l	0.0050	0.0035	1	"	"	"	"	"	X
7440-02-0	Nickel	< 0.0050		mg/l	0.0050	0.0014	1	"	"	"	"	"	X
7440-66-6	Zinc	**0.0095**		mg/l	0.0050	0.0006	1	"	"	"	"	"	X
General Chemistry Parameters													
57-12-5	Cyanide (total)	< 0.00500		mg/l	0.00500	0.00442	1	EPA 335.4 / SW846 9012B	07-Apr-15	07-Apr-15	RLT	1506302	X

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1505963 - SW846 5030 Water MS										
Blank (1505963-BLK1)					Prepared & Analyzed: 02-Apr-15					
1,1,2-Trichlorotrifluoroethane (Freon 113)	< 1.0		µg/l	1.0						
Acetone	< 10.0		µg/l	10.0						
Acrylonitrile	< 0.5		µg/l	0.5						
Benzene	< 1.0		µg/l	1.0						
Bromobenzene	< 1.0		µg/l	1.0						
Bromochloromethane	< 1.0		µg/l	1.0						
Bromodichloromethane	< 0.5		µg/l	0.5						
Bromoform	< 1.0		µg/l	1.0						
Bromomethane	< 2.0		µg/l	2.0						
2-Butanone (MEK)	< 10.0		µg/l	10.0						
n-Butylbenzene	< 1.0		µg/l	1.0						
sec-Butylbenzene	< 1.0		µg/l	1.0						
tert-Butylbenzene	< 1.0		µg/l	1.0						
Carbon disulfide	< 2.0		µg/l	2.0						
Carbon tetrachloride	< 1.0		µg/l	1.0						
Chlorobenzene	< 1.0		µg/l	1.0						
Chloroethane	< 2.0		µg/l	2.0						
Chloroform	< 1.0		µg/l	1.0						
Chloromethane	< 2.0		µg/l	2.0						
2-Chlorotoluene	< 1.0		µg/l	1.0						
4-Chlorotoluene	< 1.0		µg/l	1.0						
1,2-Dibromo-3-chloropropane	< 2.0		µg/l	2.0						
Dibromochloromethane	< 0.5		µg/l	0.5						
1,2-Dibromoethane (EDB)	< 0.5		µg/l	0.5						
Dibromomethane	< 1.0		µg/l	1.0						
1,2-Dichlorobenzene	< 1.0		µg/l	1.0						
1,3-Dichlorobenzene	< 1.0		µg/l	1.0						
1,4-Dichlorobenzene	< 1.0		µg/l	1.0						
Dichlorodifluoromethane (Freon12)	< 2.0		µg/l	2.0						
1,1-Dichloroethane	< 1.0		µg/l	1.0						
1,2-Dichloroethane	< 1.0		µg/l	1.0						
1,1-Dichloroethene	< 1.0		µg/l	1.0						
cis-1,2-Dichloroethene	< 1.0		µg/l	1.0						
trans-1,2-Dichloroethene	< 1.0		µg/l	1.0						
1,2-Dichloropropane	< 1.0		µg/l	1.0						
1,3-Dichloropropane	< 1.0		µg/l	1.0						
2,2-Dichloropropane	< 1.0		µg/l	1.0						
1,1-Dichloropropene	< 1.0		µg/l	1.0						
cis-1,3-Dichloropropene	< 0.5		µg/l	0.5						
trans-1,3-Dichloropropene	< 0.5		µg/l	0.5						
Ethylbenzene	< 1.0		µg/l	1.0						
Hexachlorobutadiene	< 0.5		µg/l	0.5						
2-Hexanone (MBK)	< 10.0		µg/l	10.0						
Isopropylbenzene	< 1.0		µg/l	1.0						
4-Isopropyltoluene	< 1.0		µg/l	1.0						
Methyl tert-butyl ether	< 1.0		µg/l	1.0						
4-Methyl-2-pentanone (MIBK)	< 10.0		µg/l	10.0						
Methylene chloride	< 2.0		µg/l	2.0						
Naphthalene	< 1.0		µg/l	1.0						
n-Propylbenzene	< 1.0		µg/l	1.0						
Styrene	< 1.0		µg/l	1.0						
1,1,1,2-Tetrachloroethane	< 1.0		µg/l	1.0						

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1505963 - SW846 5030 Water MS										
Blank (1505963-BLK1)					Prepared & Analyzed: 02-Apr-15					
1,1,2,2-Tetrachloroethane	< 0.5		µg/l	0.5						
Tetrachloroethene	< 1.0		µg/l	1.0						
Toluene	< 1.0		µg/l	1.0						
1,2,3-Trichlorobenzene	< 1.0		µg/l	1.0						
1,2,4-Trichlorobenzene	< 1.0		µg/l	1.0						
1,3,5-Trichlorobenzene	< 1.0		µg/l	1.0						
1,1,1-Trichloroethane	< 1.0		µg/l	1.0						
1,1,2-Trichloroethane	< 1.0		µg/l	1.0						
Trichloroethene	< 1.0		µg/l	1.0						
Trichlorofluoromethane (Freon 11)	< 1.0		µg/l	1.0						
1,2,3-Trichloropropane	< 1.0		µg/l	1.0						
1,2,4-Trimethylbenzene	< 1.0		µg/l	1.0						
1,3,5-Trimethylbenzene	< 1.0		µg/l	1.0						
Vinyl chloride	< 1.0		µg/l	1.0						
m,p-Xylene	< 2.0		µg/l	2.0						
o-Xylene	< 1.0		µg/l	1.0						
Tetrahydrofuran	< 2.0		µg/l	2.0						
Ethyl ether	< 1.0		µg/l	1.0						
Tert-amyl methyl ether	< 1.0		µg/l	1.0						
Ethyl tert-butyl ether	< 1.0		µg/l	1.0						
Di-isopropyl ether	< 1.0		µg/l	1.0						
Tert-Butanol / butyl alcohol	< 10.0		µg/l	10.0						
1,4-Dioxane	< 20.0		µg/l	20.0						
trans-1,4-Dichloro-2-butene	< 5.0		µg/l	5.0						
Ethanol	< 400		µg/l	400						
Surrogate: 4-Bromofluorobenzene	*43.8*		µg/l		*50.0*		*88*	*70-130*		
Surrogate: Toluene-d8	*50.4*		µg/l		*50.0*		*101*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*50.7*		µg/l		*50.0*		*101*	*70-130*		
Surrogate: Dibromofluoromethane	*49.6*		µg/l		*50.0*		*99*	*70-130*		
LCS (1505963-BS1)					Prepared & Analyzed: 02-Apr-15					
1,1,2-Trichlorotrifluoroethane (Freon 113)	**17.2**		µg/l		20.0		86	70-130		
Acetone	**18.2**		µg/l		20.0		91	70-130		
Acrylonitrile	**18.5**		µg/l		20.0		93	70-130		
Benzene	**18.2**		µg/l		20.0		91	70-130		
Bromobenzene	**18.8**		µg/l		20.0		94	70-130		
Bromochloromethane	**20.1**		µg/l		20.0		100	70-130		
Bromodichloromethane	**19.0**		µg/l		20.0		95	70-130		
Bromoform	**17.7**		µg/l		20.0		89	70-130		
Bromomethane	**18.9**		µg/l		20.0		94	70-130		
2-Butanone (MEK)	**17.3**		µg/l		20.0		86	70-130		
n-Butylbenzene	**16.1**		µg/l		20.0		80	70-130		
sec-Butylbenzene	**16.8**		µg/l		20.0		84	70-130		
tert-Butylbenzene	**16.7**		µg/l		20.0		84	70-130		
Carbon disulfide	**18.6**		µg/l		20.0		93	70-130		
Carbon tetrachloride	**17.1**		µg/l		20.0		85	70-130		
Chlorobenzene	**18.0**		µg/l		20.0		90	70-130		
Chloroethane	**17.4**		µg/l		20.0		87	70-130		
Chloroform	**16.7**		µg/l		20.0		84	70-130		
Chloromethane	**18.4**		µg/l		20.0		92	70-130		
2-Chlorotoluene	**19.1**		µg/l		20.0		96	70-130		
4-Chlorotoluene	**19.8**		µg/l		20.0		99	70-130		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1505963 - SW846 5030 Water MS										
LCS (1505963-BS1)					Prepared & Analyzed: 02-Apr-15					
1,2-Dibromo-3-chloropropane	**16.0**		µg/l		20.0		80	70-130		
Dibromochloromethane	**20.4**		µg/l		20.0		102	70-130		
1,2-Dibromoethane (EDB)	**20.1**		µg/l		20.0		100	70-130		
Dibromomethane	**19.4**		µg/l		20.0		97	70-130		
1,2-Dichlorobenzene	**17.6**		µg/l		20.0		88	70-130		
1,3-Dichlorobenzene	**19.4**		µg/l		20.0		97	70-130		
1,4-Dichlorobenzene	**16.6**		µg/l		20.0		83	70-130		
Dichlorodifluoromethane (Freon12)	**17.7**		µg/l		20.0		88	70-130		
1,1-Dichloroethane	**17.6**		µg/l		20.0		88	70-130		
1,2-Dichloroethane	**17.9**		µg/l		20.0		89	70-130		
1,1-Dichloroethene	**16.1**		µg/l		20.0		81	70-130		
cis-1,2-Dichloroethene	**18.8**		µg/l		20.0		94	70-130		
trans-1,2-Dichloroethene	**23.0**		µg/l		20.0		115	70-130		
1,2-Dichloropropane	**18.2**		µg/l		20.0		91	70-130		
1,3-Dichloropropane	**19.5**		µg/l		20.0		97	70-130		
2,2-Dichloropropane	**15.0**		µg/l		20.0		75	70-130		
1,1-Dichloropropene	**17.2**		µg/l		20.0		86	70-130		
cis-1,3-Dichloropropene	**18.2**		µg/l		20.0		91	70-130		
trans-1,3-Dichloropropene	**18.4**		µg/l		20.0		92	70-130		
Ethylbenzene	**18.9**		µg/l		20.0		95	70-130		
Hexachlorobutadiene	**16.1**		µg/l		20.0		80	70-130		
2-Hexanone (MBK)	**17.2**		µg/l		20.0		86	70-130		
Isopropylbenzene	**18.4**		µg/l		20.0		92	70-130		
4-Isopropyltoluene	**15.8**		µg/l		20.0		79	70-130		
Methyl tert-butyl ether	**13.0**	QM9	µg/l		20.0		65	70-130		
4-Methyl-2-pentanone (MIBK)	**16.8**		µg/l		20.0		84	70-130		
Methylene chloride	**17.8**		µg/l		20.0		89	70-130		
Naphthalene	**17.8**		µg/l		20.0		89	70-130		
n-Propylbenzene	**16.3**		µg/l		20.0		81	70-130		
Styrene	**17.1**		µg/l		20.0		85	70-130		
1,1,1,2-Tetrachloroethane	**19.2**		µg/l		20.0		96	70-130		
1,1,2,2-Tetrachloroethane	**19.6**		µg/l		20.0		98	70-130		
Tetrachloroethene	**17.1**		µg/l		20.0		86	70-130		
Toluene	**17.9**		µg/l		20.0		89	70-130		
1,2,3-Trichlorobenzene	**16.7**		µg/l		20.0		84	70-130		
1,2,4-Trichlorobenzene	**15.9**		µg/l		20.0		79	70-130		
1,3,5-Trichlorobenzene	**16.8**		µg/l		20.0		84	70-130		
1,1,1-Trichloroethane	**16.1**		µg/l		20.0		80	70-130		
1,1,2-Trichloroethane	**19.3**		µg/l		20.0		96	70-130		
Trichloroethene	**17.0**		µg/l		20.0		85	70-130		
Trichlorofluoromethane (Freon 11)	**17.6**		µg/l		20.0		88	70-130		
1,2,3-Trichloropropane	**19.7**		µg/l		20.0		98	70-130		
1,2,4-Trimethylbenzene	**17.3**		µg/l		20.0		86	70-130		
1,3,5-Trimethylbenzene	**16.7**		µg/l		20.0		84	70-130		
Vinyl chloride	**17.3**		µg/l		20.0		86	70-130		
m,p-Xylene	**16.9**		µg/l		20.0		84	70-130		
o-Xylene	**17.5**		µg/l		20.0		88	70-130		
Tetrahydrofuran	**17.6**		µg/l		20.0		88	70-130		
Ethyl ether	**19.7**		µg/l		20.0		99	70-130		
Tert-amyl methyl ether	**20.2**		µg/l		20.0		101	70-130		
Ethyl tert-butyl ether	**13.9**	QM9	µg/l		20.0		69	70-130		
Di-isopropyl ether	**17.3**		µg/l		20.0		86	70-130		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1505963 - SW846 5030 Water MS										
LCS (1505963-BS1)						Prepared & Analyzed: 02-Apr-15				
Tert-Butanol / butyl alcohol	**129**	QC2	µg/l		200		65	70-130		
1,4-Dioxane	**169**		µg/l		200		85	70-130		
trans-1,4-Dichloro-2-butene	**15.6**		µg/l		20.0		78	70-130		
Ethanol	**379**		µg/l		400		95	70-130		
Surrogate: 4-Bromofluorobenzene	*53.4*		µg/l		*50.0*		*107*	*70-130*		
Surrogate: Toluene-d8	*50.6*		µg/l		*50.0*		*101*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*49.7*		µg/l		*50.0*		*99*	*70-130*		
Surrogate: Dibromofluoromethane	*51.3*		µg/l		*50.0*		*103*	*70-130*		
LCS Dup (1505963-BSD1)						Prepared & Analyzed: 02-Apr-15				
1,1,2-Trichlorotrifluoroethane (Freon 113)	**17.7**		µg/l		20.0		88	70-130	3	20
Acetone	**20.0**		µg/l		20.0		100	70-130	9	20
Acrylonitrile	**19.0**		µg/l		20.0		95	70-130	3	20
Benzene	**20.1**		µg/l		20.0		100	70-130	10	20
Bromobenzene	**20.6**		µg/l		20.0		103	70-130	9	20
Bromochloromethane	**21.2**		µg/l		20.0		106	70-130	5	20
Bromodichloromethane	**20.6**		µg/l		20.0		103	70-130	8	20
Bromoform	**18.9**		µg/l		20.0		94	70-130	6	20
Bromomethane	**20.4**		µg/l		20.0		102	70-130	8	20
2-Butanone (MEK)	**16.8**		µg/l		20.0		84	70-130	3	20
n-Butylbenzene	**18.5**		µg/l		20.0		92	70-130	14	20
sec-Butylbenzene	**18.7**		µg/l		20.0		93	70-130	11	20
tert-Butylbenzene	**18.6**		µg/l		20.0		93	70-130	11	20
Carbon disulfide	**20.0**		µg/l		20.0		100	70-130	7	20
Carbon tetrachloride	**18.4**		µg/l		20.0		92	70-130	7	20
Chlorobenzene	**19.7**		µg/l		20.0		98	70-130	9	20
Chloroethane	**18.9**		µg/l		20.0		95	70-130	9	20
Chloroform	**18.2**		µg/l		20.0		91	70-130	8	20
Chloromethane	**20.2**		µg/l		20.0		101	70-130	9	20
2-Chlorotoluene	**21.8**		µg/l		20.0		109	70-130	13	20
4-Chlorotoluene	**22.1**		µg/l		20.0		111	70-130	11	20
1,2-Dibromo-3-chloropropane	**18.0**		µg/l		20.0		90	70-130	12	20
Dibromochloromethane	**21.9**		µg/l		20.0		109	70-130	7	20
1,2-Dibromoethane (EDB)	**21.2**		µg/l		20.0		106	70-130	5	20
Dibromomethane	**20.9**		µg/l		20.0		105	70-130	8	20
1,2-Dichlorobenzene	**20.2**		µg/l		20.0		101	70-130	14	20
1,3-Dichlorobenzene	**21.5**		µg/l		20.0		108	70-130	10	20
1,4-Dichlorobenzene	**19.3**		µg/l		20.0		96	70-130	15	20
Dichlorodifluoromethane (Freon12)	**18.1**		µg/l		20.0		91	70-130	3	20
1,1-Dichloroethane	**19.1**		µg/l		20.0		96	70-130	8	20
1,2-Dichloroethane	**18.9**		µg/l		20.0		95	70-130	6	20
1,1-Dichloroethene	**17.8**		µg/l		20.0		89	70-130	10	20
cis-1,2-Dichloroethene	**20.2**		µg/l		20.0		101	70-130	7	20
trans-1,2-Dichloroethene	**25.4**		µg/l		20.0		127	70-130	10	20
1,2-Dichloropropane	**19.8**		µg/l		20.0		99	70-130	9	20
1,3-Dichloropropane	**20.6**		µg/l		20.0		103	70-130	5	20
2,2-Dichloropropane	**15.2**		µg/l		20.0		76	70-130	1	20
1,1-Dichloropropene	**18.8**		µg/l		20.0		94	70-130	9	20
cis-1,3-Dichloropropene	**19.5**		µg/l		20.0		97	70-130	7	20
trans-1,3-Dichloropropene	**19.8**		µg/l		20.0		99	70-130	7	20
Ethylbenzene	**21.3**		µg/l		20.0		106	70-130	12	20
Hexachlorobutadiene	**19.3**		µg/l		20.0		96	70-130	18	20

