Environmental Resources Management

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21 November 2013
Reference: 0196270

Massachusetts Department of Environmental Protection
Northeast Regional Office
Bureau of Waste Site Cleanup
205B Lowell Street
Wilmington, MA 01887

Re: Remedy Operation Status Submittal
May 2013 through October 2013
Former Raytheon Facility
Wayland, Massachusetts
Release Tracking Nos. 3-13302 and 3-22408
Tier IB Permit Nos. 133939 and W045278

Dear Sir or Madam:

On behalf of Raytheon Company (Raytheon), Environmental Resources Management (ERM) has prepared this Remedy Operation Status (ROS) Submittal for the Former Raytheon Facility located at 430 Boston Post Road in Wayland, Massachusetts (Site; Figure 1). This report covers the period from 1 May 2013 to 31 October 2013 to satisfy the requirements of the Massachusetts Contingency Plan (MCP) at 310 CMR 40.0893.

This report discusses groundwater remediation and monitoring activities conducted at the Site during this reporting period.

BACKGROUND

This submittal incorporates the ongoing bioremediation activities in the Northern Area of the Site (Figure 2) with the ongoing Southern Area in situ chemical oxidation (ISCO) program. Northern Area Response Actions were formerly tracked under Release Tracking Number (RTN) 3-22408. These RTNs were linked under 3-13302 in a letter submitted to MassDEP on 9 June 2009.

RTN 3-13302

A Phase IV Completion Report was submitted for RTN 3-13302 on 24 November 2004 to MassDEP for portions of the approximately 83-acre property (Figure 2). The Phase IV Completion Report documented

wetland remediation activities conducted from October 2003 through October 2004, and groundwater remediation activities conducted from May through July 2004. Since completion of Phase IV activities and the Site entering into ROS, ROS reports were submitted to MassDEP on a semi-annual basis.

RTN 3-22408

A Phase IV Completion Report was submitted for RTN 3-22408 on 23 December 2008 for the chlorinated volatile organic compound (CVOC) impacts to Northern Area soil and groundwater. Beginning with the 9 June 2009 report, activities formerly conducted under this RTN have been summarized jointly with those under RTN 3-13302 in the ROS submittals described above.

Current Property Conditions

The property is currently under redevelopment by the property owner. All pre-existing buildings have been razed, the Site has been graded, and new buildings are under construction or are now completed and occupied. Most of the Southern Area monitoring wells were decommissioned prior to the redevelopment, an effort that was described in previous ROS submittals. Details regarding the newly installed monitoring well network are included in the ROS report dated 15 May 2013. A site plan showing the newly installed monitoring wells in the Southern Area is included as Figure 3A.

NORTHERN AREA BIOREMEDIATION ACTIVITIES

Northern Area bioremediation Response Actions were conducted by Innovative Engineering Solutions, Inc. of Walpole, Massachusetts (IESI) during this reporting period. Response actions during this reporting period included operation of the Enhanced Anaerobic Dechlorination (EAD) system. Appendix A includes a memorandum prepared by IESI to document those activities.

NORTHERN AREA GROUNDWATER SAMPLING

Quarterly groundwater sampling in the Northern Area was conducted by IESI in July and October 2013. Groundwater sampling results are summarized in Appendix A.

SOUTHERN AREA GROUNDWATER SAMPLING

Semi-annual groundwater sampling in the Southern Area was conducted by ERM in October 2013. Groundwater monitoring activities included:

- Collection of groundwater samples via USEPA low-flow methods for laboratory analyses;
- Groundwater gauging; and
- Field measurement of groundwater geochemical parameters, including: temperature, conductivity, pH, dissolved oxygen concentration, and oxidation-reduction potential (ORP).

Groundwater samples were analyzed for VOCs by USEPA Method 8260C and 1,4-dioxane by USEPA Method 8260D-SIM or USEPA Method 522 by Test America, of Buffalo, NY. One groundwater sample (MW-1010M) was analyzed for permanganate by a colorimetric method by ERM. Groundwater gauging data for the October 2013 sampling event is included in Table 1, and a groundwater contour map for the Southern Area is included as Figure 4. A summary table of the geochemical parameters is included in Table 2, and a summary of the laboratory analytical data from the Southern Area monitoring wells is included in Table 3. Groundwater laboratory analytical reports are provided in Appendix B.

Results of the groundwater gauging in the Southern Area indicate that groundwater is generally flowing to the southwest toward the Sudbury River (Figure 4).

Groundwater monitoring results indicate that the following analytes exceeded the Massachusetts Contingency Plan (MCP) GW-1 criteria in one or more of the Southern Area monitoring wells: trichloroethene (TCE); 1,1-dichloroethene; 1,4-dioxane; and methyl tertiary-butyl ether (MTBE). Figure 5 summarizes TCE detections in the Southern Area monitoring wells during the October 2013 sampling event. The groundwater exceedances of the GW-1 standard for MTBE were documented in a Downgradient Property Status determination that was filed with MassDEP in November 2007.

SOUTHERN AREA VERTICAL PROFILING

A vertical profiling program was conducted near the property boundary in the Southern Area to update the conceptual site model for the Site. Vertical profiling is a groundwater assessment tool that uses a direct-push drill rig to advance a Waterloo APS tip into the ground. As the tip is driven downward, spring water is injected into the formation to create a real time log of depth versus relative hydraulic conductivity. Additionally, the tool can be stopped and the flow through the tip reversed to collect a groundwater sample using low-flow sampling methods. Together, these pieces of data can be used to make inferences about the soil type and groundwater quality.

Vertical profiling activities were conducted in October 2013 and included the collection of multiple groundwater samples from the 15 locations shown on Figure 3B. In total, 40 groundwater samples were collected and submitted to Stone Environmental's mobile laboratory for analysis of VOCs by US EPA Method 8260C. Corresponding laboratory reports are included in Appendix C. The logs depicting results of the vertical profiling program are compiled in Appendix D.

The geologic strata encountered during the program were consistent with those identified during previous investigations in the Southern Area. CVOCs detected in the profiler samples were consistent with those previously identified at the Site. These concentrations are similar in magnitude to those identified during regular analyses from the monitoring wells in the southern area.

SENTINEL WELL MONITORING

In 2009, Raytheon installed five sentinel monitoring wells on the Town of Wayland Cow Common Conservation Area as part of a voluntary Supplemental Environmental Project (SEP). In addition to the installation of the five wells, the SEP included an agreement to conduct semi-annual monitoring of VOCs concentrations in the wells through December 2011; however, Raytheon voluntarily samples these wells. The locations of the sentinel monitoring wells are shown on Figure 6.

Groundwater samples were collected from wells SEN-1M/D, SEN-2M/D, and SEN-3 on 2 October 2013 and 3 October 2013 using low-flow sampling procedures. Prior to sampling, each well was gauged to determine depth to groundwater (Table 4). The samples were submitted to TestAmerica for analysis of VOCs by USEPA Method 8260C. Geochemical parameters

were recorded during the low-flow sampling procedure. A summary of geochemical data for the sentinel wells is provided in Table 5. Corresponding laboratory reports are included in Appendix B.

Of the five samples analyzed, only one, SEN-1D contained measurable concentrations of VOCs. The sample from SEN-1D contained 1.2 µg/L of ethyl ether, a compound for which there is no MCP Method 1 GW-1 criteria. However, this concentration is below the Reportable Concentration GW-1 (310 CMR 1858) for ethyl ether of 1,000 µg/L. Cis-1,2-dichloroethene was also detected in groundwater sampled from SEN-1D at a concentration of 1.0 µg/L, consistent with historical sampling data. Both the Method 1 GW-1 and the Reportable Concentration GW-1 for cis-1,2-dichloroethene are 70 µg/L. Groundwater analytical data for the sentinel wells is provided in Table 6.

The Massachusetts Department of Environmental Protection (MassDEP) ROS transmittal form (BWSC 108) and Remedial Monitoring Reports (RMRs) were filed electronically via eDEP. Copies of the BWSC forms are included in Appendix E. If you have any questions or comments in regard to this submittal please contact the undersigned at (617) 646-7800.

Sincerely,

John C. Drobinski, P.G., LSP
Principal–in-Charge

Lyndsey Colburn, P.G.
Project Manager

encl:

Table 1	Summary of Groundwater Gauging Data – Southern Area
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Figure 1	Site Locus Map
Figure 2	Remediation Site Plan
Figure 3A	Monitoring Well Locations – Southern Area
Figure 3B	October 2013 Waterloo APS Profiler Locations
Figure 4	Upper Potentiometric Surface Map – Southern Area
Figure 5	October 2013 TCE Concentrations in Groundwater – Southern Area
Figure 6	Sentinel Well Locations

Appendix A	IESI Memorandum
Appendix B	Laboratory Analytical Reports
Appendix C	Stone Environmental Laboratory Analytical Reports
Appendix D	Waterloo Profiler Logs
Appendix E	BWSC Transmittal Forms

cc: Jonathan Hone, Raytheon
Benson Gould, CMG Environmental
Brian Monahan, Town of Wayland Conservation Commission
Anthony DeLuca, Koffler Group
Richard Gass, Wayland Meadows
Nancy Roberts, Roberts Consulting
Sami Fam, IESI
Public Repositories

Tables

Table 1
Summary of Groundwater Gauging Data - Southern Area
Former Raytheon Facility
430 Boston Post Road
Wayland, Massachusetts

Location ID	Measurement Date	Top of Casing Elevation (ft)	Depth to Water (ft)	Groundwater Elevation (ft)
MW-1001B	01-Oct-13	135.11	16.37	118.74
MW-1001M	01-Oct-13	135.06	15.45	119.61
MW-1002B	01-Oct-13	135.44	16.78	118.66
MW-1003	01-Oct-13	132.53	13.11	119.42
MW-1004	01-Oct-13	134.61	16.10	118.51
MW-1005	01-Oct-13	134.28	15.56	118.72
MW-1006	01-Oct-13	135.21	15.11	120.10
MW-1008	01-Oct-13	134.84	16.38	118.46
MW-1009	01-Oct-13	134.66	17.90	116.76
MW-1010D	01-Oct-13	133.40	17.42	115.98
MW-1010M	01-Oct-13	133.43	15.62	117.81
MW-1011	02-Oct-13	133.18	16.56	116.62
MW-1013	01-Oct-13	133.26	14.63	118.63
MW-1014	01-Oct-13	133.37	16.81	116.56
MW-1015D	01-Oct-13	133.61	18.24	115.37
MW-1016D	01-Oct-13	133.40	18.01	115.39
MW-1017D	01-Oct-13	133.15	17.71	115.44
MW-1018	01-Oct-13	133.55	18.36	115.19
MW-1019B	01-Oct-13	131.51	16.13	115.38
MW-1020	01-Oct-13	132.92	18.41	114.51
MW-1022	01-Oct-13	132.22	18.36	113.86
MW-1023	01-Oct-13	131.76	17.92	113.84
MW-1024D	01-Oct-13	130.66	15.98	114.68
MW-1025D	01-Oct-13	130.92	16.10	114.82
MW-1025M	01-Oct-13	130.75	16.88	113.87
MW-1026D	01-Oct-13	131.55	16.54	115.01
MW-1027	01-Oct-13	126.87	13.22	113.65
MW-1028	01-Oct-13	127.99	14.44	113.55
MW-1030	01-Oct-13	131.51	17.78	113.73
MW-1031	01-Oct-13	130.56	16.87	113.69
MW-1032	01-Oct-13	130.08	16.55	113.53
MW-1033	01-Oct-13	119.99	6.62	113.37
MW-1034	01-Oct-13	123.20	9.85	113.35
MW-217D	01-Oct-13	129.87	14.96	114.91
MW-217M	01-Oct-13	130.21	15.61	114.60
MW-217S	01-Oct-13	129.83	14.98	114.85

Table 2
Summary of Groundwater Field Parameters
Southern Area
Former Raytheon Facility
430 Boston Post Road
Wayland, Massachusetts

Field Parameter	Unit	Location ID Sample Date	MW-1001B 21-Mar-13	MW-1001M 21-Mar-13	MW-1002B 22-Mar-13	MW-1002M 22-Mar-13	MW-1002M 2-Oct-13
Conductivity	uS/cm		4,586	2,336	448	72	91
Dissolved Oxygen	mg/l		0.42	0.60	0.39	5.55	4.66
Oxidation-Reduction Potential	mV		-177.1	-130.9	-101.2	39.3	132.7
pH	pH units		13.29	7.44	13.31	7.25	6.75
Sodium permanganate	mg/l		None	None	None	None	None
Specific Conductivity	uS/cm		7213	3367	700	104	108
Temperature	deg C		5.97	8.97	5.93	8.71	16.95

Notes:
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Summary of Groundwater Field Parameters
Southern Area
Former Raytheon Facility
430 Boston Post Road
Wayland, Massachusetts

Field Parameter	Unit	Location ID Sample Date	MW-1003 22-Mar-13	MW-1003 3-Oct-13	MW-1004 21-Mar-13	MW-1004 2-Oct-13	MW-1005 19-Mar-13	MW-1005 1-Oct-13	MW-1006 20-Mar-13	MW-1006 2-Oct-13
Conductivity	uS/cm		413	684	780	409	583	760	150	200
Dissolved Oxygen	mg/l		0.31	1.92	0.32	0.20	0.26	0.15	0.85	0.53
Oxidation-Reduction Potential	mV		-117.0	-61.0	128.6	68.0	69.3	-23.7	163.9	67.9
pH	pH units		8.00	7.54	6.27	6.27	7.87	7.29	7.76	7.06
Sodium permanganate	mg/l		None	None	None	None	None	None	None	None
Specific Conductivity	uS/cm		586	812	1081	474	814	873	207	247
Temperature	deg C		9.55	16.74	10.54	17.75	10.01	18.27	10.42	15.03

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Table 2
Summary of Groundwater Field Parameters
Southern Area
Former Raytheon Facility
430 Boston Post Road
Wayland, Massachusetts

Field Parameter	Unit	Location ID Sample Date	MW-1008 19-Mar-13	MW-1008 3-Oct-13	MW-1009 21-Mar-13	MW-1009 2-Oct-13	MW-1010D 20-Mar-13	MW-1010D 2-Oct-13	MW-1010M 20-Mar-13	MW-1010M 2-Oct-13
Conductivity	uS/cm		276	293	877	615	369	508	None	NM
Dissolved Oxygen	mg/l		0.35	0.51	0.44	1.51	0.34	0.17	None	NM
Oxidation-Reduction Potential	mV		-28.2	66.7	10.5	133.8	120.2	-30.8	None	NM
pH	pH units		6.87	6.64	6.90	6.95	7.59	6.80	None	NM
Sodium permanganate	mg/l		None	None	None	None	None	None	< 0	< 0
Specific Conductivity	uS/cm		410	370	1226	775	504	603	None	NM
Temperature	deg C		7.83	14.16	10.01	14.24	10.45	16.77	None	NM

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Table 2
Summary of Groundwater Field Parameters
Southern Area
Former Raytheon Facility
430 Boston Post Road
Wayland, Massachusetts

Field Parameter	Unit	Location ID Sample Date	MW-1011 19-Mar-13	MW-1011 2-Oct-13	MW-1013 22-Mar-13	MW-1013 2-Oct-13	MW-1015D 20-Mar-13	MW-1015D 2-Oct-13	MW-1016D 22-Mar-13	MW-1016D 3-Oct-13
Conductivity	uS/cm		458	1,132	250	366	572	740	2,395	654
Dissolved Oxygen	mg/l		0.34	0.23	4.85	5.00	0.35	0.45	0.33	0.14
Oxidation-Reduction Potential	mV		8.3	-157.4	58.1	140.3	218.6	94.4	-294.8	-101.3
pH	pH units		7.49	8.12	7.49	7.30	7.43	7.08	6.81	6.55
Sodium permanganate	mg/l		None	None	None	None	None	None	None	None
Specific Conductivity	uS/cm		722	1435	370	436	787	851	3443	774
Temperature	deg C		5.85	13.95	8.43	16.57	10.69	18.17	9.11	16.89

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Table 2
Summary of Groundwater Field Parameters
Southern Area
Former Raytheon Facility
430 Boston Post Road
Wayland, Massachusetts

Field Parameter	Unit	Location ID Sample Date	MW-1017D 19-Mar-13	MW-1017D 1-Oct-13	MW-1018 19-Mar-13	MW-1018 2-Oct-13	MW-1019B 19-Mar-13	MW-1019B 1-Oct-13	MW-1020 20-Mar-13	MW-1020 1-Oct-13
Conductivity	uS/cm		302	381	108	115	7,128	84	221	305
Dissolved Oxygen	mg/l		0.26	0.34	1.64	2.60	0.18	0.19	0.24	0.18
Oxidation-Reduction Potential	mV		-102.4	-124.1	137.2	121.9	-125.3	-19.4	208.3	131.5
pH	pH units		6.49	6.69	6.14	5.80	12.94	10.66	5.48	5.78
Sodium permanganate	mg/l		None	None	None	None	None	None	None	None
Specific Conductivity	uS/cm		419	472	159	145	9921	98	310	387
Temperature	deg C		10.33	15.07	7.98	14.14	10.24	17.66	10.2	13.91

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Table 2
Summary of Groundwater Field Parameters
Southern Area
Former Raytheon Facility
430 Boston Post Road
Wayland, Massachusetts

Field Parameter	Unit	Location ID Sample Date	MW-1022 20-Mar-13	MW-1022 1-Oct-13	MW-1023 20-Mar-13	MW-1023 1-Oct-13	MW-1024D 22-Mar-13	MW-1024D 3-Oct-13
Conductivity	uS/cm		348	478	761	1000	709	680
Dissolved Oxygen	mg/l		0.33	0.37	0.24	0.47	0.38	0.26
Oxidation-Reduction Potential	mV		203.7	0.2	82.6	-45.9	-110.9	-80.2
pH	pH units		6.76	6.57	6.64	6.57	6.64	6.51
Sodium permanganate	mg/l		None	None	None	None	None	None
Specific Conductivity	uS/cm		507	571	1071	1192	953	826
Temperature	deg C		8.61	16.38	10	16.53	11.67	15.73

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Table 2
Summary of Groundwater Field Parameters
Southern Area
Former Raytheon Facility
430 Boston Post Road
Wayland, Massachusetts

Field Parameter	Unit	Location ID Sample Date	MW-1025D 21-Mar-13	MW-1025D 3-Oct-13	MW-1025M 20-Mar-13	MW-1025M 3-Oct-13	MW-1026D 22-Mar-13	MW-1026D 1-Oct-13	MW-1027 20-Mar-13	MW-1027 2-Oct-13
Conductivity	uS/cm		277	482	385	1,480	293	576	393	958
Dissolved Oxygen	mg/l		0.19	0.24	0.25	0.18	0.21	0.18	0.29	0.15
Oxidation-Reduction Potential	mV		-176.0	-132.8	141.2	-22.0	-160.4	-76.6	44.6	-193.8
pH	pH units		7.21	6.83	6.66	6.51	7.54	6.57	6.99	7.19
Sodium permanganate	mg/l		None	None	None	None	None	None	None	None
Specific Conductivity	uS/cm		376	583	503	1780	413	724	519	1128
Temperature	deg C		11.19	15.92	12.66	16.31	9.76	14.2	12.36	17.11

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Table 2
Summary of Groundwater Field Parameters
Southern Area
Former Raytheon Facility
430 Boston Post Road
Wayland, Massachusetts

Field Parameter	Unit	Location ID Sample Date	MW-1028 20-Mar-13	MW-1028 2-Oct-13	MW-1030 20-Mar-13	MW-1030 1-Oct-13	MW-1031 21-Mar-13	MW-1031 1-Oct-13
Conductivity	uS/cm		5	1,038	172	427	418	768
Dissolved Oxygen	mg/l		0.39	0.72	2.18	0.89	5.40	0.46
Oxidation-Reduction Potential	mV		68.7	-42.8	199.6	139.6	-25.4	17.0
pH	pH units		6.41	6.82	7.30	6.65	9.38	6.66
Sodium permanganate	mg/l		None	None	None	None	None	None
Specific Conductivity	uS/cm		7	1258	243	498	554	872
Temperature	deg C		11.25	15.8	10.27	17.55	12.01	18.83

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Table 2
Summary of Groundwater Field Parameters
Southern Area
Former Raytheon Facility
430 Boston Post Road
Wayland, Massachusetts

Field Parameter	Unit	Location ID Sample Date	MW-1032 19-Mar-13	MW-1032 1-Oct-13	MW-1033 20-Mar-13	MW-1033 3-Oct-13	MW-1034 20-Mar-13	MW-1034 2-Oct-13
Conductivity	uS/cm		1,051	1,108	309	207	631	1,410
Dissolved Oxygen	mg/l		0.15	0.46	0.26	0.34	0.47	0.20
Oxidation-Reduction Potential	mV		-60.7	-73.1	6.5	-143.0	140.2	-185.3
pH	pH units		6.62	6.49	7.17	8.04	8.46	7.65
Sodium permanganate	mg/l		None	None	None	None	None	None
Specific Conductivity	uS/cm		1452	1342	441	322	862	1776
Temperature	deg C		10.52	15.89	9.32	16.07	10.92	14.24

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Table 2
Summary of Groundwater Field Parameters
Southern Area
Former Raytheon Facility
430 Boston Post Road
Wayland, Massachusetts

Field Parameter	Unit	Location ID Sample Date	MW-217D 21-Mar-13	MW-217D 3-Oct-13	MW-217M 21-Mar-13	MW-217M 3-Oct-13	MW-217S 21-Mar-13	MW-217S 3-Oct-13
Conductivity	uS/cm		162	312	213	369	253	227
Dissolved Oxygen	mg/l		0.43	0.44	0.67	0.59	0.64	5.57
Oxidation-Reduction Potential	mV		-75.2	-99.1	116.7	127.1	145.1	238.0
pH	pH units		6.94	6.86	6.55	6.19	6.03	4.96
Sodium permanganate	mg/l		None	None	None	None	None	None
Specific Conductivity	uS/cm		270	383	340	461	409	287
Temperature	deg C		3.41	15.18	5.38	14.56	5.01	14.02

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Table 3
Summary of Groundwater Analytical Data - Southern Area
Former Raytheon Facility
Wayland, Massachusetts

		Location ID	MW-1001B	MW-1001M	MW-1002B	MW-1002M	MW-1002M	MW-1003	MW-1003	MW-1004	MW-1004
		Sample Date	21-Mar-13	21-Mar-13	22-Mar-13	22-Mar-13	02-Oct-13	22-Mar-13	03-Oct-13	21-Mar-13	02-Oct-13
		Sample Type	N	N	N	N	N	N	N	N	N
Analyte	**MA-GW-1**										
Method EPA522, µg/L											
1,4-Dioxane	3										
Method SW8260B_SIM, µg/L											
1,4-Dioxane	**3**										
Method SW8260C_SIM, µg/L											
1,4-Dioxane	**3**										
Method SW8260C, µg/L											
1,1,1-Trichloroethane	200		*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*
1,1-Dichloroethane	70		*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*
1,1-Dichloroethene	**7**		*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*
1,2,4-Trimethylbenzene	NS		*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*
1,2-Dichlorobenzene	600		*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*
1,3,5-Trimethylbenzene	NS		*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*
1,4-Dichlorobenzene	5		*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*
1,4-Dioxane	**3**		**< 50**	**< 50**	**< 50**	**< 50**	**< 50**	**< 50**	**< 50**	**< 50**	**< 50**
Benzene	5		*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*
Carbon disulfide	NS		*< 10*	*< 10*	*< 10*	*< 10*	*< 10*	*< 10*	*< 10*	*< 10*	*< 10*
Chlorobenzene	100		*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*
Chloroform	70		*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*
cis-1,2-Dichloroethene	70		*< 1.0*	11	*< 1.0*	*< 1.0*	*< 1.0*	3.2	3.4	*< 1.0*	*< 1.0*
Cymene	NS		*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*
Freon 11	NS		*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*
Methyl tert-butyl ether	**70**		*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*
Naphthalene	140		*< 5.0*	*< 5.0*	*< 5.0*	*< 5.0*	*< 5.0*	*< 5.0*	*< 5.0*	*< 5.0*	*< 5.0*
Tert-amyl methyl ether	NS		*< 5.0*	*< 5.0*	*< 5.0*	*< 5.0*	*< 5.0*	*< 5.0*	*< 5.0*	*< 5.0*	*< 5.0*
Tetrachloroethene	5		*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*
Trichloroethene	**5**		*< 1.0*	**8.2**	*< 1.0*	*< 1.0*	*< 1.0*	4.4	3.8	*< 1.0*	*< 1.0*

Notes:
< = Compound not detected. Reportable detection limit shown.
Empty cells = Not analyzed
NS = No Standard
N = Normal Environmental Sample
FD = Field Duplicate Sample
Units are in µg/L = micrograms per liter
SW8260C analyses performed by TestAmerica - Buffalo, NY of Buffalo.
EPA522 analyses performed by TestAmerica - Burlington, VT of Burlington, VT.
SW8260B_SIM analyses performed by TestAmerica - Buffalo, NY of Buffalo.
SW8260C_SIM analyses performed by TestAmerica - Buffalo, NY of Buffalo.
MA-GW-1 = Massachusetts Contingency Plan, 310 CMR 40,
Method 1 Groundwater Standards, Category GW-1.

Table 3
Summary of Groundwater Analytical Data - Southern Area
Former Raytheon Facility
Wayland, Massachusetts

		Location ID	MW-1005	MW-1005	MW-1006	MW-1006	MW-1008	MW-1008	MW-1009	MW-1009	MW-1010D	MW-1010D	MW-1010D	MW-1010M	MW-1010M
		Sample Date	19-Mar-13	01-Oct-13	20-Mar-13	02-Oct-13	19-Mar-13	03-Oct-13	21-Mar-13	02-Oct-13	20-Mar-13	02-Oct-13	02-Oct-13	20-Mar-13	02-Oct-13
		Sample Type	N	N	N	N	N	N	N	N	N	N	FD	N	N
Analyte	**MA-GW-1**														
Method EPA522, µg/L															
1,4-Dioxane	3														
Method SW8260B_SIM, µg/L															
1,4-Dioxane	**3**														
Method SW8260C_SIM, µg/L															
1,4-Dioxane	**3**														
Method SW8260C, µg/L															
1,1,1-Trichloroethane	200		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethane	70		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethene	**7**		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	1.4	1.4	< 1.0	< 1.0
1,2,4-Trimethylbenzene	NS		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	4.2	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichlorobenzene	600		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3,5-Trimethylbenzene	NS		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	1.6	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,4-Dichlorobenzene	5		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,4-Dioxane	**3**		**< 50**	**< 50**	**< 50**	**< 50 ***	**< 50**	**< 50**	**< 50**	**< 50**	**< 50**	**< 50**	**< 50**	**< 50**	**< 50**
Benzene	5		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	1.5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Carbon disulfide	NS		< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Chlorobenzene	100		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloroform	70		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
cis-1,2-Dichloroethene	70		3.2	12	< 1.0	< 1.0	< 1.0	< 1.0	2.2	< 1.0	1.1	3.4	3.4	< 1.0	< 1.0
Cymene	NS		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Freon 11	NS		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Methyl tert-butyl ether	**70**		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Naphthalene	140		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	5.2	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Tert-amyl methyl ether	NS		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Tetrachloroethene	5		1.2	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethene	**5**		**17**	**14**	< 1.0	1.1	4.0	3.4	1.9	1.3	**7.1**	**34**	**32**	< 1.0	1.1

Notes:
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N = Normal Environmental Sample
FD = Field Duplicate Sample
Units are in µg/L = micrograms per liter
SW8260C analyses performed by TestAmerica - Buffalo, NY of Buffalo.
EPA522 analyses performed by TestAmerica - Burlington, VT of Burlington, VT.
SW8260B_SIM analyses performed by TestAmerica - Buffalo, NY of Buffalo.
SW8260C_SIM analyses performed by TestAmerica - Buffalo, NY of Buffalo.
MA-GW-1 = Massachusetts Contingency Plan, 310 CMR 40,
Method 1 Groundwater Standards, Category GW-1.

Table 3
Summary of Groundwater Analytical Data - Southern Area
Former Raytheon Facility
Wayland, Massachusetts

		Location ID	MW-1011	MW-1013	MW-1013	MW-1014	MW-1014	MW-1015D	MW-1015D	MW-1015D	MW-1016D	MW-1016D
		Sample Date	02-Oct-13	22-Mar-13	03-Oct-13	22-Mar-13	03-Oct-13	20-Mar-13	02-Oct-13	02-Oct-13	22-Mar-13	03-Oct-13
		Sample Type	N	N	N	N	N	N	N	FD	N	N
Analyte	**MA-GW-1**											
Method EPA522, µg/L												
1,4-Dioxane	3		0.20									
Method SW8260B_SIM, µg/L												
1,4-Dioxane	**3**											
Method SW8260C_SIM, µg/L												
1,4-Dioxane	**3**											
Method SW8260C, µg/L												
1,1,1-Trichloroethane	200		*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*
1,1-Dichloroethane	70		*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*
1,1-Dichloroethene	**7**		*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	2.2
1,2,4-Trimethylbenzene	NS		*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*
1,2-Dichlorobenzene	600		*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*
1,3,5-Trimethylbenzene	NS		*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*
1,4-Dichlorobenzene	5		*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*
1,4-Dioxane	**3**		**< 50**	**< 50**	**< 50**	**< 50**	**< 50**	**< 50**	**< 50 ***	**< 50 ***	**< 50**	**< 50**
Benzene	5		*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*
Carbon disulfide	NS		*< 10*	*< 10*	*< 10*	*< 10*	*< 10*	*< 10*	*< 10*	*< 10*	*< 10*	*< 10*
Chlorobenzene	100		*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*
Chloroform	70		*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	1.5	1.5	1.4	*< 1.0*	*< 1.0*
cis-1,2-Dichloroethene	70		4.0	*< 1.0*	*< 1.0*	*< 1.0*	1.4	2.0	1.8	1.8	4.1	18
Cymene	NS		*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*
Freon 11	NS		*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*
Methyl tert-butyl ether	**70**		*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*
Naphthalene	140		*< 5.0*	*< 5.0*	*< 5.0*	*< 5.0*	*< 5.0*	*< 5.0*	*< 5.0*	*< 5.0*	*< 5.0*	*< 5.0*
Tert-amyl methyl ether	NS		*< 5.0*	*< 5.0*	*< 5.0*	*< 5.0*	*< 5.0*	*< 5.0*	*< 5.0*	*< 5.0*	*< 5.0*	*< 5.0*
Tetrachloroethene	5		*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	3.4	3.3	3.1	*< 1.0*	1.4
Trichloroethene	**5**		**12**	*< 1.0*	*< 1.0*	4.0	**21**	**34**	**33**	**33**	**28**	**35**

Notes:
< = Compound not detected. Reportable detection limit shown.
Empty cells = Not analyzed
NS = No Standard
N = Normal Environmental Sample
FD = Field Duplicate Sample
Units are in µg/L = micrograms per liter
SW8260C analyses performed by TestAmerica - Buffalo, NY of Buffalo.
EPA522 analyses performed by TestAmerica - Burlington, VT of Burlington, VT.
SW8260B_SIM analyses performed by TestAmerica - Buffalo, NY of Buffalo.
SW8260C_SIM analyses performed by TestAmerica - Buffalo, NY of Buffalo.
MA-GW-1 = Massachusetts Contingency Plan, 310 CMR 40,
Method 1 Groundwater Standards, Category GW-1.

Table 3
Summary of Groundwater Analytical Data - Southern Area
Former Raytheon Facility
Wayland, Massachusetts

		Location ID	MW-1017D	MW-1017D	MW-1018	MW-1018	MW-1018	MW-1019B	MW-1019B	MW-1020	MW-1020	MW-1020
		Sample Date	19-Mar-13	01-Oct-13	19-Mar-13	02-Oct-13	17-Oct-13	19-Mar-13	01-Oct-13	19-Mar-13	01-Oct-13	01-Oct-13
		Sample Type	N	N	N	N	N	N	N	N	N	FD
Analyte	**MA-GW-1**											
Method EPA522, µg/L												
1,4-Dioxane	3									0.60	0.46	
Method SW8260B_SIM, µg/L												
1,4-Dioxane	**3**											
Method SW8260C_SIM, µg/L												
1,4-Dioxane	**3**											
Method SW8260C, µg/L												
1,1,1-Trichloroethane	200		*< 1.0*	*< 1.0*	94	17	*< 1.0*	*< 1.0*	*< 1.0*	2.1	67	68
1,1-Dichloroethane	70		*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	2.1	2.2
1,1-Dichloroethene	**7**		*< 1.0*	*< 1.0*	**7.3**	1.0	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	4.7	4.8
1,2,4-Trimethylbenzene	NS		*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*
1,2-Dichlorobenzene	600		*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*
1,3,5-Trimethylbenzene	NS		*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*
1,4-Dichlorobenzene	5		*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*
1,4-Dioxane	**3**		**< 50**	**< 50**	**< 50**	**< 50**	**< 50**	**< 50**	**< 50**	**< 50**	**< 50**	**< 50**
Benzene	5		*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*
Carbon disulfide	NS		*< 10*	*< 10*	*< 10*	*< 10*	*< 10*	*< 10*	*< 10*	*< 10*	*< 10*	*< 10*
Chlorobenzene	100		*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*
Chloroform	70		*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*
cis-1,2-Dichloroethene	70		8.1	19	1.5	*< 1.0*	*< 1.0*	5.9	*< 1.0*	*< 1.0*	1.3	1.4
Cymene	NS		*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*
Freon 11	NS		*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*
Methyl tert-butyl ether	**70**		*< 1.0*	*< 1.0*	7.6	10	*< 1.0*	*< 1.0*	*< 1.0*	11	2.0	2.0
Naphthalene	140		*< 5.0*	*< 5.0*	*< 5.0*	*< 5.0*	*< 5.0*	*< 5.0*	*< 5.0*	*< 5.0*	*< 5.0*	*< 5.0*
Tert-amyl methyl ether	NS		*< 5.0*	*< 5.0*	*< 5.0*	*< 5.0*	*< 5.0*	*< 5.0*	*< 5.0*	*< 5.0*	*< 5.0*	*< 5.0*
Tetrachloroethene	5		*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*
Trichloroethene	**5**		**41**	**53**	**300**	**59**	*< 1.0*	**26**	*< 1.0*	**16**	**280**	**270**

Notes:
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Empty cells = Not analyzed
NS = No Standard
N = Normal Environmental Sample
FD = Field Duplicate Sample
Units are in µg/L = micrograms per liter
SW8260C analyses performed by TestAmerica - Buffalo, NY of Buffalo.
EPA522 analyses performed by TestAmerica - Burlington, VT of Burlington, VT.
SW8260B_SIM analyses performed by TestAmerica - Buffalo, NY of Buffalo.
SW8260C_SIM analyses performed by TestAmerica - Buffalo, NY of Buffalo.
MA-GW-1 = Massachusetts Contingency Plan, 310 CMR 40,
Method 1 Groundwater Standards, Category GW-1.

Table 3
Summary of Groundwater Analytical Data - Southern Area
Former Raytheon Facility
Wayland, Massachusetts

		Location ID	MW-1022	MW-1022	MW-1022	MW-1023	MW-1023	MW-1024D	MW-1024D	MW-1025D	MW-1025D	MW-1025M	MW-1025M	MW-1025M
		Sample Date	20-Mar-13	20-Mar-13	01-Oct-13	20-Mar-13	01-Oct-13	22-Mar-13	03-Oct-13	21-Mar-13	03-Oct-13	20-Mar-13	03-Oct-13	17-Oct-13
		Sample Type	N	FD	N	N	N	N	N	N	N	N	N	N
Analyte	**MA-GW-1**													
Method EPA522, µg/L														
1,4-Dioxane	3		< 0.20		< 0.20	0.65	0.81	0.40	0.55	0.31	0.39			
Method SW8260B_SIM, µg/L														
1,4-Dioxane	**3**		< 1.6			< 1.6		< 1.6		< 1.6		**6.1**		
Method SW8260C_SIM, µg/L														
1,4-Dioxane	**3**								< 1.6		< 1.6		**6.8**	
Method SW8260C, µg/L														
1,1,1-Trichloroethane	200		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	14	3.3	< 2.0
1,1-Dichloroethane	70		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	4.5	2.3	2.0
1,1-Dichloroethene	**7**		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	6.6	**9.2**	< 2.0
1,2,4-Trimethylbenzene	NS		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 2.0	< 2.0
1,2-Dichlorobenzene	600		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 2.0	< 2.0
1,3,5-Trimethylbenzene	NS		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 2.0	< 2.0
1,4-Dichlorobenzene	5		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 2.0	< 2.0
1,4-Dioxane	**3**		**< 50**	**< 50**	**< 50**	**< 50**	**< 50**	**< 50**	**< 50**	**< 50**	**< 100**	**< 50**	**< 100**	**< 100**
Benzene	5		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 2.0	< 2.0
Carbon disulfide	NS		< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 20	< 10	< 20	< 20
Chlorobenzene	100		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 2.0	< 2.0
Chloroform	70		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 2.0	< 2.0
cis-1,2-Dichloroethene	70		1.0	1.1	< 1.0	6.6	6.6	13	18	17	17	2.4	< 2.0	< 2.0
Cymene	NS		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 2.0	< 2.0
Freon 11	NS		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 2.0	< 2.0
Methyl tert-butyl ether	**70**		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	23	12	< 2.0
Naphthalene	140		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 10	< 10
Tert-amyl methyl ether	NS		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	< 10	< 10
Tetrachloroethene	5		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 2.0	< 2.0
Trichloroethene	**5**		2.7	2.9	3.1	**38**	**46**	**73**	**72**	**110**	**110**	**170**	**130**	**140**

Notes:
< = Compound not detected. Reportable detection limit shown.
Empty cells = Not analyzed
NS = No Standard
N = Normal Environmental Sample
FD = Field Duplicate Sample
Units are in µg/L = micrograms per liter
SW8260C analyses performed by TestAmerica - Buffalo, NY of Buffalo.
EPA522 analyses performed by TestAmerica - Burlington, VT of Burlington, VT.
SW8260B_SIM analyses performed by TestAmerica - Buffalo, NY of Buffalo.
SW8260C_SIM analyses performed by TestAmerica - Buffalo, NY of Buffalo.
MA-GW-1 = Massachusetts Contingency Plan, 310 CMR 40,
Method 1 Groundwater Standards, Category GW-1.

Table 3
Summary of Groundwater Analytical Data - Southern Area
Former Raytheon Facility
Wayland, Massachusetts

		Location ID	MW-1026D	MW-1026D	MW-1027	MW-1027	MW-1028	MW-1028	MW-1028
		Sample Date	22-Mar-13	01-Oct-13	20-Mar-13	02-Oct-13	20-Mar-13	02-Oct-13	17-Oct-13
		Sample Type	N	N	N	N	N	N	N
Analyte	**MA-GW-1**								
Method EPA522, µg/L									
1,4-Dioxane	3		0.43	0.39					
Method SW8260B_SIM, µg/L									
1,4-Dioxane	**3**		*< 1.6*						
Method SW8260C_SIM, µg/L									
1,4-Dioxane	**3**								
Method SW8260C, µg/L									
1,1,1-Trichloroethane	200		*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*
1,1-Dichloroethane	70		*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*
1,1-Dichloroethene	**7**		*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*
1,2,4-Trimethylbenzene	NS		*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*
1,2-Dichlorobenzene	600		*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*
1,3,5-Trimethylbenzene	NS		*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*
1,4-Dichlorobenzene	5		*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*
1,4-Dioxane	**3**		**< 50**	**< 50**	**< 50**	**< 50**	**< 50**	**< 50 ***	**< 50**
Benzene	5		*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*
Carbon disulfide	NS		*< 10*	*< 10*	*< 10*	19	*< 10*	*< 10*	*< 10*
Chlorobenzene	100		*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*
Chloroform	70		*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*
cis-1,2-Dichloroethene	70		2.4	11	*< 1.0*	*< 1.0*	1.6	1.2	1.2
Cymene	NS		*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*
Freon 11	NS		*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*
Methyl tert-butyl ether	**70**		*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*
Naphthalene	140		*< 5.0*	*< 5.0*	*< 5.0*	*< 5.0*	*< 5.0*	*< 5.0*	*< 5.0*
Tert-amyl methyl ether	NS		*< 5.0*	*< 5.0*	*< 5.0*	*< 5.0*	*< 5.0*	*< 5.0*	*< 5.0*
Tetrachloroethene	5		*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*
Trichloroethene	**5**		**19**	**89**	*< 1.0*	*< 1.0*	**6.8**	**6.4**	**6.1**

Notes:
< = Compound not detected. Reportable detection limit shown.
Empty cells = Not analyzed
NS = No Standard
N = Normal Environmental Sample
FD = Field Duplicate Sample
Units are in µg/L = micrograms per liter
SW8260C analyses performed by TestAmerica - Buffalo, NY of Buffalo.
EPA522 analyses performed by TestAmerica - Burlington, VT of Burlington, VT.
SW8260B_SIM analyses performed by TestAmerica - Buffalo, NY of Buffalo.
SW8260C_SIM analyses performed by TestAmerica - Buffalo, NY of Buffalo.
MA-GW-1 = Massachusetts Contingency Plan, 310 CMR 40,
Method 1 Groundwater Standards, Category GW-1.

Table 3
Summary of Groundwater Analytical Data - Southern Area
Former Raytheon Facility
Wayland, Massachusetts

		Location ID	MW-1030	MW-1030	MW-1031	MW-1031	MW-1032	MW-1032	MW-1032	MW-1033	MW-1033	MW-1033	MW-1034	MW-1034
		Sample Date	20-Mar-13	01-Oct-13	21-Mar-13	01-Oct-13	19-Mar-13	19-Mar-13	01-Oct-13	20-Mar-13	20-Mar-13	03-Oct-13	20-Mar-13	02-Oct-13
		Sample Type	N	N	N	N	N	FD	N	N	FD	N	N	N
Analyte	**MA-GW-1**													
Method EPA522, µg/L														
1,4-Dioxane	3											2.3		
Method SW8260B_SIM, µg/L														
1,4-Dioxane	**3**													
Method SW8260C_SIM, µg/L														
1,4-Dioxane	**3**													
Method SW8260C, µg/L														
1,1,1-Trichloroethane	200		4.1	3.6	< 1.0	5.4	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethane	70		< 1.0	< 1.0	< 1.0	2.2	1.3	1.3	1.2	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethene	**7**		2.4	2.2	< 1.0	6.2	1.7	1.6	1.7	1.5	1.4	<1.0	<1.0	<1.0
1,2,4-Trimethylbenzene	NS		< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichlorobenzene	600		< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,3,5-Trimethylbenzene	NS		< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,4-Dichlorobenzene	5		< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,4-Dioxane	**3**		**< 50**	**< 50**	**< 50**	**< 50**	**< 50**	**< 50**	**< 50**	**< 50**	**< 50**	**< 50**	**< 50**	**< 50**
Benzene	5		< 1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Carbon disulfide	NS		< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Chlorobenzene	100		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloroform	70		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
cis-1,2-Dichloroethene	70		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	1.8	1.8	< 1.0	16	16
Cymene	NS		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Freon 11	NS		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Methyl tert-butyl ether	**70**		12	38	1.1	64	**86**	**85**	**94**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Naphthalene	140		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Tert-amyl methyl ether	NS		< 5.0	7.9	< 5.0	18	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Tetrachloroethene	5		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethene	**5**		**23**	**25**	2.3	**88**	**12**	**11**	**10**	**14**	**13**	**5.3**	**39**	**44**

Notes:
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NS = No Standard
N = Normal Environmental Sample
FD = Field Duplicate Sample
Units are in µg/L = micrograms per liter
SW8260C analyses performed by TestAmerica - Buffalo, NY of Buffalo.
EPA522 analyses performed by TestAmerica - Burlington, VT of Burlington, VT.
SW8260B_SIM analyses performed by TestAmerica - Buffalo, NY of Buffalo.
SW8260C_SIM analyses performed by TestAmerica - Buffalo, NY of Buffalo.
MA-GW-1 = Massachusetts Contingency Plan, 310 CMR 40,
Method 1 Groundwater Standards, Category GW-1.

Table 3
Summary of Groundwater Analytical Data - Southern Area
Former Raytheon Facility
Wayland, Massachusetts

		Location ID	MW-217D	MW-217D	MW-217D	MW-217M	MW-217M	MW-217S	MW-217S	MW-217S
		Sample Date	21-Mar-13	21-Mar-13	03-Oct-13	21-Mar-13	03-Oct-13	21-Mar-13	03-Oct-13	03-Oct-13
		Sample Type	N	FD	N	N	N	N	N	FD
Analyte	**MA-GW-1**									
Method EPA522, µg/L										
1,4-Dioxane	3									
Method SW8260B_SIM, µg/L										
1,4-Dioxane	**3**									
Method SW8260C_SIM, µg/L										
1,4-Dioxane	**3**									
Method SW8260C, µg/L										
1,1,1-Trichloroethane	200		*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 4.0*	*< 1.0*	*< 1.0*	*< 1.0*
1,1-Dichloroethane	70		*< 1.0*	*< 1.0*	*< 1.0*	2.0	*< 4.0*	*< 1.0*	*< 1.0*	*< 1.0*
1,1-Dichloroethene	**7**		*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 4.0*	*< 1.0*	*< 1.0*	*< 1.0*
1,2,4-Trimethylbenzene	NS		*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 4.0*	*< 1.0*	*< 1.0*	*< 1.0*
1,2-Dichlorobenzene	600		*< 1.0*	*< 1.0*	*< 1.0*	1.4	*< 4.0*	*< 1.0*	*< 1.0*	*< 1.0*
1,3,5-Trimethylbenzene	NS		*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 4.0*	*< 1.0*	*< 1.0*	*< 1.0*
1,4-Dichlorobenzene	5		*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 4.0*	*< 1.0*	*< 1.0*	*< 1.0*
1,4-Dioxane	**3**		**< 50**	**< 50**	**< 50**	**< 50**	**< 200**	**< 50**	**< 50**	**< 50**
Benzene	5		*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 4.0*	*< 1.0*	*< 1.0*	*< 1.0*
Carbon disulfide	NS		*< 10*	*< 10*	*< 10*	*< 10*	*< 40*	*< 10*	*< 10*	*< 10*
Chlorobenzene	100		*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 4.0*	*< 1.0*	*< 1.0*	*< 1.0*
Chloroform	70		*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 4.0*	*< 1.0*	*< 1.0*	*< 1.0*
cis-1,2-Dichloroethene	70		*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 4.0*	*< 1.0*	*< 1.0*	*< 1.0*
Cymene	NS		*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 4.0*	*< 1.0*	*< 1.0*	*< 1.0*
Freon 11	NS		*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 4.0*	*< 1.0*	*< 1.0*	*< 1.0*
Methyl tert-butyl ether	**70**		*< 1.0*	*< 1.0*	*< 1.0*	**250**	**250**	*< 1.0*	*< 1.0*	*< 1.0*
Naphthalene	140		*< 5.0*	*< 5.0*	*< 5.0*	*< 5.0*	*< 20*	*< 5.0*	*< 5.0*	*< 5.0*
Tert-amyl methyl ether	NS		*< 5.0*	*< 5.0*	*< 5.0*	86	76	*< 5.0*	*< 5.0*	*< 5.0*
Tetrachloroethene	5		*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 4.0*	*< 1.0*	*< 1.0*	*< 1.0*
Trichloroethene	**5**		1.9	1.9	3.0	**6.4**	**5.1**	*< 1.0*	*< 1.0*	*< 1.0*

Notes:
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Empty cells = Not analyzed
NS = No Standard
N = Normal Environmental Sample
FD = Field Duplicate Sample
Units are in µg/L = micrograms per liter
SW8260C analyses performed by TestAmerica - Buffalo, NY of Buffalo.
EPA522 analyses performed by TestAmerica - Burlington, VT of Burlington, VT.
SW8260B_SIM analyses performed by TestAmerica - Buffalo, NY of Buffalo.
SW8260C_SIM analyses performed by TestAmerica - Buffalo, NY of Buffalo.
MA-GW-1 = Massachusetts Contingency Plan, 310 CMR 40,
Method 1 Groundwater Standards, Category GW-1.

Table 4
Summary of Groundwater Gauging Data - Cow Common Conservation Area
Former Raytheon Facility
430 Boston Post Road
Wayland, Massachusetts

Location ID	Measurement Date	Top of Casing Elevation (ft)	Depth to Water (ft)	Groundwater Elevation (ft)
SEN-1D	19-Apr-10	None	6.64	None
SEN-1D	05-Oct-10	None	12.93	None
SEN-1D	04-Apr-11	None	8.90	None
SEN-1D	01-Oct-13	None	13.72	None
SEN-1M	19-Apr-10	None	6.42	None
SEN-1M	05-Oct-10	None	12.87	None
SEN-1M	04-Apr-11	None	8.74	None
SEN-1M	01-Oct-13	None	13.71	None
SEN-2D	19-Apr-10	None	5.57	None
SEN-2D	05-Oct-10	None	9.87	None
SEN-2D	04-Apr-11	None	7.01	None
SEN-2D	01-Oct-13	None	10.07	None
SEN-2M	19-Apr-10	None	5.66	None
SEN-2M	05-Oct-10	None	9.96	None
SEN-2M	04-Apr-11	None	7.08	None
SEN-2M	01-Oct-13	None	10.16	None
SEN-3	19-Apr-10	None	9.41	None
SEN-3	05-Oct-10	None	17.00	None
SEN-3	04-Apr-11	None	13.12	None
SEN-3	01-Oct-13	None	17.09	None

Table 5
Summary of Groundwater Geochemical Parameters
Cow Common Conservation Area
Former Raytheon Facility
430 Boston Post Road
Wayland, Massachusetts

	Location ID	SEN-1D	SEN-1D	SEN-1D	SEN-1D
	Sample Date	20-Apr-10	07-Oct-10	06-Apr-11	02-Oct-13
Field Parameter	**Unit**				
Conductivity	uS/cm	288	149	172	239
Dissolved Oxygen	mg/l	0.4	0.46	0.39	0.48
Oxidation-Reduction Potential	mV	-206.4	-190.0	-259.2	-186
pH	pH units	7.68	7.87	8.07	7.95
Specific Conductivity	uS/cm	361	199	241	304
Temperature	deg C	14.58	11.74	10.01	13.66

Notes:
- = No Unit
deg C = degrees Celsius
mg/L = milligrams per liter
mV = millivolts
pH units = pH units
uS/cm = microSiemens per centimeter
NM = Not Measured

Table 5
Summary of Groundwater Geochemical Parameters
Cow Common Conservation Area
Former Raytheon Facility
430 Boston Post Road
Wayland, Massachusetts

	Location ID	SEN-1M	SEN-1M	SEN-1M	SEN-1M	SEN-2D	SEN-2D	SEN-2D	SEN-2D
	Sample Date	20-Apr-10	07-Oct-10	06-Apr-11	02-Oct-13	20-Apr-10	07-Oct-10	06-Apr-11	02-Oct-13
Field Parameter	**Unit**								
Conductivity	uS/cm	447	215	235	287	369	176	182	276
Dissolved Oxygen	mg/l	0.19	0.31	0.32	0.41	0.34	0.24	0.45	0.46
Oxidation-Reduction Potential	mV	-129.6	-168.8	-246	-112.3	-222.6	-263.0	-247.2	-166
pH	pH units	7.84	7.38	7.51	6.84	8.69	8.41	8.28	7.56
Specific Conductivity	uS/cm	559	290	326	355	484	225	251	341
Temperature	deg C	14.71	11.49	10.5	15.04	12.81	13.60	10.56	15.04

Notes:
- = No Unit
deg C = degrees Celsius
mg/L = milligrams per liter
mV = millivolts
pH units = pH units
uS/cm = microSiemens per centimeter
NM = Not Measured

Table 5
Summary of Groundwater Geochemical Parameters
Cow Common Conservation Area
Former Raytheon Facility
430 Boston Post Road
Wayland, Massachusetts

	Location ID	SEN-2M	SEN-2M	SEN-2M	SEN-2M	SEN-3	SEN-3	SEN-3	SEN-3
	Sample Date	19-Apr-10	07-Oct-10	06-Apr-11	02-Oct-13	19-Apr-10	07-Oct-10	06-Apr-11	03-Oct-13
Field Parameter	**Unit**								
Conductivity	uS/cm	130	114	122	181	152	147	160	169
Dissolved Oxygen	mg/l	0.36	0.20	0.45	0.38	0.47	0.38	0.48	0.88
Oxidation-Reduction Potential	mV	-127.5	-146.1	-132.1	-123	-2.9	7.0	-150.7	-66
pH	pH units	7.39	7.16	7.03	7.02	7.81	7.50	7.84	7.61
Specific Conductivity	uS/cm	176	150	172	228	208	200	224	218
Temperature	deg C	11.22	12.33	9.58	14.2	11.21	11.18	10.13	13.14

Notes:
- = No Unit
deg C = degrees Celsius
mg/L = milligrams per liter
mV = millivolts
pH units = pH units
uS/cm = microSiemens per centimeter
NM = Not Measured

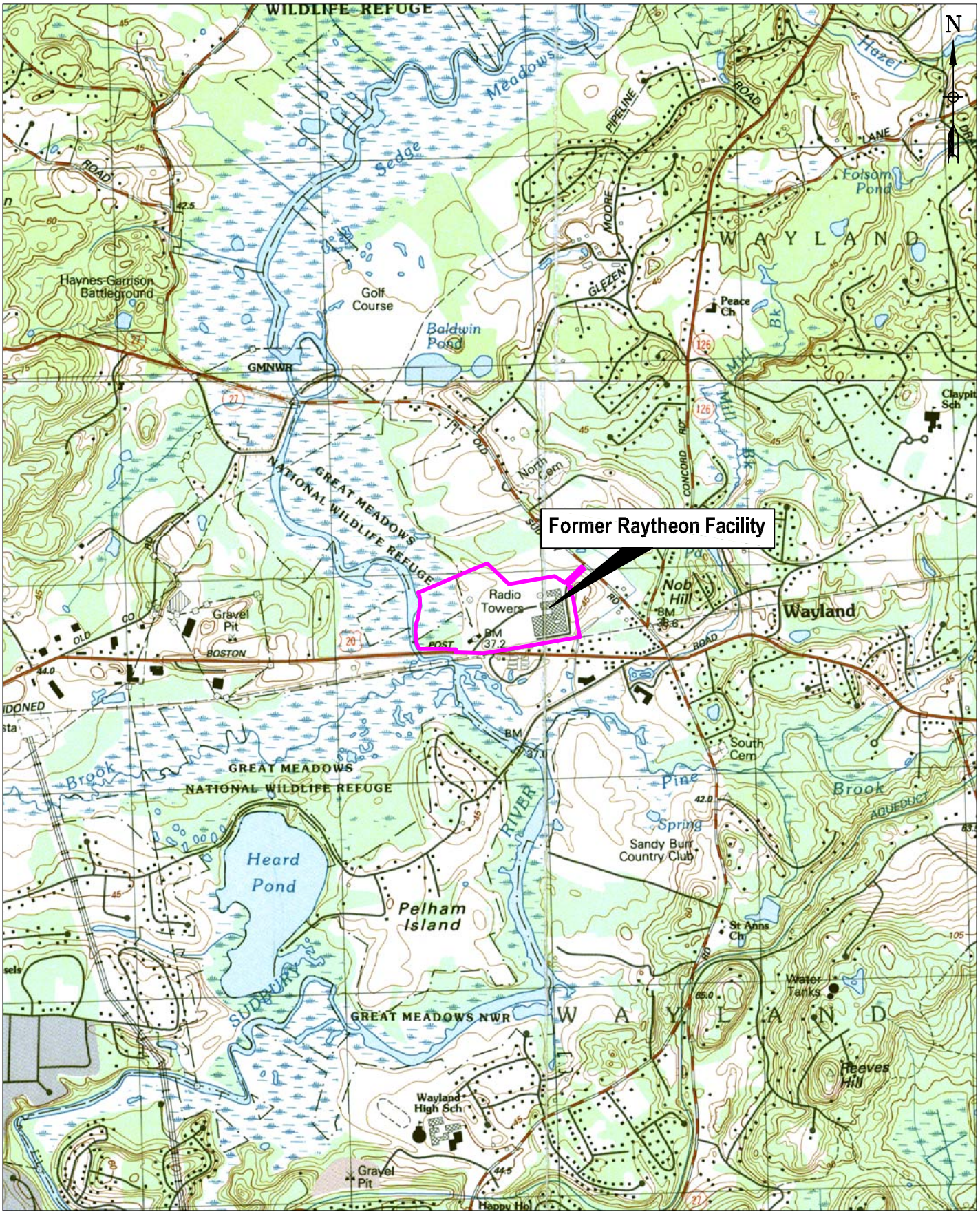
Table 6
Cow CommonConservation Area Analytical Results
Former Raytheon Facility
Wayland, Massachusetts

	Location ID	SEN-1D	SEN-1M	SEN-2D	SEN-2M	SEN-3
	Sample Date	02-Oct-13	02-Oct-13	02-Oct-13	02-Oct-13	03-Oct-13
	Sample Type	N	N	N	N	N
Analyte	**MA-GW-1**					
Carbon disulfide	NS	*< 10*	*< 10*	*< 10*	*< 10*	*< 10*
Chloroform	70	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*
cis-1,2-Dichloroethene	70	1.0	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*
Ethyl ether	NS	1.2	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*
Ethyl-tert-butyl ether	NS	*< 5.0*	*< 5.0*	*< 5.0*	*< 5.0*	*< 5.0*
Methylene chloride	5	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*
Toluene	1000	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*

Notes:
< = Compound not detected. Reportable detection limit shown.
Empty cells = Not analyzed
NS = No Standard
N = Normal Environmental Sample
Units are in µg/L = micrograms per liter

MA-GW-1 = Massachusetts Contingency Plan, 310 CMR 40, Method 1 Groundwater Standards, Category GW-1.

Figures



Legend

Former Raytheon Facility Property Boundary

Scale = 1:25,000

Figure 1 - Site Locus Map
Former Raytheon Facility
and Former Hamlen Parcel - Wayland, MA

ERM

R:\Raytheon\Wayland - 1922\Raytheon ROS\ROS Locus.dwg (05/24/2005 - 11:50am Boston)

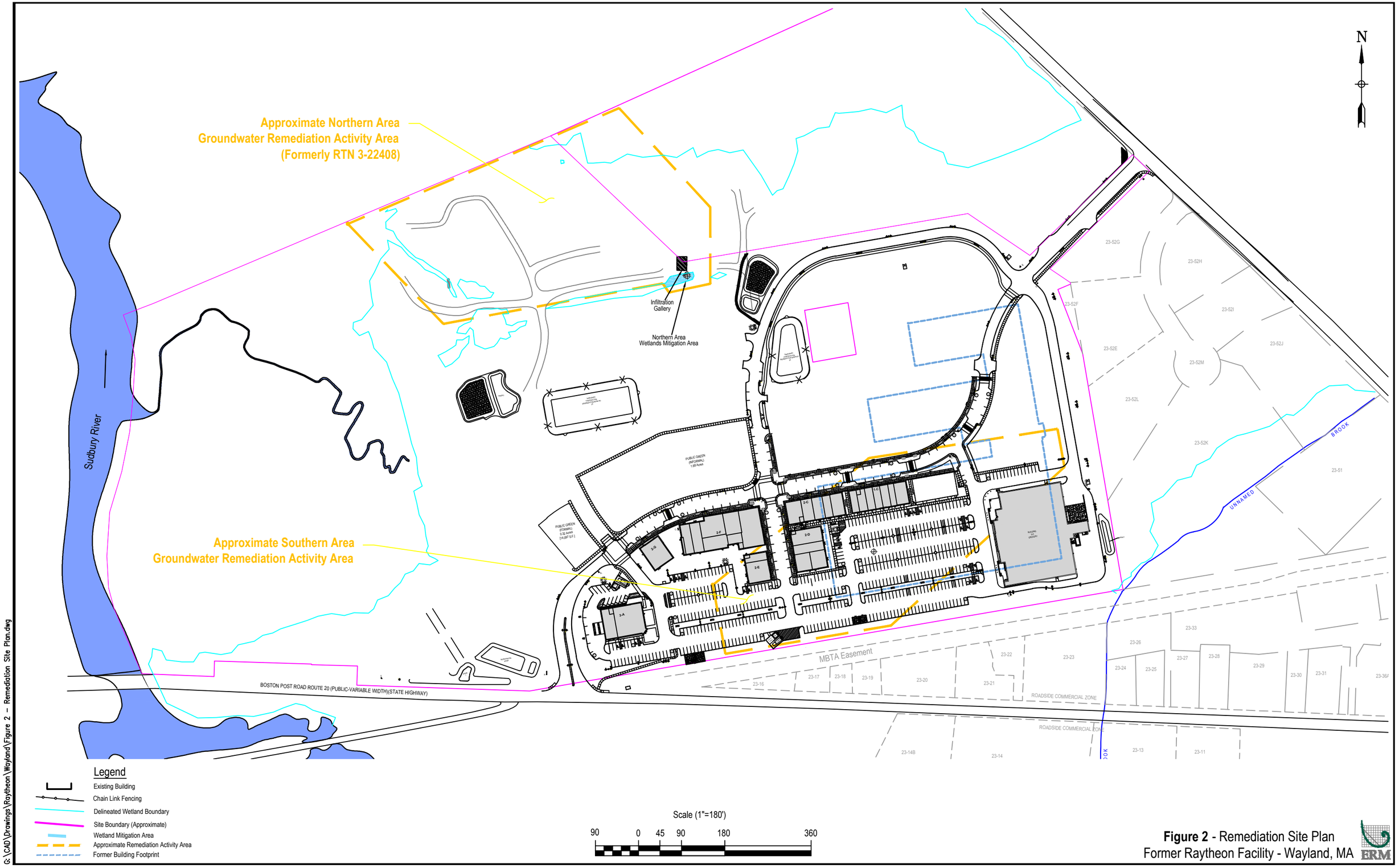


Figure 2 - Remediation Site Plan
Former Raytheon Facility - Wayland, MA

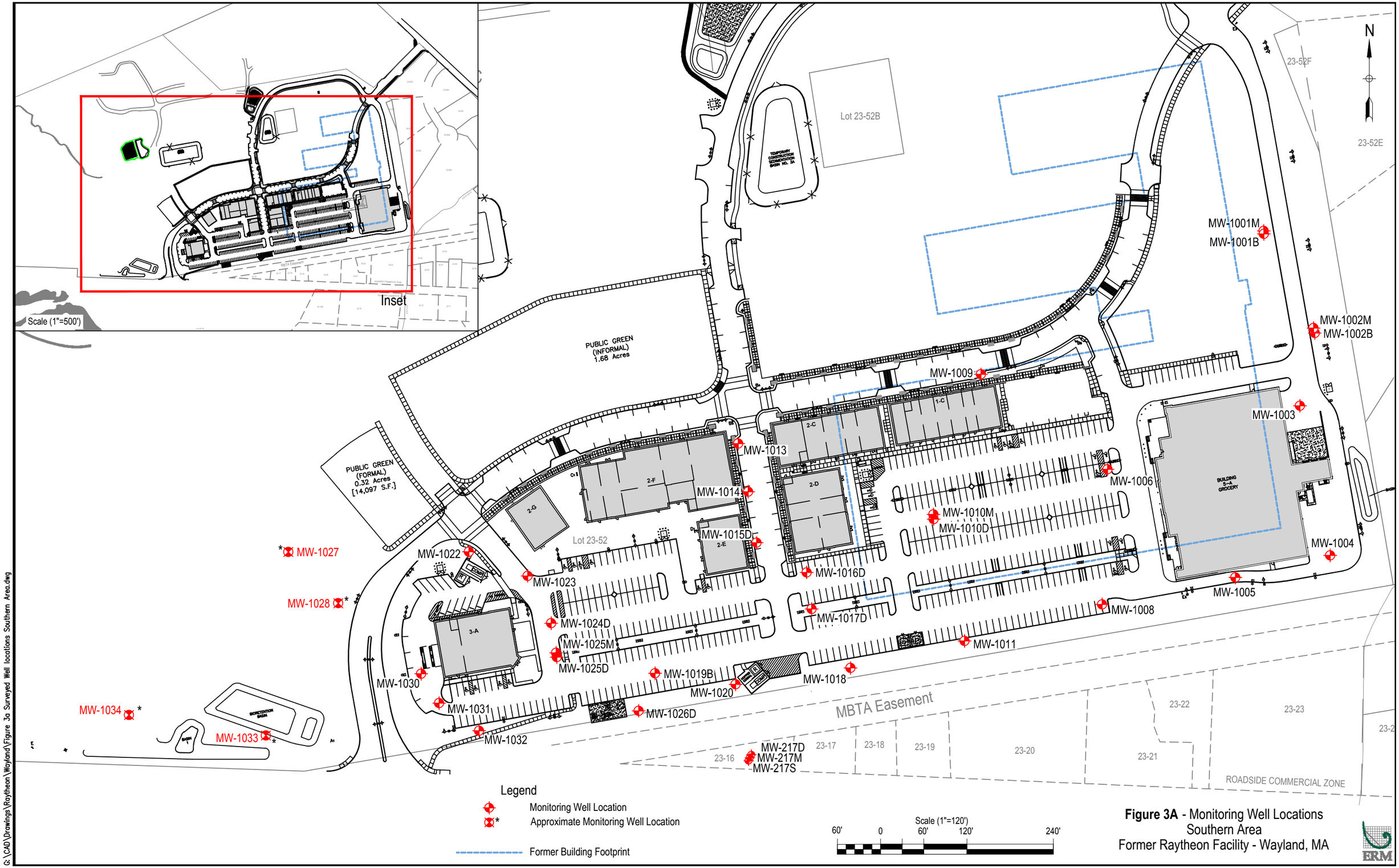


Figure 3A - Monitoring Well Locations
Southern Area
Former Raytheon Facility - Wayland, MA

G:\CAD\Drawings\Raytheon\Wayland\Figure 3a Surveyed Well locations Southern Area.dwg