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1505963 - SW846 5030 Water MS										
LCS Dup (1505963-BSD1)					Prepared & Analyzed: 02-Apr-15					
2-Hexanone (MBK)	**18.5**		µg/l		20.0		92	70-130	7	20
Isopropylbenzene	**20.4**		µg/l		20.0		102	70-130	10	20
4-Isopropyltoluene	**18.3**		µg/l		20.0		91	70-130	15	20
Methyl tert-butyl ether	**13.9**		µg/l		20.0		70	70-130	7	20
4-Methyl-2-pentanone (MIBK)	**17.8**		µg/l		20.0		89	70-130	6	20
Methylene chloride	**18.9**		µg/l		20.0		94	70-130	6	20
Naphthalene	**20.1**		µg/l		20.0		101	70-130	12	20
n-Propylbenzene	**18.3**		µg/l		20.0		92	70-130	12	20
Styrene	**18.9**		µg/l		20.0		94	70-130	10	20
1,1,1,2-Tetrachloroethane	**20.6**		µg/l		20.0		103	70-130	7	20
1,1,2,2-Tetrachloroethane	**20.5**		µg/l		20.0		103	70-130	5	20
Tetrachloroethene	**18.6**		µg/l		20.0		93	70-130	8	20
Toluene	**19.6**		µg/l		20.0		98	70-130	9	20
1,2,3-Trichlorobenzene	**19.3**		µg/l		20.0		96	70-130	14	20
1,2,4-Trichlorobenzene	**19.0**		µg/l		20.0		95	70-130	18	20
1,3,5-Trichlorobenzene	**19.8**		µg/l		20.0		99	70-130	16	20
1,1,1-Trichloroethane	**17.8**		µg/l		20.0		89	70-130	10	20
1,1,2-Trichloroethane	**20.5**		µg/l		20.0		102	70-130	6	20
Trichloroethene	**18.8**		µg/l		20.0		94	70-130	10	20
Trichlorofluoromethane (Freon 11)	**18.7**		µg/l		20.0		93	70-130	6	20
1,2,3-Trichloropropane	**20.6**		µg/l		20.0		103	70-130	5	20
1,2,4-Trimethylbenzene	**18.8**		µg/l		20.0		94	70-130	9	20
1,3,5-Trimethylbenzene	**19.0**		µg/l		20.0		95	70-130	13	20
Vinyl chloride	**18.7**		µg/l		20.0		93	70-130	8	20
m,p-Xylene	**19.0**		µg/l		20.0		95	70-130	12	20
o-Xylene	**19.4**		µg/l		20.0		97	70-130	10	20
Tetrahydrofuran	**17.7**		µg/l		20.0		88	70-130	0.5	20
Ethyl ether	**21.0**		µg/l		20.0		105	70-130	6	20
Tert-amyl methyl ether	**21.2**		µg/l		20.0		106	70-130	5	20
Ethyl tert-butyl ether	**15.0**		µg/l		20.0		75	70-130	8	20
Di-isopropyl ether	**18.9**		µg/l		20.0		95	70-130	9	20
Tert-Butanol / butyl alcohol	**139**	QC2	µg/l		200		69	70-130	7	20
1,4-Dioxane	**188**		µg/l		200		94	70-130	10	20
trans-1,4-Dichloro-2-butene	**16.7**		µg/l		20.0		84	70-130	7	20
Ethanol	**394**		µg/l		400		98	70-130	4	20
Surrogate: 4-Bromofluorobenzene	*51.8*		µg/l		*50.0*		*104*	*70-130*		
Surrogate: Toluene-d8	*50.3*		µg/l		*50.0*		*101*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*48.6*		µg/l		*50.0*		*97*	*70-130*		
Surrogate: Dibromofluoromethane	*49.9*		µg/l		*50.0*		*100*	*70-130*		
Batch 1506064 - SW846 5030 Water MS										
Blank (1506064-BLK1)					Prepared & Analyzed: 03-Apr-15					
1,1,2-Trichlorotrifluoroethane (Freon 113)	< 1.0		µg/l	1.0						
Acetone	< 10.0		µg/l	10.0						
Acrylonitrile	< 0.5		µg/l	0.5						
Benzene	< 1.0		µg/l	1.0						
Bromobenzene	< 1.0		µg/l	1.0						
Bromochloromethane	< 1.0		µg/l	1.0						
Bromodichloromethane	< 0.5		µg/l	0.5						
Bromoform	< 1.0		µg/l	1.0						
Bromomethane	< 2.0		µg/l	2.0						
2-Butanone (MEK)	< 10.0		µg/l	10.0						

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1506064 - SW846 5030 Water MS										
Blank (1506064-BLK1)					Prepared & Analyzed: 03-Apr-15					
n-Butylbenzene	< 1.0		µg/l	1.0						
sec-Butylbenzene	< 1.0		µg/l	1.0						
tert-Butylbenzene	< 1.0		µg/l	1.0						
Carbon disulfide	< 2.0		µg/l	2.0						
Carbon tetrachloride	< 1.0		µg/l	1.0						
Chlorobenzene	< 1.0		µg/l	1.0						
Chloroethane	< 2.0		µg/l	2.0						
Chloroform	< 1.0		µg/l	1.0						
Chloromethane	< 2.0		µg/l	2.0						
2-Chlorotoluene	< 1.0		µg/l	1.0						
4-Chlorotoluene	< 1.0		µg/l	1.0						
1,2-Dibromo-3-chloropropane	< 2.0		µg/l	2.0						
Dibromochloromethane	< 0.5		µg/l	0.5						
1,2-Dibromoethane (EDB)	< 0.5		µg/l	0.5						
Dibromomethane	< 1.0		µg/l	1.0						
1,2-Dichlorobenzene	< 1.0		µg/l	1.0						
1,3-Dichlorobenzene	< 1.0		µg/l	1.0						
1,4-Dichlorobenzene	< 1.0		µg/l	1.0						
Dichlorodifluoromethane (Freon12)	< 2.0		µg/l	2.0						
1,1-Dichloroethane	< 1.0		µg/l	1.0						
1,2-Dichloroethane	< 1.0		µg/l	1.0						
1,1-Dichloroethene	< 1.0		µg/l	1.0						
cis-1,2-Dichloroethene	< 1.0		µg/l	1.0						
trans-1,2-Dichloroethene	< 1.0		µg/l	1.0						
1,2-Dichloropropane	< 1.0		µg/l	1.0						
1,3-Dichloropropane	< 1.0		µg/l	1.0						
2,2-Dichloropropane	< 1.0		µg/l	1.0						
1,1-Dichloropropene	< 1.0		µg/l	1.0						
cis-1,3-Dichloropropene	< 0.5		µg/l	0.5						
trans-1,3-Dichloropropene	< 0.5		µg/l	0.5						
Ethylbenzene	< 1.0		µg/l	1.0						
Hexachlorobutadiene	< 0.5		µg/l	0.5						
2-Hexanone (MBK)	< 10.0		µg/l	10.0						
Isopropylbenzene	< 1.0		µg/l	1.0						
4-Isopropyltoluene	< 1.0		µg/l	1.0						
Methyl tert-butyl ether	< 1.0		µg/l	1.0						
4-Methyl-2-pentanone (MIBK)	< 10.0		µg/l	10.0						
Methylene chloride	< 2.0		µg/l	2.0						
Naphthalene	< 1.0		µg/l	1.0						
n-Propylbenzene	< 1.0		µg/l	1.0						
Styrene	< 1.0		µg/l	1.0						
1,1,1,2-Tetrachloroethane	< 1.0		µg/l	1.0						
1,1,2,2-Tetrachloroethane	< 0.5		µg/l	0.5						
Tetrachloroethene	< 1.0		µg/l	1.0						
Toluene	< 1.0		µg/l	1.0						
1,2,3-Trichlorobenzene	< 1.0		µg/l	1.0						
1,2,4-Trichlorobenzene	< 1.0		µg/l	1.0						
1,3,5-Trichlorobenzene	< 1.0		µg/l	1.0						
1,1,1-Trichloroethane	< 1.0		µg/l	1.0						
1,1,2-Trichloroethane	< 1.0		µg/l	1.0						
Trichloroethene	< 1.0		µg/l	1.0						
Trichlorofluoromethane (Freon 11)	< 1.0		µg/l	1.0						

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1506064 - SW846 5030 Water MS										
Blank (1506064-BLK1)					Prepared & Analyzed: 03-Apr-15					
1,2,3-Trichloropropane	< 1.0		µg/l	1.0						
1,2,4-Trimethylbenzene	< 1.0		µg/l	1.0						
1,3,5-Trimethylbenzene	< 1.0		µg/l	1.0						
Vinyl chloride	< 1.0		µg/l	1.0						
m,p-Xylene	< 2.0		µg/l	2.0						
o-Xylene	< 1.0		µg/l	1.0						
Tetrahydrofuran	< 2.0		µg/l	2.0						
Ethyl ether	< 1.0		µg/l	1.0						
Tert-amyl methyl ether	< 1.0		µg/l	1.0						
Ethyl tert-butyl ether	< 1.0		µg/l	1.0						
Di-isopropyl ether	< 1.0		µg/l	1.0						
Tert-Butanol / butyl alcohol	< 10.0		µg/l	10.0						
1,4-Dioxane	< 20.0		µg/l	20.0						
trans-1,4-Dichloro-2-butene	< 5.0		µg/l	5.0						
Ethanol	< 400		µg/l	400						
Surrogate: 4-Bromofluorobenzene	*48.9*		µg/l		*50.0*		*98*	*70-130*		
Surrogate: Toluene-d8	*50.8*		µg/l		*50.0*		*102*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*53.7*		µg/l		*50.0*		*107*	*70-130*		
Surrogate: Dibromofluoromethane	*51.2*		µg/l		*50.0*		*102*	*70-130*		
LCS (1506064-BS1)		QM10			Prepared & Analyzed: 03-Apr-15					
1,1,2-Trichlorotrifluoroethane (Freon 113)	**20.8**		µg/l		20.0		104	70-130		
Acetone	**21.6**		µg/l		20.0		108	70-130		
Acrylonitrile	**21.8**		µg/l		20.0		109	70-130		
Benzene	**21.3**		µg/l		20.0		106	70-130		
Bromobenzene	**20.3**		µg/l		20.0		102	70-130		
Bromochloromethane	**21.4**		µg/l		20.0		107	70-130		
Bromodichloromethane	**21.9**		µg/l		20.0		110	70-130		
Bromoform	**20.4**		µg/l		20.0		102	70-130		
Bromomethane	**24.5**		µg/l		20.0		122	70-130		
2-Butanone (MEK)	**20.7**		µg/l		20.0		104	70-130		
n-Butylbenzene	**19.1**		µg/l		20.0		96	70-130		
sec-Butylbenzene	**20.8**		µg/l		20.0		104	70-130		
tert-Butylbenzene	**21.4**		µg/l		20.0		107	70-130		
Carbon disulfide	**21.7**		µg/l		20.0		109	70-130		
Carbon tetrachloride	**21.2**		µg/l		20.0		106	70-130		
Chlorobenzene	**19.6**		µg/l		20.0		98	70-130		
Chloroethane	**22.3**		µg/l		20.0		111	70-130		
Chloroform	**20.5**		µg/l		20.0		103	70-130		
Chloromethane	**20.8**		µg/l		20.0		104	70-130		
2-Chlorotoluene	**20.4**		µg/l		20.0		102	70-130		
4-Chlorotoluene	**20.4**		µg/l		20.0		102	70-130		
1,2-Dibromo-3-chloropropane	**20.2**		µg/l		20.0		101	70-130		
Dibromochloromethane	**22.2**		µg/l		20.0		111	70-130		
1,2-Dibromoethane (EDB)	**21.8**		µg/l		20.0		109	70-130		
Dibromomethane	**21.9**		µg/l		20.0		110	70-130		
1,2-Dichlorobenzene	**19.9**		µg/l		20.0		99	70-130		
1,3-Dichlorobenzene	**20.2**		µg/l		20.0		101	70-130		
1,4-Dichlorobenzene	**18.9**		µg/l		20.0		95	70-130		
Dichlorodifluoromethane (Freon12)	**21.4**		µg/l		20.0		107	70-130		
1,1-Dichloroethane	**21.0**		µg/l		20.0		105	70-130		
1,2-Dichloroethane	**21.9**		µg/l		20.0		109	70-130		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1506064 - SW846 5030 Water MS										
LCS (1506064-BS1)		QM10			Prepared & Analyzed: 03-Apr-15					
1,1-Dichloroethene	**21.9**		µg/l		20.0		110	70-130		
cis-1,2-Dichloroethene	**21.3**		µg/l		20.0		106	70-130		
trans-1,2-Dichloroethene	**21.2**		µg/l		20.0		106	70-130		
1,2-Dichloropropane	**21.0**		µg/l		20.0		105	70-130		
1,3-Dichloropropane	**21.3**		µg/l		20.0		106	70-130		
2,2-Dichloropropane	**20.6**		µg/l		20.0		103	70-130		
1,1-Dichloropropene	**19.8**		µg/l		20.0		99	70-130		
cis-1,3-Dichloropropene	**21.3**		µg/l		20.0		106	70-130		
trans-1,3-Dichloropropene	**19.8**		µg/l		20.0		99	70-130		
Ethylbenzene	**20.9**		µg/l		20.0		105	70-130		
Hexachlorobutadiene	**20.3**		µg/l		20.0		102	70-130		
2-Hexanone (MBK)	**21.2**		µg/l		20.0		106	70-130		
Isopropylbenzene	**20.8**		µg/l		20.0		104	70-130		
4-Isopropyltoluene	**19.9**		µg/l		20.0		100	70-130		
Methyl tert-butyl ether	**19.6**		µg/l		20.0		98	70-130		
4-Methyl-2-pentanone (MIBK)	**22.2**		µg/l		20.0		111	70-130		
Methylene chloride	**20.1**		µg/l		20.0		100	70-130		
Naphthalene	**16.8**		µg/l		20.0		84	70-130		
n-Propylbenzene	**20.4**		µg/l		20.0		102	70-130		
Styrene	**20.9**		µg/l		20.0		105	70-130		
1,1,1,2-Tetrachloroethane	**20.6**		µg/l		20.0		103	70-130		
1,1,2,2-Tetrachloroethane	**23.9**		µg/l		20.0		120	70-130		
Tetrachloroethene	**20.4**		µg/l		20.0		102	70-130		
Toluene	**21.3**		µg/l		20.0		107	70-130		
1,2,3-Trichlorobenzene	**20.2**		µg/l		20.0		101	70-130		
1,2,4-Trichlorobenzene	**18.1**		µg/l		20.0		91	70-130		
1,3,5-Trichlorobenzene	**19.3**		µg/l		20.0		97	70-130		
1,1,1-Trichloroethane	**23.0**		µg/l		20.0		115	70-130		
1,1,2-Trichloroethane	**20.7**		µg/l		20.0		104	70-130		
Trichloroethene	**19.3**		µg/l		20.0		96	70-130		
Trichlorofluoromethane (Freon 11)	**21.6**		µg/l		20.0		108	70-130		
1,2,3-Trichloropropane	**20.6**		µg/l		20.0		103	70-130		
1,2,4-Trimethylbenzene	**21.0**		µg/l		20.0		105	70-130		
1,3,5-Trimethylbenzene	**21.3**		µg/l		20.0		107	70-130		
Vinyl chloride	**23.4**		µg/l		20.0		117	70-130		
m,p-Xylene	**20.7**		µg/l		20.0		104	70-130		
o-Xylene	**20.7**		µg/l		20.0		104	70-130		
Tetrahydrofuran	**20.4**		µg/l		20.0		102	70-130		
Ethyl ether	**21.1**		µg/l		20.0		106	70-130		
Tert-amyl methyl ether	**18.6**		µg/l		20.0		93	70-130		
Ethyl tert-butyl ether	**19.4**		µg/l		20.0		97	70-130		
Di-isopropyl ether	**20.6**		µg/l		20.0		103	70-130		
Tert-Butanol / butyl alcohol	**200**		µg/l		200		100	70-130		
1,4-Dioxane	**214**		µg/l		200		107	70-130		
trans-1,4-Dichloro-2-butene	**20.6**		µg/l		20.0		103	70-130		
Ethanol	**426**		µg/l		400		106	70-130		
Surrogate: 4-Bromofluorobenzene	*51.1*		µg/l		*50.0*		*102*	*70-130*		
Surrogate: Toluene-d8	*51.0*		µg/l		*50.0*		*102*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*52.8*		µg/l		*50.0*		*106*	*70-130*		
Surrogate: Dibromofluoromethane	*52.2*		µg/l		*50.0*		*104*	*70-130*		
LCS Dup (1506064-BSD1)		QM10			Prepared & Analyzed: 03-Apr-15					