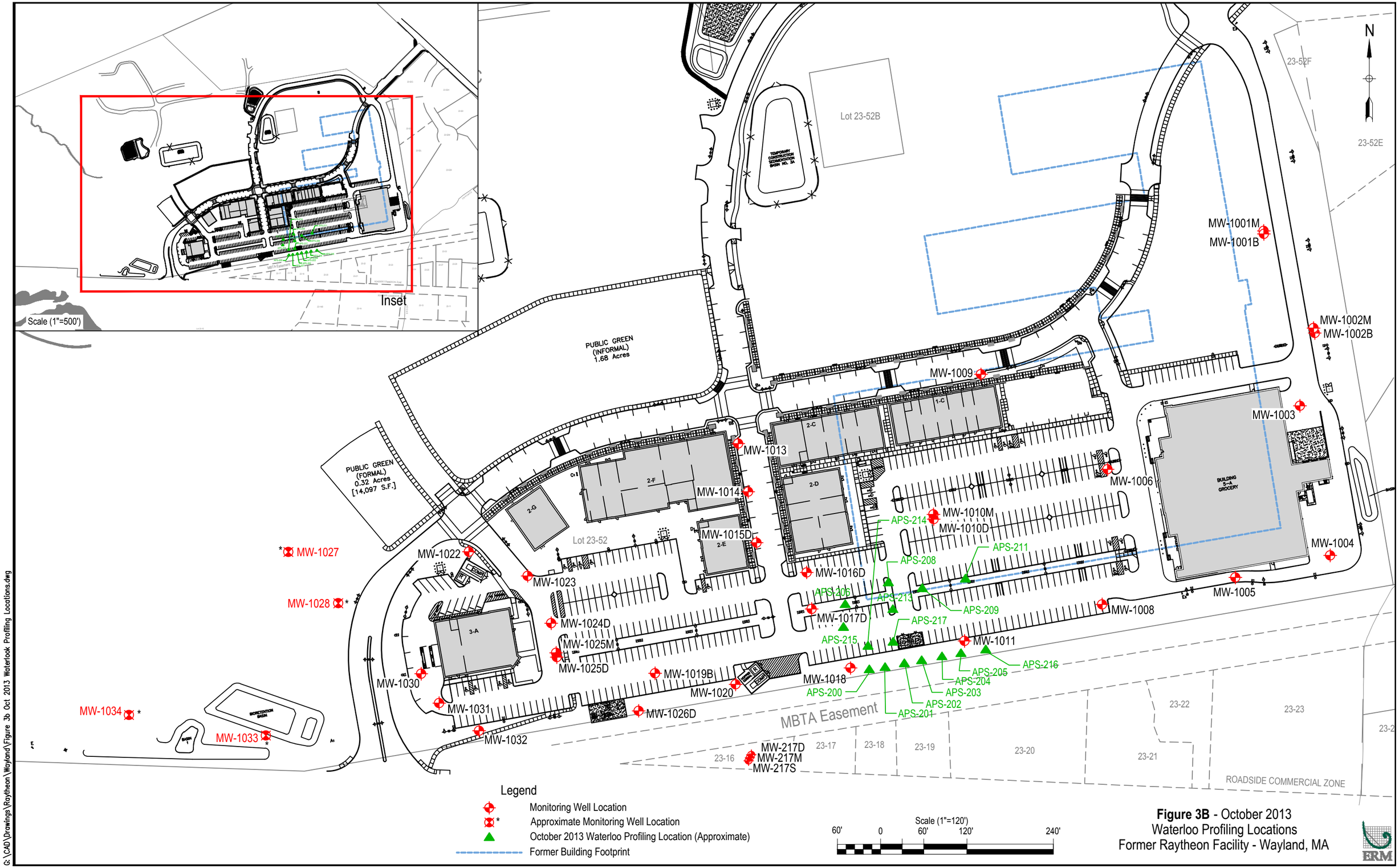


Figure 3B - October 2013
Waterloo Profiling Locations
Former Raytheon Facility - Wayland, MA

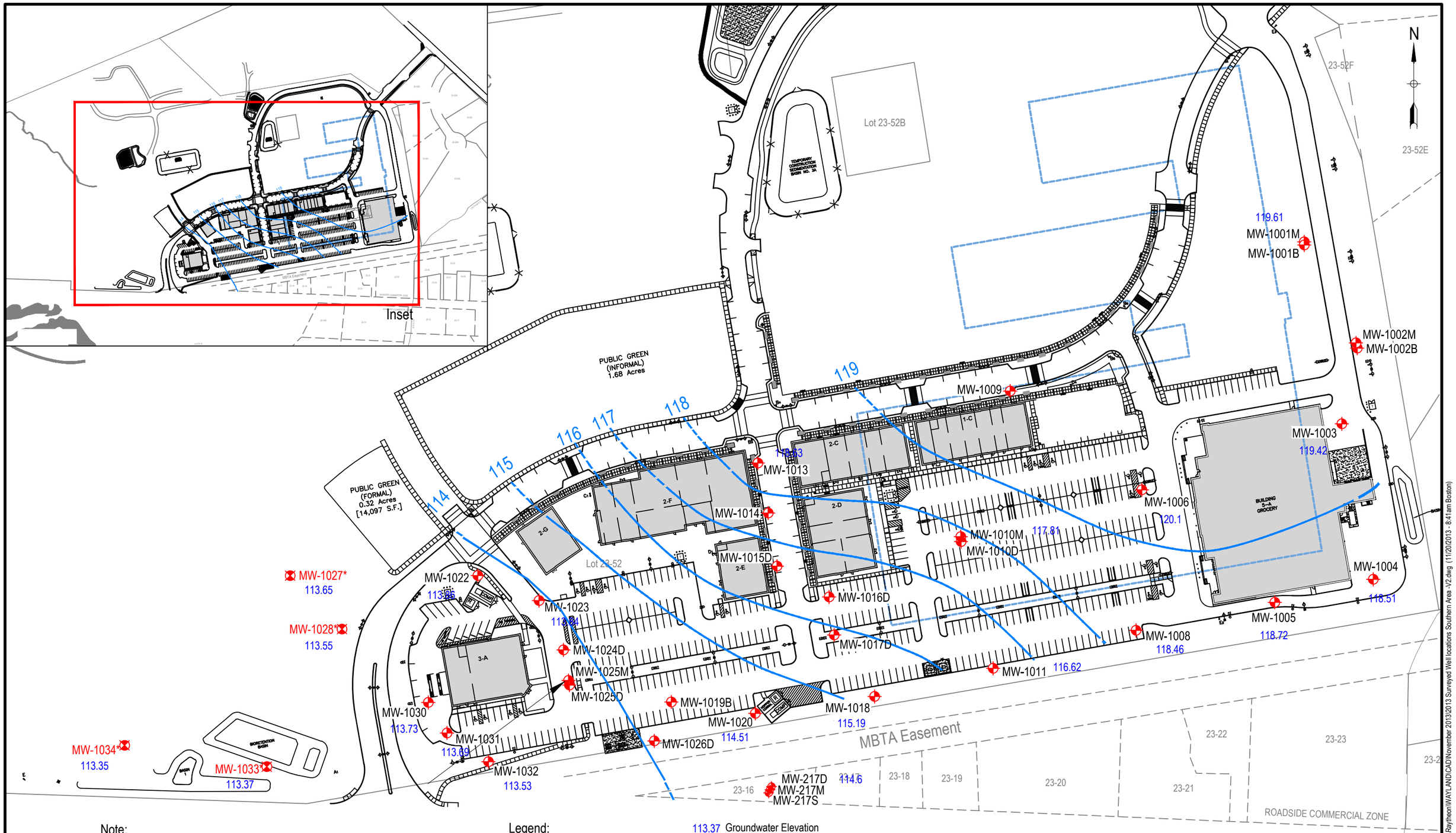


Figure 4 - October 2013 Upper Potentiometric Surface
Southern Area
Former Raytheon Facility - Wayland, MA

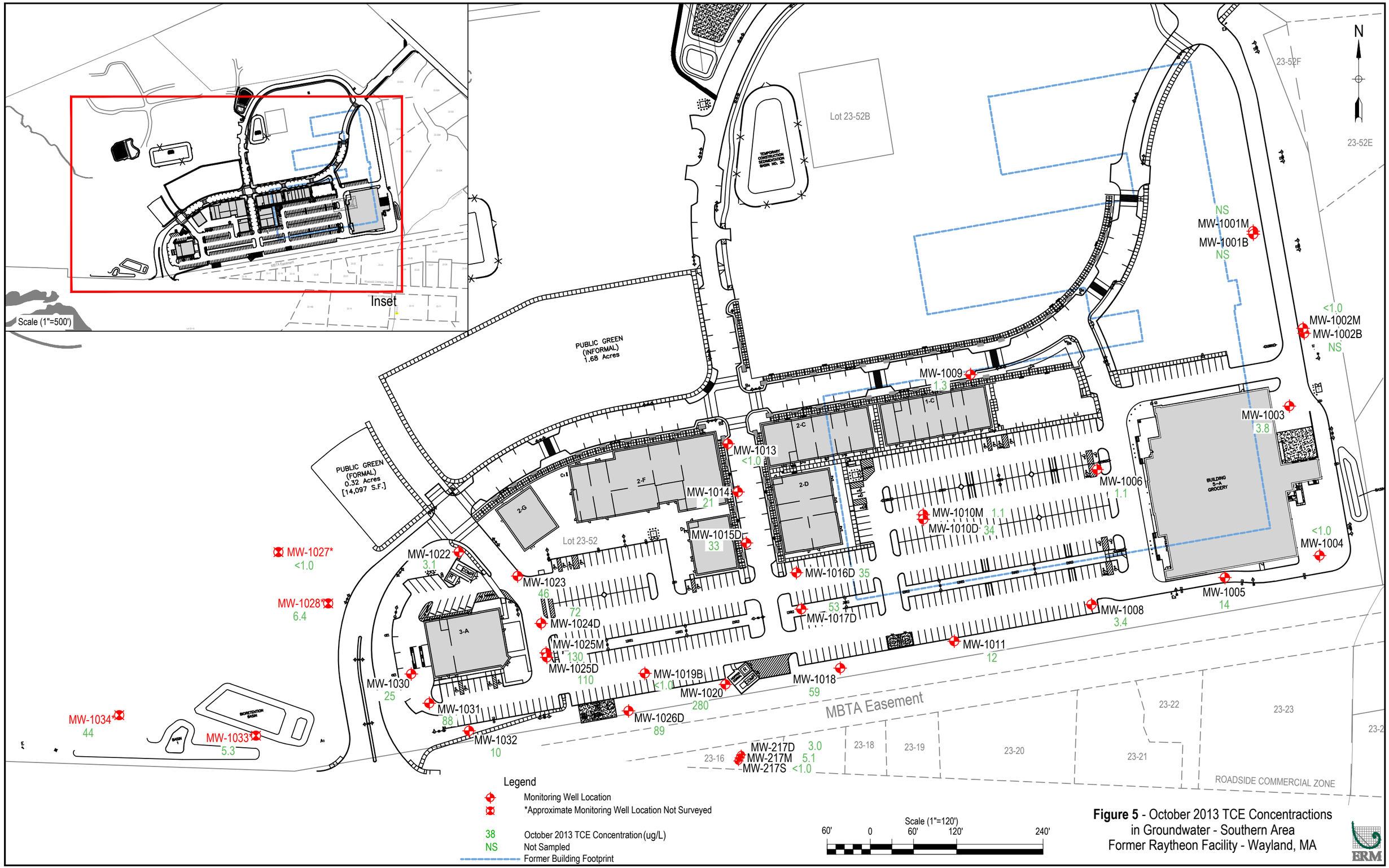
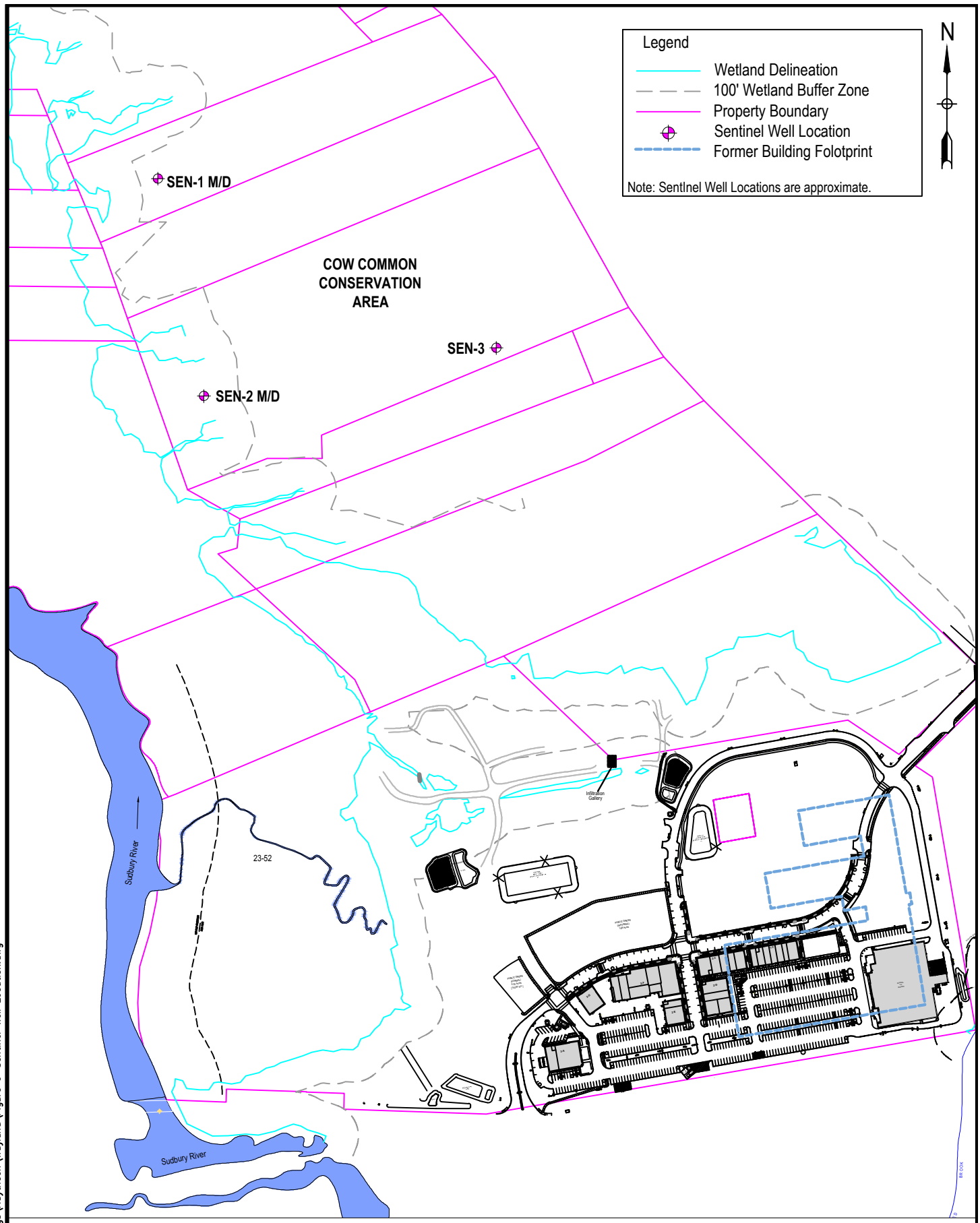


Figure 5 - October 2013 TCE Concentrations in Groundwater - Southern Area
Former Raytheon Facility - Wayland, MA



Scale (1"=400')

200' 0 200' 400' 800'

Figure 6 - Sentinel Well Locations
Former Raytheon Facility - Wayland, MA

ERM

G:\CAD\Drawings\Raytheon\Wayland\Figure 6-Sentinel Well Location.dwg

Appendix A
IESI Memorandum

Innovative Engineering Solutions, Inc.
25 Spring Street • Walpole, Massachusetts 02081-4301 (508) 668-0033 • fax (508) 668-5175

MEMORANDUM

To: Chip Burkhardt, Jonathan Hone; Raytheon Company
From: Sami A. Fam, Ph.D., P.E., L.S.P., IESI
David Falatko, P.E., IESI
Subject: Work Summary for ROS Report
Raytheon Facility
Wayland, Massachusetts
Date: October 25, 2013

At the request of Raytheon Corporation (Raytheon), Innovative Engineering Solutions Inc. (IESI) has prepared this memorandum outlining the bioremediation activities (at the Northern Area) between April 1, 2013 and October 21, 2013 at the Former Raytheon Facility located in Wayland, Massachusetts. The memorandum provides sufficient detail to be incorporated into a Remedy Operation Status (ROS) report. The following activities have been performed during this time period:

1. Enhanced Anaerobic Dechlorination (EAD) system operation;
2. Collection of groundwater elevation data; and,
3. Sampling and analysis to evaluate remediation progress;

These activities are described in greater detail below.

1. EAD Recirculation System Operation

The EAD program involves recirculation of groundwater within the treatment zone to distribute the added electron donor. During the reporting period, the remediation system extracted from wells REW-1, REW-4, REW-5, REW-6, REW-7, REW-8, REW-10 and REW-12 (extraction rate of approximately 4-8 gallons per minute overall). Groundwater was injected into different wells at different times, but generally the following wells received recirculated groundwater during the reporting period: RIW-1 to RIW-10, IW-10 to IW-12, REW-2 and REW-3, IW-1 to IW-17. No groundwater was injected into wells RIW4 to RIW-7 after May 2013. Methanol (electron donor) was added to the various injection wells as specified in Table 1. All additives were injected in batch mode (as 20% dilute solutions), followed by groundwater recirculation. Minimal amounts (few hundred gallons per well) groundwater was added to injection wells RIW-11 to RIW-14 and RIW-17 during September and October, 2013 after these wells were batch fed dilute methanol. These more downgradient injection wells (RIW-11 to RIW-14) received electron donor in preparation (to begin establishing anaerobic conditions) for active groundwater recirculation that will start at the end of 2013 at these locations.

Approximate recirculation groundwater volumes are also listed in Table 1 for each extraction well. In total, the system recirculated approximately 2,044,443 gallons of groundwater during the past six months. Groundwater extraction rates are relatively accurate for the combined flow of wells REW-6 to REW-12 (wells REW-9 and REW-11 were not used for extraction during the reporting period), however, flow is estimated for wells REW-1, REW-4 and REW-5 since flow meters for these wells have clogged repeatedly for the past 6 months. Flow is estimated at 1 gallon per minute for each of these wells and it is assumed that each extraction pump operated 90% of the time (down periods due to no sunlight and battery depletion). The wells and pumps were cleaned as needed during the reporting period. No significant operational problems were encountered during the reporting period.

The system will continue to operate in 2014. Additional electron donor injections are planned throughout the year beginning in March/April 2014.

2. Collection of Groundwater Elevation Data

Groundwater elevation data was collected from selected wells in the Northern Area on October 11, 2013. The data is compiled and presented in Table 2. Figure 1 presents interpreted groundwater elevation contour maps for the October 2013 measurement event. Consistent with past groundwater elevation measurements, groundwater flow is to west.

3. Sampling and Analysis to Evaluate the Progress of the Recirculation System

Groundwater samples were collected to evaluate the progress of the remedial program. Groundwater sampling was conducted in July, 2013 and in October, 2013. The July 2013 analytical data is summarized in Table 3 and the October 2013 data is summarized in Table 4. All laboratory analytical data reports can be found in Attachment A. All sampling was conducted using low flow sampling methods using a peristaltic pump. Groundwater sampling logs can be found in Attachment B.

Some collected samples were analyzed by Bioremediation and Treatability Center (BTC) of Walpole, MA for a variety of biogeochemical parameters (dissolved gases, anions, organic acids, TOC, ammonia, ortho-phosphate, total iron, total manganese). VOC analysis was conducted by Test America of Westfield, MA.

Analytical data are presented in Attachment A and selected data are graphed in Attachment C. Each page in Attachment D is for a single well and is made up of four separate graphs to allow a simultaneous evaluation of biogeochemical and VOC data.

In general the data indicate excellent VOC reduction, electron donor distribution, sulfate reduction, methane generation and dechlorination of parent compounds to breakdown products (leading to ethane/ethane). The data often indicate initial electron donor induced desorption (of VOCs), followed by dechlorination of the chlorinated VOCs (CVOCs). These are all indicators of EAD system success. In addition to the complete dechlorination at wells MW-562 and REW-1 (see graphs in Attachment C), significant groundwater quality improvement is also observed at wells REW-4, REW-5, MW-261S, MW-551, MW-552, MW-553 MW-561 and newly installed MW-563 within the expanded treatment zone. TCE concentrations have declined in the newly (2012 fall) operating extraction wells (REW6 to REW-12). Total organic carbon (TOC) has been detected (in October 2013) at well MW-563 and wells REW-6 to REW-10 and well REW-12 (well REW-11 is currently in injection mode) indicating that the expanded remediation system is already affecting these areas. TOC has also been detected at well MW-267M, indicating its widespread distribution across the project site.

Analytical results for sample trip blanks and sample duplicates conform to acceptable and applicable guidelines/standards and are tabulated in Tables 3 and 4 alongside the respective sampled wells.

Acetone, a fermentation product of many electron donors, is being produced at several locations within the treatment area in concentrations up to 100,000 µg/L (MW-551 in October 2013). It is noteworthy that acetone is only present near injection locations, and is degraded and does not reach more downgradient locations in significant concentrations. The generation of acetone at these locations is a transient phenomenon and the compound is not expected to mobilize beyond the treatment area. Acetone, itself is an electron donor and is expected to degrade rapidly once electron donor addition ceases (Fowler et. al., 2011).

4. References

Fowler, T., Thompson, B., Mueller, J., 2011; Acetone and 2-Butanone Creation Associated with Biological and Chemical Remediation of Environmental Contamination; Remediation Journal Winter 2011, p-9-27.

Tables

Table 1: Summary of Additives and Recirculation Volumes
Table 2: Groundwater Gauging Summary, October 30, 2013
Table 3: Summary of Analytical Data, July 17, 2013
Table 4: Summary of Analytical Data, October 2013

Figures

Figure 1: Mid-Depth Groundwater Contour Map, October 11, 2013
Figure 2: Groundwater Treatment System Expansion As-Built

Attachments

Attachment A: Analytical Data
Attachment B: Well Sampling Logs
Attachment C: Selected Well Analytical Data Tracking Graphs

Table 1 Summary of Additives & Recirculation Volumes
Former Raytheon, Wayland Facility
April 1, 2013 to October 21, 2013

Date (week of)	Injection Location	Additive	Estimated Weight
4/16/2013	RIW-1 to RIW10; IW-1 to IW-17	28 drums methanol	10,595 lbs
4/23/2013	RIW-1 to RIW10; IW-1 to IW-17	28 drums methanol	10,595 lbs
5/7/2013	RIW-1-3; RIW8-10; IW-1 to IW-17	28 drums methanol	10,595 lbs
5/16/2013	RIW-1-3; RIW8-10; IW-1 to IW-17	28 drums methanol	10,595 lbs
5/21/2013	RIW-1-3; RIW8-10; IW-1 to IW-17	28 drums methanol	10,595 lbs
6/4/2013	RIW-1-3; RIW8-10; IW-1 to IW-17	28 drums methanol	10,595 lbs
6/18/2013	RIW-1-3; RIW8-10; IW-1 to IW-17	28 drums methanol	10,595 lbs
7/23/2013	RIW-1-3; RIW8-10; IW-1 to IW-17	28 drums methanol	10,595 lbs
9/10/2013	RIW-6; RIW-12 to RIW-16; RIW-1-3; RIW8-10; IW-1 to IW-17	28 drums methanol	10,595 lbs
9/17/2013	RIW-6; RIW-12 to RIW-16; RIW-1-3; RIW8-10; IW-1 to IW-17	28 drums methanol	10,595 lbs
9/23/2013	RIW-6; RIW-12 to RIW-16; RIW-1-3; RIW8-10; IW-1 to IW-17	28 drums methanol	10,595 lbs
10/3/2013	RIW-6; RIW-12 to RIW-16; RIW-1-3; RIW8-10; IW-1 to IW-17	28 drums methanol	10,595 lbs
10/14/2013	RIW-6; RIW-12 to RIW-16; RIW-1-3; RIW8-10; IW-1 to IW-17	28 drums methanol	10,595 lbs

Recirculation Volumes

Well	REW-1 (gallons)	REW-4 (gallons)	REW-5 (gallons)	REW-7, REW-8, REW-9, REW-10, REW-11, REW-12
April 1, 2013 to October 21, 2013	262,440	262,440	262,440	1,257,123
Total	Estimated- flow meter clogging	Estimated- flow meter clogging	Estimated- flow meter clogging	
2,044,443				

Former Raytheon Facility
Wayland, Massachusetts
Table 2 - Groundwater Gauging Summary

Well Designation	Screen Length (feet)	Total Well Depth (feet)	Measuring Point Elevation	DTW 11-Oct-13	GW Elevation October 11, 2013
MW-32	10	12	124.41	NM	NM
MW-1S	10	15	133.79	NM	NM
MW-1M	5	40	133.78	NM	NM
MW-1D	5	55	133.74	NM	NM
MW-261S	5	22	131.28	13.23	118.05
MW-263S	5	25	127.96	10.63	117.33
MW-263M	5	50	127.77	10.71	117.06
MW-264S	10	20	126.32	9.41	116.91
MW-264M	10	44	126.28	8.76	117.52
MW-264D	5	77	126.63	11.38	115.25
MW-265S	10	18	130.06	13.04	117.02
MW-265M	5	45	129.89	12.02	117.87
MW-265D	5	89	130.07	14.76	115.31
MW-266S	10	17	126.79	10.98	115.81
MW-266Ma	5	52	127.72	11.56	116.16
MW-266Mb	10	68	126.88	11.16	115.72
MW-266D	5	105	127.70	12.52	115.18
MW-266B	5	138	128.14	12.68	115.46
MW-267S	5	77	125.30	13.11	112.19
MW-267M	10	95	125.40	10.88	114.52
MW-267D	5	121	125.88	11.11	114.77
MW-267B	5	153	124.02	9.26	114.76
MW-268S	5	74	123.66	10.03	113.63
MW-268M	10	94	123.41	9.38	114.03
MW-268D	5	127	124.86	10.6	114.26
MW-268B	5	153	122.34	8.38	113.96
MW-269S	10	20	125.54	11.7	113.84
MW-269Ma	5	32	124.96	11.55	113.41
MW-269Mb	10	84	125.42	11.37	114.05
MW-269D	5	144	125.34	12.52	112.82
MW-551	5	26	129.30	10.18	119.12
MW-552	5	24	130.09	11.27	118.82
MW-553	5	20	130.33	11.39	118.94
MW-554S	5	196	120.93	10.11	110.82
MW-554Ma	10	196	120.82	7.66	113.16
MW-554Mb	10	196	120.96	7.44	113.52
MW-554D	10	196	120.96	8.21	112.75
MW-555S	5	194.5	121.10	7.94	113.16
MW-555Ma	10	194.5	121.25	8.4	112.85
MW-555Mb	10	194.5	121.26	10.32	110.94
MW-555D	10	194.5	121.19	8.34	112.85
MW-556S	5	165	120.93	11.06	109.87
MW-556M	10	165	121.00	6.3	114.70
MW-556D	10	165	120.92	7.95	112.97
MW-307	5	11	124.86	NM	NM
DEP-19S	5	15	120.79	3.38	117.41
DEP-19M	5	40	120.62	3.36	117.26
DEP-19D	5	50	120.78	3.68	117.10
DEP-20	5	50	119.98	NM	NM
DEP-21	5	50	119.18	3	116.18
MW-560	10	67	127.23	11.12	116.11
MW-561		53.65	127.90	10.2	117.70
MW-562	10	45	128.13	9.25	118.88
MW-563	30	70	125.70	8.64	117.06
RIW-1	30	45	127.84	NM	NM
RIW-2	30	45	127.09	NM	NM
RIW-3	30	45	127.82	NM	NM
RIW-4	15	30	127.23	NM	NM
RIW-5	15	30	126.88	NM	NM
RIW-6	15	30	127.69	NM	NM
RIW-7	15	30	128.54	NM	NM
REW-1	30	45	126.23	NM	NM
REW-2	30	45	127.40	NM	NM
REW-3	30	45	127.15	NM	NM
REW-4	30	45	125.85	NM	NM
REW-5	30	45	125.80	NM	NM
IW-4	10	65	128.30	NM	NM
IW-5	10	65	128.26	NM	NM
IW-6	10	65	128.01	NM	NM
IW-7	10	65	127.93	NM	NM
IW-8	10	65	128.48	NM	NM
IW-9	10	65	128.13	NM	NM
IW-13	10	50	129.47	NM	NM
IW-14	10	50	128.91	NM	NM
IW-15	10	50	129.08	NM	NM
IW-16	10	50	129.66	NM	NM
IW-18	10	35	131.04	NM	NM

DTW- depth to water
NM-not measured

Table 3- July 2013 Analytical Results

Sample ID	units	MW-261S	MW-265M	MW-267M	MW-268M	MW-552	MW-561	MW-562	MW-563	REW-1	REW-6	REW-7	REW-8	REW-12	Blnk
Methane	ug/L	20701	23807	2650	22	26476	5638	28997	19753	25218	293	1214	3090	328	<0.3
Ethene	ug/L	<0.3	<0.3	<0.3	5.4	<0.3	403	<0.3	<0.3	<0.3	<0.3	59	<0.3	4	<0.3
Ethane	ug/L	<0.3	<0.3	<0.3	3.8	<0.3	<0.3	23.8	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Vinyl Chloride	ug/L	ND	**52**	**26**	**73**	**190**	**240**	ND	**160**	ND	**17**	**170**	**93**	**45**	ND
Chloroethane	ug/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-DCE	ug/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-DCA	ug/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-c DCE	ug/L	ND	**110**	**430**	**1400**	**38**	**53**	ND	**230**	ND	**320**	**680**	**310**	**310**	ND
1,1,1-TCA	ug/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TCE	ug/L	ND	ND	ND	**870**	39	**16**	ND	ND	ND	**250**	**240**	**79**	**140**	ND
PCE	ug/L	ND	ND	ND	**35**	ND	ND	ND	ND	ND	**14**	**10**	ND	**8.7**	ND
Acetone	ug/L	**15000**	**7100**	ND	ND	**1400**	**550**	**470**	ND	**6100**	ND	ND	ND	ND	ND
THF	ug/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
t-1,2 DCE	ug/L	ND	ND	ND	ND	ND	20	ND	ND	ND	ND	ND	ND	ND	ND
m,p xylene	ug/L	ND	ND	**20**	ND	ND	ND	ND	**10**	ND	ND	ND	ND	ND	ND
Toluene	ug/L	ND	ND	**34**	ND	ND	ND	ND	**19**	ND	ND	ND	ND	ND	ND
2-Butan. (MEK)	ug/L	ND	ND	ND	ND	**88**	ND	**24**	**82**	ND	ND	ND	**57**	ND	ND
o-xylene	ug/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4 Dioxane	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloride	mg/L	31	23	30	17	20	35	34	38	17	43	21	35.1	33.375	<1
Nitrate	mg/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Sulfate	mg/L	<1	<1	<1	44	<1	<1	<1	<1	<1	43	23	24	61	<1
Lactate	mg/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Acetate	mg/L	177	790	377	<1	165	254	148	364	64	79	93	112	30	<1
Propionate	mg/L	<1	13	11	<1	<1	11	11	11	<1	<1	<1	<1	<1	<1
Butyrate	mg/L	7	27	6	5	8	9	11	10	<1	<1	<1	<1	<1	<1
Alkalinity	mg/L	585	470	280	100	415	260	380	300	420	120	160	140	100	10
Manganese	mg/L	na	na	na	na	na	na	na	na	na	na	na	na	na	na
NH3-N	mg/L	0.15	0.1	0.1	0.1	0.1	0.03	2.0	0.1	2	0	0	0	0.03	<0.02
PO4	mg/L	0.27	1.8	0.8	1.2	1.2	0.63	2.4	0.1	1	2	1	1	1	<0.05
Sulfide	mg/L	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Total Iron	mg/L	64.5	44.0	17	12	40	64	95	59	25	24	22	20	20	<0.03
COD	mg/L	na	na	na	na	na	na	na	na	na	na	na	na	na	na
TOC	mg/L	135	682	1136	2.2	119	198	191	834	37	204	75	82	35	<0.3
pH	pH unit	6.90	5.8	6.46	6.5	6.8	6.59	6.54	6.38	7	7	7	6	7	7.68
H2 headspace	µM	na	na	na	na	na	na	na	na	na	na	na	na	na	na
CO2	mg/L	na	na	na	na	na	na	na	na	na	na	na	na	na	na

1,1 DCE- 1,1 dichloroethene; 1,1 DCA-1,1 Dichloroethane; 1,2cDCE- 1,2 cis dichloroethene;
1,1,1 TCA- 1,1,1 trichoroethane, TCE- trichoroethene; PCE- tetrachloroethene
NA- not analyzed
ND- below detection limit
VOCs by Test America, rest by BTC
1,4 dioxane by 8260sim
all other VOCs by 8260B
THF-tetrahydrofuran
1,2,4 TMB- 1,2,4 trimethylbenzene
ketone breakdown products VOC detections

Table 4- Summary of Analytical Data, October 2013
Former Raytheon Facility, Wayland MA

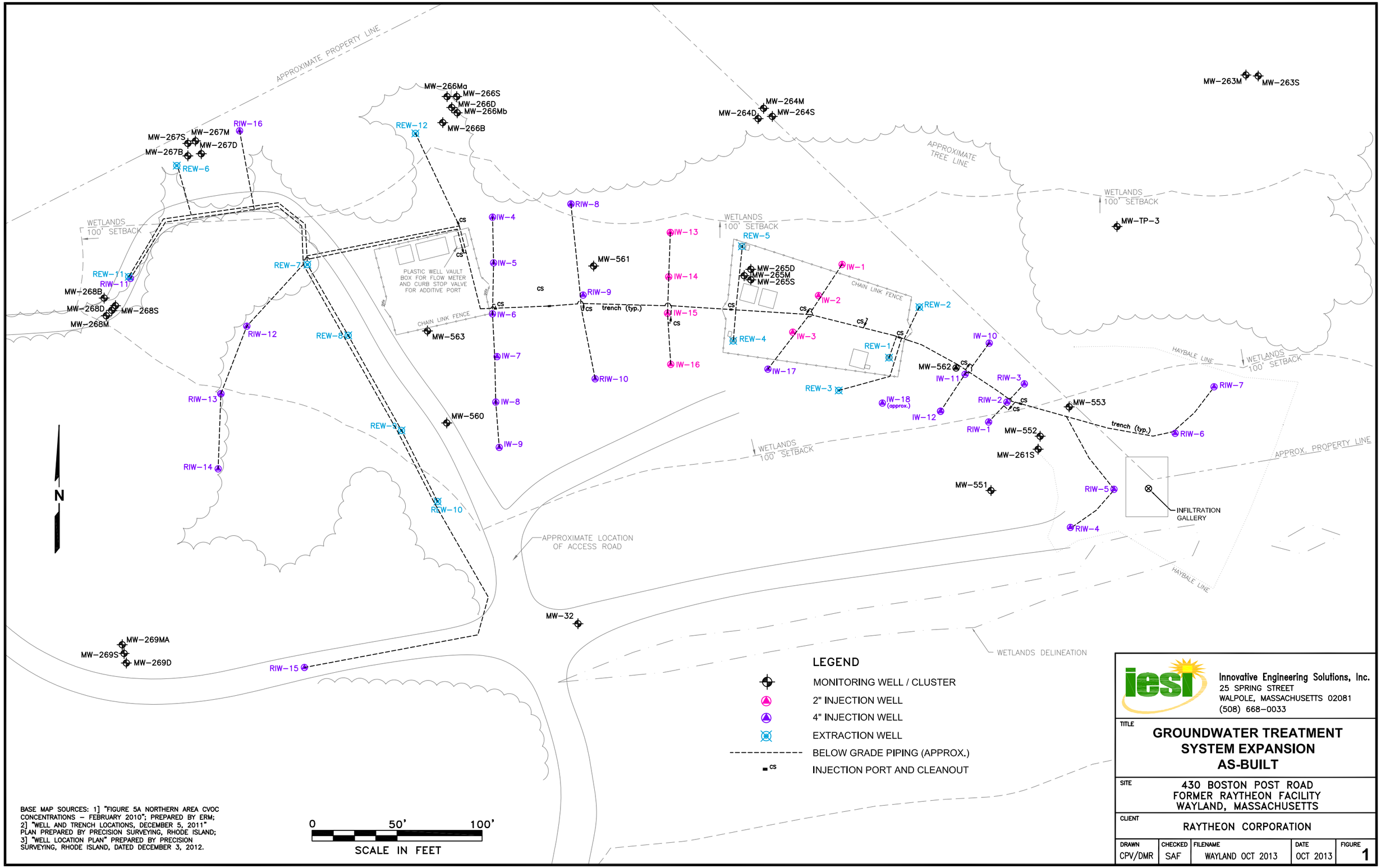
Sample ID	units	DEP-19M	DEP-21	MW-261S	MW-261S	MW-263M	MW-264M	MW-265S	MW-265M	MW-265D	MW-266Ma	MW-266MB	MW-266MB	MW-267S	MW-267M	MW-268M	MW-268D	MW-269Ma	MW-551	MW-552	MW-553	MW-553D	MW-554D	MW-556D	MW-560	MW-561	MW-562	MW-563	MW-563
					Dup-X1-								Dup-X4																Dup-X3
Methane	ug/L	na	na	19748	na	na	na	na	19465	na	na	na	na	129.7	21042	29	na	na	23791	27572	22604	na	na	na	3073	3327	34012	32932	na
Ethene	ug/L	na	na	<0.3	na	na	na	na	<0.3	na	na	na	na	2.5	<0.3	4.3	na	na	<0.3	<0.3	<0.3	na	na	na	<0.3	11	<0.3	<0.3	na
Ethane	ug/L	na	na	<0.3	na	na	na	na	<0.3	na	na	na	na	<0.3	<0.3	5.9	na	na	<0.3	<0.3	<0.3	na	na	na	<0.3	<0.3	<0.3	<0.3	na
Vinyl Chloride	ug/L	ND	ND	ND	ND	ND	ND	1.5	35	ND	ND	55	54	ND	47	180	7.8	ND	120	19	35	ND	ND	ND	8.7	300	ND	130	120
Chloroethane	ug/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-DCE	ug/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-DCA	ug/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-c DCE	ug/L	1.3	5.9	ND	ND	ND	4.4	5	95	ND	8.7	58	58	330	460	2800	79	2.3	7.6	ND	15	ND	ND	ND	89	2.7	ND	230	230
1,2 t-DCE		ND	ND	ND	ND	ND	ND	ND	1.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.5	ND	2.1	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-TCA	ug/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TCE	ug/L	ND	1.7	ND	ND	ND	8.1	ND	ND	ND	22	42	42	ND	ND	1300	2.3	1.2	ND	ND	ND	ND	ND	ND	2.1	2.1	ND	ND	ND
PCE	ug/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	10	11	ND	ND	49	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acetone	ug/L	ND	ND	6600	5800	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	100000	2500	1,200	ND	ND	ND	99	ND	220	ND	ND
THF	ug/L	ND	ND	ND	ND	ND	ND	ND	63	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
m,p xylene	ug/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	4.2	39	ND	14	14
Toluene	ug/L	2.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.8	410	ND	ND	ND	ND	ND	ND	ND	ND	ND	7.6	1600	ND	27	27
Ethyl Benzene		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1	9.2	ND	ND	ND
2-Butan. (MEK)	ug/L	ND	ND	ND	ND	ND	ND	ND	180	ND	ND	ND	ND	110	89	ND	ND	ND	720	ND	11	ND	ND	ND	14	27	ND	110	100
o-xylene	ug/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	8.5	ND	ND	ND
1,4 Dioxane	ug/L	na	na	na	<64	na	na	na	<64	na	5.6	na	na	<16	<16	12	na	1.6	na	<16	na	<1.6	na	na	na	na	na	na	na
Chloride	mg/L	na	na	29	na	na	na	na	82	na	na	na	na	58	31	19	na	na	17	20	16	na	na	na	22	25	31	34	na
Nitrate	mg/L	na	na	<1	na	na	na	na	<1	na	na	na	na	<1	<1	<1	na	na	<1	<1	<1	na	na	na	<1	<1	<1	<1	na
Sulfate	mg/L	na	na	<1	na	na	na	na	<1	na	na	na	na	<1	<1	39	na	na	<1	<1	<1	na	na	na	5	<1	<1	<1	na
Lactate	mg/L	na	na	<1	na	na	na	na	<1	na	na	na	na	<1	<1	<1	na	na	<1	<1	<1	na	na	na	<1	<1	<1	<1	na
Acetate	mg/L	na	na	158	na	na	na	na	1004	na	na	na	na	237	413	<1	na	na	197	109	19	na	na	na	126	255	72	661	na
Propionate	mg/L	na	na	<1	na	na	na	na	<1	na	na	na	na	<1	12	<1	na	na	<1	<1	<1	na	na	na	<1	<1	<1	12	na
Butyrate	mg/L	na	na	<1	na	na	na	na	39	na	na	na	na	<1	<1	<1	na	na	<1	<1	<1	na	na	na	<1	<1	<1	8	na
Alkalinity	mg/L	na	na	605	na	na	na	na	565	na	na	na	na	220	320	180	na	na	240	540	510	na	na	na	160	240	360	340	na
Manganese	mg/L	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
NH3-N	mg/L	na	na	0.6	na	na	na	na	0.2	na	na	na	na	0.2	0.3	0.1	na	na	0	0.4	0.08	na	na	na	0.4	0.1	4.0	0.1	na
PO4	mg/L	na	na	0.1	na	na	na	na	0.7	na	na	na	na	0.5	0.4	0.2	na	na	0	0.1	0.1	na	na	na	0.18	0.2	0.7	0.3	na
Sulfide	mg/L	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Total Iron	mg/L	na	na	90	na	na	na	na	89	na	na	na	na	16	78.5	21	na	na	44	51	10	na	na	na	0.3	19.9	68	66	na
COD	mg/L	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
TOC	mg/L	na	na	119	na	na	na	na	649	na	na	na	na	485	749	2.2	na	na	266	77	15	na	na	na	790	1007	53	1136	na
pH	pH unit	na	na	7.1	na	na	na	na	5.5	na	na	na	na	5.9	6.4	6.5	na	na	7	6.9	7.2	na	na	na	8.2	7.0	6.7	6.4	na
H2 headspace	µM	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
CO2	mg/L	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na

1,1 DCE- 1,1 dichloroethene; 1,1 DCA-1,1 Dichloroethane; 1,2cDCE- 1,2 cis dichloroethene;
1,1,1 TCA- 1,1,1 trichoroethane, TCE- trichoroethene; PCE- tetrachloroethene
na- not analyzed
VOCs by Test America, rest by BTC
1,4 dioxane by 8260C sim; all other VOCs by 8260B
THF-tetrahydrofuran
1,2,4 TMB- 1,2,4 trimethylbenzene
ND- below detection limit- see lab report for specific limits
ketone breakdown products VOC detections

Table 4- Summary of Analytical Data, October 2013 (Cont)
Former Raytheon Facility, Wayland MA

Sample ID	units	REW-1	REW-4	REW-5	REW-6	REW-6 Dup-X2	REW-7	REW-8	REW-9	REW-10	REW-12	Trip Blank
Methane	ug/L	29351	35768	14794	1945	na	2530	12006	9989	25337	1116	ND
Ethene	ug/L	<0.3	<0.3	<0.3	<0.3	na	86	<0.3	<0.3	<0.3	6	ND
Ethane	ug/L	<0.3	<0.3	137.8	<0.3	na	<0.3	<0.3	<0.3	<0.3	<0.3	ND
Vinyl Chloride	ug/L	ND	ND	3.8	17	17	180	84	28	6.3	49	ND
Chloroethane	ug/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-DCE	ug/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-DCA	ug/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-cDCE	ug/L	ND	1.7	7.3	350	330	680	230	110	33	310	ND
t-1,2 DCE	ug/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-TCA	ug/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TCE	ug/L	ND	ND	ND	170	160	140	16	1.2	1.1	120	ND
PCE	ug/L	ND	ND	ND	ND	7.7	ND	ND	ND	ND	5.7	ND
Acetone	ug/L	5100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
THF	ug/L	14	49	19	ND	ND	ND	ND	ND	ND	ND	ND
m,p xylene	ug/L	ND	ND	ND	ND	ND	ND	ND	6.9	ND	ND	ND
2-Butan. (MEK)	ug/L	81	ND	ND	ND	ND	ND	62	28	15	ND	ND
Ethyl benzene		ND	ND	ND	ND	ND	ND	ND	1.9	ND	ND	ND
Benzene	ug/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	ug/L	11	4.9	ND	68	69	ND	ND	27	2.2	ND	ND
1,2,4 TMB	ug/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
o-xylene	ug/L	ND	ND	ND	ND	ND	ND	ND	1.5	ND	ND	ND
1,4 Dioxane	ug/L	na	na	na	na	na	na	na	na	na	na	na
Chloride	mg/L	17	14	25	38	na	21	32	29	62	33	<1
Nitrate	mg/L	<1	<1	<1	<1	na	<1	<1	<1	<1	<1	<1
Sulfate	mg/L	<1	<1	27	26	na	17	11	11	31	42	<1
Lactate	mg/L	<1	<1	<1	<1	na	<1	<1	<1	<1	<1	<1
Acetate	mg/L	17	39	<1	150	na	139	195	177	41	46	<1
Propionate	mg/L	<1	<1	<1	<1	na	<1	11	11	<1	<1	<1
Butyrate	mg/L	<1	<1	<1	<1	na	<1	5	<1	5	<1	<1
Alkalinity	mg/L	380	380	120	180	na	160	200	180	120	120	10
Manganese	mg/L	na	na	na	na	na	na	na	na	na	na	na
NH3-N	mg/L	3	11	0.4	0.1	na	0.2	0.2	0.2	0.3	0.1	<0.02
PO4	mg/L	0.6	3.3	0.6	0.1	na	0.5	0.3	0.2	0.1	0.3	<0.05
Sulfide	mg/L	na	na	na	na	na	na	na	na	na	na	na
Total Iron	mg/L	39	10	0.5	36	na	25	32	8	12	26.8	<0.03
COD	mg/L	na	na	na	na	na	na	na	na	na	na	na
TOC	mg/L	16	453	8.1	479	na	99	250	587	95	50	<0.3
pH	pH unit	6.9	6.8	7.1	7	na	7	7	7	7	6.6	7.05
H2 headspace	µM	na	na	na	na	na	na	na	na	na	na	na
CO2	mg/L	na	na	na	na	na	na	na	na	na	na	na

1,1 DCE- 1,1 dichloroethene; 1,1 DCA-1,1 Dichloroethane; 1,2cDCE- 1,2 cis dichloroethene;
1,1,1 TCA- 1,1,1 trichoroethane, TCE- trichoroethene; PCE- tetrachloroethene
na- not analyzed
VOCs by Test America, rest by BTC
1,4 dioxane by 8260 sim
all other VOCs by 8260B
THF-tetrahydrofuran
1,2,4 TMB- 1,2,4 trimethylbenzene
ND- not detected- see lab report for detection limits
ketone breakdown products
VOC detections



BASE MAP SOURCES: 1] "FIGURE 5A NORTHERN AREA CVOC CONCENTRATIONS – FEBRUARY 2010"; PREPARED BY ERM; 2] "WELL AND TRENCH LOCATIONS, DECEMBER 5, 2011" PLAN PREPARED BY PRECISION SURVEYING, RHODE ISLAND; 3] "WELL LOCATION PLAN" PREPARED BY PRECISION SURVEYING, RHODE ISLAND, DATED DECEMBER 3, 2012.

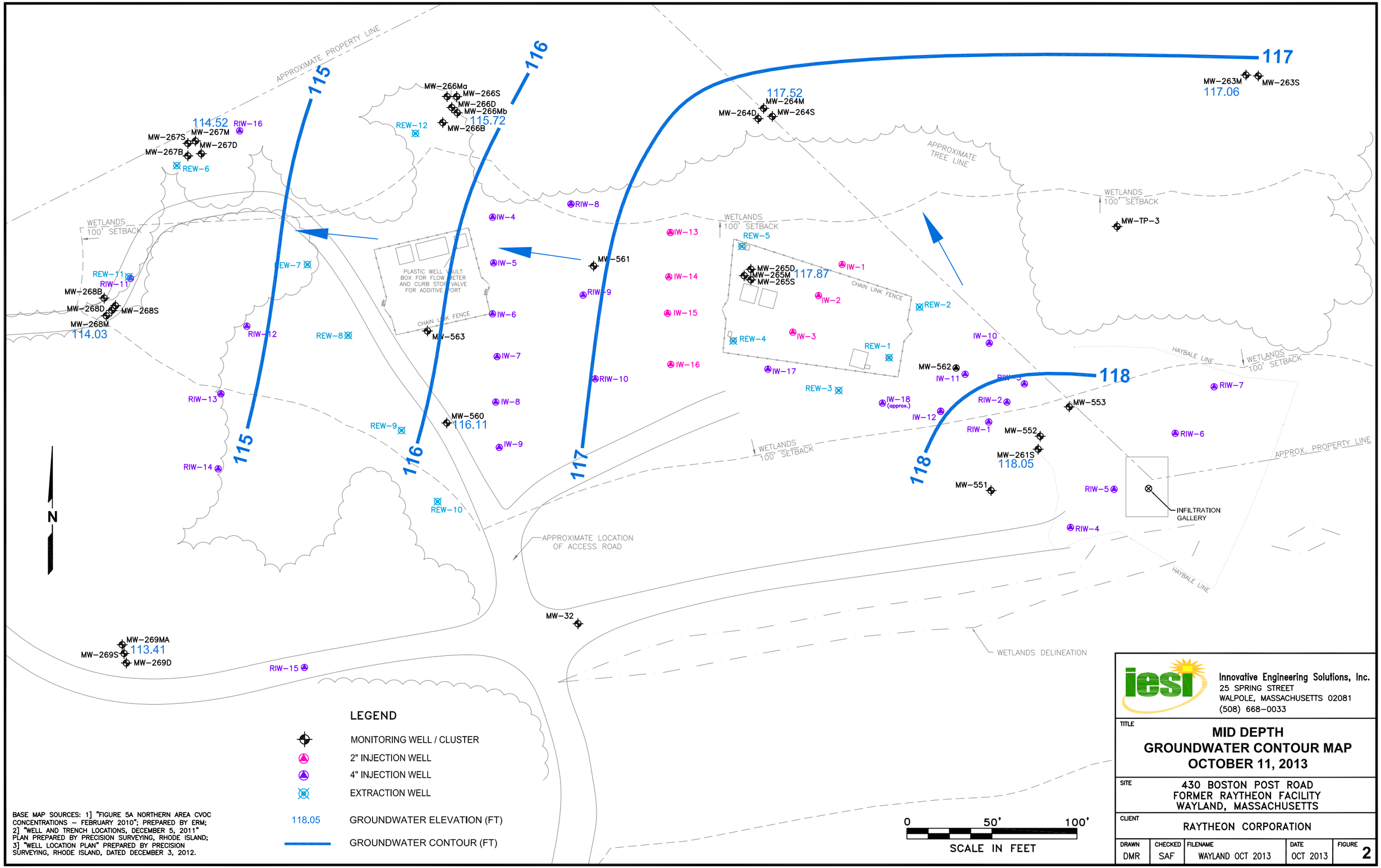
Innovative Engineering Solutions, Inc.
25 SPRING STREET
WALPOLE, MASSACHUSETTS 02081
(508) 668-0033

TITLE
GROUNDWATER TREATMENT SYSTEM EXPANSION AS-BUILT

SITE
430 BOSTON POST ROAD
FORMER RAYTHEON FACILITY
WAYLAND, MASSACHUSETTS

CLIENT
RAYTHEON CORPORATION

DRAWN	CHECKED	FILENAME	DATE	FIGURE
CPV/DMR	SAF	WAYLAND OCT 2013	OCT 2013	1


APPROXIMATE PROPERTY LINE
115
116
117
118
MW-266Ma
MW-266S
MW-266D
MW-266Mb
MW-266B
115.72
REW-12
114.52
RIW-16
MW-267M
MW-267S
MW-267D
MW-267B
REW-6
117.52
MW-264M
MW-264D
MW-264S
MW-263M
MW-263S
117.06
APPROXIMATE TREE LINE
WETLANDS 100' SETBACK
MW-TP-3
RIW-8
IW-4
IW-13
REW-5
REW-11
RIW-11
MW-268B
MW-268D
MW-268S
MW-268M
114.03
REW-7
PLASTIC WELL VAULT BOX FOR FLOW METER AND CURB STOP VALVE FOR ADDITIVE PORT
IW-5
MW-561
IW-14
MW-265D
MW-265M
MW-265S
117.87
IW-1
CHAIN LINK FENCE
IW-2
REW-2
RIW-9
IW-15
IW-6
MW-563
RIW-12
REW-8
REW-4
IW-3
REW-1
IW-10
IW-7
IW-16
IW-17
MW-562
IW-11
HAYBALE LINE
RIW-10
REW-3
IW-18 (approx.)
IW-12
RIW-2
MW-553
RIW-7
RIW-13
IW-8
MW-560
116.11
REW-9
IW-9
RIW-1
MW-552
MW-261S
118.05
RIW-6
APPROX. PROPERTY LINE
RIW-14
MW-551
RIW-5
INFILTRATION GALLERY
REW-10
RIW-4
APPROXIMATE LOCATION OF ACCESS ROAD
MW-32
WETLANDS DELINEATION
MW-269MA
MW-269S
113.41
MW-269D
RIW-15
N
LEGEND
MONITORING WELL / CLUSTER
2" INJECTION WELL
4" INJECTION WELL
EXTRACTION WELL
118.05 GROUNDWATER ELEVATION (FT)
GROUNDWATER CONTOUR (FT)
0 50' 100'
SCALE IN FEET
BASE MAP SOURCES: 1] "FIGURE 5A NORTHERN AREA CVOC CONCENTRATIONS – FEBRUARY 2010"; PREPARED BY ERM; 2] "WELL AND TRENCH LOCATIONS, DECEMBER 5, 2011" PLAN PREPARED BY PRECISION SURVEYING, RHODE ISLAND; 3] "WELL LOCATION PLAN" PREPARED BY PRECISION SURVEYING, RHODE ISLAND, DATED DECEMBER 3, 2012.
iesi
Innovative Engineering Solutions, Inc.
25 SPRING STREET
WALPOLE, MASSACHUSETTS 02081
(508) 668-0033
TITLE
MID DEPTH
GROUNDWATER CONTOUR MAP
OCTOBER 11, 2013
SITE
430 BOSTON POST ROAD
FORMER RAYTHEON FACILITY
WAYLAND, MASSACHUSETTS
CLIENT
RAYTHEON CORPORATION
DRAWN DMR
CHECKED SAF
FILENAME WAYLAND OCT 2013
DATE OCT 2013
FIGURE 2

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

TestAmerica Job ID: 480-42273-1
Client Project/Site: IDS Wayland

For:
Innovative Engineering Solutions, Inc
25 Spring Street
Walpole, Massachusetts 02081

Attn: Vicki Pariyar

Authorized for release by:
7/26/2013 12:26:03 PM

Becky Mason, Project Manager II
becky.mason@testamericainc.com

LINKS

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The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	RPD of the LCS and LCSD exceeds the control limits
*	LCS or LCSD exceeds the control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 480-42273-1

Laboratory: TestAmerica Buffalo

Narrative

Receipt
The samples were received on 7/19/2013 2:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 3 coolers at receipt time were 3.7º C, 3.9º C and 4.4º C.

GC/MS VOA
Method 8260C: The following samples were diluted to bring the concentration of target analytes within the calibration range: MW-265M-20130717-01 (480-42273-2), MW-267M-20130718-01 (480-42273-3), MW-268M-20130718-01 (480-42273-4), MW-552-20130717-01 (480-42273-5), MW-561-20130718-01 (480-42273-6), REW-12-20130718-01 (480-42273-13), REW-7-20130718-01 (480-42273-11), DUPX1-20130717-01 (480-42273-14), DUPX2-20130718-01 (480-42273-15), MW-261S-20130717-01 (480-42273-1), MW-552-20130717-01 (480-42273-5), MW-562-20130717-01 (480-42273-7), MW-563-20130718-01 (480-42273-8), REW-6-20130718-01 (480-42273-10), REW-8-20130718-01 (480-42273-12), REW-1-20130717-01 (480-42273-9). Elevated reporting limits (RLs) are provided.

Method 8260C: The continuing calibration verification (CCV) for 1,4-Dioxane associated with batchs 129639 and 129686 recovered above the MCP upper control limit. MCP protocol allows for 20% of the target compounds to be outside the 20% difference but not over 40% difference.

Method 8260C: The laboratory control sample (LCS) and the laboratory control sample duplicate (LCSD) for batchs 12963, 129793, 129923 and 129686 exceeded control limits for the following analyte: 2-Butanone. Unlike the calibration standards, this is due to the coelution with Ethyl Acetate in the spiking solution. This does not indicate a performance issue with the spike recovery, but rather the laboratory's ability to measure the two analytes together in a combined spiking solution. Through the use of spectral analysis, the two compounds can be distinguished from one another if present in a client sample.

Method 8260C: The laboratory control sample (LCS) and / or the laboratory control sample duplicate (LCSD) for batch 129686 exceeded control limits for the following analytes: 1,4-Dioxane. MCP protocol allows for 10% of the target compounds to be outside of the limits provided the recoveries are over 10%.

Method 8260C: The continuing calibration verification (CCV) for Carbon Disulfide, Chloromethane and Dichlorodifluoromethane associated with batch 129793 recovered above the MCP upper control limit. MCP protocol allows for 20% of the target compounds to be outside the 20% difference but not over 40% difference.

Method 8260C: The laboratory control sample duplicate (LCSD) for batch 129793 exceeded control limits for the following analytes: Dichlorodifluoromethane. MCP protocol allows for 10% of the target compounds to be outside of the limits provided the recoveries are over 10%.

Method 8260C: The continuing calibration verification (CCV) for Dichlorodifluoromethane associated with batch 129923 recovered above the MCP upper control limit. MCP protocol allows for 20% of the target compounds to be outside the 20% difference but not over 40% difference.

Method 8260C: The initial calibration verification (ICV) for batch 129245 exceeded control limits for the following analytes: Chloromethane. MCP protocol allows for recoveries of difficult analytes to be within 40-160%. The data have been reported.

Method 8260C: The %RPD of the laboratory control sample (LCS) and laboratory control standard duplicate (LCSD) for batch 129793 recovered outside control limits for the following analytes: Acetone and 1,4-Dioxane. The data have been qualified and reported.

With the exception of diluted samples, per question G on the MassDEP Analytical Protocol Certification Form, TestAmerica's routine reporting limits do not achieve the CAM reporting limits specified in this CAM protocol for 1,2-dibromo-3-chloropropane, Carbon Disulfide, Isopropyl Ether, Naphthalene, tert-Butyl Ethyl Ether, tert-Amyl Methyl Ether, & Tetrahydrofuran.

No other analytical or quality issues were noted.

MassDEP Analytical Protocol Certification Form

Laboratory Name:	**TestAmerica Buffalo**	Project #:	**480-42273-1**
Project Location:	**Wayland**	RTN:	

This form provides certifications for the following data set: list Laboratory Sample ID Number(s):

480-42273-1[1-16]

Matrices: [X] Groundwater/Surface Water [ ] Soil/Sediment [ ] Drinking Water [ ] Air [ ] Other:

CAM Protocols (check all that apply below):

8260 VOC CAM II A [X]	7470/7471 Hg CAM III B [ ]	Mass DEP VPH CAM IV A [ ]	8081 Pesticides CAM V B [ ]	7196 Hex Cr CAM VI B [ ]	Mass DEP APH CAM IX A [ ]
8270 SVOC CAM II B [ ]	6010 Metals CAM III C [ ]	Mass DEP EPH CAM IV B [ ]	8151 Herbicides CAM V C [ ]	8330 Explosives CAM VIII A [ ]	TO-15 VOC CAM IX B [ ]
6010 Metals CAM III A [ ]	6020 Metals CAM III D [ ]	8082 PCB CAM V A [ ]	9014 Total Cyanide/PAC CAM VI A [ ]	6860 Perchlorate CAM VIII B [ ]	

Affirmative Responses to Questions A through F are required for "Presumptive Certainty" status

A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding time.	[X] Yes [ ] No
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	[X] Yes [ ] No
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	[X] Yes [ ] No
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	[X] Yes [ ] No
E	a. VPH, EPH and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications). b. APH and TO-15 Methods only: Was the complete analyte list reported for each method?	[ ] Yes [ ] No [ ] Yes [ ] No
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	[X] Yes [ ] No

Responses to Questions G, H and I below are required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	[ ] Yes [X] No[1]

***Data User Note:* Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WCS-07-350**

H	Were **all** QC performance standards specified in the CAM protocol(s) achieved?	[ ] Yes [X] No[1]
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s) ?	[X] Yes [ ] No[1]

[1] All negative responses must be addressed in an attached laboratory narrative.

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, is accurate and complete.

Signature:	Becky Mason	Position:	Project Manager
Printed Name:	Becky Mason	Date:	7/26/13 12:24

This form has been electronically signed and approved

Detection Summary

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-42273-1

Client Sample ID: MW-261S-20130717-01 — Lab Sample ID: 480-42273-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	15000	*	2500		ug/L	50		8260C	Total/NA

Client Sample ID: MW-265M-20130717-01 — Lab Sample ID: 480-42273-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	7100		1300		ug/L	25		8260C	Total/NA
cis-1,2-Dichloroethene	110		25		ug/L	25		8260C	Total/NA
Vinyl chloride	52		25		ug/L	25		8260C	Total/NA

Client Sample ID: MW-267M-20130718-01 — Lab Sample ID: 480-42273-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	430		10		ug/L	10		8260C	Total/NA
m-Xylene & p-Xylene	20		20		ug/L	10		8260C	Total/NA
Toluene	34		10		ug/L	10		8260C	Total/NA
Vinyl chloride	26		10		ug/L	10		8260C	Total/NA

Client Sample ID: MW-268M-20130718-01 — Lab Sample ID: 480-42273-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	1400		25		ug/L	25		8260C	Total/NA
Tetrachloroethene	35		25		ug/L	25		8260C	Total/NA
Trichloroethene	870		25		ug/L	25		8260C	Total/NA
Vinyl chloride	73		25		ug/L	25		8260C	Total/NA

Client Sample ID: MW-552-20130717-01 — Lab Sample ID: 480-42273-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	88	*	80		ug/L	8		8260C	Total/NA
cis-1,2-Dichloroethene	38		8.0		ug/L	8		8260C	Total/NA
Vinyl chloride	190		8.0		ug/L	8		8260C	Total/NA
Acetone - DL	14000	*	2500		ug/L	50		8260C	Total/NA

Client Sample ID: MW-561-20130718-01 — Lab Sample ID: 480-42273-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	550		250		ug/L	5		8260C	Total/NA
cis-1,2-Dichloroethene	53		5.0		ug/L	5		8260C	Total/NA
Trichloroethene	16		5.0		ug/L	5		8260C	Total/NA
Vinyl chloride	240		5.0		ug/L	5		8260C	Total/NA

Client Sample ID: MW-562-20130717-01 — Lab Sample ID: 480-42273-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	24	*	20		ug/L	2		8260C	Total/NA
Acetone	470	*	100		ug/L	2		8260C	Total/NA

Client Sample ID: MW-563-20130718-01 — Lab Sample ID: 480-42273-8

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-42273-1

Client Sample ID: MW-563-20130718-01 (Continued) — Lab Sample ID: 480-42273-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	82	*	40		ug/L	4		8260C	Total/NA
cis-1,2-Dichloroethene	230		4.0		ug/L	4		8260C	Total/NA
m-Xylene & p-Xylene	10		8.0		ug/L	4		8260C	Total/NA
Toluene	19		4.0		ug/L	4		8260C	Total/NA
Vinyl chloride	160		4.0		ug/L	4		8260C	Total/NA

Client Sample ID: REW-1-20130717-01 — Lab Sample ID: 480-42273-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	6100		1000		ug/L	20		8260C	Total/NA

Client Sample ID: REW-6-20130718-01 — Lab Sample ID: 480-42273-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	320		5.0		ug/L	5		8260C	Total/NA
Tetrachloroethene	14		5.0		ug/L	5		8260C	Total/NA
Trichloroethene	250		5.0		ug/L	5		8260C	Total/NA
Vinyl chloride	17		5.0		ug/L	5		8260C	Total/NA

Client Sample ID: REW-7-20130718-01 — Lab Sample ID: 480-42273-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	680		10		ug/L	10		8260C	Total/NA
Tetrachloroethene	10		10		ug/L	10		8260C	Total/NA
Trichloroethene	240		10		ug/L	10		8260C	Total/NA
Vinyl chloride	170		10		ug/L	10		8260C	Total/NA

Client Sample ID: REW-8-20130718-01 — Lab Sample ID: 480-42273-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	57	*	50		ug/L	5		8260C	Total/NA
cis-1,2-Dichloroethene	310		5.0		ug/L	5		8260C	Total/NA
Trichloroethene	79		5.0		ug/L	5		8260C	Total/NA
Vinyl chloride	93		5.0		ug/L	5		8260C	Total/NA

Client Sample ID: REW-12-20130718-01 — Lab Sample ID: 480-42273-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	310		4.0		ug/L	4		8260C	Total/NA
Tetrachloroethene	8.7		4.0		ug/L	4		8260C	Total/NA
Trichloroethene	140		4.0		ug/L	4		8260C	Total/NA
Vinyl chloride	45		4.0		ug/L	4		8260C	Total/NA

Client Sample ID: DUPX1-20130717-01 — Lab Sample ID: 480-42273-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	31	*	20		ug/L	2		8260C	Total/NA
Acetone	530	*	100		ug/L	2		8260C	Total/NA

Client Sample ID: DUPX2-20130718-01 — Lab Sample ID: 480-42273-15

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-42273-1

Client Sample ID: DUPX2-20130718-01 (Continued) — Lab Sample ID: 480-42273-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	79	*	40		ug/L	4		8260C	Total/NA
cis-1,2-Dichloroethene	230		4.0		ug/L	4		8260C	Total/NA
m-Xylene & p-Xylene	10		8.0		ug/L	4		8260C	Total/NA
Toluene	18		4.0		ug/L	4		8260C	Total/NA
Vinyl chloride	150		4.0		ug/L	4		8260C	Total/NA

Client Sample ID: Trip Blanks — Lab Sample ID: 480-42273-16

No Detections.