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1506064 - SW846 5030 Water MS										
LCS Dup (1506064-BSD1)		QM10			Prepared & Analyzed: 03-Apr-15					
1,1,2-Trichlorotrifluoroethane (Freon 113)	**18.6**		µg/l		20.0		93	70-130	11	20
Acetone	**23.6**		µg/l		20.0		118	70-130	9	20
Acrylonitrile	**20.2**		µg/l		20.0		101	70-130	8	20
Benzene	**19.9**		µg/l		20.0		100	70-130	7	20
Bromobenzene	**18.9**		µg/l		20.0		94	70-130	7	20
Bromochloromethane	**20.1**		µg/l		20.0		100	70-130	6	20
Bromodichloromethane	**20.6**		µg/l		20.0		103	70-130	6	20
Bromoform	**18.5**		µg/l		20.0		93	70-130	10	20
Bromomethane	**24.6**		µg/l		20.0		123	70-130	0.2	20
2-Butanone (MEK)	**19.5**		µg/l		20.0		97	70-130	6	20
n-Butylbenzene	**17.4**		µg/l		20.0		87	70-130	9	20
sec-Butylbenzene	**19.3**		µg/l		20.0		96	70-130	8	20
tert-Butylbenzene	**19.7**		µg/l		20.0		98	70-130	8	20
Carbon disulfide	**20.1**		µg/l		20.0		100	70-130	8	20
Carbon tetrachloride	**19.5**		µg/l		20.0		98	70-130	8	20
Chlorobenzene	**18.6**		µg/l		20.0		93	70-130	5	20
Chloroethane	**21.4**		µg/l		20.0		107	70-130	4	20
Chloroform	**19.2**		µg/l		20.0		96	70-130	7	20
Chloromethane	**19.4**		µg/l		20.0		97	70-130	7	20
2-Chlorotoluene	**19.0**		µg/l		20.0		95	70-130	7	20
4-Chlorotoluene	**18.8**		µg/l		20.0		94	70-130	8	20
1,2-Dibromo-3-chloropropane	**19.8**		µg/l		20.0		99	70-130	2	20
Dibromochloromethane	**21.3**		µg/l		20.0		106	70-130	4	20
1,2-Dibromoethane (EDB)	**20.7**		µg/l		20.0		104	70-130	5	20
Dibromomethane	**20.5**		µg/l		20.0		102	70-130	7	20
1,2-Dichlorobenzene	**18.8**		µg/l		20.0		94	70-130	5	20
1,3-Dichlorobenzene	**18.8**		µg/l		20.0		94	70-130	7	20
1,4-Dichlorobenzene	**17.9**		µg/l		20.0		90	70-130	6	20
Dichlorodifluoromethane (Freon12)	**18.2**		µg/l		20.0		91	70-130	16	20
1,1-Dichloroethane	**19.6**		µg/l		20.0		98	70-130	7	20
1,2-Dichloroethane	**20.6**		µg/l		20.0		103	70-130	6	20
1,1-Dichloroethene	**21.3**		µg/l		20.0		106	70-130	3	20
cis-1,2-Dichloroethene	**20.2**		µg/l		20.0		101	70-130	5	20
trans-1,2-Dichloroethene	**20.4**		µg/l		20.0		102	70-130	4	20
1,2-Dichloropropane	**19.7**		µg/l		20.0		98	70-130	6	20
1,3-Dichloropropane	**19.9**		µg/l		20.0		100	70-130	6	20
2,2-Dichloropropane	**18.5**		µg/l		20.0		93	70-130	11	20
1,1-Dichloropropene	**17.9**		µg/l		20.0		90	70-130	10	20
cis-1,3-Dichloropropene	**19.9**		µg/l		20.0		100	70-130	7	20
trans-1,3-Dichloropropene	**18.7**		µg/l		20.0		93	70-130	6	20
Ethylbenzene	**19.3**		µg/l		20.0		97	70-130	8	20
Hexachlorobutadiene	**18.0**		µg/l		20.0		90	70-130	12	20
2-Hexanone (MBK)	**20.0**		µg/l		20.0		100	70-130	6	20
Isopropylbenzene	**19.4**		µg/l		20.0		97	70-130	7	20
4-Isopropyltoluene	**18.6**		µg/l		20.0		93	70-130	7	20
Methyl tert-butyl ether	**19.1**		µg/l		20.0		95	70-130	3	20
4-Methyl-2-pentanone (MIBK)	**21.6**		µg/l		20.0		108	70-130	3	20
Methylene chloride	**19.8**		µg/l		20.0		99	70-130	2	20
Naphthalene	**15.9**		µg/l		20.0		80	70-130	6	20
n-Propylbenzene	**19.1**		µg/l		20.0		96	70-130	6	20
Styrene	**19.6**		µg/l		20.0		98	70-130	6	20
1,1,1,2-Tetrachloroethane	**19.8**		µg/l		20.0		99	70-130	4	20

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1506064 - SW846 5030 Water MS										
LCS Dup (1506064-BSD1)		QM10			Prepared & Analyzed: 03-Apr-15					
1,1,2,2-Tetrachloroethane	**22.8**		µg/l		20.0		114	70-130	4	20
Tetrachloroethene	**18.6**		µg/l		20.0		93	70-130	9	20
Toluene	**20.1**		µg/l		20.0		101	70-130	6	20
1,2,3-Trichlorobenzene	**19.0**		µg/l		20.0		95	70-130	6	20
1,2,4-Trichlorobenzene	**16.9**		µg/l		20.0		84	70-130	7	20
1,3,5-Trichlorobenzene	**17.8**		µg/l		20.0		89	70-130	8	20
1,1,1-Trichloroethane	**21.3**		µg/l		20.0		106	70-130	8	20
1,1,2-Trichloroethane	**19.9**		µg/l		20.0		100	70-130	4	20
Trichloroethene	**18.4**		µg/l		20.0		92	70-130	5	20
Trichlorofluoromethane (Freon 11)	**19.9**		µg/l		20.0		100	70-130	8	20
1,2,3-Trichloropropane	**19.5**		µg/l		20.0		97	70-130	6	20
1,2,4-Trimethylbenzene	**19.5**		µg/l		20.0		97	70-130	7	20
1,3,5-Trimethylbenzene	**19.8**		µg/l		20.0		99	70-130	8	20
Vinyl chloride	**21.7**		µg/l		20.0		108	70-130	8	20
m,p-Xylene	**19.5**		µg/l		20.0		97	70-130	6	20
o-Xylene	**19.6**		µg/l		20.0		98	70-130	6	20
Tetrahydrofuran	**19.4**		µg/l		20.0		97	70-130	5	20
Ethyl ether	**20.8**		µg/l		20.0		104	70-130	2	20
Tert-amyl methyl ether	**17.5**		µg/l		20.0		87	70-130	6	20
Ethyl tert-butyl ether	**18.7**		µg/l		20.0		94	70-130	4	20
Di-isopropyl ether	**19.6**		µg/l		20.0		98	70-130	5	20
Tert-Butanol / butyl alcohol	**194**		µg/l		200		97	70-130	3	20
1,4-Dioxane	**212**		µg/l		200		106	70-130	1	20
trans-1,4-Dichloro-2-butene	**18.7**		µg/l		20.0		93	70-130	10	20
Ethanol	**533**	QM9, QR5	µg/l		400		133	70-130	22	20
Surrogate: 4-Bromofluorobenzene	*50.6*		µg/l		*50.0*		*101*	*70-130*		
Surrogate: Toluene-d8	*51.4*		µg/l		*50.0*		*103*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*53.4*		µg/l		*50.0*		*107*	*70-130*		
Surrogate: Dibromofluoromethane	*53.0*		µg/l		*50.0*		*106*	*70-130*		
Batch 1506192 - SW846 5030 Water MS										
Blank (1506192-BLK1)					Prepared & Analyzed: 06-Apr-15					
1,1,2-Trichlorotrifluoroethane (Freon 113)	< 1.0		µg/l	1.0						
Acetone	< 10.0		µg/l	10.0						
Acrylonitrile	< 0.5		µg/l	0.5						
Benzene	< 1.0		µg/l	1.0						
Bromobenzene	< 1.0		µg/l	1.0						
Bromochloromethane	< 1.0		µg/l	1.0						
Bromodichloromethane	< 0.5		µg/l	0.5						
Bromoform	< 1.0		µg/l	1.0						
Bromomethane	< 2.0		µg/l	2.0						
2-Butanone (MEK)	< 10.0		µg/l	10.0						
n-Butylbenzene	< 1.0		µg/l	1.0						
sec-Butylbenzene	< 1.0		µg/l	1.0						
tert-Butylbenzene	< 1.0		µg/l	1.0						
Carbon disulfide	< 2.0		µg/l	2.0						
Carbon tetrachloride	< 1.0		µg/l	1.0						
Chlorobenzene	< 1.0		µg/l	1.0						
Chloroethane	< 2.0		µg/l	2.0						
Chloroform	< 1.0		µg/l	1.0						
Chloromethane	< 2.0		µg/l	2.0						
2-Chlorotoluene	< 1.0		µg/l	1.0						

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1506192 - SW846 5030 Water MS										
Blank (1506192-BLK1)					Prepared & Analyzed: 06-Apr-15					
4-Chlorotoluene	< 1.0		µg/l	1.0						
1,2-Dibromo-3-chloropropane	< 2.0		µg/l	2.0						
Dibromochloromethane	< 0.5		µg/l	0.5						
1,2-Dibromoethane (EDB)	< 0.5		µg/l	0.5						
Dibromomethane	< 1.0		µg/l	1.0						
1,2-Dichlorobenzene	< 1.0		µg/l	1.0						
1,3-Dichlorobenzene	< 1.0		µg/l	1.0						
1,4-Dichlorobenzene	< 1.0		µg/l	1.0						
Dichlorodifluoromethane (Freon12)	< 2.0		µg/l	2.0						
1,1-Dichloroethane	< 1.0		µg/l	1.0						
1,2-Dichloroethane	< 1.0		µg/l	1.0						
1,1-Dichloroethene	< 1.0		µg/l	1.0						
cis-1,2-Dichloroethene	< 1.0		µg/l	1.0						
trans-1,2-Dichloroethene	< 1.0		µg/l	1.0						
1,2-Dichloropropane	< 1.0		µg/l	1.0						
1,3-Dichloropropane	< 1.0		µg/l	1.0						
2,2-Dichloropropane	< 1.0		µg/l	1.0						
1,1-Dichloropropene	< 1.0		µg/l	1.0						
cis-1,3-Dichloropropene	< 0.5		µg/l	0.5						
trans-1,3-Dichloropropene	< 0.5		µg/l	0.5						
Ethylbenzene	< 1.0		µg/l	1.0						
Hexachlorobutadiene	< 0.5		µg/l	0.5						
2-Hexanone (MBK)	< 10.0		µg/l	10.0						
Isopropylbenzene	< 1.0		µg/l	1.0						
4-Isopropyltoluene	< 1.0		µg/l	1.0						
Methyl tert-butyl ether	< 1.0		µg/l	1.0						
4-Methyl-2-pentanone (MIBK)	< 10.0		µg/l	10.0						
Methylene chloride	< 2.0		µg/l	2.0						
Naphthalene	< 1.0		µg/l	1.0						
n-Propylbenzene	< 1.0		µg/l	1.0						
Styrene	< 1.0		µg/l	1.0						
1,1,1,2-Tetrachloroethane	< 1.0		µg/l	1.0						
1,1,2,2-Tetrachloroethane	< 0.5		µg/l	0.5						
Tetrachloroethene	< 1.0		µg/l	1.0						
Toluene	< 1.0		µg/l	1.0						
1,2,3-Trichlorobenzene	< 1.0		µg/l	1.0						
1,2,4-Trichlorobenzene	< 1.0		µg/l	1.0						
1,3,5-Trichlorobenzene	< 1.0		µg/l	1.0						
1,1,1-Trichloroethane	< 1.0		µg/l	1.0						
1,1,2-Trichloroethane	< 1.0		µg/l	1.0						
Trichloroethene	< 1.0		µg/l	1.0						
Trichlorofluoromethane (Freon 11)	< 1.0		µg/l	1.0						
1,2,3-Trichloropropane	< 1.0		µg/l	1.0						
1,2,4-Trimethylbenzene	< 1.0		µg/l	1.0						
1,3,5-Trimethylbenzene	< 1.0		µg/l	1.0						
Vinyl chloride	< 1.0		µg/l	1.0						
m,p-Xylene	< 2.0		µg/l	2.0						
o-Xylene	< 1.0		µg/l	1.0						
Tetrahydrofuran	< 2.0		µg/l	2.0						
Ethyl ether	< 1.0		µg/l	1.0						
Tert-amyl methyl ether	< 1.0		µg/l	1.0						
Ethyl tert-butyl ether	< 1.0		µg/l	1.0						