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-261S-20130717-01
Date Collected: 07/17/13 07:35
Date Received: 07/19/13 02:30

Lab Sample ID: 480-42273-1
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		50		ug/L			07/20/13 01:06	50
1,1,1-Trichloroethane	ND		50		ug/L			07/20/13 01:06	50
1,1,2,2-Tetrachloroethane	ND		25		ug/L			07/20/13 01:06	50
1,1,2-Trichloroethane	ND		50		ug/L			07/20/13 01:06	50
1,1-Dichloroethane	ND		50		ug/L			07/20/13 01:06	50
1,1-Dichloroethene	ND		50		ug/L			07/20/13 01:06	50
1,1-Dichloropropene	ND		50		ug/L			07/20/13 01:06	50
1,2,3-Trichlorobenzene	ND		50		ug/L			07/20/13 01:06	50
1,2,3-Trichloropropane	ND		50		ug/L			07/20/13 01:06	50
1,2,4-Trichlorobenzene	ND		50		ug/L			07/20/13 01:06	50
1,2,4-Trimethylbenzene	ND		50		ug/L			07/20/13 01:06	50
1,2-Dibromo-3-Chloropropane	ND		250		ug/L			07/20/13 01:06	50
1,2-Dichlorobenzene	ND		50		ug/L			07/20/13 01:06	50
1,2-Dichloroethane	ND		50		ug/L			07/20/13 01:06	50
1,2-Dichloropropane	ND		50		ug/L			07/20/13 01:06	50
1,3,5-Trimethylbenzene	ND		50		ug/L			07/20/13 01:06	50
1,3-Dichlorobenzene	ND		50		ug/L			07/20/13 01:06	50
1,3-Dichloropropane	ND		50		ug/L			07/20/13 01:06	50
1,4-Dichlorobenzene	ND		50		ug/L			07/20/13 01:06	50
1,4-Dioxane	ND	*	2500		ug/L			07/20/13 01:06	50
2,2-Dichloropropane	ND		50		ug/L			07/20/13 01:06	50
2-Butanone (MEK)	ND	*	500		ug/L			07/20/13 01:06	50
2-Chlorotoluene	ND		50		ug/L			07/20/13 01:06	50
2-Hexanone	ND		500		ug/L			07/20/13 01:06	50
4-Chlorotoluene	ND		50		ug/L			07/20/13 01:06	50
4-Isopropyltoluene	ND		50		ug/L			07/20/13 01:06	50
4-Methyl-2-pentanone (MIBK)	ND		500		ug/L			07/20/13 01:06	50
Acetone	**15000**	*	2500		ug/L			07/20/13 01:06	50
Benzene	ND		50		ug/L			07/20/13 01:06	50
Bromobenzene	ND		50		ug/L			07/20/13 01:06	50
Bromoform	ND		50		ug/L			07/20/13 01:06	50
Bromomethane	ND		100		ug/L			07/20/13 01:06	50
Carbon disulfide	ND		500		ug/L			07/20/13 01:06	50
Carbon tetrachloride	ND		50		ug/L			07/20/13 01:06	50
Chlorobenzene	ND		50		ug/L			07/20/13 01:06	50
Chlorobromomethane	ND		50		ug/L			07/20/13 01:06	50
Chlorodibromomethane	ND		25		ug/L			07/20/13 01:06	50
Chloroethane	ND		100		ug/L			07/20/13 01:06	50
Chloroform	ND		50		ug/L			07/20/13 01:06	50
Chloromethane	ND		100		ug/L			07/20/13 01:06	50
cis-1,2-Dichloroethene	ND		50		ug/L			07/20/13 01:06	50
cis-1,3-Dichloropropene	ND		20		ug/L			07/20/13 01:06	50
Dichlorobromomethane	ND		25		ug/L			07/20/13 01:06	50
Dichlorodifluoromethane	ND	*	50		ug/L			07/20/13 01:06	50
Ethyl ether	ND		50		ug/L			07/20/13 01:06	50
Ethylbenzene	ND		50		ug/L			07/20/13 01:06	50
Ethylene Dibromide	ND		50		ug/L			07/20/13 01:06	50
Hexachlorobutadiene	ND		20		ug/L			07/20/13 01:06	50
Isopropyl ether	ND		500		ug/L			07/20/13 01:06	50

Client Sample ID: MW-261S-20130717-01

Lab Sample ID: 480-42273-1

Date Collected: 07/17/13 07:35

Matrix: Water

Date Received: 07/19/13 02:30

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	ND		50		ug/L			07/20/13 01:06	50
Methyl tert-butyl ether	ND		50		ug/L			07/20/13 01:06	50
Methylene Chloride	ND		50		ug/L			07/20/13 01:06	50
m-Xylene & p-Xylene	ND		100		ug/L			07/20/13 01:06	50
Naphthalene	ND		250		ug/L			07/20/13 01:06	50
n-Butylbenzene	ND		50		ug/L			07/20/13 01:06	50
N-Propylbenzene	ND		50		ug/L			07/20/13 01:06	50
o-Xylene	ND		50		ug/L			07/20/13 01:06	50
sec-Butylbenzene	ND		50		ug/L			07/20/13 01:06	50
Styrene	ND		50		ug/L			07/20/13 01:06	50
Tert-amyl methyl ether	ND		250		ug/L			07/20/13 01:06	50
Tert-butyl ethyl ether	ND		250		ug/L			07/20/13 01:06	50
tert-Butylbenzene	ND		50		ug/L			07/20/13 01:06	50
Tetrachloroethene	ND		50		ug/L			07/20/13 01:06	50
Tetrahydrofuran	ND		500		ug/L			07/20/13 01:06	50
Toluene	ND		50		ug/L			07/20/13 01:06	50
trans-1,2-Dichloroethene	ND		50		ug/L			07/20/13 01:06	50
trans-1,3-Dichloropropene	ND		20		ug/L			07/20/13 01:06	50
Trichloroethene	ND		50		ug/L			07/20/13 01:06	50
Trichlorofluoromethane	ND		50		ug/L			07/20/13 01:06	50
Vinyl chloride	ND		50		ug/L			07/20/13 01:06	50
Dibromomethane	ND		50		ug/L			07/20/13 01:06	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*99*		*70 - 130*		*07/20/13 01:06*	*50*
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 130*		*07/20/13 01:06*	*50*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*		*07/20/13 01:06*	*50*

Client Sample ID: MW-265M-20130717-01

Lab Sample ID: 480-42273-2

Date Collected: 07/17/13 13:20

Matrix: Water

Date Received: 07/19/13 02:30

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		25		ug/L			07/19/13 17:54	25
1,1,1-Trichloroethane	ND		25		ug/L			07/19/13 17:54	25
1,1,2,2-Tetrachloroethane	ND		13		ug/L			07/19/13 17:54	25
1,1,2-Trichloroethane	ND		25		ug/L			07/19/13 17:54	25
1,1-Dichloroethane	ND		25		ug/L			07/19/13 17:54	25
1,1-Dichloroethene	ND		25		ug/L			07/19/13 17:54	25
1,1-Dichloropropene	ND		25		ug/L			07/19/13 17:54	25
1,2,3-Trichlorobenzene	ND		25		ug/L			07/19/13 17:54	25
1,2,3-Trichloropropane	ND		25		ug/L			07/19/13 17:54	25
1,2,4-Trichlorobenzene	ND		25		ug/L			07/19/13 17:54	25
1,2,4-Trimethylbenzene	ND		25		ug/L			07/19/13 17:54	25
1,2-Dibromo-3-Chloropropane	ND		130		ug/L			07/19/13 17:54	25
1,2-Dichlorobenzene	ND		25		ug/L			07/19/13 17:54	25
1,2-Dichloroethane	ND		25		ug/L			07/19/13 17:54	25
1,2-Dichloropropane	ND		25		ug/L			07/19/13 17:54	25
1,3,5-Trimethylbenzene	ND		25		ug/L			07/19/13 17:54	25

Client Sample ID: MW-265M-20130717-01 **Lab Sample ID: 480-42273-2**

Date Collected: 07/17/13 13:20 **Matrix: Water**

Date Received: 07/19/13 02:30

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	ND		25		ug/L			07/19/13 17:54	25
1,3-Dichloropropane	ND		25		ug/L			07/19/13 17:54	25
1,4-Dichlorobenzene	ND		25		ug/L			07/19/13 17:54	25
1,4-Dioxane	ND		1300		ug/L			07/19/13 17:54	25
2,2-Dichloropropane	ND		25		ug/L			07/19/13 17:54	25
2-Butanone (MEK)	ND	*	250		ug/L			07/19/13 17:54	25
2-Chlorotoluene	ND		25		ug/L			07/19/13 17:54	25
2-Hexanone	ND		250		ug/L			07/19/13 17:54	25
4-Chlorotoluene	ND		25		ug/L			07/19/13 17:54	25
4-Isopropyltoluene	ND		25		ug/L			07/19/13 17:54	25
4-Methyl-2-pentanone (MIBK)	ND		250		ug/L			07/19/13 17:54	25
Acetone	**7100**		1300		ug/L			07/19/13 17:54	25
Benzene	ND		25		ug/L			07/19/13 17:54	25
Bromobenzene	ND		25		ug/L			07/19/13 17:54	25
Bromoform	ND		25		ug/L			07/19/13 17:54	25
Bromomethane	ND		50		ug/L			07/19/13 17:54	25
Carbon disulfide	ND		250		ug/L			07/19/13 17:54	25
Carbon tetrachloride	ND		25		ug/L			07/19/13 17:54	25
Chlorobenzene	ND		25		ug/L			07/19/13 17:54	25
Chlorobromomethane	ND		25		ug/L			07/19/13 17:54	25
Chlorodibromomethane	ND		13		ug/L			07/19/13 17:54	25
Chloroethane	ND		50		ug/L			07/19/13 17:54	25
Chloroform	ND		25		ug/L			07/19/13 17:54	25
Chloromethane	ND		50		ug/L			07/19/13 17:54	25
cis-1,2-Dichloroethene	**110**		25		ug/L			07/19/13 17:54	25
cis-1,3-Dichloropropene	ND		10		ug/L			07/19/13 17:54	25
Dichlorobromomethane	ND		13		ug/L			07/19/13 17:54	25
Dichlorodifluoromethane	ND		25		ug/L			07/19/13 17:54	25
Ethyl ether	ND		25		ug/L			07/19/13 17:54	25
Ethylbenzene	ND		25		ug/L			07/19/13 17:54	25
Ethylene Dibromide	ND		25		ug/L			07/19/13 17:54	25
Hexachlorobutadiene	ND		10		ug/L			07/19/13 17:54	25
Isopropyl ether	ND		250		ug/L			07/19/13 17:54	25
Isopropylbenzene	ND		25		ug/L			07/19/13 17:54	25
Methyl tert-butyl ether	ND		25		ug/L			07/19/13 17:54	25
Methylene Chloride	ND		25		ug/L			07/19/13 17:54	25
m-Xylene & p-Xylene	ND		50		ug/L			07/19/13 17:54	25
Naphthalene	ND		130		ug/L			07/19/13 17:54	25
n-Butylbenzene	ND		25		ug/L			07/19/13 17:54	25
N-Propylbenzene	ND		25		ug/L			07/19/13 17:54	25
o-Xylene	ND		25		ug/L			07/19/13 17:54	25
sec-Butylbenzene	ND		25		ug/L			07/19/13 17:54	25
Styrene	ND		25		ug/L			07/19/13 17:54	25
Tert-amyl methyl ether	ND		130		ug/L			07/19/13 17:54	25
Tert-butyl ethyl ether	ND		130		ug/L			07/19/13 17:54	25
tert-Butylbenzene	ND		25		ug/L			07/19/13 17:54	25
Tetrachloroethene	ND		25		ug/L			07/19/13 17:54	25
Tetrahydrofuran	ND		250		ug/L			07/19/13 17:54	25
Toluene	ND		25		ug/L			07/19/13 17:54	25

Client Sample ID: MW-265M-20130717-01

Lab Sample ID: 480-42273-2

Date Collected: 07/17/13 13:20

Matrix: Water

Date Received: 07/19/13 02:30

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	ND		25		ug/L			07/19/13 17:54	25
trans-1,3-Dichloropropene	ND		10		ug/L			07/19/13 17:54	25
Trichloroethene	ND		25		ug/L			07/19/13 17:54	25
Trichlorofluoromethane	ND		25		ug/L			07/19/13 17:54	25
Vinyl chloride	**52**		25		ug/L			07/19/13 17:54	25
Dibromomethane	ND		25		ug/L			07/19/13 17:54	25

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*101*		*70 - 130*		*07/19/13 17:54*	*25*
1,2-Dichloroethane-d4 (Surr)	*105*		*70 - 130*		*07/19/13 17:54*	*25*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*		*07/19/13 17:54*	*25*

Client Sample ID: MW-267M-20130718-01

Lab Sample ID: 480-42273-3

Date Collected: 07/18/13 11:25

Matrix: Water

Date Received: 07/19/13 02:30

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		10		ug/L			07/19/13 18:18	10
1,1,1-Trichloroethane	ND		10		ug/L			07/19/13 18:18	10
1,1,2,2-Tetrachloroethane	ND		5.0		ug/L			07/19/13 18:18	10
1,1,2-Trichloroethane	ND		10		ug/L			07/19/13 18:18	10
1,1-Dichloroethane	ND		10		ug/L			07/19/13 18:18	10
1,1-Dichloroethene	ND		10		ug/L			07/19/13 18:18	10
1,1-Dichloropropene	ND		10		ug/L			07/19/13 18:18	10
1,2,3-Trichlorobenzene	ND		10		ug/L			07/19/13 18:18	10
1,2,3-Trichloropropane	ND		10		ug/L			07/19/13 18:18	10
1,2,4-Trichlorobenzene	ND		10		ug/L			07/19/13 18:18	10
1,2,4-Trimethylbenzene	ND		10		ug/L			07/19/13 18:18	10
1,2-Dibromo-3-Chloropropane	ND		50		ug/L			07/19/13 18:18	10
1,2-Dichlorobenzene	ND		10		ug/L			07/19/13 18:18	10
1,2-Dichloroethane	ND		10		ug/L			07/19/13 18:18	10
1,2-Dichloropropane	ND		10		ug/L			07/19/13 18:18	10
1,3,5-Trimethylbenzene	ND		10		ug/L			07/19/13 18:18	10
1,3-Dichlorobenzene	ND		10		ug/L			07/19/13 18:18	10
1,3-Dichloropropane	ND		10		ug/L			07/19/13 18:18	10
1,4-Dichlorobenzene	ND		10		ug/L			07/19/13 18:18	10
1,4-Dioxane	ND		500		ug/L			07/19/13 18:18	10
2,2-Dichloropropane	ND		10		ug/L			07/19/13 18:18	10
2-Butanone (MEK)	ND	*	100		ug/L			07/19/13 18:18	10
2-Chlorotoluene	ND		10		ug/L			07/19/13 18:18	10
2-Hexanone	ND		100		ug/L			07/19/13 18:18	10
4-Chlorotoluene	ND		10		ug/L			07/19/13 18:18	10
4-Isopropyltoluene	ND		10		ug/L			07/19/13 18:18	10
4-Methyl-2-pentanone (MIBK)	ND		100		ug/L			07/19/13 18:18	10
Acetone	ND		500		ug/L			07/19/13 18:18	10
Benzene	ND		10		ug/L			07/19/13 18:18	10
Bromobenzene	ND		10		ug/L			07/19/13 18:18	10
Bromoform	ND		10		ug/L			07/19/13 18:18	10
Bromomethane	ND		20		ug/L			07/19/13 18:18	10

Client Sample ID: MW-267M-20130718-01
Date Collected: 07/18/13 11:25
Date Received: 07/19/13 02:30

Lab Sample ID: 480-42273-3
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	ND		100		ug/L			07/19/13 18:18	10
Carbon tetrachloride	ND		10		ug/L			07/19/13 18:18	10
Chlorobenzene	ND		10		ug/L			07/19/13 18:18	10
Chlorobromomethane	ND		10		ug/L			07/19/13 18:18	10
Chlorodibromomethane	ND		5.0		ug/L			07/19/13 18:18	10
Chloroethane	ND		20		ug/L			07/19/13 18:18	10
Chloroform	ND		10		ug/L			07/19/13 18:18	10
Chloromethane	ND		20		ug/L			07/19/13 18:18	10
cis-1,2-Dichloroethene	**430**		10		ug/L			07/19/13 18:18	10
cis-1,3-Dichloropropene	ND		4.0		ug/L			07/19/13 18:18	10
Dichlorobromomethane	ND		5.0		ug/L			07/19/13 18:18	10
Dichlorodifluoromethane	ND		10		ug/L			07/19/13 18:18	10
Ethyl ether	ND		10		ug/L			07/19/13 18:18	10
Ethylbenzene	ND		10		ug/L			07/19/13 18:18	10
Ethylene Dibromide	ND		10		ug/L			07/19/13 18:18	10
Hexachlorobutadiene	ND		4.0		ug/L			07/19/13 18:18	10
Isopropyl ether	ND		100		ug/L			07/19/13 18:18	10
Isopropylbenzene	ND		10		ug/L			07/19/13 18:18	10
Methyl tert-butyl ether	ND		10		ug/L			07/19/13 18:18	10
Methylene Chloride	ND		10		ug/L			07/19/13 18:18	10
m-Xylene & p-Xylene	**20**		20		ug/L			07/19/13 18:18	10
Naphthalene	ND		50		ug/L			07/19/13 18:18	10
n-Butylbenzene	ND		10		ug/L			07/19/13 18:18	10
N-Propylbenzene	ND		10		ug/L			07/19/13 18:18	10
o-Xylene	ND		10		ug/L			07/19/13 18:18	10
sec-Butylbenzene	ND		10		ug/L			07/19/13 18:18	10
Styrene	ND		10		ug/L			07/19/13 18:18	10
Tert-amyl methyl ether	ND		50		ug/L			07/19/13 18:18	10
Tert-butyl ethyl ether	ND		50		ug/L			07/19/13 18:18	10
tert-Butylbenzene	ND		10		ug/L			07/19/13 18:18	10
Tetrachloroethene	ND		10		ug/L			07/19/13 18:18	10
Tetrahydrofuran	ND		100		ug/L			07/19/13 18:18	10
Toluene	**34**		10		ug/L			07/19/13 18:18	10
trans-1,2-Dichloroethene	ND		10		ug/L			07/19/13 18:18	10
trans-1,3-Dichloropropene	ND		4.0		ug/L			07/19/13 18:18	10
Trichloroethene	ND		10		ug/L			07/19/13 18:18	10
Trichlorofluoromethane	ND		10		ug/L			07/19/13 18:18	10
Vinyl chloride	**26**		10		ug/L			07/19/13 18:18	10
Dibromomethane	ND		10		ug/L			07/19/13 18:18	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*100*		*70 - 130*		*07/19/13 18:18*	*10*
1,2-Dichloroethane-d4 (Surr)	*107*		*70 - 130*		*07/19/13 18:18*	*10*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*		*07/19/13 18:18*	*10*

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-42273-1

Client Sample ID: MW-268M-20130718-01
Date Collected: 07/18/13 09:50
Date Received: 07/19/13 02:30

Lab Sample ID: 480-42273-4
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		25		ug/L			07/19/13 18:41	25
1,1,1-Trichloroethane	ND		25		ug/L			07/19/13 18:41	25
1,1,2,2-Tetrachloroethane	ND		13		ug/L			07/19/13 18:41	25
1,1,2-Trichloroethane	ND		25		ug/L			07/19/13 18:41	25
1,1-Dichloroethane	ND		25		ug/L			07/19/13 18:41	25
1,1-Dichloroethene	ND		25		ug/L			07/19/13 18:41	25
1,1-Dichloropropene	ND		25		ug/L			07/19/13 18:41	25
1,2,3-Trichlorobenzene	ND		25		ug/L			07/19/13 18:41	25
1,2,3-Trichloropropane	ND		25		ug/L			07/19/13 18:41	25
1,2,4-Trichlorobenzene	ND		25		ug/L			07/19/13 18:41	25
1,2,4-Trimethylbenzene	ND		25		ug/L			07/19/13 18:41	25
1,2-Dibromo-3-Chloropropane	ND		130		ug/L			07/19/13 18:41	25
1,2-Dichlorobenzene	ND		25		ug/L			07/19/13 18:41	25
1,2-Dichloroethane	ND		25		ug/L			07/19/13 18:41	25
1,2-Dichloropropane	ND		25		ug/L			07/19/13 18:41	25
1,3,5-Trimethylbenzene	ND		25		ug/L			07/19/13 18:41	25
1,3-Dichlorobenzene	ND		25		ug/L			07/19/13 18:41	25
1,3-Dichloropropane	ND		25		ug/L			07/19/13 18:41	25
1,4-Dichlorobenzene	ND		25		ug/L			07/19/13 18:41	25
1,4-Dioxane	ND		1300		ug/L			07/19/13 18:41	25
2,2-Dichloropropane	ND		25		ug/L			07/19/13 18:41	25
2-Butanone (MEK)	ND	*	250		ug/L			07/19/13 18:41	25
2-Chlorotoluene	ND		25		ug/L			07/19/13 18:41	25
2-Hexanone	ND		250		ug/L			07/19/13 18:41	25
4-Chlorotoluene	ND		25		ug/L			07/19/13 18:41	25
4-Isopropyltoluene	ND		25		ug/L			07/19/13 18:41	25
4-Methyl-2-pentanone (MIBK)	ND		250		ug/L			07/19/13 18:41	25
Acetone	ND		1300		ug/L			07/19/13 18:41	25
Benzene	ND		25		ug/L			07/19/13 18:41	25
Bromobenzene	ND		25		ug/L			07/19/13 18:41	25
Bromoform	ND		25		ug/L			07/19/13 18:41	25
Bromomethane	ND		50		ug/L			07/19/13 18:41	25
Carbon disulfide	ND		250		ug/L			07/19/13 18:41	25
Carbon tetrachloride	ND		25		ug/L			07/19/13 18:41	25
Chlorobenzene	ND		25		ug/L			07/19/13 18:41	25
Chlorobromomethane	ND		25		ug/L			07/19/13 18:41	25
Chlorodibromomethane	ND		13		ug/L			07/19/13 18:41	25
Chloroethane	ND		50		ug/L			07/19/13 18:41	25
Chloroform	ND		25		ug/L			07/19/13 18:41	25
Chloromethane	ND		50		ug/L			07/19/13 18:41	25
cis-1,2-Dichloroethene	**1400**		25		ug/L			07/19/13 18:41	25
cis-1,3-Dichloropropene	ND		10		ug/L			07/19/13 18:41	25
Dichlorobromomethane	ND		13		ug/L			07/19/13 18:41	25
Dichlorodifluoromethane	ND		25		ug/L			07/19/13 18:41	25
Ethyl ether	ND		25		ug/L			07/19/13 18:41	25
Ethylbenzene	ND		25		ug/L			07/19/13 18:41	25
Ethylene Dibromide	ND		25		ug/L			07/19/13 18:41	25
Hexachlorobutadiene	ND		10		ug/L			07/19/13 18:41	25
Isopropyl ether	ND		250		ug/L			07/19/13 18:41	25

Client Sample ID: MW-268M-20130718-01

Lab Sample ID: 480-42273-4

Date Collected: 07/18/13 09:50

Matrix: Water

Date Received: 07/19/13 02:30

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	ND		25		ug/L			07/19/13 18:41	25
Methyl tert-butyl ether	ND		25		ug/L			07/19/13 18:41	25
Methylene Chloride	ND		25		ug/L			07/19/13 18:41	25
m-Xylene & p-Xylene	ND		50		ug/L			07/19/13 18:41	25
Naphthalene	ND		130		ug/L			07/19/13 18:41	25
n-Butylbenzene	ND		25		ug/L			07/19/13 18:41	25
N-Propylbenzene	ND		25		ug/L			07/19/13 18:41	25
o-Xylene	ND		25		ug/L			07/19/13 18:41	25
sec-Butylbenzene	ND		25		ug/L			07/19/13 18:41	25
Styrene	ND		25		ug/L			07/19/13 18:41	25
Tert-amyl methyl ether	ND		130		ug/L			07/19/13 18:41	25
Tert-butyl ethyl ether	ND		130		ug/L			07/19/13 18:41	25
tert-Butylbenzene	ND		25		ug/L			07/19/13 18:41	25
Tetrachloroethene	**35**		25		ug/L			07/19/13 18:41	25
Tetrahydrofuran	ND		250		ug/L			07/19/13 18:41	25
Toluene	ND		25		ug/L			07/19/13 18:41	25
trans-1,2-Dichloroethene	ND		25		ug/L			07/19/13 18:41	25
trans-1,3-Dichloropropene	ND		10		ug/L			07/19/13 18:41	25
Trichloroethene	**870**		25		ug/L			07/19/13 18:41	25
Trichlorofluoromethane	ND		25		ug/L			07/19/13 18:41	25
Vinyl chloride	**73**		25		ug/L			07/19/13 18:41	25
Dibromomethane	ND		25		ug/L			07/19/13 18:41	25

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*100*		*70 - 130*		*07/19/13 18:41*	*25*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 130*		*07/19/13 18:41*	*25*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*		*07/19/13 18:41*	*25*

Client Sample ID: MW-552-20130717-01

Lab Sample ID: 480-42273-5

Date Collected: 07/17/13 08:20

Matrix: Water

Date Received: 07/19/13 02:30

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		8.0		ug/L			07/19/13 19:05	8
1,1,1-Trichloroethane	ND		8.0		ug/L			07/19/13 19:05	8
1,1,2,2-Tetrachloroethane	ND		4.0		ug/L			07/19/13 19:05	8
1,1,2-Trichloroethane	ND		8.0		ug/L			07/19/13 19:05	8
1,1-Dichloroethane	ND		8.0		ug/L			07/19/13 19:05	8
1,1-Dichloroethene	ND		8.0		ug/L			07/19/13 19:05	8
1,1-Dichloropropene	ND		8.0		ug/L			07/19/13 19:05	8
1,2,3-Trichlorobenzene	ND		8.0		ug/L			07/19/13 19:05	8
1,2,3-Trichloropropane	ND		8.0		ug/L			07/19/13 19:05	8
1,2,4-Trichlorobenzene	ND		8.0		ug/L			07/19/13 19:05	8
1,2,4-Trimethylbenzene	ND		8.0		ug/L			07/19/13 19:05	8
1,2-Dibromo-3-Chloropropane	ND		40		ug/L			07/19/13 19:05	8
1,2-Dichlorobenzene	ND		8.0		ug/L			07/19/13 19:05	8
1,2-Dichloroethane	ND		8.0		ug/L			07/19/13 19:05	8
1,2-Dichloropropane	ND		8.0		ug/L			07/19/13 19:05	8
1,3,5-Trimethylbenzene	ND		8.0		ug/L			07/19/13 19:05	8

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-42273-1

Client Sample ID: MW-552-20130717-01
Date Collected: 07/17/13 08:20
Date Received: 07/19/13 02:30

Lab Sample ID: 480-42273-5
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	ND		8.0		ug/L			07/19/13 19:05	8
1,3-Dichloropropane	ND		8.0		ug/L			07/19/13 19:05	8
1,4-Dichlorobenzene	ND		8.0		ug/L			07/19/13 19:05	8
1,4-Dioxane	ND		400		ug/L			07/19/13 19:05	8
2,2-Dichloropropane	ND		8.0		ug/L			07/19/13 19:05	8
2-Butanone (MEK)	**88**	*	80		ug/L			07/19/13 19:05	8
2-Chlorotoluene	ND		8.0		ug/L			07/19/13 19:05	8
2-Hexanone	ND		80		ug/L			07/19/13 19:05	8
4-Chlorotoluene	ND		8.0		ug/L			07/19/13 19:05	8
4-Isopropyltoluene	ND		8.0		ug/L			07/19/13 19:05	8
4-Methyl-2-pentanone (MIBK)	ND		80		ug/L			07/19/13 19:05	8
Benzene	ND		8.0		ug/L			07/19/13 19:05	8
Bromobenzene	ND		8.0		ug/L			07/19/13 19:05	8
Bromoform	ND		8.0		ug/L			07/19/13 19:05	8
Bromomethane	ND		16		ug/L			07/19/13 19:05	8
Carbon disulfide	ND		80		ug/L			07/19/13 19:05	8
Carbon tetrachloride	ND		8.0		ug/L			07/19/13 19:05	8
Chlorobenzene	ND		8.0		ug/L			07/19/13 19:05	8
Chlorobromomethane	ND		8.0		ug/L			07/19/13 19:05	8
Chlorodibromomethane	ND		4.0		ug/L			07/19/13 19:05	8
Chloroethane	ND		16		ug/L			07/19/13 19:05	8
Chloroform	ND		8.0		ug/L			07/19/13 19:05	8
Chloromethane	ND		16		ug/L			07/19/13 19:05	8
cis-1,2-Dichloroethene	**38**		8.0		ug/L			07/19/13 19:05	8
cis-1,3-Dichloropropene	ND		3.2		ug/L			07/19/13 19:05	8
Dichlorobromomethane	ND		4.0		ug/L			07/19/13 19:05	8
Dichlorodifluoromethane	ND		8.0		ug/L			07/19/13 19:05	8
Ethyl ether	ND		8.0		ug/L			07/19/13 19:05	8
Ethylbenzene	ND		8.0		ug/L			07/19/13 19:05	8
Ethylene Dibromide	ND		8.0		ug/L			07/19/13 19:05	8
Hexachlorobutadiene	ND		3.2		ug/L			07/19/13 19:05	8
Isopropyl ether	ND		80		ug/L			07/19/13 19:05	8
Isopropylbenzene	ND		8.0		ug/L			07/19/13 19:05	8
Methyl tert-butyl ether	ND		8.0		ug/L			07/19/13 19:05	8
Methylene Chloride	ND		8.0		ug/L			07/19/13 19:05	8
m-Xylene & p-Xylene	ND		16		ug/L			07/19/13 19:05	8
Naphthalene	ND		40		ug/L			07/19/13 19:05	8
n-Butylbenzene	ND		8.0		ug/L			07/19/13 19:05	8
N-Propylbenzene	ND		8.0		ug/L			07/19/13 19:05	8
o-Xylene	ND		8.0		ug/L			07/19/13 19:05	8
sec-Butylbenzene	ND		8.0		ug/L			07/19/13 19:05	8
Styrene	ND		8.0		ug/L			07/19/13 19:05	8
Tert-amyl methyl ether	ND		40		ug/L			07/19/13 19:05	8
Tert-butyl ethyl ether	ND		40		ug/L			07/19/13 19:05	8
tert-Butylbenzene	ND		8.0		ug/L			07/19/13 19:05	8
Tetrachloroethene	ND		8.0		ug/L			07/19/13 19:05	8
Tetrahydrofuran	ND		80		ug/L			07/19/13 19:05	8
Toluene	ND		8.0		ug/L			07/19/13 19:05	8
trans-1,2-Dichloroethene	ND		8.0		ug/L			07/19/13 19:05	8

Client Sample ID: MW-552-20130717-01

Lab Sample ID: 480-42273-5

Date Collected: 07/17/13 08:20

Matrix: Water

Date Received: 07/19/13 02:30

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	ND		3.2		ug/L			07/19/13 19:05	8
Trichloroethene	ND		8.0		ug/L			07/19/13 19:05	8
Trichlorofluoromethane	ND		8.0		ug/L			07/19/13 19:05	8
Vinyl chloride	**190**		8.0		ug/L			07/19/13 19:05	8
Dibromomethane	ND		8.0		ug/L			07/19/13 19:05	8

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*100*		*70 - 130*		*07/19/13 19:05*	*8*
1,2-Dichloroethane-d4 (Surr)	*104*		*70 - 130*		*07/19/13 19:05*	*8*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*		*07/19/13 19:05*	*8*

Method: 8260C - Volatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**14000**	*	2500		ug/L			07/20/13 01:29	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*96*		*70 - 130*		*07/20/13 01:29*	*50*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 130*		*07/20/13 01:29*	*50*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*		*07/20/13 01:29*	*50*

Client Sample ID: MW-561-20130718-01

Lab Sample ID: 480-42273-6

Date Collected: 07/18/13 07:15

Matrix: Water

Date Received: 07/19/13 02:30

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.0		ug/L			07/19/13 19:28	5
1,1,1-Trichloroethane	ND		5.0		ug/L			07/19/13 19:28	5
1,1,2,2-Tetrachloroethane	ND		2.5		ug/L			07/19/13 19:28	5
1,1,2-Trichloroethane	ND		5.0		ug/L			07/19/13 19:28	5
1,1-Dichloroethane	ND		5.0		ug/L			07/19/13 19:28	5
1,1-Dichloroethene	ND		5.0		ug/L			07/19/13 19:28	5
1,1-Dichloropropene	ND		5.0		ug/L			07/19/13 19:28	5
1,2,3-Trichlorobenzene	ND		5.0		ug/L			07/19/13 19:28	5
1,2,3-Trichloropropane	ND		5.0		ug/L			07/19/13 19:28	5
1,2,4-Trichlorobenzene	ND		5.0		ug/L			07/19/13 19:28	5
1,2,4-Trimethylbenzene	ND		5.0		ug/L			07/19/13 19:28	5
1,2-Dibromo-3-Chloropropane	ND		25		ug/L			07/19/13 19:28	5
1,2-Dichlorobenzene	ND		5.0		ug/L			07/19/13 19:28	5
1,2-Dichloroethane	ND		5.0		ug/L			07/19/13 19:28	5
1,2-Dichloropropane	ND		5.0		ug/L			07/19/13 19:28	5
1,3,5-Trimethylbenzene	ND		5.0		ug/L			07/19/13 19:28	5
1,3-Dichlorobenzene	ND		5.0		ug/L			07/19/13 19:28	5
1,3-Dichloropropane	ND		5.0		ug/L			07/19/13 19:28	5
1,4-Dichlorobenzene	ND		5.0		ug/L			07/19/13 19:28	5
1,4-Dioxane	ND		250		ug/L			07/19/13 19:28	5
2,2-Dichloropropane	ND		5.0		ug/L			07/19/13 19:28	5
2-Butanone (MEK)	ND	*	50		ug/L			07/19/13 19:28	5
2-Chlorotoluene	ND		5.0		ug/L			07/19/13 19:28	5
2-Hexanone	ND		50		ug/L			07/19/13 19:28	5

Client Sample ID: MW-561-20130718-01
Date Collected: 07/18/13 07:15
Date Received: 07/19/13 02:30