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1506192 - SW846 5030 Water MS										
Blank (1506192-BLK1)					Prepared & Analyzed: 06-Apr-15					
Di-isopropyl ether	< 1.0		µg/l	1.0						
Tert-Butanol / butyl alcohol	< 10.0		µg/l	10.0						
1,4-Dioxane	< 20.0		µg/l	20.0						
trans-1,4-Dichloro-2-butene	< 5.0		µg/l	5.0						
Ethanol	< 400		µg/l	400						
Surrogate: 4-Bromofluorobenzene	*48.2*		µg/l		*50.0*		*96*	*70-130*		
Surrogate: Toluene-d8	*52.0*		µg/l		*50.0*		*104*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*53.9*		µg/l		*50.0*		*108*	*70-130*		
Surrogate: Dibromofluoromethane	*50.3*		µg/l		*50.0*		*101*	*70-130*		
LCS (1506192-BS1)					Prepared & Analyzed: 06-Apr-15					
1,1,2-Trichlorotrifluoroethane (Freon 113)	**21.4**		µg/l		20.0		107	70-130		
Acetone	**24.5**		µg/l		20.0		123	70-130		
Acrylonitrile	**21.3**		µg/l		20.0		107	70-130		
Benzene	**20.8**		µg/l		20.0		104	70-130		
Bromobenzene	**19.1**		µg/l		20.0		96	70-130		
Bromochloromethane	**20.7**		µg/l		20.0		104	70-130		
Bromodichloromethane	**21.4**		µg/l		20.0		107	70-130		
Bromoform	**18.3**		µg/l		20.0		92	70-130		
Bromomethane	**25.2**		µg/l		20.0		126	70-130		
2-Butanone (MEK)	**20.8**		µg/l		20.0		104	70-130		
n-Butylbenzene	**17.4**		µg/l		20.0		87	70-130		
sec-Butylbenzene	**19.5**		µg/l		20.0		98	70-130		
tert-Butylbenzene	**20.4**		µg/l		20.0		102	70-130		
Carbon disulfide	**28.6**	QC2	µg/l		20.0		143	70-130		
Carbon tetrachloride	**20.9**		µg/l		20.0		105	70-130		
Chlorobenzene	**18.8**		µg/l		20.0		94	70-130		
Chloroethane	**22.6**		µg/l		20.0		113	70-130		
Chloroform	**20.2**		µg/l		20.0		101	70-130		
Chloromethane	**19.6**		µg/l		20.0		98	70-130		
2-Chlorotoluene	**19.4**		µg/l		20.0		97	70-130		
4-Chlorotoluene	**19.1**		µg/l		20.0		95	70-130		
1,2-Dibromo-3-chloropropane	**17.4**		µg/l		20.0		87	70-130		
Dibromochloromethane	**21.2**		µg/l		20.0		106	70-130		
1,2-Dibromoethane (EDB)	**20.9**		µg/l		20.0		105	70-130		
Dibromomethane	**20.6**		µg/l		20.0		103	70-130		
1,2-Dichlorobenzene	**18.8**		µg/l		20.0		94	70-130		
1,3-Dichlorobenzene	**18.8**		µg/l		20.0		94	70-130		
1,4-Dichlorobenzene	**17.6**		µg/l		20.0		88	70-130		
Dichlorodifluoromethane (Freon12)	**19.8**		µg/l		20.0		99	70-130		
1,1-Dichloroethane	**21.1**		µg/l		20.0		106	70-130		
1,2-Dichloroethane	**21.3**		µg/l		20.0		107	70-130		
1,1-Dichloroethene	**22.7**		µg/l		20.0		113	70-130		
cis-1,2-Dichloroethene	**21.0**		µg/l		20.0		105	70-130		
trans-1,2-Dichloroethene	**21.2**		µg/l		20.0		106	70-130		
1,2-Dichloropropane	**20.6**		µg/l		20.0		103	70-130		
1,3-Dichloropropane	**20.4**		µg/l		20.0		102	70-130		
2,2-Dichloropropane	**19.9**		µg/l		20.0		99	70-130		
1,1-Dichloropropene	**19.6**		µg/l		20.0		98	70-130		
cis-1,3-Dichloropropene	**20.4**		µg/l		20.0		102	70-130		
trans-1,3-Dichloropropene	**19.2**		µg/l		20.0		96	70-130		
Ethylbenzene	**19.9**		µg/l		20.0		100	70-130		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1506192 - SW846 5030 Water MS										
LCS (1506192-BS1)					Prepared & Analyzed: 06-Apr-15					
Hexachlorobutadiene	**17.5**		µg/l		20.0		87	70-130		
2-Hexanone (MBK)	**20.8**		µg/l		20.0		104	70-130		
Isopropylbenzene	**19.9**		µg/l		20.0		99	70-130		
4-Isopropyltoluene	**18.7**		µg/l		20.0		94	70-130		
Methyl tert-butyl ether	**19.4**		µg/l		20.0		97	70-130		
4-Methyl-2-pentanone (MIBK)	**21.8**		µg/l		20.0		109	70-130		
Methylene chloride	**20.8**		µg/l		20.0		104	70-130		
Naphthalene	**14.4**		µg/l		20.0		72	70-130		
n-Propylbenzene	**19.6**		µg/l		20.0		98	70-130		
Styrene	**19.3**		µg/l		20.0		97	70-130		
1,1,1,2-Tetrachloroethane	**19.7**		µg/l		20.0		98	70-130		
1,1,2,2-Tetrachloroethane	**21.0**		µg/l		20.0		105	70-130		
Tetrachloroethene	**19.8**		µg/l		20.0		99	70-130		
Toluene	**20.8**		µg/l		20.0		104	70-130		
1,2,3-Trichlorobenzene	**17.1**		µg/l		20.0		85	70-130		
1,2,4-Trichlorobenzene	**15.7**		µg/l		20.0		79	70-130		
1,3,5-Trichlorobenzene	**17.4**		µg/l		20.0		87	70-130		
1,1,1-Trichloroethane	**22.6**		µg/l		20.0		113	70-130		
1,1,2-Trichloroethane	**20.4**		µg/l		20.0		102	70-130		
Trichloroethene	**19.2**		µg/l		20.0		96	70-130		
Trichlorofluoromethane (Freon 11)	**22.1**		µg/l		20.0		110	70-130		
1,2,3-Trichloropropane	**19.0**		µg/l		20.0		95	70-130		
1,2,4-Trimethylbenzene	**19.7**		µg/l		20.0		98	70-130		
1,3,5-Trimethylbenzene	**20.1**		µg/l		20.0		100	70-130		
Vinyl chloride	**24.6**		µg/l		20.0		123	70-130		
m,p-Xylene	**19.9**		µg/l		20.0		99	70-130		
o-Xylene	**19.8**		µg/l		20.0		99	70-130		
Tetrahydrofuran	**20.4**		µg/l		20.0		102	70-130		
Ethyl ether	**21.5**		µg/l		20.0		107	70-130		
Tert-amyl methyl ether	**18.6**		µg/l		20.0		93	70-130		
Ethyl tert-butyl ether	**19.3**		µg/l		20.0		97	70-130		
Di-isopropyl ether	**20.3**		µg/l		20.0		102	70-130		
Tert-Butanol / butyl alcohol	**204**		µg/l		200		102	70-130		
1,4-Dioxane	**206**		µg/l		200		103	70-130		
trans-1,4-Dichloro-2-butene	**15.7**		µg/l		20.0		78	70-130		
Ethanol	**455**		µg/l		400		114	70-130		
Surrogate: 4-Bromofluorobenzene	*51.0*		µg/l		*50.0*		*102*	*70-130*		
Surrogate: Toluene-d8	*52.4*		µg/l		*50.0*		*105*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*53.4*		µg/l		*50.0*		*107*	*70-130*		
Surrogate: Dibromofluoromethane	*53.9*		µg/l		*50.0*		*108*	*70-130*		
LCS Dup (1506192-BSD1)					Prepared & Analyzed: 06-Apr-15					
1,1,2-Trichlorotrifluoroethane (Freon 113)	**23.5**		µg/l		20.0		118	70-130	9	20
Acetone	**24.5**		µg/l		20.0		122	70-130	0.2	20
Acrylonitrile	**21.4**		µg/l		20.0		107	70-130	0.5	20
Benzene	**22.0**		µg/l		20.0		110	70-130	6	20
Bromobenzene	**19.6**		µg/l		20.0		98	70-130	3	20
Bromochloromethane	**22.2**		µg/l		20.0		111	70-130	7	20
Bromodichloromethane	**22.7**		µg/l		20.0		114	70-130	6	20
Bromoform	**19.1**		µg/l		20.0		95	70-130	4	20
Bromomethane	**27.1**		µg/l		20.0		136	70-130	8	20
2-Butanone (MEK)	**21.8**		µg/l		20.0		109	70-130	5	20

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1506192 - SW846 5030 Water MS										
LCS Dup (1506192-BSD1)					Prepared & Analyzed: 06-Apr-15					
n-Butylbenzene	**18.6**		µg/l		20.0		93	70-130	7	20
sec-Butylbenzene	**20.5**		µg/l		20.0		103	70-130	5	20
tert-Butylbenzene	**21.5**		µg/l		20.0		108	70-130	5	20
Carbon disulfide	**31.7**	QC2	µg/l		20.0		158	70-130	10	20
Carbon tetrachloride	**22.5**		µg/l		20.0		113	70-130	7	20
Chlorobenzene	**19.8**		µg/l		20.0		99	70-130	5	20
Chloroethane	**24.3**		µg/l		20.0		122	70-130	7	20
Chloroform	**21.4**		µg/l		20.0		107	70-130	6	20
Chloromethane	**21.5**		µg/l		20.0		107	70-130	9	20
2-Chlorotoluene	**20.3**		µg/l		20.0		101	70-130	4	20
4-Chlorotoluene	**20.0**		µg/l		20.0		100	70-130	5	20
1,2-Dibromo-3-chloropropane	**18.6**		µg/l		20.0		93	70-130	7	20
Dibromochloromethane	**22.6**		µg/l		20.0		113	70-130	6	20
1,2-Dibromoethane (EDB)	**21.8**		µg/l		20.0		109	70-130	4	20
Dibromomethane	**21.4**		µg/l		20.0		107	70-130	4	20
1,2-Dichlorobenzene	**19.3**		µg/l		20.0		97	70-130	3	20
1,3-Dichlorobenzene	**19.9**		µg/l		20.0		99	70-130	5	20
1,4-Dichlorobenzene	**18.7**		µg/l		20.0		94	70-130	6	20
Dichlorodifluoromethane (Freon12)	**21.2**		µg/l		20.0		106	70-130	7	20
1,1-Dichloroethane	**22.4**		µg/l		20.0		112	70-130	6	20
1,2-Dichloroethane	**22.2**		µg/l		20.0		111	70-130	4	20
1,1-Dichloroethene	**24.7**		µg/l		20.0		124	70-130	9	20
cis-1,2-Dichloroethene	**22.5**		µg/l		20.0		113	70-130	7	20
trans-1,2-Dichloroethene	**22.3**		µg/l		20.0		111	70-130	5	20
1,2-Dichloropropane	**21.6**		µg/l		20.0		108	70-130	5	20
1,3-Dichloropropane	**21.4**		µg/l		20.0		107	70-130	4	20
2,2-Dichloropropane	**20.8**		µg/l		20.0		104	70-130	4	20
1,1-Dichloropropene	**21.0**		µg/l		20.0		105	70-130	7	20
cis-1,3-Dichloropropene	**21.6**		µg/l		20.0		108	70-130	6	20
trans-1,3-Dichloropropene	**20.2**		µg/l		20.0		101	70-130	5	20
Ethylbenzene	**21.1**		µg/l		20.0		106	70-130	6	20
Hexachlorobutadiene	**19.2**		µg/l		20.0		96	70-130	9	20
2-Hexanone (MBK)	**20.9**		µg/l		20.0		104	70-130	0.7	20
Isopropylbenzene	**21.1**		µg/l		20.0		106	70-130	6	20
4-Isopropyltoluene	**20.0**		µg/l		20.0		100	70-130	7	20
Methyl tert-butyl ether	**20.7**		µg/l		20.0		103	70-130	6	20
4-Methyl-2-pentanone (MIBK)	**22.2**		µg/l		20.0		111	70-130	2	20
Methylene chloride	**21.8**		µg/l		20.0		109	70-130	5	20
Naphthalene	**14.7**		µg/l		20.0		73	70-130	2	20
n-Propylbenzene	**21.0**		µg/l		20.0		105	70-130	7	20
Styrene	**20.5**		µg/l		20.0		102	70-130	6	20
1,1,1,2-Tetrachloroethane	**21.2**		µg/l		20.0		106	70-130	7	20
1,1,2,2-Tetrachloroethane	**22.3**		µg/l		20.0		112	70-130	6	20
Tetrachloroethene	**21.2**		µg/l		20.0		106	70-130	7	20
Toluene	**22.2**		µg/l		20.0		111	70-130	6	20
1,2,3-Trichlorobenzene	**18.3**		µg/l		20.0		91	70-130	7	20
1,2,4-Trichlorobenzene	**16.7**		µg/l		20.0		83	70-130	6	20
1,3,5-Trichlorobenzene	**18.5**		µg/l		20.0		92	70-130	6	20
1,1,1-Trichloroethane	**24.5**		µg/l		20.0		122	70-130	8	20
1,1,2-Trichloroethane	**21.4**		µg/l		20.0		107	70-130	5	20
Trichloroethene	**20.9**		µg/l		20.0		105	70-130	9	20
Trichlorofluoromethane (Freon 11)	**23.6**		µg/l		20.0		118	70-130	7	20

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1506192 - SW846 5030 Water MS										
LCS Dup (1506192-BSD1)					Prepared & Analyzed: 06-Apr-15					
1,2,3-Trichloropropane	**19.8**		µg/l		20.0		99	70-130	4	20
1,2,4-Trimethylbenzene	**20.8**		µg/l		20.0		104	70-130	6	20
1,3,5-Trimethylbenzene	**21.3**		µg/l		20.0		107	70-130	6	20
Vinyl chloride	**24.9**		µg/l		20.0		124	70-130	0.9	20
m,p-Xylene	**21.0**		µg/l		20.0		105	70-130	5	20
o-Xylene	**20.5**		µg/l		20.0		103	70-130	4	20
Tetrahydrofuran	**20.6**		µg/l		20.0		103	70-130	0.7	20
Ethyl ether	**22.4**		µg/l		20.0		112	70-130	4	20
Tert-amyl methyl ether	**19.2**		µg/l		20.0		96	70-130	3	20
Ethyl tert-butyl ether	**20.4**		µg/l		20.0		102	70-130	5	20
Di-isopropyl ether	**21.5**		µg/l		20.0		107	70-130	6	20
Tert-Butanol / butyl alcohol	**209**		µg/l		200		105	70-130	3	20
1,4-Dioxane	**207**		µg/l		200		104	70-130	0.7	20
trans-1,4-Dichloro-2-butene	**16.2**		µg/l		20.0		81	70-130	3	20
Ethanol	**495**		µg/l		400		124	70-130	8	20
Surrogate: 4-Bromofluorobenzene	*50.8*		µg/l		*50.0*		*102*	*70-130*		
Surrogate: Toluene-d8	*52.6*		µg/l		*50.0*		*105*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*54.4*		µg/l		*50.0*		*109*	*70-130*		
Surrogate: Dibromofluoromethane	*54.1*		µg/l		*50.0*		*108*	*70-130*		
Matrix Spike (1506192-MS1)			**Source: SC05125-21**		Prepared & Analyzed: 06-Apr-15					
1,1,2-Trichlorotrifluoroethane (Freon 113)	**21.0**	D	µg/l		20.0	BRL	105	70-130		
Acetone	**23.4**	D	µg/l		20.0	BRL	117	70-130		
Acrylonitrile	**21.2**	D	µg/l		20.0	BRL	106	70-130		
Benzene	**20.5**	D	µg/l		20.0	BRL	102	70-130		
Bromobenzene	**18.8**	D	µg/l		20.0	BRL	94	70-130		
Bromochloromethane	**21.2**	D	µg/l		20.0	BRL	106	70-130		
Bromodichloromethane	**21.9**	D	µg/l		20.0	BRL	110	70-130		
Bromoform	**19.1**	D	µg/l		20.0	BRL	96	70-130		
Bromomethane	**26.2**	QM7, D	µg/l		20.0	BRL	131	70-130		
2-Butanone (MEK)	**20.0**	D	µg/l		20.0	BRL	100	70-130		
n-Butylbenzene	**18.0**	D	µg/l		20.0	BRL	90	70-130		
sec-Butylbenzene	**20.0**	D	µg/l		20.0	BRL	100	70-130		
tert-Butylbenzene	**20.5**	D	µg/l		20.0	BRL	103	70-130		
Carbon disulfide	**21.4**	D	µg/l		20.0	BRL	107	70-130		
Carbon tetrachloride	**20.1**	D	µg/l		20.0	BRL	100	70-130		
Chlorobenzene	**18.7**	D	µg/l		20.0	BRL	94	70-130		
Chloroethane	**21.9**	D	µg/l		20.0	BRL	109	70-130		
Chloroform	**20.0**	D	µg/l		20.0	BRL	100	70-130		
Chloromethane	**20.1**	D	µg/l		20.0	BRL	100	70-130		
2-Chlorotoluene	**18.9**	D	µg/l		20.0	BRL	95	70-130		
4-Chlorotoluene	**19.4**	D	µg/l		20.0	BRL	97	70-130		
1,2-Dibromo-3-chloropropane	**18.2**	D	µg/l		20.0	BRL	91	70-130		
Dibromochloromethane	**21.6**	D	µg/l		20.0	BRL	108	70-130		
1,2-Dibromoethane (EDB)	**20.6**	D	µg/l		20.0	BRL	103	70-130		
Dibromomethane	**21.0**	D	µg/l		20.0	BRL	105	70-130		
1,2-Dichlorobenzene	**18.8**	D	µg/l		20.0	BRL	94	70-130		
1,3-Dichlorobenzene	**19.3**	D	µg/l		20.0	BRL	97	70-130		
1,4-Dichlorobenzene	**18.2**	D	µg/l		20.0	BRL	91	70-130		
Dichlorodifluoromethane (Freon12)	**19.0**	D	µg/l		20.0	BRL	95	70-130		
1,1-Dichloroethane	**20.4**	D	µg/l		20.0	BRL	102	70-130		
1,2-Dichloroethane	**21.3**	D	µg/l		20.0	BRL	107	70-130		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1506192 - SW846 5030 Water MS										
Matrix Spike (1506192-MS1)			**Source: SC05125-21**		Prepared & Analyzed: 06-Apr-15					
1,1-Dichloroethene	**21.7**	D	µg/l		20.0	BRL	109	70-130		
cis-1,2-Dichloroethene	**21.1**	D	µg/l		20.0	0.5	103	70-130		
trans-1,2-Dichloroethene	**20.8**	D	µg/l		20.0	BRL	104	70-130		
1,2-Dichloropropane	**20.6**	D	µg/l		20.0	BRL	103	70-130		
1,3-Dichloropropane	**20.8**	D	µg/l		20.0	BRL	104	70-130		
2,2-Dichloropropane	**18.8**	D	µg/l		20.0	BRL	94	70-130		
1,1-Dichloropropene	**19.0**	D	µg/l		20.0	BRL	95	70-130		
cis-1,3-Dichloropropene	**20.4**	D	µg/l		20.0	BRL	102	70-130		
trans-1,3-Dichloropropene	**19.2**	D	µg/l		20.0	BRL	96	70-130		
Ethylbenzene	**19.8**	D	µg/l		20.0	BRL	99	70-130		
Hexachlorobutadiene	**18.9**	D	µg/l		20.0	BRL	95	70-130		
2-Hexanone (MBK)	**21.0**	D	µg/l		20.0	BRL	105	70-130		
Isopropylbenzene	**19.8**	D	µg/l		20.0	BRL	99	70-130		
4-Isopropyltoluene	**19.3**	D	µg/l		20.0	BRL	96	70-130		
Methyl tert-butyl ether	**19.7**	D	µg/l		20.0	BRL	98	70-130		
4-Methyl-2-pentanone (MIBK)	**21.6**	D	µg/l		20.0	BRL	108	70-130		
Methylene chloride	**20.4**	D	µg/l		20.0	BRL	102	70-130		
Naphthalene	**15.0**	D	µg/l		20.0	BRL	75	70-130		
n-Propylbenzene	**19.7**	D	µg/l		20.0	BRL	98	70-130		
Styrene	**20.0**	D	µg/l		20.0	BRL	100	70-130		
1,1,1,2-Tetrachloroethane	**19.8**	D	µg/l		20.0	BRL	99	70-130		
1,1,2,2-Tetrachloroethane	**22.3**	D	µg/l		20.0	BRL	111	70-130		
Tetrachloroethene	**19.5**	D	µg/l		20.0	BRL	98	70-130		
Toluene	**20.5**	D	µg/l		20.0	BRL	102	70-130		
1,2,3-Trichlorobenzene	**18.0**	D	µg/l		20.0	BRL	90	70-130		
1,2,4-Trichlorobenzene	**16.8**	D	µg/l		20.0	BRL	84	70-130		
1,3,5-Trichlorobenzene	**18.6**	D	µg/l		20.0	BRL	93	70-130		
1,1,1-Trichloroethane	**22.2**	D	µg/l		20.0	BRL	111	70-130		
1,1,2-Trichloroethane	**20.8**	D	µg/l		20.0	BRL	104	70-130		
Trichloroethene	**19.4**	D	µg/l		20.0	BRL	97	70-130		
Trichlorofluoromethane (Freon 11)	**21.0**	D	µg/l		20.0	BRL	105	70-130		
1,2,3-Trichloropropane	**18.9**	D	µg/l		20.0	BRL	94	70-130		
1,2,4-Trimethylbenzene	**20.1**	D	µg/l		20.0	BRL	101	70-130		
1,3,5-Trimethylbenzene	**20.5**	D	µg/l		20.0	BRL	103	70-130		
Vinyl chloride	**23.9**	D	µg/l		20.0	BRL	119	70-130		
m,p-Xylene	**19.8**	D	µg/l		20.0	BRL	99	70-130		
o-Xylene	**19.4**	D	µg/l		20.0	BRL	97	70-130		
Tetrahydrofuran	**20.0**	D	µg/l		20.0	BRL	100	70-130		
Ethyl ether	**21.5**	D	µg/l		20.0	BRL	107	70-130		
Tert-amyl methyl ether	**18.7**	D	µg/l		20.0	BRL	93	70-130		
Ethyl tert-butyl ether	**19.2**	D	µg/l		20.0	BRL	96	70-130		
Di-isopropyl ether	**20.3**	D	µg/l		20.0	BRL	101	70-130		
Tert-Butanol / butyl alcohol	**200**	D	µg/l		200	BRL	100	70-130		
1,4-Dioxane	**197**	D	µg/l		200	BRL	98	70-130		
trans-1,4-Dichloro-2-butene	**17.6**	D	µg/l		20.0	BRL	88	70-130		
Ethanol	**458**	D	µg/l		400	BRL	114	70-130		
Surrogate: 4-Bromofluorobenzene	*51.4*		µg/l		*50.0*		*103*	*70-130*		
Surrogate: Toluene-d8	*52.1*		µg/l		*50.0*		*104*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*53.2*		µg/l		*50.0*		*106*	*70-130*		
Surrogate: Dibromofluoromethane	*53.7*		µg/l		*50.0*		*107*	*70-130*		
Matrix Spike Dup (1506192-MSD1)			**Source: SC05125-21**		Prepared & Analyzed: 06-Apr-15					

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1506192 - SW846 5030 Water MS										
Matrix Spike Dup (1506192-MSD1)			**Source: SC05125-21**		Prepared & Analyzed: 06-Apr-15					
1,1,2-Trichlorotrifluoroethane (Freon 113)	**22.0**	D	µg/l		20.0	BRL	110	70-130	4	20
Acetone	**24.4**	D	µg/l		20.0	BRL	122	70-130	4	20
Acrylonitrile	**21.5**	D	µg/l		20.0	BRL	107	70-130	1	20
Benzene	**21.4**	D	µg/l		20.0	BRL	107	70-130	4	20
Bromobenzene	**19.2**	D	µg/l		20.0	BRL	96	70-130	2	20
Bromochloromethane	**21.4**	D	µg/l		20.0	BRL	107	70-130	0.8	20
Bromodichloromethane	**22.6**	D	µg/l		20.0	BRL	113	70-130	3	20
Bromoform	**18.5**	D	µg/l		20.0	BRL	92	70-130	3	20
Bromomethane	**27.2**	QM7, D	µg/l		20.0	BRL	136	70-130	4	20
2-Butanone (MEK)	**21.2**	D	µg/l		20.0	BRL	106	70-130	6	20
n-Butylbenzene	**18.3**	D	µg/l		20.0	BRL	92	70-130	2	20
sec-Butylbenzene	**20.5**	D	µg/l		20.0	BRL	102	70-130	2	20
tert-Butylbenzene	**21.3**	D	µg/l		20.0	BRL	107	70-130	4	20
Carbon disulfide	**28.2**	QC2, QR5, D	µg/l		20.0	BRL	141	70-130	27	20
Carbon tetrachloride	**21.3**	D	µg/l		20.0	BRL	106	70-130	6	20
Chlorobenzene	**19.3**	D	µg/l		20.0	BRL	96	70-130	3	20
Chloroethane	**23.4**	D	µg/l		20.0	BRL	117	70-130	7	20
Chloroform	**20.7**	D	µg/l		20.0	BRL	104	70-130	4	20
Chloromethane	**21.0**	D	µg/l		20.0	BRL	105	70-130	5	20
2-Chlorotoluene	**20.1**	D	µg/l		20.0	BRL	100	70-130	6	20
4-Chlorotoluene	**20.0**	D	µg/l		20.0	BRL	100	70-130	3	20
1,2-Dibromo-3-chloropropane	**17.8**	D	µg/l		20.0	BRL	89	70-130	2	20
Dibromochloromethane	**21.9**	D	µg/l		20.0	BRL	109	70-130	1	20
1,2-Dibromoethane (EDB)	**21.4**	D	µg/l		20.0	BRL	107	70-130	4	20
Dibromomethane	**21.0**	D	µg/l		20.0	BRL	105	70-130	0.2	20
1,2-Dichlorobenzene	**19.1**	D	µg/l		20.0	BRL	96	70-130	1	20
1,3-Dichlorobenzene	**19.6**	D	µg/l		20.0	BRL	98	70-130	1	20
1,4-Dichlorobenzene	**18.1**	D	µg/l		20.0	BRL	91	70-130	0.6	20
Dichlorodifluoromethane (Freon12)	**20.4**	D	µg/l		20.0	BRL	102	70-130	7	20
1,1-Dichloroethane	**21.4**	D	µg/l		20.0	BRL	107	70-130	5	20
1,2-Dichloroethane	**21.8**	D	µg/l		20.0	BRL	109	70-130	2	20
1,1-Dichloroethene	**23.6**	D	µg/l		20.0	BRL	118	70-130	8	20
cis-1,2-Dichloroethene	**22.0**	D	µg/l		20.0	0.5	107	70-130	4	20
trans-1,2-Dichloroethene	**21.7**	D	µg/l		20.0	BRL	108	70-130	4	20
1,2-Dichloropropane	**20.9**	D	µg/l		20.0	BRL	105	70-130	1	20
1,3-Dichloropropane	**20.8**	D	µg/l		20.0	BRL	104	70-130	0.3	20
2,2-Dichloropropane	**19.5**	D	µg/l		20.0	BRL	97	70-130	3	20
1,1-Dichloropropene	**20.3**	D	µg/l		20.0	BRL	101	70-130	6	20
cis-1,3-Dichloropropene	**21.0**	D	µg/l		20.0	BRL	105	70-130	3	20
trans-1,3-Dichloropropene	**19.3**	D	µg/l		20.0	BRL	96	70-130	0.6	20
Ethylbenzene	**20.6**	D	µg/l		20.0	BRL	103	70-130	4	20
Hexachlorobutadiene	**19.6**	D	µg/l		20.0	BRL	98	70-130	4	20
2-Hexanone (MBK)	**21.0**	D	µg/l		20.0	BRL	105	70-130	0.3	20
Isopropylbenzene	**20.6**	D	µg/l		20.0	BRL	103	70-130	4	20
4-Isopropyltoluene	**19.5**	D	µg/l		20.0	BRL	98	70-130	1	20
Methyl tert-butyl ether	**20.2**	D	µg/l		20.0	BRL	101	70-130	2	20
4-Methyl-2-pentanone (MIBK)	**22.4**	D	µg/l		20.0	BRL	112	70-130	3	20
Methylene chloride	**20.4**	D	µg/l		20.0	BRL	102	70-130	0.05	20
Naphthalene	**14.7**	D	µg/l		20.0	BRL	74	70-130	2	20
n-Propylbenzene	**20.4**	D	µg/l		20.0	BRL	102	70-130	4	20
Styrene	**20.0**	D	µg/l		20.0	BRL	100	70-130	0.2	20

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1506192 - SW846 5030 Water MS										
Matrix Spike Dup (1506192-MSD1)			**Source: SC05125-21**		Prepared & Analyzed: 06-Apr-15					
1,1,1,2-Tetrachloroethane	**20.2**	D	µg/l		20.0	BRL	101	70-130	2	20
1,1,2,2-Tetrachloroethane	**22.2**	D	µg/l		20.0	BRL	111	70-130	0.09	20
Tetrachloroethene	**20.4**	D	µg/l		20.0	BRL	102	70-130	4	20
Toluene	**21.7**	D	µg/l		20.0	BRL	109	70-130	6	20
1,2,3-Trichlorobenzene	**18.0**	D	µg/l		20.0	BRL	90	70-130	0.2	20
1,2,4-Trichlorobenzene	**16.2**	D	µg/l		20.0	BRL	81	70-130	3	20
1,3,5-Trichlorobenzene	**18.6**	D	µg/l		20.0	BRL	93	70-130	0	20
1,1,1-Trichloroethane	**23.6**	D	µg/l		20.0	BRL	118	70-130	6	20
1,1,2-Trichloroethane	**21.1**	D	µg/l		20.0	BRL	106	70-130	2	20
Trichloroethene	**20.1**	D	µg/l		20.0	BRL	100	70-130	3	20
Trichlorofluoromethane (Freon 11)	**22.5**	D	µg/l		20.0	BRL	112	70-130	7	20
1,2,3-Trichloropropane	**19.0**	D	µg/l		20.0	BRL	95	70-130	0.5	20
1,2,4-Trimethylbenzene	**20.5**	D	µg/l		20.0	BRL	102	70-130	2	20
1,3,5-Trimethylbenzene	**21.1**	D	µg/l		20.0	BRL	106	70-130	3	20
Vinyl chloride	**25.7**	D	µg/l		20.0	BRL	129	70-130	7	20
m,p-Xylene	**20.4**	D	µg/l		20.0	BRL	102	70-130	3	20
o-Xylene	**20.5**	D	µg/l		20.0	BRL	103	70-130	5	20
Tetrahydrofuran	**21.1**	D	µg/l		20.0	BRL	105	70-130	6	20
Ethyl ether	**21.6**	D	µg/l		20.0	BRL	108	70-130	0.3	20
Tert-amyl methyl ether	**18.6**	D	µg/l		20.0	BRL	93	70-130	0.2	20
Ethyl tert-butyl ether	**19.4**	D	µg/l		20.0	BRL	97	70-130	0.8	20
Di-isopropyl ether	**21.0**	D	µg/l		20.0	BRL	105	70-130	4	20
Tert-Butanol / butyl alcohol	**205**	D	µg/l		200	BRL	102	70-130	2	20
1,4-Dioxane	**195**	D	µg/l		200	BRL	97	70-130	1	20
trans-1,4-Dichloro-2-butene	**15.9**	D	µg/l		20.0	BRL	79	70-130	10	20
Ethanol	**463**	D	µg/l		400	BRL	116	70-130	1	20
Surrogate: 4-Bromofluorobenzene	*51.7*		µg/l		*50.0*		*103*	*70-130*		
Surrogate: Toluene-d8	*52.7*		µg/l		*50.0*		*105*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*53.7*		µg/l		*50.0*		*107*	*70-130*		
Surrogate: Dibromofluoromethane	*54.2*		µg/l		*50.0*		*108*	*70-130*		
Batch 1506298 - SW846 5030 Water MS										
Blank (1506298-BLK1)					Prepared & Analyzed: 07-Apr-15					
1,1,2-Trichlorotrifluoroethane (Freon 113)	< 1.0		µg/l	1.0						
Acetone	< 10.0		µg/l	10.0						
Acrylonitrile	< 0.5		µg/l	0.5						
Benzene	< 1.0		µg/l	1.0						
Bromobenzene	< 1.0		µg/l	1.0						
Bromochloromethane	< 1.0		µg/l	1.0						
Bromodichloromethane	< 0.5		µg/l	0.5						
Bromoform	< 1.0		µg/l	1.0						
Bromomethane	< 2.0		µg/l	2.0						
2-Butanone (MEK)	< 10.0		µg/l	10.0						
n-Butylbenzene	< 1.0		µg/l	1.0						
sec-Butylbenzene	< 1.0		µg/l	1.0						
tert-Butylbenzene	< 1.0		µg/l	1.0						
Carbon disulfide	< 2.0		µg/l	2.0						
Carbon tetrachloride	< 1.0		µg/l	1.0						
Chlorobenzene	< 1.0		µg/l	1.0						
Chloroethane	< 2.0		µg/l	2.0						
Chloroform	< 1.0		µg/l	1.0						
Chloromethane	< 2.0		µg/l	2.0						

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1506298 - SW846 5030 Water MS										
Blank (1506298-BLK1)					Prepared & Analyzed: 07-Apr-15					
2-Chlorotoluene	< 1.0		µg/l	1.0						
4-Chlorotoluene	< 1.0		µg/l	1.0						
1,2-Dibromo-3-chloropropane	< 2.0		µg/l	2.0						
Dibromochloromethane	< 0.5		µg/l	0.5						
1,2-Dibromoethane (EDB)	< 0.5		µg/l	0.5						
Dibromomethane	< 1.0		µg/l	1.0						
1,2-Dichlorobenzene	< 1.0		µg/l	1.0						
1,3-Dichlorobenzene	< 1.0		µg/l	1.0						
1,4-Dichlorobenzene	< 1.0		µg/l	1.0						
Dichlorodifluoromethane (Freon12)	< 2.0		µg/l	2.0						
1,1-Dichloroethane	< 1.0		µg/l	1.0						
1,2-Dichloroethane	< 1.0		µg/l	1.0						
1,1-Dichloroethene	< 1.0		µg/l	1.0						
cis-1,2-Dichloroethene	< 1.0		µg/l	1.0						
trans-1,2-Dichloroethene	< 1.0		µg/l	1.0						
1,2-Dichloropropane	< 1.0		µg/l	1.0						
1,3-Dichloropropane	< 1.0		µg/l	1.0						
2,2-Dichloropropane	< 1.0		µg/l	1.0						
1,1-Dichloropropene	< 1.0		µg/l	1.0						
cis-1,3-Dichloropropene	< 0.5		µg/l	0.5						
trans-1,3-Dichloropropene	< 0.5		µg/l	0.5						
Ethylbenzene	< 1.0		µg/l	1.0						
Hexachlorobutadiene	< 0.5		µg/l	0.5						
2-Hexanone (MBK)	< 10.0		µg/l	10.0						
Isopropylbenzene	< 1.0		µg/l	1.0						
4-Isopropyltoluene	< 1.0		µg/l	1.0						
Methyl tert-butyl ether	< 1.0		µg/l	1.0						
4-Methyl-2-pentanone (MIBK)	< 10.0		µg/l	10.0						
Methylene chloride	< 2.0		µg/l	2.0						
Naphthalene	< 1.0		µg/l	1.0						
n-Propylbenzene	< 1.0		µg/l	1.0						
Styrene	< 1.0		µg/l	1.0						
1,1,1,2-Tetrachloroethane	< 1.0		µg/l	1.0						
1,1,2,2-Tetrachloroethane	< 0.5		µg/l	0.5						
Tetrachloroethene	< 1.0		µg/l	1.0						
Toluene	< 1.0		µg/l	1.0						
1,2,3-Trichlorobenzene	< 1.0		µg/l	1.0						
1,2,4-Trichlorobenzene	< 1.0		µg/l	1.0						
1,3,5-Trichlorobenzene	< 1.0		µg/l	1.0						
1,1,1-Trichloroethane	< 1.0		µg/l	1.0						
1,1,2-Trichloroethane	< 1.0		µg/l	1.0						
Trichloroethene	< 1.0		µg/l	1.0						
Trichlorofluoromethane (Freon 11)	< 1.0		µg/l	1.0						
1,2,3-Trichloropropane	< 1.0		µg/l	1.0						
1,2,4-Trimethylbenzene	< 1.0		µg/l	1.0						
1,3,5-Trimethylbenzene	< 1.0		µg/l	1.0						
Vinyl chloride	< 1.0		µg/l	1.0						
m,p-Xylene	< 2.0		µg/l	2.0						
o-Xylene	< 1.0		µg/l	1.0						
Tetrahydrofuran	< 2.0		µg/l	2.0						
Ethyl ether	< 1.0		µg/l	1.0						
Tert-amyl methyl ether	< 1.0		µg/l	1.0						