Lab Sample ID: 480-42273-6
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chlorotoluene	ND		5.0		ug/L			07/19/13 19:28	5
4-Isopropyltoluene	ND		5.0		ug/L			07/19/13 19:28	5
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			07/19/13 19:28	5
Acetone	**550**		250		ug/L			07/19/13 19:28	5
Benzene	ND		5.0		ug/L			07/19/13 19:28	5
Bromobenzene	ND		5.0		ug/L			07/19/13 19:28	5
Bromoform	ND		5.0		ug/L			07/19/13 19:28	5
Bromomethane	ND		10		ug/L			07/19/13 19:28	5
Carbon disulfide	ND		50		ug/L			07/19/13 19:28	5
Carbon tetrachloride	ND		5.0		ug/L			07/19/13 19:28	5
Chlorobenzene	ND		5.0		ug/L			07/19/13 19:28	5
Chlorobromomethane	ND		5.0		ug/L			07/19/13 19:28	5
Chlorodibromomethane	ND		2.5		ug/L			07/19/13 19:28	5
Chloroethane	ND		10		ug/L			07/19/13 19:28	5
Chloroform	ND		5.0		ug/L			07/19/13 19:28	5
Chloromethane	ND		10		ug/L			07/19/13 19:28	5
cis-1,2-Dichloroethene	**53**		5.0		ug/L			07/19/13 19:28	5
cis-1,3-Dichloropropene	ND		2.0		ug/L			07/19/13 19:28	5
Dichlorobromomethane	ND		2.5		ug/L			07/19/13 19:28	5
Dichlorodifluoromethane	ND		5.0		ug/L			07/19/13 19:28	5
Ethyl ether	ND		5.0		ug/L			07/19/13 19:28	5
Ethylbenzene	ND		5.0		ug/L			07/19/13 19:28	5
Ethylene Dibromide	ND		5.0		ug/L			07/19/13 19:28	5
Hexachlorobutadiene	ND		2.0		ug/L			07/19/13 19:28	5
Isopropyl ether	ND		50		ug/L			07/19/13 19:28	5
Isopropylbenzene	ND		5.0		ug/L			07/19/13 19:28	5
Methyl tert-butyl ether	ND		5.0		ug/L			07/19/13 19:28	5
Methylene Chloride	ND		5.0		ug/L			07/19/13 19:28	5
m-Xylene & p-Xylene	ND		10		ug/L			07/19/13 19:28	5
Naphthalene	ND		25		ug/L			07/19/13 19:28	5
n-Butylbenzene	ND		5.0		ug/L			07/19/13 19:28	5
N-Propylbenzene	ND		5.0		ug/L			07/19/13 19:28	5
o-Xylene	ND		5.0		ug/L			07/19/13 19:28	5
sec-Butylbenzene	ND		5.0		ug/L			07/19/13 19:28	5
Styrene	ND		5.0		ug/L			07/19/13 19:28	5
Tert-amyl methyl ether	ND		25		ug/L			07/19/13 19:28	5
Tert-butyl ethyl ether	ND		25		ug/L			07/19/13 19:28	5
tert-Butylbenzene	ND		5.0		ug/L			07/19/13 19:28	5
Tetrachloroethene	ND		5.0		ug/L			07/19/13 19:28	5
Tetrahydrofuran	ND		50		ug/L			07/19/13 19:28	5
Toluene	ND		5.0		ug/L			07/19/13 19:28	5
trans-1,2-Dichloroethene	ND		5.0		ug/L			07/19/13 19:28	5
trans-1,3-Dichloropropene	ND		2.0		ug/L			07/19/13 19:28	5
Trichloroethene	**16**		5.0		ug/L			07/19/13 19:28	5
Trichlorofluoromethane	ND		5.0		ug/L			07/19/13 19:28	5
Vinyl chloride	**240**		5.0		ug/L			07/19/13 19:28	5
Dibromomethane	ND		5.0		ug/L			07/19/13 19:28	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*100*		*70 - 130*		*07/19/13 19:28*	*5*

Client Sample ID: MW-561-20130718-01

Lab Sample ID: 480-42273-6

Date Collected: 07/18/13 07:15

Matrix: Water

Date Received: 07/19/13 02:30

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*70 - 130*		*07/19/13 19:28*	*5*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*		*07/19/13 19:28*	*5*

Client Sample ID: MW-562-20130717-01

Lab Sample ID: 480-42273-7

Date Collected: 07/17/13 09:15

Matrix: Water

Date Received: 07/19/13 02:30

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		2.0		ug/L			07/20/13 01:53	2
1,1,1-Trichloroethane	ND		2.0		ug/L			07/20/13 01:53	2
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			07/20/13 01:53	2
1,1,2-Trichloroethane	ND		2.0		ug/L			07/20/13 01:53	2
1,1-Dichloroethane	ND		2.0		ug/L			07/20/13 01:53	2
1,1-Dichloroethene	ND		2.0		ug/L			07/20/13 01:53	2
1,1-Dichloropropene	ND		2.0		ug/L			07/20/13 01:53	2
1,2,3-Trichlorobenzene	ND		2.0		ug/L			07/20/13 01:53	2
1,2,3-Trichloropropane	ND		2.0		ug/L			07/20/13 01:53	2
1,2,4-Trichlorobenzene	ND		2.0		ug/L			07/20/13 01:53	2
1,2,4-Trimethylbenzene	ND		2.0		ug/L			07/20/13 01:53	2
1,2-Dibromo-3-Chloropropane	ND		10		ug/L			07/20/13 01:53	2
1,2-Dichlorobenzene	ND		2.0		ug/L			07/20/13 01:53	2
1,2-Dichloroethane	ND		2.0		ug/L			07/20/13 01:53	2
1,2-Dichloropropane	ND		2.0		ug/L			07/20/13 01:53	2
1,3,5-Trimethylbenzene	ND		2.0		ug/L			07/20/13 01:53	2
1,3-Dichlorobenzene	ND		2.0		ug/L			07/20/13 01:53	2
1,3-Dichloropropane	ND		2.0		ug/L			07/20/13 01:53	2
1,4-Dichlorobenzene	ND		2.0		ug/L			07/20/13 01:53	2
1,4-Dioxane	ND	*	100		ug/L			07/20/13 01:53	2
2,2-Dichloropropane	ND		2.0		ug/L			07/20/13 01:53	2
2-Butanone (MEK)	**24**	*	20		ug/L			07/20/13 01:53	2
2-Chlorotoluene	ND		2.0		ug/L			07/20/13 01:53	2
2-Hexanone	ND		20		ug/L			07/20/13 01:53	2
4-Chlorotoluene	ND		2.0		ug/L			07/20/13 01:53	2
4-Isopropyltoluene	ND		2.0		ug/L			07/20/13 01:53	2
4-Methyl-2-pentanone (MIBK)	ND		20		ug/L			07/20/13 01:53	2
Acetone	**470**	*	100		ug/L			07/20/13 01:53	2
Benzene	ND		2.0		ug/L			07/20/13 01:53	2
Bromobenzene	ND		2.0		ug/L			07/20/13 01:53	2
Bromoform	ND		2.0		ug/L			07/20/13 01:53	2
Bromomethane	ND		4.0		ug/L			07/20/13 01:53	2
Carbon disulfide	ND		20		ug/L			07/20/13 01:53	2
Carbon tetrachloride	ND		2.0		ug/L			07/20/13 01:53	2
Chlorobenzene	ND		2.0		ug/L			07/20/13 01:53	2
Chlorobromomethane	ND		2.0		ug/L			07/20/13 01:53	2
Chlorodibromomethane	ND		1.0		ug/L			07/20/13 01:53	2
Chloroethane	ND		4.0		ug/L			07/20/13 01:53	2
Chloroform	ND		2.0		ug/L			07/20/13 01:53	2
Chloromethane	ND		4.0		ug/L			07/20/13 01:53	2

Client Sample ID: MW-562-20130717-01

Lab Sample ID: 480-42273-7

Date Collected: 07/17/13 09:15

Matrix: Water

Date Received: 07/19/13 02:30

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		2.0		ug/L			07/20/13 01:53	2
cis-1,3-Dichloropropene	ND		0.80		ug/L			07/20/13 01:53	2
Dichlorobromomethane	ND		1.0		ug/L			07/20/13 01:53	2
Dichlorodifluoromethane	ND	*	2.0		ug/L			07/20/13 01:53	2
Ethyl ether	ND		2.0		ug/L			07/20/13 01:53	2
Ethylbenzene	ND		2.0		ug/L			07/20/13 01:53	2
Ethylene Dibromide	ND		2.0		ug/L			07/20/13 01:53	2
Hexachlorobutadiene	ND		0.80		ug/L			07/20/13 01:53	2
Isopropyl ether	ND		20		ug/L			07/20/13 01:53	2
Isopropylbenzene	ND		2.0		ug/L			07/20/13 01:53	2
Methyl tert-butyl ether	ND		2.0		ug/L			07/20/13 01:53	2
Methylene Chloride	ND		2.0		ug/L			07/20/13 01:53	2
m-Xylene & p-Xylene	ND		4.0		ug/L			07/20/13 01:53	2
Naphthalene	ND		10		ug/L			07/20/13 01:53	2
n-Butylbenzene	ND		2.0		ug/L			07/20/13 01:53	2
N-Propylbenzene	ND		2.0		ug/L			07/20/13 01:53	2
o-Xylene	ND		2.0		ug/L			07/20/13 01:53	2
sec-Butylbenzene	ND		2.0		ug/L			07/20/13 01:53	2
Styrene	ND		2.0		ug/L			07/20/13 01:53	2
Tert-amyl methyl ether	ND		10		ug/L			07/20/13 01:53	2
Tert-butyl ethyl ether	ND		10		ug/L			07/20/13 01:53	2
tert-Butylbenzene	ND		2.0		ug/L			07/20/13 01:53	2
Tetrachloroethene	ND		2.0		ug/L			07/20/13 01:53	2
Tetrahydrofuran	ND		20		ug/L			07/20/13 01:53	2
Toluene	ND		2.0		ug/L			07/20/13 01:53	2
trans-1,2-Dichloroethene	ND		2.0		ug/L			07/20/13 01:53	2
trans-1,3-Dichloropropene	ND		0.80		ug/L			07/20/13 01:53	2
Trichloroethene	ND		2.0		ug/L			07/20/13 01:53	2
Trichlorofluoromethane	ND		2.0		ug/L			07/20/13 01:53	2
Vinyl chloride	ND		2.0		ug/L			07/20/13 01:53	2
Dibromomethane	ND		2.0		ug/L			07/20/13 01:53	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*99*		*70 - 130*		*07/20/13 01:53*	*2*
1,2-Dichloroethane-d4 (Surr)	*107*		*70 - 130*		*07/20/13 01:53*	*2*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*		*07/20/13 01:53*	*2*

Client Sample ID: MW-563-20130718-01

Lab Sample ID: 480-42273-8

Date Collected: 07/18/13 08:00

Matrix: Water

Date Received: 07/19/13 02:30

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		4.0		ug/L			07/20/13 02:17	4
1,1,1-Trichloroethane	ND		4.0		ug/L			07/20/13 02:17	4
1,1,2,2-Tetrachloroethane	ND		2.0		ug/L			07/20/13 02:17	4
1,1,2-Trichloroethane	ND		4.0		ug/L			07/20/13 02:17	4
1,1-Dichloroethane	ND		4.0		ug/L			07/20/13 02:17	4
1,1-Dichloroethene	ND		4.0		ug/L			07/20/13 02:17	4
1,1-Dichloropropene	ND		4.0		ug/L			07/20/13 02:17	4

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-42273-1

Client Sample ID: MW-563-20130718-01
Date Collected: 07/18/13 08:00
Date Received: 07/19/13 02:30

Lab Sample ID: 480-42273-8
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	ND		4.0		ug/L			07/20/13 02:17	4
1,2,3-Trichloropropane	ND		4.0		ug/L			07/20/13 02:17	4
1,2,4-Trichlorobenzene	ND		4.0		ug/L			07/20/13 02:17	4
1,2,4-Trimethylbenzene	ND		4.0		ug/L			07/20/13 02:17	4
1,2-Dibromo-3-Chloropropane	ND		20		ug/L			07/20/13 02:17	4
1,2-Dichlorobenzene	ND		4.0		ug/L			07/20/13 02:17	4
1,2-Dichloroethane	ND		4.0		ug/L			07/20/13 02:17	4
1,2-Dichloropropane	ND		4.0		ug/L			07/20/13 02:17	4
1,3,5-Trimethylbenzene	ND		4.0		ug/L			07/20/13 02:17	4
1,3-Dichlorobenzene	ND		4.0		ug/L			07/20/13 02:17	4
1,3-Dichloropropane	ND		4.0		ug/L			07/20/13 02:17	4
1,4-Dichlorobenzene	ND		4.0		ug/L			07/20/13 02:17	4
1,4-Dioxane	ND	*	200		ug/L			07/20/13 02:17	4
2,2-Dichloropropane	ND		4.0		ug/L			07/20/13 02:17	4
2-Butanone (MEK)	**82**	*	40		ug/L			07/20/13 02:17	4
2-Chlorotoluene	ND		4.0		ug/L			07/20/13 02:17	4
2-Hexanone	ND		40		ug/L			07/20/13 02:17	4
4-Chlorotoluene	ND		4.0		ug/L			07/20/13 02:17	4
4-Isopropyltoluene	ND		4.0		ug/L			07/20/13 02:17	4
4-Methyl-2-pentanone (MIBK)	ND		40		ug/L			07/20/13 02:17	4
Acetone	ND	*	200		ug/L			07/20/13 02:17	4
Benzene	ND		4.0		ug/L			07/20/13 02:17	4
Bromobenzene	ND		4.0		ug/L			07/20/13 02:17	4
Bromoform	ND		4.0		ug/L			07/20/13 02:17	4
Bromomethane	ND		8.0		ug/L			07/20/13 02:17	4
Carbon disulfide	ND		40		ug/L			07/20/13 02:17	4
Carbon tetrachloride	ND		4.0		ug/L			07/20/13 02:17	4
Chlorobenzene	ND		4.0		ug/L			07/20/13 02:17	4
Chlorobromomethane	ND		4.0		ug/L			07/20/13 02:17	4
Chlorodibromomethane	ND		2.0		ug/L			07/20/13 02:17	4
Chloroethane	ND		8.0		ug/L			07/20/13 02:17	4
Chloroform	ND		4.0		ug/L			07/20/13 02:17	4
Chloromethane	ND		8.0		ug/L			07/20/13 02:17	4
cis-1,2-Dichloroethene	**230**		4.0		ug/L			07/20/13 02:17	4
cis-1,3-Dichloropropene	ND		1.6		ug/L			07/20/13 02:17	4
Dichlorobromomethane	ND		2.0		ug/L			07/20/13 02:17	4
Dichlorodifluoromethane	ND	*	4.0		ug/L			07/20/13 02:17	4
Ethyl ether	ND		4.0		ug/L			07/20/13 02:17	4
Ethylbenzene	ND		4.0		ug/L			07/20/13 02:17	4
Ethylene Dibromide	ND		4.0		ug/L			07/20/13 02:17	4
Hexachlorobutadiene	ND		1.6		ug/L			07/20/13 02:17	4
Isopropyl ether	ND		40		ug/L			07/20/13 02:17	4
Isopropylbenzene	ND		4.0		ug/L			07/20/13 02:17	4
Methyl tert-butyl ether	ND		4.0		ug/L			07/20/13 02:17	4
Methylene Chloride	ND		4.0		ug/L			07/20/13 02:17	4
m-Xylene & p-Xylene	**10**		8.0		ug/L			07/20/13 02:17	4
Naphthalene	ND		20		ug/L			07/20/13 02:17	4
n-Butylbenzene	ND		4.0		ug/L			07/20/13 02:17	4
N-Propylbenzene	ND		4.0		ug/L			07/20/13 02:17	4

Client Sample ID: MW-563-20130718-01

Lab Sample ID: 480-42273-8

Date Collected: 07/18/13 08:00

Matrix: Water

Date Received: 07/19/13 02:30

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	ND		4.0		ug/L			07/20/13 02:17	4
sec-Butylbenzene	ND		4.0		ug/L			07/20/13 02:17	4
Styrene	ND		4.0		ug/L			07/20/13 02:17	4
Tert-amyl methyl ether	ND		20		ug/L			07/20/13 02:17	4
Tert-butyl ethyl ether	ND		20		ug/L			07/20/13 02:17	4
tert-Butylbenzene	ND		4.0		ug/L			07/20/13 02:17	4
Tetrachloroethene	ND		4.0		ug/L			07/20/13 02:17	4
Tetrahydrofuran	ND		40		ug/L			07/20/13 02:17	4
Toluene	**19**		4.0		ug/L			07/20/13 02:17	4
trans-1,2-Dichloroethene	ND		4.0		ug/L			07/20/13 02:17	4
trans-1,3-Dichloropropene	ND		1.6		ug/L			07/20/13 02:17	4
Trichloroethene	ND		4.0		ug/L			07/20/13 02:17	4
Trichlorofluoromethane	ND		4.0		ug/L			07/20/13 02:17	4
Vinyl chloride	**160**		4.0		ug/L			07/20/13 02:17	4
Dibromomethane	ND		4.0		ug/L			07/20/13 02:17	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*100*		*70 - 130*		*07/20/13 02:17*	*4*
1,2-Dichloroethane-d4 (Surr)	*106*		*70 - 130*		*07/20/13 02:17*	*4*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*		*07/20/13 02:17*	*4*

Client Sample ID: REW-1-20130717-01

Lab Sample ID: 480-42273-9

Date Collected: 07/17/13 11:00

Matrix: Water

Date Received: 07/19/13 02:30

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		20		ug/L			07/22/13 12:51	20
1,1,1-Trichloroethane	ND		20		ug/L			07/22/13 12:51	20
1,1,2,2-Tetrachloroethane	ND		10		ug/L			07/22/13 12:51	20
1,1,2-Trichloroethane	ND		20		ug/L			07/22/13 12:51	20
1,1-Dichloroethane	ND		20		ug/L			07/22/13 12:51	20
1,1-Dichloroethene	ND		20		ug/L			07/22/13 12:51	20
1,1-Dichloropropene	ND		20		ug/L			07/22/13 12:51	20
1,2,3-Trichlorobenzene	ND		20		ug/L			07/22/13 12:51	20
1,2,3-Trichloropropane	ND		20		ug/L			07/22/13 12:51	20
1,2,4-Trichlorobenzene	ND		20		ug/L			07/22/13 12:51	20
1,2,4-Trimethylbenzene	ND		20		ug/L			07/22/13 12:51	20
1,2-Dibromo-3-Chloropropane	ND		100		ug/L			07/22/13 12:51	20
1,2-Dichlorobenzene	ND		20		ug/L			07/22/13 12:51	20
1,2-Dichloroethane	ND		20		ug/L			07/22/13 12:51	20
1,2-Dichloropropane	ND		20		ug/L			07/22/13 12:51	20
1,3,5-Trimethylbenzene	ND		20		ug/L			07/22/13 12:51	20
1,3-Dichlorobenzene	ND		20		ug/L			07/22/13 12:51	20
1,3-Dichloropropane	ND		20		ug/L			07/22/13 12:51	20
1,4-Dichlorobenzene	ND		20		ug/L			07/22/13 12:51	20
1,4-Dioxane	ND		1000		ug/L			07/22/13 12:51	20
2,2-Dichloropropane	ND		20		ug/L			07/22/13 12:51	20
2-Butanone (MEK)	ND	*	200		ug/L			07/22/13 12:51	20
2-Chlorotoluene	ND		20		ug/L			07/22/13 12:51	20

Client Sample ID: REW-1-20130717-01
Date Collected: 07/17/13 11:00
Date Received: 07/19/13 02:30

Lab Sample ID: 480-42273-9
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND		200		ug/L			07/22/13 12:51	20
4-Chlorotoluene	ND		20		ug/L			07/22/13 12:51	20
4-Isopropyltoluene	ND		20		ug/L			07/22/13 12:51	20
4-Methyl-2-pentanone (MIBK)	ND		200		ug/L			07/22/13 12:51	20
Acetone	**6100**		1000		ug/L			07/22/13 12:51	20
Benzene	ND		20		ug/L			07/22/13 12:51	20
Bromobenzene	ND		20		ug/L			07/22/13 12:51	20
Bromoform	ND		20		ug/L			07/22/13 12:51	20
Bromomethane	ND		40		ug/L			07/22/13 12:51	20
Carbon disulfide	ND		200		ug/L			07/22/13 12:51	20
Carbon tetrachloride	ND		20		ug/L			07/22/13 12:51	20
Chlorobenzene	ND		20		ug/L			07/22/13 12:51	20
Chlorobromomethane	ND		20		ug/L			07/22/13 12:51	20
Chlorodibromomethane	ND		10		ug/L			07/22/13 12:51	20
Chloroethane	ND		40		ug/L			07/22/13 12:51	20
Chloroform	ND		20		ug/L			07/22/13 12:51	20
Chloromethane	ND		40		ug/L			07/22/13 12:51	20
cis-1,2-Dichloroethene	ND		20		ug/L			07/22/13 12:51	20
cis-1,3-Dichloropropene	ND		8.0		ug/L			07/22/13 12:51	20
Dichlorobromomethane	ND		10		ug/L			07/22/13 12:51	20
Dichlorodifluoromethane	ND		20		ug/L			07/22/13 12:51	20
Ethyl ether	ND		20		ug/L			07/22/13 12:51	20
Ethylbenzene	ND		20		ug/L			07/22/13 12:51	20
Ethylene Dibromide	ND		20		ug/L			07/22/13 12:51	20
Hexachlorobutadiene	ND		8.0		ug/L			07/22/13 12:51	20
Isopropyl ether	ND		200		ug/L			07/22/13 12:51	20
Isopropylbenzene	ND		20		ug/L			07/22/13 12:51	20
Methyl tert-butyl ether	ND		20		ug/L			07/22/13 12:51	20
Methylene Chloride	ND		20		ug/L			07/22/13 12:51	20
m-Xylene & p-Xylene	ND		40		ug/L			07/22/13 12:51	20
Naphthalene	ND		100		ug/L			07/22/13 12:51	20
n-Butylbenzene	ND		20		ug/L			07/22/13 12:51	20
N-Propylbenzene	ND		20		ug/L			07/22/13 12:51	20
o-Xylene	ND		20		ug/L			07/22/13 12:51	20
sec-Butylbenzene	ND		20		ug/L			07/22/13 12:51	20
Styrene	ND		20		ug/L			07/22/13 12:51	20
Tert-amyl methyl ether	ND		100		ug/L			07/22/13 12:51	20
Tert-butyl ethyl ether	ND		100		ug/L			07/22/13 12:51	20
tert-Butylbenzene	ND		20		ug/L			07/22/13 12:51	20
Tetrachloroethene	ND		20		ug/L			07/22/13 12:51	20
Tetrahydrofuran	ND		200		ug/L			07/22/13 12:51	20
Toluene	ND		20		ug/L			07/22/13 12:51	20
trans-1,2-Dichloroethene	ND		20		ug/L			07/22/13 12:51	20
trans-1,3-Dichloropropene	ND		8.0		ug/L			07/22/13 12:51	20
Trichloroethene	ND		20		ug/L			07/22/13 12:51	20
Trichlorofluoromethane	ND		20		ug/L			07/22/13 12:51	20
Vinyl chloride	ND		20		ug/L			07/22/13 12:51	20
Dibromomethane	ND		20		ug/L			07/22/13 12:51	20

Client Sample ID: REW-1-20130717-01

Lab Sample ID: 480-42273-9

Date Collected: 07/17/13 11:00

Matrix: Water

Date Received: 07/19/13 02:30

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*98*		*70 - 130*		*07/22/13 12:51*	*20*
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 130*		*07/22/13 12:51*	*20*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*		*07/22/13 12:51*	*20*

Client Sample ID: REW-6-20130718-01

Lab Sample ID: 480-42273-10

Date Collected: 07/18/13 10:45

Matrix: Water

Date Received: 07/19/13 02:30

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.0		ug/L			07/20/13 02:40	5
1,1,1-Trichloroethane	ND		5.0		ug/L			07/20/13 02:40	5
1,1,2,2-Tetrachloroethane	ND		2.5		ug/L			07/20/13 02:40	5
1,1,2-Trichloroethane	ND		5.0		ug/L			07/20/13 02:40	5
1,1-Dichloroethane	ND		5.0		ug/L			07/20/13 02:40	5
1,1-Dichloroethene	ND		5.0		ug/L			07/20/13 02:40	5
1,1-Dichloropropene	ND		5.0		ug/L			07/20/13 02:40	5
1,2,3-Trichlorobenzene	ND		5.0		ug/L			07/20/13 02:40	5
1,2,3-Trichloropropane	ND		5.0		ug/L			07/20/13 02:40	5
1,2,4-Trichlorobenzene	ND		5.0		ug/L			07/20/13 02:40	5
1,2,4-Trimethylbenzene	ND		5.0		ug/L			07/20/13 02:40	5
1,2-Dibromo-3-Chloropropane	ND		25		ug/L			07/20/13 02:40	5
1,2-Dichlorobenzene	ND		5.0		ug/L			07/20/13 02:40	5
1,2-Dichloroethane	ND		5.0		ug/L			07/20/13 02:40	5
1,2-Dichloropropane	ND		5.0		ug/L			07/20/13 02:40	5
1,3,5-Trimethylbenzene	ND		5.0		ug/L			07/20/13 02:40	5
1,3-Dichlorobenzene	ND		5.0		ug/L			07/20/13 02:40	5
1,3-Dichloropropane	ND		5.0		ug/L			07/20/13 02:40	5
1,4-Dichlorobenzene	ND		5.0		ug/L			07/20/13 02:40	5
1,4-Dioxane	ND	*	250		ug/L			07/20/13 02:40	5
2,2-Dichloropropane	ND		5.0		ug/L			07/20/13 02:40	5
2-Butanone (MEK)	ND	*	50		ug/L			07/20/13 02:40	5
2-Chlorotoluene	ND		5.0		ug/L			07/20/13 02:40	5
2-Hexanone	ND		50		ug/L			07/20/13 02:40	5
4-Chlorotoluene	ND		5.0		ug/L			07/20/13 02:40	5
4-Isopropyltoluene	ND		5.0		ug/L			07/20/13 02:40	5
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			07/20/13 02:40	5
Acetone	ND	*	250		ug/L			07/20/13 02:40	5
Benzene	ND		5.0		ug/L			07/20/13 02:40	5
Bromobenzene	ND		5.0		ug/L			07/20/13 02:40	5
Bromoform	ND		5.0		ug/L			07/20/13 02:40	5
Bromomethane	ND		10		ug/L			07/20/13 02:40	5
Carbon disulfide	ND		50		ug/L			07/20/13 02:40	5
Carbon tetrachloride	ND		5.0		ug/L			07/20/13 02:40	5
Chlorobenzene	ND		5.0		ug/L			07/20/13 02:40	5
Chlorobromomethane	ND		5.0		ug/L			07/20/13 02:40	5
Chlorodibromomethane	ND		2.5		ug/L			07/20/13 02:40	5
Chloroethane	ND		10		ug/L			07/20/13 02:40	5
Chloroform	ND		5.0		ug/L			07/20/13 02:40	5
Chloromethane	ND		10		ug/L			07/20/13 02:40	5

Client Sample ID: REW-6-20130718-01

Lab Sample ID: 480-42273-10

Date Collected: 07/18/13 10:45

Matrix: Water

Date Received: 07/19/13 02:30

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	**320**		5.0		ug/L			07/20/13 02:40	5
cis-1,3-Dichloropropene	ND		2.0		ug/L			07/20/13 02:40	5
Dichlorobromomethane	ND		2.5		ug/L			07/20/13 02:40	5
Dichlorodifluoromethane	ND	*	5.0		ug/L			07/20/13 02:40	5
Ethyl ether	ND		5.0		ug/L			07/20/13 02:40	5
Ethylbenzene	ND		5.0		ug/L			07/20/13 02:40	5
Ethylene Dibromide	ND		5.0		ug/L			07/20/13 02:40	5
Hexachlorobutadiene	ND		2.0		ug/L			07/20/13 02:40	5
Isopropyl ether	ND		50		ug/L			07/20/13 02:40	5
Isopropylbenzene	ND		5.0		ug/L			07/20/13 02:40	5
Methyl tert-butyl ether	ND		5.0		ug/L			07/20/13 02:40	5
Methylene Chloride	ND		5.0		ug/L			07/20/13 02:40	5
m-Xylene & p-Xylene	ND		10		ug/L			07/20/13 02:40	5
Naphthalene	ND		25		ug/L			07/20/13 02:40	5
n-Butylbenzene	ND		5.0		ug/L			07/20/13 02:40	5
N-Propylbenzene	ND		5.0		ug/L			07/20/13 02:40	5
o-Xylene	ND		5.0		ug/L			07/20/13 02:40	5
sec-Butylbenzene	ND		5.0		ug/L			07/20/13 02:40	5
Styrene	ND		5.0		ug/L			07/20/13 02:40	5
Tert-amyl methyl ether	ND		25		ug/L			07/20/13 02:40	5
Tert-butyl ethyl ether	ND		25		ug/L			07/20/13 02:40	5
tert-Butylbenzene	ND		5.0		ug/L			07/20/13 02:40	5
Tetrachloroethene	**14**		5.0		ug/L			07/20/13 02:40	5
Tetrahydrofuran	ND		50		ug/L			07/20/13 02:40	5
Toluene	ND		5.0		ug/L			07/20/13 02:40	5
trans-1,2-Dichloroethene	ND		5.0		ug/L			07/20/13 02:40	5
trans-1,3-Dichloropropene	ND		2.0		ug/L			07/20/13 02:40	5
Trichloroethene	**250**		5.0		ug/L			07/20/13 02:40	5
Trichlorofluoromethane	ND		5.0		ug/L			07/20/13 02:40	5
Vinyl chloride	**17**		5.0		ug/L			07/20/13 02:40	5
Dibromomethane	ND		5.0		ug/L			07/20/13 02:40	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*100*		*70 - 130*		*07/20/13 02:40*	*5*
1,2-Dichloroethane-d4 (Surr)	*104*		*70 - 130*		*07/20/13 02:40*	*5*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*		*07/20/13 02:40*	*5*

Client Sample ID: REW-7-20130718-01

Lab Sample ID: 480-42273-11

Date Collected: 07/18/13 12:45

Matrix: Water

Date Received: 07/19/13 02:30

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		10		ug/L			07/19/13 13:56	10
1,1,1-Trichloroethane	ND		10		ug/L			07/19/13 13:56	10
1,1,2,2-Tetrachloroethane	ND		5.0		ug/L			07/19/13 13:56	10
1,1,2-Trichloroethane	ND		10		ug/L			07/19/13 13:56	10
1,1-Dichloroethane	ND		10		ug/L			07/19/13 13:56	10
1,1-Dichloroethene	ND		10		ug/L			07/19/13 13:56	10
1,1-Dichloropropene	ND		10		ug/L			07/19/13 13:56	10

Client Sample ID: REW-7-20130718-01

Lab Sample ID: 480-42273-11

Date Collected: 07/18/13 12:45

Matrix: Water

Date Received: 07/19/13 02:30

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	ND		10		ug/L			07/19/13 13:56	10
1,2,3-Trichloropropane	ND		10		ug/L			07/19/13 13:56	10
1,2,4-Trichlorobenzene	ND		10		ug/L			07/19/13 13:56	10
1,2,4-Trimethylbenzene	ND		10		ug/L			07/19/13 13:56	10
1,2-Dibromo-3-Chloropropane	ND		50		ug/L			07/19/13 13:56	10
1,2-Dichlorobenzene	ND		10		ug/L			07/19/13 13:56	10
1,2-Dichloroethane	ND		10		ug/L			07/19/13 13:56	10
1,2-Dichloropropane	ND		10		ug/L			07/19/13 13:56	10
1,3,5-Trimethylbenzene	ND		10		ug/L			07/19/13 13:56	10
1,3-Dichlorobenzene	ND		10		ug/L			07/19/13 13:56	10
1,3-Dichloropropane	ND		10		ug/L			07/19/13 13:56	10
1,4-Dichlorobenzene	ND		10		ug/L			07/19/13 13:56	10
1,4-Dioxane	ND	*	500		ug/L			07/19/13 13:56	10
2,2-Dichloropropane	ND		10		ug/L			07/19/13 13:56	10
2-Butanone (MEK)	ND	*	100		ug/L			07/19/13 13:56	10
2-Chlorotoluene	ND		10		ug/L			07/19/13 13:56	10
2-Hexanone	ND		100		ug/L			07/19/13 13:56	10
4-Chlorotoluene	ND		10		ug/L			07/19/13 13:56	10
4-Isopropyltoluene	ND		10		ug/L			07/19/13 13:56	10
4-Methyl-2-pentanone (MIBK)	ND		100		ug/L			07/19/13 13:56	10
Acetone	ND		500		ug/L			07/19/13 13:56	10
Benzene	ND		10		ug/L			07/19/13 13:56	10
Bromobenzene	ND		10		ug/L			07/19/13 13:56	10
Bromoform	ND		10		ug/L			07/19/13 13:56	10
Bromomethane	ND		20		ug/L			07/19/13 13:56	10
Carbon disulfide	ND		100		ug/L			07/19/13 13:56	10
Carbon tetrachloride	ND		10		ug/L			07/19/13 13:56	10
Chlorobenzene	ND		10		ug/L			07/19/13 13:56	10
Chlorobromomethane	ND		10		ug/L			07/19/13 13:56	10
Chlorodibromomethane	ND		5.0		ug/L			07/19/13 13:56	10
Chloroethane	ND		20		ug/L			07/19/13 13:56	10
Chloroform	ND		10		ug/L			07/19/13 13:56	10
Chloromethane	ND		20		ug/L			07/19/13 13:56	10
cis-1,2-Dichloroethene	**680**		10		ug/L			07/19/13 13:56	10
cis-1,3-Dichloropropene	ND		4.0		ug/L			07/19/13 13:56	10
Dichlorobromomethane	ND		5.0		ug/L			07/19/13 13:56	10
Dichlorodifluoromethane	ND		10		ug/L			07/19/13 13:56	10
Ethyl ether	ND		10		ug/L			07/19/13 13:56	10
Ethylbenzene	ND		10		ug/L			07/19/13 13:56	10
Ethylene Dibromide	ND		10		ug/L			07/19/13 13:56	10
Hexachlorobutadiene	ND		4.0		ug/L			07/19/13 13:56	10
Isopropyl ether	ND		100		ug/L			07/19/13 13:56	10
Isopropylbenzene	ND		10		ug/L			07/19/13 13:56	10
Methyl tert-butyl ether	ND		10		ug/L			07/19/13 13:56	10
Methylene Chloride	ND		10		ug/L			07/19/13 13:56	10
m-Xylene & p-Xylene	ND		20		ug/L			07/19/13 13:56	10
Naphthalene	ND		50		ug/L			07/19/13 13:56	10
n-Butylbenzene	ND		10		ug/L			07/19/13 13:56	10
N-Propylbenzene	ND		10		ug/L			07/19/13 13:56	10