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1506298 - SW846 5030 Water MS										
Blank (1506298-BLK1)					Prepared & Analyzed: 07-Apr-15					
Ethyl tert-butyl ether	< 1.0		µg/l	1.0						
Di-isopropyl ether	< 1.0		µg/l	1.0						
Tert-Butanol / butyl alcohol	< 10.0		µg/l	10.0						
1,4-Dioxane	< 20.0		µg/l	20.0						
trans-1,4-Dichloro-2-butene	< 5.0		µg/l	5.0						
Ethanol	< 400		µg/l	400						
Surrogate: 4-Bromofluorobenzene	*48.2*		µg/l		*50.0*		*96*	*70-130*		
Surrogate: Toluene-d8	*52.0*		µg/l		*50.0*		*104*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*54.3*		µg/l		*50.0*		*109*	*70-130*		
Surrogate: Dibromofluoromethane	*52.0*		µg/l		*50.0*		*104*	*70-130*		
LCS (1506298-BS1)					Prepared & Analyzed: 07-Apr-15					
1,1,2-Trichlorotrifluoroethane (Freon 113)	**23.0**		µg/l		20.0		115	70-130		
Acetone	**22.5**		µg/l		20.0		113	70-130		
Acrylonitrile	**22.3**		µg/l		20.0		112	70-130		
Benzene	**22.2**		µg/l		20.0		111	70-130		
Bromobenzene	**19.5**		µg/l		20.0		98	70-130		
Bromochloromethane	**22.4**		µg/l		20.0		112	70-130		
Bromodichloromethane	**23.1**		µg/l		20.0		115	70-130		
Bromoform	**18.4**		µg/l		20.0		92	70-130		
Bromomethane	**28.9**		µg/l		20.0		145	70-130		
2-Butanone (MEK)	**19.6**		µg/l		20.0		98	70-130		
n-Butylbenzene	**18.5**		µg/l		20.0		92	70-130		
sec-Butylbenzene	**20.4**		µg/l		20.0		102	70-130		
tert-Butylbenzene	**21.2**		µg/l		20.0		106	70-130		
Carbon disulfide	**23.0**		µg/l		20.0		115	70-130		
Carbon tetrachloride	**22.1**		µg/l		20.0		110	70-130		
Chlorobenzene	**19.4**		µg/l		20.0		97	70-130		
Chloroethane	**24.9**		µg/l		20.0		124	70-130		
Chloroform	**21.7**		µg/l		20.0		108	70-130		
Chloromethane	**22.1**		µg/l		20.0		111	70-130		
2-Chlorotoluene	**20.3**		µg/l		20.0		102	70-130		
4-Chlorotoluene	**20.4**		µg/l		20.0		102	70-130		
1,2-Dibromo-3-chloropropane	**17.5**		µg/l		20.0		88	70-130		
Dibromochloromethane	**22.1**		µg/l		20.0		110	70-130		
1,2-Dibromoethane (EDB)	**22.4**		µg/l		20.0		112	70-130		
Dibromomethane	**22.0**		µg/l		20.0		110	70-130		
1,2-Dichlorobenzene	**19.2**		µg/l		20.0		96	70-130		
1,3-Dichlorobenzene	**20.0**		µg/l		20.0		100	70-130		
1,4-Dichlorobenzene	**18.3**		µg/l		20.0		92	70-130		
Dichlorodifluoromethane (Freon12)	**20.1**		µg/l		20.0		101	70-130		
1,1-Dichloroethane	**22.0**		µg/l		20.0		110	70-130		
1,2-Dichloroethane	**22.5**		µg/l		20.0		112	70-130		
1,1-Dichloroethene	**24.2**		µg/l		20.0		121	70-130		
cis-1,2-Dichloroethene	**22.7**		µg/l		20.0		114	70-130		
trans-1,2-Dichloroethene	**22.7**		µg/l		20.0		113	70-130		
1,2-Dichloropropane	**21.9**		µg/l		20.0		109	70-130		
1,3-Dichloropropane	**21.9**		µg/l		20.0		110	70-130		
2,2-Dichloropropane	**24.2**		µg/l		20.0		121	70-130		
1,1-Dichloropropene	**20.8**		µg/l		20.0		104	70-130		
cis-1,3-Dichloropropene	**21.7**		µg/l		20.0		109	70-130		
trans-1,3-Dichloropropene	**20.3**		µg/l		20.0		101	70-130		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1506298 - SW846 5030 Water MS										
LCS (1506298-BS1)					Prepared & Analyzed: 07-Apr-15					
Ethylbenzene	**20.5**		µg/l		20.0		103	70-130		
Hexachlorobutadiene	**19.9**		µg/l		20.0		100	70-130		
2-Hexanone (MBK)	**20.8**		µg/l		20.0		104	70-130		
Isopropylbenzene	**20.6**		µg/l		20.0		103	70-130		
4-Isopropyltoluene	**20.0**		µg/l		20.0		100	70-130		
Methyl tert-butyl ether	**20.2**		µg/l		20.0		101	70-130		
4-Methyl-2-pentanone (MIBK)	**21.8**		µg/l		20.0		109	70-130		
Methylene chloride	**22.4**		µg/l		20.0		112	70-130		
Naphthalene	**14.4**		µg/l		20.0		72	70-130		
n-Propylbenzene	**20.4**		µg/l		20.0		102	70-130		
Styrene	**20.2**		µg/l		20.0		101	70-130		
1,1,1,2-Tetrachloroethane	**20.8**		µg/l		20.0		104	70-130		
1,1,2,2-Tetrachloroethane	**21.3**		µg/l		20.0		106	70-130		
Tetrachloroethene	**21.4**		µg/l		20.0		107	70-130		
Toluene	**22.2**		µg/l		20.0		111	70-130		
1,2,3-Trichlorobenzene	**18.1**		µg/l		20.0		90	70-130		
1,2,4-Trichlorobenzene	**16.4**		µg/l		20.0		82	70-130		
1,3,5-Trichlorobenzene	**18.9**		µg/l		20.0		94	70-130		
1,1,1-Trichloroethane	**24.3**		µg/l		20.0		122	70-130		
1,1,2-Trichloroethane	**21.5**		µg/l		20.0		107	70-130		
Trichloroethene	**20.4**		µg/l		20.0		102	70-130		
Trichlorofluoromethane (Freon 11)	**23.4**		µg/l		20.0		117	70-130		
1,2,3-Trichloropropane	**19.0**		µg/l		20.0		95	70-130		
1,2,4-Trimethylbenzene	**20.6**		µg/l		20.0		103	70-130		
1,3,5-Trimethylbenzene	**21.0**		µg/l		20.0		105	70-130		
Vinyl chloride	**25.3**		µg/l		20.0		126	70-130		
m,p-Xylene	**20.4**		µg/l		20.0		102	70-130		
o-Xylene	**20.2**		µg/l		20.0		101	70-130		
Tetrahydrofuran	**20.4**		µg/l		20.0		102	70-130		
Ethyl ether	**22.3**		µg/l		20.0		112	70-130		
Tert-amyl methyl ether	**18.7**		µg/l		20.0		93	70-130		
Ethyl tert-butyl ether	**20.2**		µg/l		20.0		101	70-130		
Di-isopropyl ether	**21.5**		µg/l		20.0		107	70-130		
Tert-Butanol / butyl alcohol	**201**		µg/l		200		101	70-130		
1,4-Dioxane	**216**		µg/l		200		108	70-130		
trans-1,4-Dichloro-2-butene	**18.8**		µg/l		20.0		94	70-130		
Ethanol	**487**		µg/l		400		122	70-130		
Surrogate: 4-Bromofluorobenzene	*51.3*		µg/l		*50.0*		*103*	*70-130*		
Surrogate: Toluene-d8	*53.1*		µg/l		*50.0*		*106*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*55.0*		µg/l		*50.0*		*110*	*70-130*		
Surrogate: Dibromofluoromethane	*54.0*		µg/l		*50.0*		*108*	*70-130*		
LCS Dup (1506298-BSD1)					Prepared & Analyzed: 07-Apr-15					
1,1,2-Trichlorotrifluoroethane (Freon 113)	**21.9**		µg/l		20.0		109	70-130	5	20
Acetone	**22.6**		µg/l		20.0		113	70-130	0.2	20
Acrylonitrile	**22.4**		µg/l		20.0		112	70-130	0.3	20
Benzene	**21.5**		µg/l		20.0		108	70-130	3	20
Bromobenzene	**19.6**		µg/l		20.0		98	70-130	0.4	20
Bromochloromethane	**21.6**		µg/l		20.0		108	70-130	3	20
Bromodichloromethane	**22.6**		µg/l		20.0		113	70-130	2	20
Bromoform	**19.1**		µg/l		20.0		95	70-130	3	20
Bromomethane	**27.5**		µg/l		20.0		137	70-130	5	20

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1506298 - SW846 5030 Water MS										
LCS Dup (1506298-BSD1)					Prepared & Analyzed: 07-Apr-15					
2-Butanone (MEK)	**22.0**		µg/l		20.0		110	70-130	11	20
n-Butylbenzene	**17.9**		µg/l		20.0		89	70-130	3	20
sec-Butylbenzene	**19.9**		µg/l		20.0		100	70-130	2	20
tert-Butylbenzene	**20.5**		µg/l		20.0		103	70-130	3	20
Carbon disulfide	**22.6**		µg/l		20.0		113	70-130	2	20
Carbon tetrachloride	**21.1**		µg/l		20.0		106	70-130	4	20
Chlorobenzene	**19.2**		µg/l		20.0		96	70-130	1	20
Chloroethane	**22.5**		µg/l		20.0		112	70-130	10	20
Chloroform	**21.2**		µg/l		20.0		106	70-130	3	20
Chloromethane	**20.6**		µg/l		20.0		103	70-130	7	20
2-Chlorotoluene	**19.9**		µg/l		20.0		100	70-130	2	20
4-Chlorotoluene	**19.5**		µg/l		20.0		98	70-130	4	20
1,2-Dibromo-3-chloropropane	**18.1**		µg/l		20.0		90	70-130	3	20
Dibromochloromethane	**22.2**		µg/l		20.0		111	70-130	0.6	20
1,2-Dibromoethane (EDB)	**22.2**		µg/l		20.0		111	70-130	0.8	20
Dibromomethane	**22.0**		µg/l		20.0		110	70-130	0.2	20
1,2-Dichlorobenzene	**19.1**		µg/l		20.0		96	70-130	0.6	20
1,3-Dichlorobenzene	**19.5**		µg/l		20.0		98	70-130	3	20
1,4-Dichlorobenzene	**18.3**		µg/l		20.0		92	70-130	0.1	20
Dichlorodifluoromethane (Freon12)	**20.4**		µg/l		20.0		102	70-130	1	20
1,1-Dichloroethane	**21.2**		µg/l		20.0		106	70-130	4	20
1,2-Dichloroethane	**22.6**		µg/l		20.0		113	70-130	0.6	20
1,1-Dichloroethene	**23.0**		µg/l		20.0		115	70-130	5	20
cis-1,2-Dichloroethene	**21.3**		µg/l		20.0		107	70-130	6	20
trans-1,2-Dichloroethene	**21.6**		µg/l		20.0		108	70-130	5	20
1,2-Dichloropropane	**21.3**		µg/l		20.0		106	70-130	3	20
1,3-Dichloropropane	**21.4**		µg/l		20.0		107	70-130	2	20
2,2-Dichloropropane	**22.1**		µg/l		20.0		111	70-130	9	20
1,1-Dichloropropene	**19.8**		µg/l		20.0		99	70-130	5	20
cis-1,3-Dichloropropene	**21.1**		µg/l		20.0		105	70-130	3	20
trans-1,3-Dichloropropene	**20.4**		µg/l		20.0		102	70-130	0.9	20
Ethylbenzene	**20.2**		µg/l		20.0		101	70-130	2	20
Hexachlorobutadiene	**19.4**		µg/l		20.0		97	70-130	3	20
2-Hexanone (MBK)	**21.2**		µg/l		20.0		106	70-130	2	20
Isopropylbenzene	**20.2**		µg/l		20.0		101	70-130	2	20
4-Isopropyltoluene	**19.4**		µg/l		20.0		97	70-130	3	20
Methyl tert-butyl ether	**20.1**		µg/l		20.0		101	70-130	0.2	20
4-Methyl-2-pentanone (MIBK)	**22.5**		µg/l		20.0		113	70-130	3	20
Methylene chloride	**21.5**		µg/l		20.0		107	70-130	4	20
Naphthalene	**14.3**		µg/l		20.0		71	70-130	1	20
n-Propylbenzene	**19.9**		µg/l		20.0		100	70-130	2	20
Styrene	**19.9**		µg/l		20.0		100	70-130	2	20
1,1,1,2-Tetrachloroethane	**20.4**		µg/l		20.0		102	70-130	2	20
1,1,2,2-Tetrachloroethane	**21.6**		µg/l		20.0		108	70-130	2	20
Tetrachloroethene	**20.6**		µg/l		20.0		103	70-130	4	20
Toluene	**21.6**		µg/l		20.0		108	70-130	3	20
1,2,3-Trichlorobenzene	**17.9**		µg/l		20.0		89	70-130	1	20
1,2,4-Trichlorobenzene	**15.9**		µg/l		20.0		80	70-130	3	20
1,3,5-Trichlorobenzene	**18.4**		µg/l		20.0		92	70-130	3	20
1,1,1-Trichloroethane	**23.3**		µg/l		20.0		117	70-130	4	20
1,1,2-Trichloroethane	**21.4**		µg/l		20.0		107	70-130	0.5	20
Trichloroethene	**19.9**		µg/l		20.0		100	70-130	2	20

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1506298 - SW846 5030 Water MS										
LCS Dup (1506298-BSD1)					Prepared & Analyzed: 07-Apr-15					
Trichlorofluoromethane (Freon 11)	**22.3**		µg/l		20.0		112	70-130	5	20
1,2,3-Trichloropropane	**19.4**		µg/l		20.0		97	70-130	2	20
1,2,4-Trimethylbenzene	**20.2**		µg/l		20.0		101	70-130	2	20
1,3,5-Trimethylbenzene	**20.6**		µg/l		20.0		103	70-130	2	20
Vinyl chloride	**24.4**		µg/l		20.0		122	70-130	4	20
m,p-Xylene	**19.9**		µg/l		20.0		99	70-130	3	20
o-Xylene	**20.1**		µg/l		20.0		101	70-130	0.1	20
Tetrahydrofuran	**20.6**		µg/l		20.0		103	70-130	1	20
Ethyl ether	**22.3**		µg/l		20.0		112	70-130	0	20
Tert-amyl methyl ether	**18.7**		µg/l		20.0		94	70-130	0.2	20
Ethyl tert-butyl ether	**19.8**		µg/l		20.0		99	70-130	2	20
Di-isopropyl ether	**21.1**		µg/l		20.0		106	70-130	2	20
Tert-Butanol / butyl alcohol	**200**		µg/l		200		100	70-130	0.5	20
1,4-Dioxane	**202**		µg/l		200		101	70-130	7	20
trans-1,4-Dichloro-2-butene	**19.1**		µg/l		20.0		96	70-130	2	20
Ethanol	**471**		µg/l		400		118	70-130	3	20
Surrogate: 4-Bromofluorobenzene	*50.6*		µg/l		*50.0*		*101*	*70-130*		
Surrogate: Toluene-d8	*52.2*		µg/l		*50.0*		*104*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*54.1*		µg/l		*50.0*		*108*	*70-130*		
Surrogate: Dibromofluoromethane	*53.5*		µg/l		*50.0*		*107*	*70-130*		

Total Metals by EPA 6000/7000 Series Methods - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1505916 - SW846 3005A										
Blank (1505916-BLK1)					Prepared: 02-Apr-15 Analyzed: 07-Apr-15					
Zinc	< 0.0050		mg/l	0.0050						
Cadmium	< 0.0002	U	mg/l	0.0002						
Barium	< 0.0050		mg/l	0.0050						
Chromium	< 0.0050		mg/l	0.0050						
Copper	< 0.0050		mg/l	0.0050						
Nickel	< 0.0050		mg/l	0.0050						
Arsenic	< 0.0040		mg/l	0.0040						
LCS (1505916-BS1)					Prepared: 02-Apr-15 Analyzed: 07-Apr-15					
Zinc	**1.17**		mg/l	0.0050	1.25		94	85-115		
Nickel	**1.17**		mg/l	0.0050	1.25		93	85-115		
Copper	**1.23**		mg/l	0.0050	1.25		98	85-115		
Chromium	**1.16**		mg/l	0.0050	1.25		93	85-115		
Cadmium	**1.16**		mg/l	0.0002	1.25		93	85-115		
Barium	**1.20**		mg/l	0.0050	1.25		96	85-115		
Arsenic	**1.19**		mg/l	0.0040	1.25		95	85-115		
LCS Dup (1505916-BSD1)					Prepared: 02-Apr-15 Analyzed: 07-Apr-15					
Chromium	**1.18**		mg/l	0.0050	1.25		94	85-115	2	20
Zinc	**1.19**		mg/l	0.0050	1.25		95	85-115	2	20
Arsenic	**1.20**		mg/l	0.0040	1.25		96	85-115	1	20
Copper	**1.24**		mg/l	0.0050	1.25		99	85-115	1	20
Cadmium	**1.17**		mg/l	0.0002	1.25		94	85-115	1	20
Barium	**1.22**		mg/l	0.0050	1.25		98	85-115	2	20
Nickel	**1.18**		mg/l	0.0050	1.25		95	85-115	1	20

Soluble Metals by EPA 6000/7000 Series Methods - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1505917 - SW846 3005A										
Blank (1505917-BLK1)					Prepared: 02-Apr-15 Analyzed: 03-Apr-15					
Arsenic	< 0.00060		mg/l	0.00060						
Cadmium	< 0.00001	U	mg/l	0.00001						
Copper	< 0.00180		mg/l	0.00180						
LCS (1505917-BS1)					Prepared: 02-Apr-15 Analyzed: 03-Apr-15					
Arsenic	**0.0428**		mg/l	0.00060	0.0500		86	85-115		
Cadmium	**0.0422**	QM9	mg/l	0.00001	0.0500		84	85-115		
Copper	**0.0454**		mg/l	0.00180	0.0500		91	85-115		
LCS Dup (1505917-BSD1)					Prepared: 02-Apr-15 Analyzed: 03-Apr-15					
Copper	**0.0481**		mg/l	0.00180	0.0500		96	85-115	6	20
Cadmium	**0.0451**		mg/l	0.00001	0.0500		90	85-115	7	20
Arsenic	**0.0450**		mg/l	0.00060	0.0500		90	85-115	5	20
Duplicate (1505917-DUP1)			**Source: SC05125-07**		Prepared: 02-Apr-15 Analyzed: 03-Apr-15					
Arsenic	< 0.00060	R06	mg/l	0.00060		BRL				20
Cadmium	**0.00002**	J	mg/l	0.00001		0.00002			8	20
Copper	**0.00090**	J,R06	mg/l	0.00180		0.00086			4	20
Matrix Spike (1505917-MS1)			**Source: SC05125-07**		Prepared: 02-Apr-15 Analyzed: 03-Apr-15					
Cadmium	**0.0426**		mg/l	0.00001	0.0500	0.00002	85	75-125		
Arsenic	**0.0423**		mg/l	0.00060	0.0500	BRL	85	75-125		
Copper	**0.0442**		mg/l	0.00180	0.0500	0.00086	87	75-125		
Matrix Spike Dup (1505917-MSD1)			**Source: SC05125-07**		Prepared: 02-Apr-15 Analyzed: 03-Apr-15					
Arsenic	**0.0413**		mg/l	0.00060	0.0500	BRL	83	75-125	2	20
Cadmium	**0.0416**		mg/l	0.00001	0.0500	0.00002	83	75-125	2	20
Copper	**0.0442**		mg/l	0.00180	0.0500	0.00086	87	75-125	0.2	20
Post Spike (1505917-PS1)			**Source: SC05125-07**		Prepared: 02-Apr-15 Analyzed: 03-Apr-15					
Cadmium	**0.0438**		mg/l	0.00001	0.0500	0.00002	88	75-125		
Copper	**0.0461**		mg/l	0.00180	0.0500	0.00086	90	80-120		
Arsenic	**0.0438**		mg/l	0.00060	0.0500	BRL	88	75-125		
Batch 1506143 - SW846 3005A										
Blank (1506143-BLK1)					Prepared & Analyzed: 06-Apr-15					
Zinc	< 0.00100		mg/l	0.00100						
LCS (1506143-BS1)					Prepared & Analyzed: 06-Apr-15					
Zinc	**0.0239**		mg/l	0.00100	0.0250		96	85-115		
LCS Dup (1506143-BSD1)					Prepared & Analyzed: 06-Apr-15					
Zinc	**0.0238**		mg/l	0.00100	0.0250		95	85-115	0.2	20
Duplicate (1506143-DUP1)			**Source: SC05125-03**		Prepared & Analyzed: 06-Apr-15					
Zinc	**0.0112**		mg/l	0.00100		0.0116			3	20
Matrix Spike (1506143-MS1)			**Source: SC05125-03**		Prepared & Analyzed: 06-Apr-15					
Zinc	**0.113**		mg/l	0.00100	0.100	0.0116	102	75-125		
Matrix Spike Dup (1506143-MSD1)			**Source: SC05125-03**		Prepared & Analyzed: 06-Apr-15					
Zinc	**0.113**		mg/l	0.00100	0.100	0.0116	102	75-125	0.02	20

General Chemistry Parameters - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1506072 - General Preparation										
Blank (1506072-BLK1)						Prepared & Analyzed: 03-Apr-15				
Cyanide (total)	< 0.00500		mg/l	0.00500						
LCS (1506072-BS1)						Prepared & Analyzed: 03-Apr-15				
Cyanide (total)	**0.275**		mg/l	0.00500	0.300		92	90-110		
Duplicate (1506072-DUP1)			**Source: SC05125-08**			Prepared & Analyzed: 03-Apr-15				
Cyanide (total)	< 0.00500		mg/l	0.00500		BRL				20
Matrix Spike (1506072-MS1)			**Source: SC05125-08**			Prepared & Analyzed: 03-Apr-15				
Cyanide (total)	**0.296**		mg/l	0.00500	0.300	BRL	99	90-110		
Matrix Spike Dup (1506072-MSD1)			**Source: SC05125-08**			Prepared & Analyzed: 03-Apr-15				
Cyanide (total)	**0.299**		mg/l	0.00500	0.300	BRL	100	90-110	1	20
Reference (1506072-SRM1)						Prepared & Analyzed: 03-Apr-15				
Cyanide (total)	**0.218**		mg/l	0.00500	0.270		81	65-135		
Batch 1506302 - General Preparation										
Blank (1506302-BLK1)						Prepared & Analyzed: 07-Apr-15				
Cyanide (total)	< 0.00500		mg/l	0.00500						
Blank (1506302-BLK2)						Prepared & Analyzed: 07-Apr-15				
Cyanide (total)	< 0.00500		mg/l	0.00500						
LCS (1506302-BS1)						Prepared & Analyzed: 07-Apr-15				
Cyanide (total)	**0.284**		mg/l	0.00500	0.300		95	90-110		
LCS (1506302-BS2)						Prepared & Analyzed: 07-Apr-15				
Cyanide (total)	**0.298**		mg/l	0.00500	0.300		99	90-110		
Duplicate (1506302-DUP1)			**Source: SC05125-21**			Prepared & Analyzed: 07-Apr-15				
Cyanide (total)	< 0.00500		mg/l	0.00500		BRL				20
Matrix Spike (1506302-MS1)			**Source: SC05125-21**			Prepared & Analyzed: 07-Apr-15				
Cyanide (total)	**0.280**		mg/l	0.00500	0.300	BRL	93	90-110		
Matrix Spike Dup (1506302-MSD1)			**Source: SC05125-21**			Prepared & Analyzed: 07-Apr-15				
Cyanide (total)	**0.298**		mg/l	0.00500	0.300	BRL	99	90-110	6	20
Reference (1506302-SRM1)						Prepared & Analyzed: 07-Apr-15				
Cyanide (total)	**0.238**		mg/l	0.00500	0.270		88	65-135		

Notes and Definitions

D	Data reported from a dilution
GS1	Sample dilution required for high concentration of target analytes to be within the instrument calibration range.
J	Detected above the Method Detection Limit but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
QC2	Analyte out of acceptance range in QC spike but no reportable concentration present in sample.
QM10	LCS/LCSD were analyzed in place of MS/MSD.
QM7	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
QM9	The spike recovery for this QC sample is outside the established control limits. The sample results for the QC batch were accepted based on LCS/LCSD or SRM recoveries within the control limits.
QR5	RPD out of acceptance range.
R06	MRL raised to correlate to batch QC reporting limits.
U	Analyte included in the analysis, but not detected at or above the MDL.
dry	Sample results reported on a dry weight basis
NR	Not Reported
RPD	Relative Percent Difference

Laboratory Control Sample (LCS): A known matrix spiked with compound(s) representative of the target analytes, which is used to document laboratory performance.

Matrix Duplicate: An intra-laboratory split sample which is used to document the precision of a method in a given sample matrix.

Matrix Spike: An aliquot of a sample spiked with a known concentration of target analyte(s). The spiking occurs prior to sample preparation and analysis. A matrix spike is used to document the bias of a method in a given sample matrix.

Method Blank: An analyte-free matrix to which all reagents are added in the same volumes or proportions as used in sample processing. The method blank should be carried through the complete sample preparation and analytical procedure. The method blank is used to document contamination resulting from the analytical process.

Method Detection Limit (MDL): The minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the analyte.

Reportable Detection Limit (RDL): The lowest concentration that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operating conditions. For many analytes the RDL analyte concentration is selected as the lowest non-zero standard in the calibration curve. While the RDL is approximately 5 to 10 times the MDL, the RDL for each sample takes into account the sample volume/weight, extract/digestate volume, cleanup procedures and, if applicable, dry weight correction. Sample RDLs are highly matrix-dependent.

Surrogate: An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. These compounds are spiked into all blanks, standards, and samples prior to analysis. Percent recoveries are calculated for each surrogate.

Continuing Calibration Verification: The calibration relationship established during the initial calibration must be verified at periodic intervals. Concentrations, intervals, and criteria are method specific.

Validated by:
June O'Connor
Kimberly LaPlante

SC05125 AME

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Page 1 of 1

Special Handling:
- [x] Standard TAT - 7 to 10 business days (5 Day)
- [ ] Rush TAT - Date Needed:

All TATs subject to laboratory approval
Min. 24-hr notification needed for rushes
Samples disposed after 60 days unless otherwise instructed.

Report To: ENVIRON
3 Carlisle Rd. Suite 210
Westford, MA

Telephone #: 603-703-5534
Project Mgr: John Noble

Invoice To: Kris Sibinga
Envirite Corporation
PO BOX 591
Chappaqua NY 10514

P.O No.: Quote/RQN:

Project No: 08-14218 H
Site Name: Envirite RCRA Landfill
Location: Thomaston State: CT
Sampler(s): Luke C
John U

F=Field Filtered 1=Na_2S2O_3 2=HCl 3=H_2SO_4 4=HNO_3 5=NaOH 6=Ascorbic Acid
7=CH3OH 8=$NaHSO_4$ 9=Deionized Water 10=H_3PO_4 11= 12=

DW=Dinking Water GW=Groundwater SW=Surface Water WW=Waste Water
O=Oil SO=Soil SL=Sludge A=Indoor/Ambient Air SG=Soil Gas
X1= Trip Blank X2= Equipment Blank X3=

G= Grab C=Compsite

List Preservative Code below: 2 4 4 5

QA/QC Reporting Notes:
* additional charges may appply

MA DEP MCP CAM Report? [ ] Yes [ ] No
CT DPH RCP Report? [x] Yes [ ] No
[ ] Standard [ ] No QC
[x] DQA*
[ ] ASP A* [ ] ASP B*
[ ] NJ Reduced* [ ] NJ Full*
[ ] Tier II* [ ] Tier IV*
[x] Other: CT RCP CT RSRs
State-specific reporting standards:

Lab ID:	Sample ID:	Date:	Time:	Type	Matrix	# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	VOCs 8260	As, Ba, Cd, Cr, Cu, Ni, Zn	Dissolved As, Cd, Cu, Zn (6020)*	Cyanide	Check if chlorinated
SC05125-01	TB-20150330	3-30-15	0900	G	X1	1				X				[ ]
-02	EB-20150330		1200		X2	3			1	X		X		[ ]
-03	DUP-20150330		NA		SW	3			1	X		X		[ ]
-04	SW-NR-1/20150330		0915		SW	3			1	X		X		[ ]
-05	SW-NR-2/20150330		0935		SW	3			1	X		X		[ ]
-06	SW-BB-1/20150330		1030		SW	3			1	X		X		[ ]
-07	SW-BB-2/20150330		1100		SW	3			1	X		X		[ ]
-08	MW-43D/20150330		1350		GW	3			2	X	X		X	[ ]
-09	MW-43S/20150330		1425		GW	3			2	X	X		X	[ ]
-10	MW-44D/20150330	3-30-15	1530	G	GW	3			2	X	X		X	[ ]

Relinquished by:	Received by:	Date:	Time:
[signature]	[signature]	3/31/15	1455
[signature]	JLH	3/31/15	1705

Temp °C: Observed 0.9; Correction Factor -1; Corrected -0.1; IR ID # 02

[ ] EDD format: ENVIRON Equis 4-File
[ ] E-mail to: jnoble@environcorp.com

* Freshwater Aquatic Life Criteria

Condition upon receipt: Custody Seals: [ ] Present [ ] Intact [ ] Broken
[ ] Ambient [ ] Iced [ ] Refrigerated [ ] DI VOA Frozen [ ] Soil Jar Frozen

SC05125 AME

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Page 2 of 3

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PO Box 591
Chappaqua NY 10514
P.O No.: Quote/RQN:

Project No: 08-14218 H
Site Name: Envirite RCRA Landfill
Location: Thomaston State: CT
Sampler(s): Luke C
John U

F=Field Filtered 1=$Na_2S_2O_3$ 2=HCl 3=H_2SO_4 4=HNO_3 5=NaOH 6=Ascorbic Acid
7=CH3OH 8=$NaHSO_4$ 9=Deionized Water 10=H_3PO_4 11= 12=

List Preservative Code below: 2 4 5

DW=Dinking Water GW=Groundwater SW=Surface Water WW=Waste Water
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QA/QC Reporting Notes:
* additional charges may appply

MA DEP MCP CAM Report? [ ] Yes [ ] No
CT DPH RCP Report? [X] Yes [ ] No
[ ] Standard [ ] No QC
[X] DQA*
[ ] ASP A* [ ] ASP B*
[ ] NJ Reduced* [ ] NJ Full*
[ ] Tier II* [ ] Tier IV*
[X] Other: CT RCP CT RSRs
State-specific reporting standards:

Lab ID:	Sample ID:	Date:	Time:	Type	Matrix	# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic		VOCs 8260	As, Ba, Cd, Cr, Cu, Ni, Zn	Cyanide					Check if chlorinated
SC05125-01	MW-42S/20150331	3-31-15	~~1530~~ 0825	G	GW	3			2		X	X	X					[ ]
-12	TB-20150331		0400		X1	1					X							[ ]
-13	EB-20150331		1200		X2	3			2		X	X	X					[ ]
-14	DUP-20150331		NA		GW	3			2		X	X	X					[ ]
-15	MW-41S/20150331		1000		GW	3			2		X	X	X					[ ]
-16	MW-41D/20150331		1100		GW	3			2		X	X	X					[ ]
-17	MW-31S/20150331		1235		GW	3			2		X	X	X					[ ]
-18	MW-50S/20150331		0830		GW	3			2		X	X	X					[ ]
-19	MW-53D/20150331		1055		GW	3			2		X	X	X					[ ]
-20	MW-54D/20150331	3-31-15	1210	G	GW	3			2		X	X	X					[ ]

Relinquished by:	Received by:	Date:	Time:
[signature]	[signature]	3-31-15	1455
[signature]	JLS	3/31/15	1705

Temp °C: Observed 0.9; Correction Factor -1; Corrected -0.1; IR ID # a2

[ ] EDD format: ENVIRON Equis 4-File
[ ] E-mail to: jnoble@environcorp.com

Condition upon receipt: Custody Seals: [ ] Present [ ] Intact [ ] Broken
[ ] Ambient [X] Iced [ ] Refrigerated [ ] DI VOA Frozen [ ] Soil Jar Frozen

SC05125AME

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Page 3 of 3

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Chappaqua NY 10514

P.O No.: _____ Quote/RQN: _____

Project No: 08-14218H
Site Name: Envirite RCRA Landfill
Location: Thomaston State: CT
Sampler(s): Luke C
John U

F=Field Filtered 1=Na_2S2O_3 2=HCl 3=H_2SO_4 4=HNO_3 5=NaOH 6=Ascorbic Acid
7=CH3OH 8=$NaHSO_4$ 9=Deionized Water 10=H_3PO_4 11= _____ 12= _____

List Preservative Code below: 2 4 5

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O=Oil SO=Soil SL=Sludge A=Indoor/Ambient Air SG=Soil Gas
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G= Grab C=Compsite

Lab ID:	Sample ID:	Date:	Time:	Type	Matrix	# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic		VOCs 8260	As, Ba, Cd, Cr, Cu, Ni, Zn	Cyanide						Check if chlorinated
SC05125-21	MW-30/20150331	3-31-15	1330	G	GW	3			2		X	X	X						☐
																			☐
																			☐
																			☐
																			☐
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																			☐
																			☐
																			☐
																			☐

QA/QC Reporting Notes:
* additional charges may appply

MA DEP MCP CAM Report? ☐ Yes ☐ No
CT DPH RCP Report? ☒ Yes ☐ No
☐ Standard ☐ No QC
☒ DQA*
☐ ASP A* ☐ ASP B*
☐ NJ Reduced* ☐ NJ Full*
☐ Tier II* ☐ Tier IV*
☒ Other: CT RCP CT RSRs
State-specific reporting standards:

Relinquished by:	Received by:	Date:	Time:	Temp °C
[signature]	[signature]	3-31-15	1535	Observed 0.9
	Jun	3/31/15	1705	Corecction Factor -1
				Corrected -0.1
				IR ID # 02

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Condition upon receipt: Custody Seals: ☐ Present ☐ Intact ☐ Broken
☐ Ambient ☒ Iced ☐ Refrigerated ☐ DI VOA Frozen ☐ Soil Jar Frozen

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Rev. Jan 2014

APPENDIX C
DATA VALIDATION REVIEW REPORT – MARCH 2015 SAMPLING EVENT

DATA VALIDATION REVIEW

Environmental Monitoring Event – March 2015
Envirite RCRA Facility
Old Waterbury Road
Thomaston, Connecticut

Laboratory Sample Delivery Groups (SDGs): SC05125

Laboratory: Spectrum Analytical Technology, Inc., Agawam, Massachusetts

Reviewer: Rob Huening **Date Reviewed: April 20th, 2015**

This data validation report has been prepared by ENVIRON International Corporation (ENVIRON) to assess the validity and usability of laboratory analytical data generated from samples collected during the groundwater monitoring event at the Envirite RCRA Facility in Thomaston, Connecticut, (the "site") from March 30 - 31, 2015.