Client Sample ID: REW-7-20130718-01

Lab Sample ID: 480-42273-11

Date Collected: 07/18/13 12:45

Matrix: Water

Date Received: 07/19/13 02:30

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	ND		10		ug/L			07/19/13 13:56	10
sec-Butylbenzene	ND		10		ug/L			07/19/13 13:56	10
Styrene	ND		10		ug/L			07/19/13 13:56	10
Tert-amyl methyl ether	ND		50		ug/L			07/19/13 13:56	10
Tert-butyl ethyl ether	ND		50		ug/L			07/19/13 13:56	10
tert-Butylbenzene	ND		10		ug/L			07/19/13 13:56	10
Tetrachloroethene	**10**		10		ug/L			07/19/13 13:56	10
Tetrahydrofuran	ND		100		ug/L			07/19/13 13:56	10
Toluene	ND		10		ug/L			07/19/13 13:56	10
trans-1,2-Dichloroethene	ND		10		ug/L			07/19/13 13:56	10
trans-1,3-Dichloropropene	ND		4.0		ug/L			07/19/13 13:56	10
Trichloroethene	**240**		10		ug/L			07/19/13 13:56	10
Trichlorofluoromethane	ND		10		ug/L			07/19/13 13:56	10
Vinyl chloride	**170**		10		ug/L			07/19/13 13:56	10
Dibromomethane	ND		10		ug/L			07/19/13 13:56	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*98*		*70 - 130*		*07/19/13 13:56*	*10*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 130*		*07/19/13 13:56*	*10*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*		*07/19/13 13:56*	*10*

Client Sample ID: REW-8-20130718-01

Lab Sample ID: 480-42273-12

Date Collected: 07/18/13 12:05

Matrix: Water

Date Received: 07/19/13 02:30

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.0		ug/L			07/20/13 03:04	5
1,1,1-Trichloroethane	ND		5.0		ug/L			07/20/13 03:04	5
1,1,2,2-Tetrachloroethane	ND		2.5		ug/L			07/20/13 03:04	5
1,1,2-Trichloroethane	ND		5.0		ug/L			07/20/13 03:04	5
1,1-Dichloroethane	ND		5.0		ug/L			07/20/13 03:04	5
1,1-Dichloroethene	ND		5.0		ug/L			07/20/13 03:04	5
1,1-Dichloropropene	ND		5.0		ug/L			07/20/13 03:04	5
1,2,3-Trichlorobenzene	ND		5.0		ug/L			07/20/13 03:04	5
1,2,3-Trichloropropane	ND		5.0		ug/L			07/20/13 03:04	5
1,2,4-Trichlorobenzene	ND		5.0		ug/L			07/20/13 03:04	5
1,2,4-Trimethylbenzene	ND		5.0		ug/L			07/20/13 03:04	5
1,2-Dibromo-3-Chloropropane	ND		25		ug/L			07/20/13 03:04	5
1,2-Dichlorobenzene	ND		5.0		ug/L			07/20/13 03:04	5
1,2-Dichloroethane	ND		5.0		ug/L			07/20/13 03:04	5
1,2-Dichloropropane	ND		5.0		ug/L			07/20/13 03:04	5
1,3,5-Trimethylbenzene	ND		5.0		ug/L			07/20/13 03:04	5
1,3-Dichlorobenzene	ND		5.0		ug/L			07/20/13 03:04	5
1,3-Dichloropropane	ND		5.0		ug/L			07/20/13 03:04	5
1,4-Dichlorobenzene	ND		5.0		ug/L			07/20/13 03:04	5
1,4-Dioxane	ND	*	250		ug/L			07/20/13 03:04	5
2,2-Dichloropropane	ND		5.0		ug/L			07/20/13 03:04	5
2-Butanone (MEK)	**57**	*	50		ug/L			07/20/13 03:04	5
2-Chlorotoluene	ND		5.0		ug/L			07/20/13 03:04	5

Client Sample ID: REW-8-20130718-01

Lab Sample ID: 480-42273-12

Date Collected: 07/18/13 12:05

Matrix: Water

Date Received: 07/19/13 02:30

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND		50		ug/L			07/20/13 03:04	5
4-Chlorotoluene	ND		5.0		ug/L			07/20/13 03:04	5
4-Isopropyltoluene	ND		5.0		ug/L			07/20/13 03:04	5
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			07/20/13 03:04	5
Acetone	ND	*	250		ug/L			07/20/13 03:04	5
Benzene	ND		5.0		ug/L			07/20/13 03:04	5
Bromobenzene	ND		5.0		ug/L			07/20/13 03:04	5
Bromoform	ND		5.0		ug/L			07/20/13 03:04	5
Bromomethane	ND		10		ug/L			07/20/13 03:04	5
Carbon disulfide	ND		50		ug/L			07/20/13 03:04	5
Carbon tetrachloride	ND		5.0		ug/L			07/20/13 03:04	5
Chlorobenzene	ND		5.0		ug/L			07/20/13 03:04	5
Chlorobromomethane	ND		5.0		ug/L			07/20/13 03:04	5
Chlorodibromomethane	ND		2.5		ug/L			07/20/13 03:04	5
Chloroethane	ND		10		ug/L			07/20/13 03:04	5
Chloroform	ND		5.0		ug/L			07/20/13 03:04	5
Chloromethane	ND		10		ug/L			07/20/13 03:04	5
cis-1,2-Dichloroethene	**310**		5.0		ug/L			07/20/13 03:04	5
cis-1,3-Dichloropropene	ND		2.0		ug/L			07/20/13 03:04	5
Dichlorobromomethane	ND		2.5		ug/L			07/20/13 03:04	5
Dichlorodifluoromethane	ND	*	5.0		ug/L			07/20/13 03:04	5
Ethyl ether	ND		5.0		ug/L			07/20/13 03:04	5
Ethylbenzene	ND		5.0		ug/L			07/20/13 03:04	5
Ethylene Dibromide	ND		5.0		ug/L			07/20/13 03:04	5
Hexachlorobutadiene	ND		2.0		ug/L			07/20/13 03:04	5
Isopropyl ether	ND		50		ug/L			07/20/13 03:04	5
Isopropylbenzene	ND		5.0		ug/L			07/20/13 03:04	5
Methyl tert-butyl ether	ND		5.0		ug/L			07/20/13 03:04	5
Methylene Chloride	ND		5.0		ug/L			07/20/13 03:04	5
m-Xylene & p-Xylene	ND		10		ug/L			07/20/13 03:04	5
Naphthalene	ND		25		ug/L			07/20/13 03:04	5
n-Butylbenzene	ND		5.0		ug/L			07/20/13 03:04	5
N-Propylbenzene	ND		5.0		ug/L			07/20/13 03:04	5
o-Xylene	ND		5.0		ug/L			07/20/13 03:04	5
sec-Butylbenzene	ND		5.0		ug/L			07/20/13 03:04	5
Styrene	ND		5.0		ug/L			07/20/13 03:04	5
Tert-amyl methyl ether	ND		25		ug/L			07/20/13 03:04	5
Tert-butyl ethyl ether	ND		25		ug/L			07/20/13 03:04	5
tert-Butylbenzene	ND		5.0		ug/L			07/20/13 03:04	5
Tetrachloroethene	ND		5.0		ug/L			07/20/13 03:04	5
Tetrahydrofuran	ND		50		ug/L			07/20/13 03:04	5
Toluene	ND		5.0		ug/L			07/20/13 03:04	5
trans-1,2-Dichloroethene	ND		5.0		ug/L			07/20/13 03:04	5
trans-1,3-Dichloropropene	ND		2.0		ug/L			07/20/13 03:04	5
Trichloroethene	**79**		5.0		ug/L			07/20/13 03:04	5
Trichlorofluoromethane	ND		5.0		ug/L			07/20/13 03:04	5
Vinyl chloride	**93**		5.0		ug/L			07/20/13 03:04	5
Dibromomethane	ND		5.0		ug/L			07/20/13 03:04	5

Client Sample ID: REW-8-20130718-01

Lab Sample ID: 480-42273-12

Date Collected: 07/18/13 12:05

Matrix: Water

Date Received: 07/19/13 02:30

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*100*		*70 - 130*		*07/20/13 03:04*	*5*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 130*		*07/20/13 03:04*	*5*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*		*07/20/13 03:04*	*5*

Client Sample ID: REW-12-20130718-01

Lab Sample ID: 480-42273-13

Date Collected: 07/18/13 09:05

Matrix: Water

Date Received: 07/19/13 02:30

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		4.0		ug/L			07/19/13 14:46	4
1,1,1-Trichloroethane	ND		4.0		ug/L			07/19/13 14:46	4
1,1,2,2-Tetrachloroethane	ND		2.0		ug/L			07/19/13 14:46	4
1,1,2-Trichloroethane	ND		4.0		ug/L			07/19/13 14:46	4
1,1-Dichloroethane	ND		4.0		ug/L			07/19/13 14:46	4
1,1-Dichloroethene	ND		4.0		ug/L			07/19/13 14:46	4
1,1-Dichloropropene	ND		4.0		ug/L			07/19/13 14:46	4
1,2,3-Trichlorobenzene	ND		4.0		ug/L			07/19/13 14:46	4
1,2,3-Trichloropropane	ND		4.0		ug/L			07/19/13 14:46	4
1,2,4-Trichlorobenzene	ND		4.0		ug/L			07/19/13 14:46	4
1,2,4-Trimethylbenzene	ND		4.0		ug/L			07/19/13 14:46	4
1,2-Dibromo-3-Chloropropane	ND		20		ug/L			07/19/13 14:46	4
1,2-Dichlorobenzene	ND		4.0		ug/L			07/19/13 14:46	4
1,2-Dichloroethane	ND		4.0		ug/L			07/19/13 14:46	4
1,2-Dichloropropane	ND		4.0		ug/L			07/19/13 14:46	4
1,3,5-Trimethylbenzene	ND		4.0		ug/L			07/19/13 14:46	4
1,3-Dichlorobenzene	ND		4.0		ug/L			07/19/13 14:46	4
1,3-Dichloropropane	ND		4.0		ug/L			07/19/13 14:46	4
1,4-Dichlorobenzene	ND		4.0		ug/L			07/19/13 14:46	4
1,4-Dioxane	ND	*	200		ug/L			07/19/13 14:46	4
2,2-Dichloropropane	ND		4.0		ug/L			07/19/13 14:46	4
2-Butanone (MEK)	ND	*	40		ug/L			07/19/13 14:46	4
2-Chlorotoluene	ND		4.0		ug/L			07/19/13 14:46	4
2-Hexanone	ND		40		ug/L			07/19/13 14:46	4
4-Chlorotoluene	ND		4.0		ug/L			07/19/13 14:46	4
4-Isopropyltoluene	ND		4.0		ug/L			07/19/13 14:46	4
4-Methyl-2-pentanone (MIBK)	ND		40		ug/L			07/19/13 14:46	4
Acetone	ND		200		ug/L			07/19/13 14:46	4
Benzene	ND		4.0		ug/L			07/19/13 14:46	4
Bromobenzene	ND		4.0		ug/L			07/19/13 14:46	4
Bromoform	ND		4.0		ug/L			07/19/13 14:46	4
Bromomethane	ND		8.0		ug/L			07/19/13 14:46	4
Carbon disulfide	ND		40		ug/L			07/19/13 14:46	4
Carbon tetrachloride	ND		4.0		ug/L			07/19/13 14:46	4
Chlorobenzene	ND		4.0		ug/L			07/19/13 14:46	4
Chlorobromomethane	ND		4.0		ug/L			07/19/13 14:46	4
Chlorodibromomethane	ND		2.0		ug/L			07/19/13 14:46	4
Chloroethane	ND		8.0		ug/L			07/19/13 14:46	4
Chloroform	ND		4.0		ug/L			07/19/13 14:46	4
Chloromethane	ND		8.0		ug/L			07/19/13 14:46	4

Client Sample ID: REW-12-20130718-01

Lab Sample ID: 480-42273-13

Date Collected: 07/18/13 09:05

Matrix: Water

Date Received: 07/19/13 02:30

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	**310**		4.0		ug/L			07/19/13 14:46	4
cis-1,3-Dichloropropene	ND		1.6		ug/L			07/19/13 14:46	4
Dichlorobromomethane	ND		2.0		ug/L			07/19/13 14:46	4
Dichlorodifluoromethane	ND		4.0		ug/L			07/19/13 14:46	4
Ethyl ether	ND		4.0		ug/L			07/19/13 14:46	4
Ethylbenzene	ND		4.0		ug/L			07/19/13 14:46	4
Ethylene Dibromide	ND		4.0		ug/L			07/19/13 14:46	4
Hexachlorobutadiene	ND		1.6		ug/L			07/19/13 14:46	4
Isopropyl ether	ND		40		ug/L			07/19/13 14:46	4
Isopropylbenzene	ND		4.0		ug/L			07/19/13 14:46	4
Methyl tert-butyl ether	ND		4.0		ug/L			07/19/13 14:46	4
Methylene Chloride	ND		4.0		ug/L			07/19/13 14:46	4
m-Xylene & p-Xylene	ND		8.0		ug/L			07/19/13 14:46	4
Naphthalene	ND		20		ug/L			07/19/13 14:46	4
n-Butylbenzene	ND		4.0		ug/L			07/19/13 14:46	4
N-Propylbenzene	ND		4.0		ug/L			07/19/13 14:46	4
o-Xylene	ND		4.0		ug/L			07/19/13 14:46	4
sec-Butylbenzene	ND		4.0		ug/L			07/19/13 14:46	4
Styrene	ND		4.0		ug/L			07/19/13 14:46	4
Tert-amyl methyl ether	ND		20		ug/L			07/19/13 14:46	4
Tert-butyl ethyl ether	ND		20		ug/L			07/19/13 14:46	4
tert-Butylbenzene	ND		4.0		ug/L			07/19/13 14:46	4
Tetrachloroethene	**8.7**		4.0		ug/L			07/19/13 14:46	4
Tetrahydrofuran	ND		40		ug/L			07/19/13 14:46	4
Toluene	ND		4.0		ug/L			07/19/13 14:46	4
trans-1,2-Dichloroethene	ND		4.0		ug/L			07/19/13 14:46	4
trans-1,3-Dichloropropene	ND		1.6		ug/L			07/19/13 14:46	4
Trichloroethene	**140**		4.0		ug/L			07/19/13 14:46	4
Trichlorofluoromethane	ND		4.0		ug/L			07/19/13 14:46	4
Vinyl chloride	**45**		4.0		ug/L			07/19/13 14:46	4
Dibromomethane	ND		4.0		ug/L			07/19/13 14:46	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*99*		*70 - 130*		*07/19/13 14:46*	*4*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 130*		*07/19/13 14:46*	*4*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*07/19/13 14:46*	*4*

Client Sample ID: DUPX1-20130717-01

Lab Sample ID: 480-42273-14

Date Collected: 07/17/13 00:00

Matrix: Water

Date Received: 07/19/13 02:30

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		2.0		ug/L			07/20/13 03:28	2
1,1,1-Trichloroethane	ND		2.0		ug/L			07/20/13 03:28	2
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			07/20/13 03:28	2
1,1,2-Trichloroethane	ND		2.0		ug/L			07/20/13 03:28	2
1,1-Dichloroethane	ND		2.0		ug/L			07/20/13 03:28	2
1,1-Dichloroethene	ND		2.0		ug/L			07/20/13 03:28	2
1,1-Dichloropropene	ND		2.0		ug/L			07/20/13 03:28	2

Client Sample ID: DUPX1-20130717-01
Date Collected: 07/17/13 00:00
Date Received: 07/19/13 02:30

Lab Sample ID: 480-42273-14
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	ND		2.0		ug/L			07/20/13 03:28	2
1,2,3-Trichloropropane	ND		2.0		ug/L			07/20/13 03:28	2
1,2,4-Trichlorobenzene	ND		2.0		ug/L			07/20/13 03:28	2
1,2,4-Trimethylbenzene	ND		2.0		ug/L			07/20/13 03:28	2
1,2-Dibromo-3-Chloropropane	ND		10		ug/L			07/20/13 03:28	2
1,2-Dichlorobenzene	ND		2.0		ug/L			07/20/13 03:28	2
1,2-Dichloroethane	ND		2.0		ug/L			07/20/13 03:28	2
1,2-Dichloropropane	ND		2.0		ug/L			07/20/13 03:28	2
1,3,5-Trimethylbenzene	ND		2.0		ug/L			07/20/13 03:28	2
1,3-Dichlorobenzene	ND		2.0		ug/L			07/20/13 03:28	2
1,3-Dichloropropane	ND		2.0		ug/L			07/20/13 03:28	2
1,4-Dichlorobenzene	ND		2.0		ug/L			07/20/13 03:28	2
1,4-Dioxane	ND	*	100		ug/L			07/20/13 03:28	2
2,2-Dichloropropane	ND		2.0		ug/L			07/20/13 03:28	2
2-Butanone (MEK)	**31**	*	20		ug/L			07/20/13 03:28	2
2-Chlorotoluene	ND		2.0		ug/L			07/20/13 03:28	2
2-Hexanone	ND		20		ug/L			07/20/13 03:28	2
4-Chlorotoluene	ND		2.0		ug/L			07/20/13 03:28	2
4-Isopropyltoluene	ND		2.0		ug/L			07/20/13 03:28	2
4-Methyl-2-pentanone (MIBK)	ND		20		ug/L			07/20/13 03:28	2
Acetone	**530**	*	100		ug/L			07/20/13 03:28	2
Benzene	ND		2.0		ug/L			07/20/13 03:28	2
Bromobenzene	ND		2.0		ug/L			07/20/13 03:28	2
Bromoform	ND		2.0		ug/L			07/20/13 03:28	2
Bromomethane	ND		4.0		ug/L			07/20/13 03:28	2
Carbon disulfide	ND		20		ug/L			07/20/13 03:28	2
Carbon tetrachloride	ND		2.0		ug/L			07/20/13 03:28	2
Chlorobenzene	ND		2.0		ug/L			07/20/13 03:28	2
Chlorobromomethane	ND		2.0		ug/L			07/20/13 03:28	2
Chlorodibromomethane	ND		1.0		ug/L			07/20/13 03:28	2
Chloroethane	ND		4.0		ug/L			07/20/13 03:28	2
Chloroform	ND		2.0		ug/L			07/20/13 03:28	2
Chloromethane	ND		4.0		ug/L			07/20/13 03:28	2
cis-1,2-Dichloroethene	ND		2.0		ug/L			07/20/13 03:28	2
cis-1,3-Dichloropropene	ND		0.80		ug/L			07/20/13 03:28	2
Dichlorobromomethane	ND		1.0		ug/L			07/20/13 03:28	2
Dichlorodifluoromethane	ND	*	2.0		ug/L			07/20/13 03:28	2
Ethyl ether	ND		2.0		ug/L			07/20/13 03:28	2
Ethylbenzene	ND		2.0		ug/L			07/20/13 03:28	2
Ethylene Dibromide	ND		2.0		ug/L			07/20/13 03:28	2
Hexachlorobutadiene	ND		0.80		ug/L			07/20/13 03:28	2
Isopropyl ether	ND		20		ug/L			07/20/13 03:28	2
Isopropylbenzene	ND		2.0		ug/L			07/20/13 03:28	2
Methyl tert-butyl ether	ND		2.0		ug/L			07/20/13 03:28	2
Methylene Chloride	ND		2.0		ug/L			07/20/13 03:28	2
m-Xylene & p-Xylene	ND		4.0		ug/L			07/20/13 03:28	2
Naphthalene	ND		10		ug/L			07/20/13 03:28	2
n-Butylbenzene	ND		2.0		ug/L			07/20/13 03:28	2
N-Propylbenzene	ND		2.0		ug/L			07/20/13 03:28	2

Client Sample ID: DUPX1-20130717-01

Lab Sample ID: 480-42273-14

Date Collected: 07/17/13 00:00

Matrix: Water

Date Received: 07/19/13 02:30

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	ND		2.0		ug/L			07/20/13 03:28	2
sec-Butylbenzene	ND		2.0		ug/L			07/20/13 03:28	2
Styrene	ND		2.0		ug/L			07/20/13 03:28	2
Tert-amyl methyl ether	ND		10		ug/L			07/20/13 03:28	2
Tert-butyl ethyl ether	ND		10		ug/L			07/20/13 03:28	2
tert-Butylbenzene	ND		2.0		ug/L			07/20/13 03:28	2
Tetrachloroethene	ND		2.0		ug/L			07/20/13 03:28	2
Tetrahydrofuran	ND		20		ug/L			07/20/13 03:28	2
Toluene	ND		2.0		ug/L			07/20/13 03:28	2
trans-1,2-Dichloroethene	ND		2.0		ug/L			07/20/13 03:28	2
trans-1,3-Dichloropropene	ND		0.80		ug/L			07/20/13 03:28	2
Trichloroethene	ND		2.0		ug/L			07/20/13 03:28	2
Trichlorofluoromethane	ND		2.0		ug/L			07/20/13 03:28	2
Vinyl chloride	ND		2.0		ug/L			07/20/13 03:28	2
Dibromomethane	ND		2.0		ug/L			07/20/13 03:28	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*99*		*70 - 130*		*07/20/13 03:28*	*2*
1,2-Dichloroethane-d4 (Surr)	*106*		*70 - 130*		*07/20/13 03:28*	*2*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*		*07/20/13 03:28*	*2*

Client Sample ID: DUPX2-20130718-01

Lab Sample ID: 480-42273-15

Date Collected: 07/18/13 00:00

Matrix: Water

Date Received: 07/19/13 02:30

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		4.0		ug/L			07/20/13 03:52	4
1,1,1-Trichloroethane	ND		4.0		ug/L			07/20/13 03:52	4
1,1,2,2-Tetrachloroethane	ND		2.0		ug/L			07/20/13 03:52	4
1,1,2-Trichloroethane	ND		4.0		ug/L			07/20/13 03:52	4
1,1-Dichloroethane	ND		4.0		ug/L			07/20/13 03:52	4
1,1-Dichloroethene	ND		4.0		ug/L			07/20/13 03:52	4
1,1-Dichloropropene	ND		4.0		ug/L			07/20/13 03:52	4
1,2,3-Trichlorobenzene	ND		4.0		ug/L			07/20/13 03:52	4
1,2,3-Trichloropropane	ND		4.0		ug/L			07/20/13 03:52	4
1,2,4-Trichlorobenzene	ND		4.0		ug/L			07/20/13 03:52	4
1,2,4-Trimethylbenzene	ND		4.0		ug/L			07/20/13 03:52	4
1,2-Dibromo-3-Chloropropane	ND		20		ug/L			07/20/13 03:52	4
1,2-Dichlorobenzene	ND		4.0		ug/L			07/20/13 03:52	4
1,2-Dichloroethane	ND		4.0		ug/L			07/20/13 03:52	4
1,2-Dichloropropane	ND		4.0		ug/L			07/20/13 03:52	4
1,3,5-Trimethylbenzene	ND		4.0		ug/L			07/20/13 03:52	4
1,3-Dichlorobenzene	ND		4.0		ug/L			07/20/13 03:52	4
1,3-Dichloropropane	ND		4.0		ug/L			07/20/13 03:52	4
1,4-Dichlorobenzene	ND		4.0		ug/L			07/20/13 03:52	4
1,4-Dioxane	ND	*	200		ug/L			07/20/13 03:52	4
2,2-Dichloropropane	ND		4.0		ug/L			07/20/13 03:52	4
2-Butanone (MEK)	**79**	*	40		ug/L			07/20/13 03:52	4
2-Chlorotoluene	ND		4.0		ug/L			07/20/13 03:52	4

Client Sample ID: DUPX2-20130718-01
Date Collected: 07/18/13 00:00
Date Received: 07/19/13 02:30

Lab Sample ID: 480-42273-15
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND		40		ug/L			07/20/13 03:52	4
4-Chlorotoluene	ND		4.0		ug/L			07/20/13 03:52	4
4-Isopropyltoluene	ND		4.0		ug/L			07/20/13 03:52	4
4-Methyl-2-pentanone (MIBK)	ND		40		ug/L			07/20/13 03:52	4
Acetone	ND	*	200		ug/L			07/20/13 03:52	4
Benzene	ND		4.0		ug/L			07/20/13 03:52	4
Bromobenzene	ND		4.0		ug/L			07/20/13 03:52	4
Bromoform	ND		4.0		ug/L			07/20/13 03:52	4
Bromomethane	ND		8.0		ug/L			07/20/13 03:52	4
Carbon disulfide	ND		40		ug/L			07/20/13 03:52	4
Carbon tetrachloride	ND		4.0		ug/L			07/20/13 03:52	4
Chlorobenzene	ND		4.0		ug/L			07/20/13 03:52	4
Chlorobromomethane	ND		4.0		ug/L			07/20/13 03:52	4
Chlorodibromomethane	ND		2.0		ug/L			07/20/13 03:52	4
Chloroethane	ND		8.0		ug/L			07/20/13 03:52	4
Chloroform	ND		4.0		ug/L			07/20/13 03:52	4
Chloromethane	ND		8.0		ug/L			07/20/13 03:52	4
cis-1,2-Dichloroethene	**230**		4.0		ug/L			07/20/13 03:52	4
cis-1,3-Dichloropropene	ND		1.6		ug/L			07/20/13 03:52	4
Dichlorobromomethane	ND		2.0		ug/L			07/20/13 03:52	4
Dichlorodifluoromethane	ND	*	4.0		ug/L			07/20/13 03:52	4
Ethyl ether	ND		4.0		ug/L			07/20/13 03:52	4
Ethylbenzene	ND		4.0		ug/L			07/20/13 03:52	4
Ethylene Dibromide	ND		4.0		ug/L			07/20/13 03:52	4
Hexachlorobutadiene	ND		1.6		ug/L			07/20/13 03:52	4
Isopropyl ether	ND		40		ug/L			07/20/13 03:52	4
Isopropylbenzene	ND		4.0		ug/L			07/20/13 03:52	4
Methyl tert-butyl ether	ND		4.0		ug/L			07/20/13 03:52	4
Methylene Chloride	ND		4.0		ug/L			07/20/13 03:52	4
m-Xylene & p-Xylene	**10**		8.0		ug/L			07/20/13 03:52	4
Naphthalene	ND		20		ug/L			07/20/13 03:52	4
n-Butylbenzene	ND		4.0		ug/L			07/20/13 03:52	4
N-Propylbenzene	ND		4.0		ug/L			07/20/13 03:52	4
o-Xylene	ND		4.0		ug/L			07/20/13 03:52	4
sec-Butylbenzene	ND		4.0		ug/L			07/20/13 03:52	4
Styrene	ND		4.0		ug/L			07/20/13 03:52	4
Tert-amyl methyl ether	ND		20		ug/L			07/20/13 03:52	4
Tert-butyl ethyl ether	ND		20		ug/L			07/20/13 03:52	4
tert-Butylbenzene	ND		4.0		ug/L			07/20/13 03:52	4
Tetrachloroethene	ND		4.0		ug/L			07/20/13 03:52	4
Tetrahydrofuran	ND		40		ug/L			07/20/13 03:52	4
Toluene	**18**		4.0		ug/L			07/20/13 03:52	4
trans-1,2-Dichloroethene	ND		4.0		ug/L			07/20/13 03:52	4
trans-1,3-Dichloropropene	ND		1.6		ug/L			07/20/13 03:52	4
Trichloroethene	ND		4.0		ug/L			07/20/13 03:52	4
Trichlorofluoromethane	ND		4.0		ug/L			07/20/13 03:52	4
Vinyl chloride	**150**		4.0		ug/L			07/20/13 03:52	4
Dibromomethane	ND		4.0		ug/L			07/20/13 03:52	4

Client Sample ID: DUPX2-20130718-01

Lab Sample ID: 480-42273-15

Date Collected: 07/18/13 00:00

Matrix: Water

Date Received: 07/19/13 02:30

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*98*		*70 - 130*		*07/20/13 03:52*	*4*
1,2-Dichloroethane-d4 (Surr)	*107*		*70 - 130*		*07/20/13 03:52*	*4*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*		*07/20/13 03:52*	*4*

Client Sample ID: Trip Blanks

Lab Sample ID: 480-42273-16

Date Collected: 07/18/13 00:00

Matrix: Water

Date Received: 07/19/13 02:30

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			07/19/13 16:02	1
1,1,1-Trichloroethane	ND		1.0		ug/L			07/19/13 16:02	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			07/19/13 16:02	1
1,1,2-Trichloroethane	ND		1.0		ug/L			07/19/13 16:02	1
1,1-Dichloroethane	ND		1.0		ug/L			07/19/13 16:02	1
1,1-Dichloroethene	ND		1.0		ug/L			07/19/13 16:02	1
1,1-Dichloropropene	ND		1.0		ug/L			07/19/13 16:02	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			07/19/13 16:02	1
1,2,3-Trichloropropane	ND		1.0		ug/L			07/19/13 16:02	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			07/19/13 16:02	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			07/19/13 16:02	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			07/19/13 16:02	1
1,2-Dichlorobenzene	ND		1.0		ug/L			07/19/13 16:02	1
1,2-Dichloroethane	ND		1.0		ug/L			07/19/13 16:02	1
1,2-Dichloropropane	ND		1.0		ug/L			07/19/13 16:02	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			07/19/13 16:02	1
1,3-Dichlorobenzene	ND		1.0		ug/L			07/19/13 16:02	1
1,3-Dichloropropane	ND		1.0		ug/L			07/19/13 16:02	1
1,4-Dichlorobenzene	ND		1.0		ug/L			07/19/13 16:02	1
1,4-Dioxane	ND	*	50		ug/L			07/19/13 16:02	1
2,2-Dichloropropane	ND		1.0		ug/L			07/19/13 16:02	1
2-Butanone (MEK)	ND	*	10		ug/L			07/19/13 16:02	1
2-Chlorotoluene	ND		1.0		ug/L			07/19/13 16:02	1
2-Hexanone	ND		10		ug/L			07/19/13 16:02	1
4-Chlorotoluene	ND		1.0		ug/L			07/19/13 16:02	1
4-Isopropyltoluene	ND		1.0		ug/L			07/19/13 16:02	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			07/19/13 16:02	1
Acetone	ND		50		ug/L			07/19/13 16:02	1
Benzene	ND		1.0		ug/L			07/19/13 16:02	1
Bromobenzene	ND		1.0		ug/L			07/19/13 16:02	1
Bromoform	ND		1.0		ug/L			07/19/13 16:02	1
Bromomethane	ND		2.0		ug/L			07/19/13 16:02	1
Carbon disulfide	ND		10		ug/L			07/19/13 16:02	1
Carbon tetrachloride	ND		1.0		ug/L			07/19/13 16:02	1
Chlorobenzene	ND		1.0		ug/L			07/19/13 16:02	1
Chlorobromomethane	ND		1.0		ug/L			07/19/13 16:02	1
Chlorodibromomethane	ND		0.50		ug/L			07/19/13 16:02	1
Chloroethane	ND		2.0		ug/L			07/19/13 16:02	1
Chloroform	ND		1.0		ug/L			07/19/13 16:02	1
Chloromethane	ND		2.0		ug/L			07/19/13 16:02	1

Client Sample ID: Trip Blanks

Lab Sample ID: 480-42273-16

Date Collected: 07/18/13 00:00

Matrix: Water

Date Received: 07/19/13 02:30

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		1.0		ug/L			07/19/13 16:02	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			07/19/13 16:02	1
Dichlorobromomethane	ND		0.50		ug/L			07/19/13 16:02	1
Dichlorodifluoromethane	ND		1.0		ug/L			07/19/13 16:02	1
Ethyl ether	ND		1.0		ug/L			07/19/13 16:02	1
Ethylbenzene	ND		1.0		ug/L			07/19/13 16:02	1
Ethylene Dibromide	ND		1.0		ug/L			07/19/13 16:02	1
Hexachlorobutadiene	ND		0.40		ug/L			07/19/13 16:02	1
Isopropyl ether	ND		10		ug/L			07/19/13 16:02	1
Isopropylbenzene	ND		1.0		ug/L			07/19/13 16:02	1
Methyl tert-butyl ether	ND		1.0		ug/L			07/19/13 16:02	1
Methylene Chloride	ND		1.0		ug/L			07/19/13 16:02	1
m-Xylene & p-Xylene	ND		2.0		ug/L			07/19/13 16:02	1
Naphthalene	ND		5.0		ug/L			07/19/13 16:02	1
n-Butylbenzene	ND		1.0		ug/L			07/19/13 16:02	1
N-Propylbenzene	ND		1.0		ug/L			07/19/13 16:02	1
o-Xylene	ND		1.0		ug/L			07/19/13 16:02	1
sec-Butylbenzene	ND		1.0		ug/L			07/19/13 16:02	1
Styrene	ND		1.0		ug/L			07/19/13 16:02	1
Tert-amyl methyl ether	ND		5.0		ug/L			07/19/13 16:02	1
Tert-butyl ethyl ether	ND		5.0		ug/L			07/19/13 16:02	1
tert-Butylbenzene	ND		1.0		ug/L			07/19/13 16:02	1
Tetrachloroethene	ND		1.0		ug/L			07/19/13 16:02	1
Tetrahydrofuran	ND		10		ug/L			07/19/13 16:02	1
Toluene	ND		1.0		ug/L			07/19/13 16:02	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			07/19/13 16:02	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			07/19/13 16:02	1
Trichloroethene	ND		1.0		ug/L			07/19/13 16:02	1
Trichlorofluoromethane	ND		1.0		ug/L			07/19/13 16:02	1
Vinyl chloride	ND		1.0		ug/L			07/19/13 16:02	1
Dibromomethane	ND		1.0		ug/L			07/19/13 16:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*100*		*70 - 130*		*07/19/13 16:02*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 130*		*07/19/13 16:02*	*1*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*		*07/19/13 16:02*	*1*