The analytical data were evaluated for quality assurance and quality control (QA/QC) based on the following documents: *Quality Assurance Project Plan (QAPP)/Sampling Analysis Plan (SAP) for the Envirite RCRA Facility, Old Waterbury Road, Thomaston, Connecticut* (December 2013*); USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review* (June 2008); and *USEPA, Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review,* (January, 2010).

Analytical services for the analysis of 21 aqueous samples were provided by Spectrum Analytical, Inc. (Spectrum) in Agawam, Massachusetts.

This report summarizes the QA/QC evaluation of the data according to precision, accuracy, representativeness, completeness and comparability relative to the project data quality objectives. This report provides a quantitative and qualitative assessment of the data and identifies potential sources of error, uncertainty, and bias that may affect the overall usability of the data.

Per the December 2013 QAPP/SAP, a USEPA Tier I data validation was performed on all laboratory data. The QAPP/SAP indicated that a minimum of 10% of the data would undergo USEPA Tier II data validation. All of the groundwater and surface water data in SDG SC05125 underwent USEPA Tier II data validation in conjunction with this effort.

The following table summarizes the field samples and quality control samples submitted to the laboratory which underwent Tier II data validation:

Field ID	Sample Type	Lab ID	Matrix	Analyses			
				VOCs	Total Metals	Dissolved Metals	Cyanide
SDG: SC05125							
TB-20150330	TB	SC05125-01	Aqueous	X	---	---	---
EB-20150330	EB	SC05125-02	Aqueous	X	---	X	---
DUP-20150330	FD	SC05125-03	Aqueous	X	---	X	---
SW-NR-1/20150330	SA	SC05125-04	Aqueous	X	---	X	---
SW-NR-2/20150330	SA	SC05125-05	Aqueous	X	---	X	---
SW-BB-1/20150330	SA	SC05125-06	Aqueous	X	---	X	---
SW-BB-2/20150330	SA	SC05125-07	Aqueous	X	---	X	---
MW-43D/20150330	SA	SC05125-08	Aqueous	X	X	---	X
MW-43S/20150330	SA	SC05125-09	Aqueous	X	X	---	X
MW-44D/20150330	SA	SC05125-10	Aqueous	X	X	---	X
MW-42S/20150331	SA	SC05125-11	Aqueous	X	X	---	X
TB-20150331	TB	SC05125-12	Aqueous	X	---	---	---
EB-20150331	EB	SC05125-13	Aqueous	X	X	---	X
DUP-20150331	FD	SC05125-14	Aqueous	X	X	---	X
MW-41S/20150331	SA	SC05125-15	Aqueous	X	X	---	X
MW-41D/20150331	SA	SC05125-16	Aqueous	X	X	---	X
MW-31S/20150331	SA	SC05125-17	Aqueous	X	X	---	X
MW-50S/20150331	SA	SC05125-18	Aqueous	X	X	---	X
MW-53D/20150331	SA	SC05125-19	Aqueous	X	X	---	X
MW-51D/20150331	SA	SC05125-20	Aqueous	X	X	---	X
MW-30/20150331	SA	SC05125-21	Aqueous	X	X	---	X

Sample Type: SA = Sample TB = Trip Blank FD = Field Duplicate EB = Equipment Blank
--- = Analysis was not performed for this analytical parameter
VOCs = Volatile Organic Compounds by USEPA Method SW-846 8260C by Gas Chromatography/Mass Spectrometry (GC/MS) Medium Level.
Total Metals = Arsenic, Barium, Cadmium, Chromium, Copper, Nickel and Zinc by EPA Method 6010C.
Dissolved Metals = Arsenic, Cadmium, Copper, and Zinc by USEPA Method 6020A.
Cyanide by USEPA Method SW-846 by 9012B

General Overall Assessment:

_____ Data are usable without qualification.

___X___ Data are usable with qualification (noted below).

_____ Some or all data are unusable for any purpose (detailed below).

The data are usable for its intended purpose based on an evaluation of the QC parameters discussed in this report. Some data are qualified as estimated due to the inability to meet all QC criteria. The table below summarizes the final qualifications for the analytical data.

Data Qualifier Summary:

Field ID	Parameter	Analyte	Qualification	Note
TB-20150330	8260C	Methyl tert-Butyl Ether	**UJ**	1
TB-20150330	8260C	Ethyl tert-Butyl Ether	**UJ**	1
TB-20150330	8260C	Tert-Butanol	**UJ**	1
EB-20150330	6020A	Cadmium	**UJ**	1
DUP-20150330	6020A	Cadmium	**UJ**	1,2
SW-NR-1/20150330	6020A	Cadmium	**UJ**	1,2
SW-NR-2/20150330	6020A	Cadmium	**UJ**	1,2
SW-BB-1/20150330	6020A	Cadmium	**UJ**	1,2
SW-BB-2/20150330	6020A	Cadmium	**UJ**	1,2

Data Validation Qualifier Codes:
U = Non-detect. The compound was analyzed for, but not detected.
J = Estimated. The associated numerical value is an estimated quantity. The analyte was detected but the reported value may not be accurate or precise.
UJ = Estimated Non-detect. The analyte was not detected above the method detection limit. However, it is an estimated quantity due to poor accuracy, precision, or potential cross-contamination. This qualification is also used to flag possible false negative results in the case where low bias in the analytical system is indicated by low calibration response, surrogate or other spike recovery.
1 = Estimated due to deficiencies in LCS/LCSD samples
2 = Non-detection due to possible cross-contamination

Case Narrative Comments: Any case narrative comments concerning data qualification were noted below.

1.0 Data Package Completeness

Were all items delivered as specified in the QAPP and COC (Chain of Custody)?

Yes, the laboratory followed adequate corrective action processes and all anomalies were discussed in the case narrative.

2.0 Laboratory Case Narrative, Sample Preservation and Cooler Receipt Form

Were problems noted in the laboratory case narrative or cooler receipt form?

Yes, the laboratory case narrative indicated the following:

- **Dissolved Metals-** The percent recoveries for Cadmium were outside of individual acceptance criteria. This is discussed further in section 5.0. In addition, method reporting limits (MRLs) were raised for Arsenic and Copper for several samples to correlate to batch QC reporting limits. This is discussed further in Section 12.0.
- **VOCs** – The Blank Control Spike (BCS) and Matirx Spike (MS) RPD and recovery for several analytes were reported outside of quality control limits. See Section 5.0 for further discussion and resultant qualification. Several samples

required dilution prior to sample analysis due to high concentration of target analytes. See Section 10.0 for further discussion and resultant data qualification. The initial calibration verification (ICV) and/or continuing calibration verification (CCV) analyte percent difference was outside of individual acceptance limits for several analytes. See Section 11.0 for further discussion and resultant data qualification.

Samples were received at the Spectrum Analytical, Inc. laboratory in good condition. Temperature upon receipt of sample batch was -0.1˚C. Acceptable temperature range is 2 - 6˚C. However, given that the temperature was taken using an Infrared thermometer, which has an error tolerance of +/- 1.0 degrees Celsius, and the laboratory did not note any freezing of the samples, this non-conformance does not affect the usability of the data.

3.0 Technical Holding Times

Were samples extracted/analyzed within method specific holding time requirements?

Yes. All samples were prepared and/or analyzed within method specific required holding times.

4.0 Blank Contamination

Were any analytes detected in the Method Blanks or Trip Blanks?

No analytes were detected in the associated trip and method blanks. There was a detection of Cadmium in the Equipment Blank sample EB-20150330 at an estimated concentration of 0.00001 mg/L. This detection represents a possible indicator of cross-contamination during sample collection or analysis. Given that the detection was below the RDL and therefore estimated, other detections below the RDL are flagged as non-detect-estimated (UJ) to indicate that the detections may be due to cross-contamination. Cadmium was detected at concentrations below the MDL in five samples: DUP-20150330, SW-NR-1/20150330, SW-NR-2/20150330, SW-BB-1/20150330, and SW-BB-2/20150330.

5.0 Laboratory Control Sample

Were LCS recoveries within evaluation criteria?

No. The laboratory control sample (LCS) provides information on the accuracy of the analytical method and on the laboratory performance. The following table summarizes the LCS results that were outside the acceptance limits.

LCS ID	Parameter	Analyte	LCS/LCSD (%)	RPD (%)	LCS/LCSD/ RPD Criteria (Recovery %)
1505963-LCS1/LCSD1	8260C	Methyl tert-Butyl Ether	**65**/70	7	70-130/20
1505963-LCS1/LCSD1	8260C	Ethyl tert-Butyl Ether	**69/**75	8	70-130/20
1505963-LCS1/LCSD1	8260C	Tert-Butanol	**65/69**	7	70-130/20
1506064-LCS1/LCSD1	8260C	Ethanol	106/**133**	**22**	70-130/20
1506192-LCS1/LCSD1	8260C	Carbon Disulfide	**143/158**	10	70-130/20
1505917-LCS1/LCSD1	6020A	Cadmium	**84/**90	7	85-115/20

ID = Identification LCS/D = Laboratory Control Sample/Duplicate RPD = Relative Percent Difference
% = Percent

Analytical data reported as non-detect and associated with LCS recoveries above evaluation criteria, indicating a possible high bias, did not require qualification. Data qualification of sample results due to LCS recoveries is summarized in the table below.

Field ID	Parameter	Analyte	Qualification
TB-20150330	8260C	Methyl tert-Butyl Ether	**UJ**
TB-20150330	8260C	Ethyl tert-Butyl Ether	**UJ**
TB-20150330	8260C	Tert-Butanol	**UJ**
EB-20150330	6020A	Cadmium	**J**
DUP-20150330	6020A	Cadmium	**J**
SW-NR-1/20150330	6020A	Cadmium	**J**
SW-NR-2/20150330	6020A	Cadmium	**J**
SW-BB-1/20150330	6020A	Cadmium	**J**
SW-BB-2/20150330	6020A	Cadmium	**J**

6.0 Surrogate Recoveries

Were surrogate recoveries within evaluation criteria?

Yes. Surrogates are added to all volatile samples prior to purging to evaluate the laboratory performance on individual samples. Four volatile surrogates (dibromofluoromethane, 1,2-dichloroethane-d4, toluene-d8, and bromofluorobenzene) were added to each volatile sample. Percent recoveries (%R) for all volatile surrogates in all samples were within laboratory evaluation criteria. **Qualification of data was not required.**

7.0 Matrix Spike and Matrix Spike Duplicate Recoveries

Were MS/MSD samples reported as part of this SDG?

Yes. A matrix spike was performed from a site-specific sample for all parameters.

Were MS/MSD recoveries within evaluation criteria?

No. In Batch 1506192 recoveries for Bromomethane and Carbon Disulfide were high, indicating a possible high bias to data. However, all Bromomethane and Carbon Disulfide results for the batch were non-detections so **qualification of data was not required.**

8.0 Post Spike (Metals only)

Were post spike recoveries within evaluation criteria?

Yes. The post digestive spike recoveries were **-detect qualification of data was not required**.

9.0 Laboratory Duplicate Results

Were laboratory duplicate samples performed as part of this SDG?

Yes, as spiked duplicates, which are discussed in the previous sections. In addition laboratory duplicates were reported for metals and cyanide analysis. Duplicate RPD results were outside of laboratory limits of 20% for Zinc at 88% and Arsenic at 23%. **However, the sample concentrations were less than or equal to the reporting limit, therefore qualification of data was not required.**

10.0 Field Duplicate Results

Were field duplicate samples collected as part of the evaluated SDGs?

Yes. The table below summarizes field duplicate pairs.

Field ID	Field Duplicate ID
SW-NR-1/20150330	DUP-20150330
MW-42S/20150331	DUP-20150331

Were field duplicates within evaluation criteria?

Yes. All RPD's of reported results were less than the acceptance limits of ±30% for aqueous samples.

11.0 Detects and Calibration Range

For samples that were diluted and nondetect, were undiluted results also reported?

No.

The following table identifies the analyses which were reported as nondetect, diluted, and an undiluted run ***was not*** reported:

Field ID	Parameter	Dilution Factor
MW-31S/20150331	8260C	500
MW-50S/20150331	8260C	5
MW-53D/20141031	8260C	5

For samples that were diluted, were the detected results divided by the dilution factors greater than the reporting limits and within calibration range?

Yes. Data users should be aware of the elevated detection limits when evaluating data usage for comparison to project standards.

For samples that were not diluted and detected, were the results within calibration range?

Yes. Samples where results were reported that exceeded the calibration range, were reanalyzed at dilution.

12.0 Additional Qualifications/Quality Control Outliers

Were additional qualifications applied?

- Several VOC analyte percent recoveries for continuing calibration verification (CCV) were outside individual acceptance criteria of 20%; however the percent recoveries were within overall method allowances. **Therefore qualification of data was not required.**
- Several VOC analyte percent recovery for initial calibration verification (ICV) were outside individual acceptance criteria; **however the percent recoveries were within overall method allowances therefore qualification of data was not required**.
- Several reporting limits were raised to correlate to batch quality control reporting limits. Data users should be aware of these elevated reporting limits when evaluating data usage for comparison to project standards.

13.0 Overall Data Assessment

The data are usable for its intended purpose based on an evaluation of the QC parameters discussed in this report. Some data are qualified as estimated due to the inability to meet all QC criteria. The table below summarizes the final qualifications for the analytical data.

Data Qualifier Summary:

Field ID	Parameter	Analyte	Qualification	Note
TB-20150330	8260C	Methyl tert-Butyl Ether	**UJ**	1
TB-20150330	8260C	Ethyl tert-Butyl Ether	**UJ**	1
TB-20150330	8260C	Tert-Butanol	**UJ**	1
EB-20150330	6020A	Cadmium	**UJ**	1
DUP-20150330	6020A	Cadmium	**UJ**	1,2
SW-NR-1/20150330	6020A	Cadmium	**UJ**	1,2
SW-NR-2/20150330	6020A	Cadmium	**UJ**	1,2
SW-BB-1/20150330	6020A	Cadmium	**UJ**	1,2
SW-BB-2/20150330	6020A	Cadmium	**UJ**	1,2

Data Validation Qualifier Codes:
U = Non-detect. The compound was analyzed for, but not detected.
J = Estimated. The associated numerical value is an estimated quantity. The analyte was detected but the reported value may not be accurate or precise.
UJ = Estimated Non-detect. The analyte was not detected above the method detection limit. However, it is an estimated quantity due to poor accuracy or precision. This qualification is also used to flag possible false negative results in the case where low bias in the analytical system is indicated by low calibration response, surrogate or other spike recovery.
1 = Estimated due to deficiencies in LCS/LCSD samples
2 = Non-detection due to possible cross-contamination