Surrogate Summary

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-42273-1

Method: 8260C - Volatile Organic Compounds (GC/MS)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		TOL	12DCE	BFB
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	(70-130)
480-42273-1	MW-261S-20130717-01	99	103	106
480-42273-2	MW-265M-20130717-01	101	105	106
480-42273-3	MW-267M-20130718-01	100	107	100
480-42273-4	MW-268M-20130718-01	100	101	103
480-42273-5	MW-552-20130717-01	100	104	104
480-42273-5 - DL	MW-552-20130717-01	96	102	101
480-42273-6	MW-561-20130718-01	100	106	103
480-42273-7	MW-562-20130717-01	99	107	103
480-42273-8	MW-563-20130718-01	100	106	105
480-42273-9	REW-1-20130717-01	98	103	101
480-42273-10	REW-6-20130718-01	100	104	103
480-42273-11	REW-7-20130718-01	98	98	100
480-42273-12	REW-8-20130718-01	100	102	104
480-42273-13	REW-12-20130718-01	99	100	99
480-42273-14	DUPX1-20130717-01	99	106	105
480-42273-15	DUPX2-20130718-01	98	107	106
480-42273-16	Trip Blanks	100	102	101
LCS 480-129639/5	Lab Control Sample	101	101	107
LCS 480-129686/5	Lab Control Sample	100	104	101
LCS 480-129793/4	Lab Control Sample	101	109	107
LCS 480-129923/5	Lab Control Sample	99	103	104
LCSD 480-129639/6	Lab Control Sample Dup	100	106	106
LCSD 480-129686/6	Lab Control Sample Dup	99	104	101
LCSD 480-129793/5	Lab Control Sample Dup	102	102	106
LCSD 480-129923/6	Lab Control Sample Dup	99	104	104
MB 480-129639/8	Method Blank	98	100	104
MB 480-129686/8	Method Blank	100	99	102
MB 480-129793/7	Method Blank	99	104	103
MB 480-129923/8	Method Blank	101	104	104

Surrogate Legend

TOL = Toluene-d8 (Surr)
12DCE = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)

Method: 8260C - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-129639/8
Matrix: Water
Analysis Batch: 129639

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			07/19/13 11:49	1
1,1,1-Trichloroethane	ND		1.0		ug/L			07/19/13 11:49	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			07/19/13 11:49	1
1,1,2-Trichloroethane	ND		1.0		ug/L			07/19/13 11:49	1
1,1-Dichloroethane	ND		1.0		ug/L			07/19/13 11:49	1
1,1-Dichloroethene	ND		1.0		ug/L			07/19/13 11:49	1
1,1-Dichloropropene	ND		1.0		ug/L			07/19/13 11:49	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			07/19/13 11:49	1
1,2,3-Trichloropropane	ND		1.0		ug/L			07/19/13 11:49	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			07/19/13 11:49	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			07/19/13 11:49	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			07/19/13 11:49	1
1,2-Dichlorobenzene	ND		1.0		ug/L			07/19/13 11:49	1
1,2-Dichloroethane	ND		1.0		ug/L			07/19/13 11:49	1
1,2-Dichloropropane	ND		1.0		ug/L			07/19/13 11:49	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			07/19/13 11:49	1
1,3-Dichlorobenzene	ND		1.0		ug/L			07/19/13 11:49	1
1,3-Dichloropropane	ND		1.0		ug/L			07/19/13 11:49	1
1,4-Dichlorobenzene	ND		1.0		ug/L			07/19/13 11:49	1
1,4-Dioxane	ND		50		ug/L			07/19/13 11:49	1
2,2-Dichloropropane	ND		1.0		ug/L			07/19/13 11:49	1
2-Butanone (MEK)	ND		10		ug/L			07/19/13 11:49	1
2-Chlorotoluene	ND		1.0		ug/L			07/19/13 11:49	1
2-Hexanone	ND		10		ug/L			07/19/13 11:49	1
4-Chlorotoluene	ND		1.0		ug/L			07/19/13 11:49	1
4-Isopropyltoluene	ND		1.0		ug/L			07/19/13 11:49	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			07/19/13 11:49	1
Acetone	ND		50		ug/L			07/19/13 11:49	1
Benzene	ND		1.0		ug/L			07/19/13 11:49	1
Bromobenzene	ND		1.0		ug/L			07/19/13 11:49	1
Bromoform	ND		1.0		ug/L			07/19/13 11:49	1
Bromomethane	ND		2.0		ug/L			07/19/13 11:49	1
Carbon disulfide	ND		10		ug/L			07/19/13 11:49	1
Carbon tetrachloride	ND		1.0		ug/L			07/19/13 11:49	1
Chlorobenzene	ND		1.0		ug/L			07/19/13 11:49	1
Chlorobromomethane	ND		1.0		ug/L			07/19/13 11:49	1
Chlorodibromomethane	ND		0.50		ug/L			07/19/13 11:49	1
Chloroethane	ND		2.0		ug/L			07/19/13 11:49	1
Chloroform	ND		1.0		ug/L			07/19/13 11:49	1
Chloromethane	ND		2.0		ug/L			07/19/13 11:49	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			07/19/13 11:49	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			07/19/13 11:49	1
Dichlorobromomethane	ND		0.50		ug/L			07/19/13 11:49	1
Dichlorodifluoromethane	ND		1.0		ug/L			07/19/13 11:49	1
Ethyl ether	ND		1.0		ug/L			07/19/13 11:49	1
Ethylbenzene	ND		1.0		ug/L			07/19/13 11:49	1
Ethylene Dibromide	ND		1.0		ug/L			07/19/13 11:49	1
Hexachlorobutadiene	ND		0.40		ug/L			07/19/13 11:49	1

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-129639/8
Matrix: Water
Analysis Batch: 129639

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropyl ether	ND		10		ug/L			07/19/13 11:49	1
Isopropylbenzene	ND		1.0		ug/L			07/19/13 11:49	1
Methyl tert-butyl ether	ND		1.0		ug/L			07/19/13 11:49	1
Methylene Chloride	ND		1.0		ug/L			07/19/13 11:49	1
m-Xylene & p-Xylene	ND		2.0		ug/L			07/19/13 11:49	1
Naphthalene	ND		5.0		ug/L			07/19/13 11:49	1
n-Butylbenzene	ND		1.0		ug/L			07/19/13 11:49	1
N-Propylbenzene	ND		1.0		ug/L			07/19/13 11:49	1
o-Xylene	ND		1.0		ug/L			07/19/13 11:49	1
sec-Butylbenzene	ND		1.0		ug/L			07/19/13 11:49	1
Styrene	ND		1.0		ug/L			07/19/13 11:49	1
Tert-amyl methyl ether	ND		5.0		ug/L			07/19/13 11:49	1
Tert-butyl ethyl ether	ND		5.0		ug/L			07/19/13 11:49	1
tert-Butylbenzene	ND		1.0		ug/L			07/19/13 11:49	1
Tetrachloroethene	ND		1.0		ug/L			07/19/13 11:49	1
Tetrahydrofuran	ND		10		ug/L			07/19/13 11:49	1
Toluene	ND		1.0		ug/L			07/19/13 11:49	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			07/19/13 11:49	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			07/19/13 11:49	1
Trichloroethene	ND		1.0		ug/L			07/19/13 11:49	1
Trichlorofluoromethane	ND		1.0		ug/L			07/19/13 11:49	1
Vinyl chloride	ND		1.0		ug/L			07/19/13 11:49	1
Dibromomethane	ND		1.0		ug/L			07/19/13 11:49	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*98*		*70 - 130*		*07/19/13 11:49*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 130*		*07/19/13 11:49*	*1*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*		*07/19/13 11:49*	*1*

Lab Sample ID: LCS 480-129639/5
Matrix: Water
Analysis Batch: 129639

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	25.0	26.5		ug/L		106	70 - 130
1,1,1-Trichloroethane	25.0	26.6		ug/L		106	70 - 130
1,1,2,2-Tetrachloroethane	25.0	23.8		ug/L		95	70 - 130
1,1,2-Trichloroethane	25.0	25.5		ug/L		102	70 - 130
1,1-Dichloroethane	25.0	25.4		ug/L		101	70 - 130
1,1-Dichloroethene	25.0	24.3		ug/L		97	70 - 130
1,1-Dichloropropene	25.0	24.6		ug/L		98	70 - 130
1,2,3-Trichlorobenzene	25.0	22.0		ug/L		88	70 - 130
1,2,3-Trichloropropane	25.0	25.2		ug/L		101	70 - 130
1,2,4-Trichlorobenzene	25.0	23.1		ug/L		92	70 - 130
1,2,4-Trimethylbenzene	25.0	25.3		ug/L		101	70 - 130
1,2-Dibromo-3-Chloropropane	25.0	24.0		ug/L		96	70 - 130
1,2-Dichlorobenzene	25.0	25.4		ug/L		101	70 - 130
1,2-Dichloroethane	25.0	26.3		ug/L		105	70 - 130

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-129639/5
Matrix: Water
Analysis Batch: 129639

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichloropropane	25.0	25.0		ug/L		100	70 - 130
1,3,5-Trimethylbenzene	25.0	25.2		ug/L		101	70 - 130
1,3-Dichlorobenzene	25.0	24.7		ug/L		99	70 - 130
1,3-Dichloropropane	25.0	25.1		ug/L		101	70 - 130
1,4-Dichlorobenzene	25.0	25.1		ug/L		101	70 - 130
1,4-Dioxane	1000	1140		ug/L		114	70 - 130
2,2-Dichloropropane	25.0	24.9		ug/L		99	70 - 130
2-Butanone (MEK)	125	180	*	ug/L		144	70 - 130
2-Chlorotoluene	25.0	25.2		ug/L		101	70 - 130
2-Hexanone	125	131		ug/L		105	70 - 130
4-Chlorotoluene	25.0	25.1		ug/L		100	70 - 130
4-Isopropyltoluene	25.0	25.8		ug/L		103	70 - 130
4-Methyl-2-pentanone (MIBK)	125	126		ug/L		101	70 - 130
Acetone	125	130		ug/L		104	70 - 130
Benzene	25.0	24.8		ug/L		99	70 - 130
Bromobenzene	25.0	23.2		ug/L		93	70 - 130
Bromoform	25.0	26.2		ug/L		105	70 - 130
Bromomethane	25.0	27.8		ug/L		111	70 - 130
Carbon disulfide	25.0	23.7		ug/L		95	70 - 130
Carbon tetrachloride	25.0	28.7		ug/L		115	70 - 130
Chlorobenzene	25.0	25.8		ug/L		103	70 - 130
Chlorobromomethane	25.0	25.7		ug/L		103	70 - 130
Chlorodibromomethane	25.0	26.9		ug/L		107	70 - 130
Chloroethane	25.0	26.3		ug/L		105	70 - 130
Chloroform	25.0	24.8		ug/L		99	70 - 130
Chloromethane	25.0	23.6		ug/L		94	70 - 130
cis-1,2-Dichloroethene	25.0	25.9		ug/L		104	70 - 130
cis-1,3-Dichloropropene	25.0	25.4		ug/L		102	70 - 130
Dichlorobromomethane	25.0	25.0		ug/L		100	70 - 130
Dichlorodifluoromethane	50.0	51.1		ug/L		102	70 - 130
Ethyl ether	25.0	26.4		ug/L		105	70 - 130
Ethylbenzene	25.0	25.6		ug/L		102	70 - 130
Ethylene Dibromide	25.0	25.6		ug/L		103	70 - 130
Hexachlorobutadiene	25.0	23.3		ug/L		93	70 - 130
Isopropyl ether	25.0	26.5		ug/L		106	70 - 130
Isopropylbenzene	25.0	25.2		ug/L		101	70 - 130
Methyl tert-butyl ether	25.0	24.2		ug/L		97	70 - 130
Methylene Chloride	25.0	24.3		ug/L		97	70 - 130
m-Xylene & p-Xylene	50.0	53.2		ug/L		106	70 - 130
Naphthalene	25.0	24.2		ug/L		97	70 - 130
n-Butylbenzene	25.0	25.3		ug/L		101	70 - 130
N-Propylbenzene	25.0	25.2		ug/L		101	70 - 130
o-Xylene	25.0	25.6		ug/L		102	70 - 130
sec-Butylbenzene	25.0	25.5		ug/L		102	70 - 130
Styrene	25.0	25.8		ug/L		103	70 - 130
Tert-amyl methyl ether	25.0	25.4		ug/L		102	70 - 130
Tert-butyl ethyl ether	25.0	26.5		ug/L		106	70 - 130
tert-Butylbenzene	25.0	25.1		ug/L		100	70 - 130

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-129639/5
Matrix: Water
Analysis Batch: 129639

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Tetrachloroethene	25.0	27.9		ug/L		112	70 - 130
Tetrahydrofuran	125	125		ug/L		100	70 - 130
Toluene	25.0	25.8		ug/L		103	70 - 130
trans-1,2-Dichloroethene	25.0	25.3		ug/L		101	70 - 130
trans-1,3-Dichloropropene	25.0	24.6		ug/L		99	70 - 130
Trichloroethene	25.0	25.0		ug/L		100	70 - 130
Trichlorofluoromethane	25.0	28.3		ug/L		113	70 - 130
Vinyl chloride	25.0	23.7		ug/L		95	70 - 130
Dibromomethane	25.0	24.8		ug/L		99	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*101*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 130*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*

Lab Sample ID: LCSD 480-129639/6
Matrix: Water
Analysis Batch: 129639

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	25.0	26.7		ug/L		107	70 - 130	1	20
1,1,1-Trichloroethane	25.0	27.1		ug/L		108	70 - 130	2	20
1,1,2,2-Tetrachloroethane	25.0	24.2		ug/L		97	70 - 130	2	20
1,1,2-Trichloroethane	25.0	24.1		ug/L		96	70 - 130	6	20
1,1-Dichloroethane	25.0	26.2		ug/L		105	70 - 130	3	20
1,1-Dichloroethene	25.0	25.3		ug/L		101	70 - 130	4	20
1,1-Dichloropropene	25.0	25.3		ug/L		101	70 - 130	3	20
1,2,3-Trichlorobenzene	25.0	23.0		ug/L		92	70 - 130	4	20
1,2,3-Trichloropropane	25.0	25.2		ug/L		101	70 - 130	0	20
1,2,4-Trichlorobenzene	25.0	23.6		ug/L		94	70 - 130	2	20
1,2,4-Trimethylbenzene	25.0	24.5		ug/L		98	70 - 130	3	20
1,2-Dibromo-3-Chloropropane	25.0	23.9		ug/L		96	70 - 130	0	20
1,2-Dichlorobenzene	25.0	24.8		ug/L		99	70 - 130	2	20
1,2-Dichloroethane	25.0	26.3		ug/L		105	70 - 130	0	20
1,2-Dichloropropane	25.0	25.3		ug/L		101	70 - 130	1	20
1,3,5-Trimethylbenzene	25.0	25.0		ug/L		100	70 - 130	1	20
1,3-Dichlorobenzene	25.0	24.8		ug/L		99	70 - 130	0	20
1,3-Dichloropropane	25.0	24.3		ug/L		97	70 - 130	3	20
1,4-Dichlorobenzene	25.0	24.7		ug/L		99	70 - 130	2	20
1,4-Dioxane	1000	1150		ug/L		115	70 - 130	1	20
2,2-Dichloropropane	25.0	24.4		ug/L		97	70 - 130	2	20
2-Butanone (MEK)	125	190	*	ug/L		152	70 - 130	5	20
2-Chlorotoluene	25.0	25.1		ug/L		100	70 - 130	1	20
2-Hexanone	125	128		ug/L		103	70 - 130	2	20
4-Chlorotoluene	25.0	25.3		ug/L		101	70 - 130	1	20
4-Isopropyltoluene	25.0	25.4		ug/L		102	70 - 130	2	20
4-Methyl-2-pentanone (MIBK)	125	126		ug/L		101	70 - 130	0	20
Acetone	125	137		ug/L		110	70 - 130	5	20

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 480-129639/6
Matrix: Water
Analysis Batch: 129639

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	25.0	24.7		ug/L		99	70 - 130	0	20
Bromobenzene	25.0	23.2		ug/L		93	70 - 130	0	20
Bromoform	25.0	26.1		ug/L		105	70 - 130	0	20
Bromomethane	25.0	28.3		ug/L		113	70 - 130	1	20
Carbon disulfide	25.0	23.4		ug/L		94	70 - 130	1	20
Carbon tetrachloride	25.0	28.8		ug/L		115	70 - 130	0	20
Chlorobenzene	25.0	25.3		ug/L		101	70 - 130	2	20
Chlorobromomethane	25.0	26.0		ug/L		104	70 - 130	1	20
Chlorodibromomethane	25.0	25.9		ug/L		104	70 - 130	4	20
Chloroethane	25.0	27.1		ug/L		109	70 - 130	3	20
Chloroform	25.0	25.3		ug/L		101	70 - 130	2	20
Chloromethane	25.0	23.3		ug/L		93	70 - 130	1	20
cis-1,2-Dichloroethene	25.0	26.0		ug/L		104	70 - 130	0	20
cis-1,3-Dichloropropene	25.0	25.8		ug/L		103	70 - 130	1	20
Dichlorobromomethane	25.0	25.4		ug/L		102	70 - 130	2	20
Dichlorodifluoromethane	50.0	50.5		ug/L		101	70 - 130	1	20
Ethyl ether	25.0	27.5		ug/L		110	70 - 130	4	20
Ethylbenzene	25.0	24.5		ug/L		98	70 - 130	4	20
Ethylene Dibromide	25.0	24.9		ug/L		100	70 - 130	3	20
Hexachlorobutadiene	25.0	22.5		ug/L		90	70 - 130	3	20
Isopropyl ether	25.0	27.2		ug/L		109	70 - 130	3	20
Isopropylbenzene	25.0	24.5		ug/L		98	70 - 130	3	20
Methyl tert-butyl ether	25.0	25.7		ug/L		103	70 - 130	6	20
Methylene Chloride	25.0	24.4		ug/L		97	70 - 130	0	20
m-Xylene & p-Xylene	50.0	51.4		ug/L		103	70 - 130	3	20
Naphthalene	25.0	24.7		ug/L		99	70 - 130	2	20
n-Butylbenzene	25.0	24.8		ug/L		99	70 - 130	2	20
N-Propylbenzene	25.0	24.3		ug/L		97	70 - 130	3	20
o-Xylene	25.0	25.5		ug/L		102	70 - 130	0	20
sec-Butylbenzene	25.0	24.9		ug/L		100	70 - 130	2	20
Styrene	25.0	24.9		ug/L		100	70 - 130	3	20
Tert-amyl methyl ether	25.0	26.9		ug/L		108	70 - 130	6	20
Tert-butyl ethyl ether	25.0	27.4		ug/L		109	70 - 130	3	20
tert-Butylbenzene	25.0	25.1		ug/L		101	70 - 130	0	20
Tetrachloroethene	25.0	26.9		ug/L		108	70 - 130	4	20
Tetrahydrofuran	125	132		ug/L		106	70 - 130	6	20
Toluene	25.0	24.9		ug/L		100	70 - 130	4	20
trans-1,2-Dichloroethene	25.0	24.9		ug/L		100	70 - 130	1	20
trans-1,3-Dichloropropene	25.0	24.8		ug/L		99	70 - 130	0	20
Trichloroethene	25.0	25.5		ug/L		102	70 - 130	2	20
Trichlorofluoromethane	25.0	27.7		ug/L		111	70 - 130	2	20
Vinyl chloride	25.0	23.8		ug/L		95	70 - 130	0	20
Dibromomethane	25.0	26.1		ug/L		104	70 - 130	5	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*100*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*106*		*70 - 130*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-129686/8
Matrix: Water
Analysis Batch: 129686

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			07/19/13 12:02	1
1,1,1-Trichloroethane	ND		1.0		ug/L			07/19/13 12:02	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			07/19/13 12:02	1
1,1,2-Trichloroethane	ND		1.0		ug/L			07/19/13 12:02	1
1,1-Dichloroethane	ND		1.0		ug/L			07/19/13 12:02	1
1,1-Dichloroethene	ND		1.0		ug/L			07/19/13 12:02	1
1,1-Dichloropropene	ND		1.0		ug/L			07/19/13 12:02	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			07/19/13 12:02	1
1,2,3-Trichloropropane	ND		1.0		ug/L			07/19/13 12:02	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			07/19/13 12:02	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			07/19/13 12:02	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			07/19/13 12:02	1
1,2-Dichlorobenzene	ND		1.0		ug/L			07/19/13 12:02	1
1,2-Dichloroethane	ND		1.0		ug/L			07/19/13 12:02	1
1,2-Dichloropropane	ND		1.0		ug/L			07/19/13 12:02	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			07/19/13 12:02	1
1,3-Dichlorobenzene	ND		1.0		ug/L			07/19/13 12:02	1
1,3-Dichloropropane	ND		1.0		ug/L			07/19/13 12:02	1
1,4-Dichlorobenzene	ND		1.0		ug/L			07/19/13 12:02	1
1,4-Dioxane	ND		50		ug/L			07/19/13 12:02	1
2,2-Dichloropropane	ND		1.0		ug/L			07/19/13 12:02	1
2-Butanone (MEK)	ND		10		ug/L			07/19/13 12:02	1
2-Chlorotoluene	ND		1.0		ug/L			07/19/13 12:02	1
2-Hexanone	ND		10		ug/L			07/19/13 12:02	1
4-Chlorotoluene	ND		1.0		ug/L			07/19/13 12:02	1
4-Isopropyltoluene	ND		1.0		ug/L			07/19/13 12:02	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			07/19/13 12:02	1
Acetone	ND		50		ug/L			07/19/13 12:02	1
Benzene	ND		1.0		ug/L			07/19/13 12:02	1
Bromobenzene	ND		1.0		ug/L			07/19/13 12:02	1
Bromoform	ND		1.0		ug/L			07/19/13 12:02	1
Bromomethane	ND		2.0		ug/L			07/19/13 12:02	1
Carbon disulfide	ND		10		ug/L			07/19/13 12:02	1
Carbon tetrachloride	ND		1.0		ug/L			07/19/13 12:02	1
Chlorobenzene	ND		1.0		ug/L			07/19/13 12:02	1
Chlorobromomethane	ND		1.0		ug/L			07/19/13 12:02	1
Chlorodibromomethane	ND		0.50		ug/L			07/19/13 12:02	1
Chloroethane	ND		2.0		ug/L			07/19/13 12:02	1
Chloroform	ND		1.0		ug/L			07/19/13 12:02	1
Chloromethane	ND		2.0		ug/L			07/19/13 12:02	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			07/19/13 12:02	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			07/19/13 12:02	1
Dichlorobromomethane	ND		0.50		ug/L			07/19/13 12:02	1
Dichlorodifluoromethane	ND		1.0		ug/L			07/19/13 12:02	1
Ethyl ether	ND		1.0		ug/L			07/19/13 12:02	1
Ethylbenzene	ND		1.0		ug/L			07/19/13 12:02	1
Ethylene Dibromide	ND		1.0		ug/L			07/19/13 12:02	1
Hexachlorobutadiene	ND		0.40		ug/L			07/19/13 12:02	1

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-129686/8
Matrix: Water
Analysis Batch: 129686

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropyl ether	ND		10		ug/L			07/19/13 12:02	1
Isopropylbenzene	ND		1.0		ug/L			07/19/13 12:02	1
Methyl tert-butyl ether	ND		1.0		ug/L			07/19/13 12:02	1
Methylene Chloride	ND		1.0		ug/L			07/19/13 12:02	1
m-Xylene & p-Xylene	ND		2.0		ug/L			07/19/13 12:02	1
Naphthalene	ND		5.0		ug/L			07/19/13 12:02	1
n-Butylbenzene	ND		1.0		ug/L			07/19/13 12:02	1
N-Propylbenzene	ND		1.0		ug/L			07/19/13 12:02	1
o-Xylene	ND		1.0		ug/L			07/19/13 12:02	1
sec-Butylbenzene	ND		1.0		ug/L			07/19/13 12:02	1
Styrene	ND		1.0		ug/L			07/19/13 12:02	1
Tert-amyl methyl ether	ND		5.0		ug/L			07/19/13 12:02	1
Tert-butyl ethyl ether	ND		5.0		ug/L			07/19/13 12:02	1
tert-Butylbenzene	ND		1.0		ug/L			07/19/13 12:02	1
Tetrachloroethene	ND		1.0		ug/L			07/19/13 12:02	1
Tetrahydrofuran	ND		10		ug/L			07/19/13 12:02	1
Toluene	ND		1.0		ug/L			07/19/13 12:02	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			07/19/13 12:02	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			07/19/13 12:02	1
Trichloroethene	ND		1.0		ug/L			07/19/13 12:02	1
Trichlorofluoromethane	ND		1.0		ug/L			07/19/13 12:02	1
Vinyl chloride	ND		1.0		ug/L			07/19/13 12:02	1
Dibromomethane	ND		1.0		ug/L			07/19/13 12:02	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*100*		*70 - 130*		*07/19/13 12:02*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*		*07/19/13 12:02*	*1*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*		*07/19/13 12:02*	*1*

Lab Sample ID: LCS 480-129686/5
Matrix: Water
Analysis Batch: 129686

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	25.0	27.2		ug/L		109	70 - 130
1,1,1-Trichloroethane	25.0	28.3		ug/L		113	70 - 130
1,1,2,2-Tetrachloroethane	25.0	26.5		ug/L		106	70 - 130
1,1,2-Trichloroethane	25.0	26.3		ug/L		105	70 - 130
1,1-Dichloroethane	25.0	27.7		ug/L		111	70 - 130
1,1-Dichloroethene	25.0	27.2		ug/L		109	70 - 130
1,1-Dichloropropene	25.0	28.4		ug/L		114	70 - 130
1,2,3-Trichlorobenzene	25.0	26.4		ug/L		105	70 - 130
1,2,3-Trichloropropane	25.0	26.6		ug/L		106	70 - 130
1,2,4-Trichlorobenzene	25.0	26.7		ug/L		107	70 - 130
1,2,4-Trimethylbenzene	25.0	27.4		ug/L		110	70 - 130
1,2-Dibromo-3-Chloropropane	25.0	23.3		ug/L		93	70 - 130
1,2-Dichlorobenzene	25.0	26.4		ug/L		105	70 - 130
1,2-Dichloroethane	25.0	26.1		ug/L		105	70 - 130

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-129686/5
Matrix: Water
Analysis Batch: 129686

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichloropropane	25.0	27.1		ug/L		108	70 - 130
1,3,5-Trimethylbenzene	25.0	27.5		ug/L		110	70 - 130
1,3-Dichlorobenzene	25.0	26.5		ug/L		106	70 - 130
1,3-Dichloropropane	25.0	26.1		ug/L		104	70 - 130
1,4-Dichlorobenzene	25.0	26.4		ug/L		106	70 - 130
1,4-Dioxane	1000	1550	*	ug/L		155	70 - 130
2,2-Dichloropropane	25.0	29.0		ug/L		116	70 - 130
2-Butanone (MEK)	125	187	*	ug/L		150	70 - 130
2-Chlorotoluene	25.0	28.7		ug/L		115	70 - 130
2-Hexanone	125	131		ug/L		105	70 - 130
4-Chlorotoluene	25.0	28.6		ug/L		114	70 - 130
4-Isopropyltoluene	25.0	28.2		ug/L		113	70 - 130
4-Methyl-2-pentanone (MIBK)	125	132		ug/L		106	70 - 130
Acetone	125	128		ug/L		102	70 - 130
Benzene	25.0	27.1		ug/L		108	70 - 130
Bromobenzene	25.0	26.6		ug/L		106	70 - 130
Bromoform	25.0	26.6		ug/L		106	70 - 130
Bromomethane	25.0	24.6		ug/L		99	70 - 130
Carbon disulfide	25.0	26.4		ug/L		105	70 - 130
Carbon tetrachloride	25.0	28.9		ug/L		115	70 - 130
Chlorobenzene	25.0	26.5		ug/L		106	70 - 130
Chlorobromomethane	25.0	26.8		ug/L		107	70 - 130
Chlorodibromomethane	25.0	26.8		ug/L		107	70 - 130
Chloroethane	25.0	26.8		ug/L		107	70 - 130
Chloroform	25.0	26.4		ug/L		105	70 - 130
Chloromethane	25.0	24.6		ug/L		98	70 - 130
cis-1,2-Dichloroethene	25.0	26.9		ug/L		107	70 - 130
cis-1,3-Dichloropropene	25.0	27.1		ug/L		109	70 - 130
Dichlorobromomethane	25.0	26.8		ug/L		107	70 - 130
Dichlorodifluoromethane	50.0	54.0		ug/L		108	70 - 130
Ethyl ether	25.0	27.8		ug/L		111	70 - 130
Ethylbenzene	25.0	27.3		ug/L		109	70 - 130
Ethylene Dibromide	25.0	26.6		ug/L		107	70 - 130
Hexachlorobutadiene	25.0	27.4		ug/L		109	70 - 130
Isopropyl ether	25.0	27.9		ug/L		111	70 - 130
Isopropylbenzene	25.0	27.9		ug/L		112	70 - 130
Methyl tert-butyl ether	25.0	26.3		ug/L		105	70 - 130
Methylene Chloride	25.0	26.8		ug/L		107	70 - 130
m-Xylene & p-Xylene	50.0	55.0		ug/L		110	70 - 130
Naphthalene	25.0	25.8		ug/L		103	70 - 130
n-Butylbenzene	25.0	28.2		ug/L		113	70 - 130
N-Propylbenzene	25.0	28.0		ug/L		112	70 - 130
o-Xylene	25.0	27.2		ug/L		109	70 - 130
sec-Butylbenzene	25.0	28.3		ug/L		113	70 - 130
Styrene	25.0	27.5		ug/L		110	70 - 130
Tert-amyl methyl ether	25.0	26.5		ug/L		106	70 - 130
Tert-butyl ethyl ether	25.0	26.3		ug/L		105	70 - 130
tert-Butylbenzene	25.0	27.8		ug/L		111	70 - 130

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-129686/5
Matrix: Water
Analysis Batch: 129686

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Tetrachloroethene	25.0	28.5		ug/L		114	70 - 130
Tetrahydrofuran	125	131		ug/L		105	70 - 130
Toluene	25.0	27.2		ug/L		109	70 - 130
trans-1,2-Dichloroethene	25.0	27.3		ug/L		109	70 - 130
trans-1,3-Dichloropropene	25.0	26.1		ug/L		104	70 - 130
Trichloroethene	25.0	26.6		ug/L		106	70 - 130
Trichlorofluoromethane	25.0	25.8		ug/L		103	70 - 130
Vinyl chloride	25.0	25.2		ug/L		101	70 - 130
Dibromomethane	25.0	26.2		ug/L		105	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*100*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*104*		*70 - 130*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*

Lab Sample ID: LCSD 480-129686/6
Matrix: Water
Analysis Batch: 129686

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	25.0	26.3		ug/L		105	70 - 130	3	20
1,1,1-Trichloroethane	25.0	27.3		ug/L		109	70 - 130	4	20
1,1,2,2-Tetrachloroethane	25.0	25.9		ug/L		104	70 - 130	2	20
1,1,2-Trichloroethane	25.0	25.9		ug/L		104	70 - 130	2	20
1,1-Dichloroethane	25.0	26.6		ug/L		107	70 - 130	4	20
1,1-Dichloroethene	25.0	26.5		ug/L		106	70 - 130	3	20
1,1-Dichloropropene	25.0	27.2		ug/L		109	70 - 130	4	20
1,2,3-Trichlorobenzene	25.0	26.8		ug/L		107	70 - 130	2	20
1,2,3-Trichloropropane	25.0	26.3		ug/L		105	70 - 130	1	20
1,2,4-Trichlorobenzene	25.0	26.2		ug/L		105	70 - 130	2	20
1,2,4-Trimethylbenzene	25.0	26.3		ug/L		105	70 - 130	4	20
1,2-Dibromo-3-Chloropropane	25.0	23.7		ug/L		95	70 - 130	2	20
1,2-Dichlorobenzene	25.0	25.7		ug/L		103	70 - 130	2	20
1,2-Dichloroethane	25.0	25.5		ug/L		102	70 - 130	3	20
1,2-Dichloropropane	25.0	26.4		ug/L		105	70 - 130	3	20
1,3,5-Trimethylbenzene	25.0	26.6		ug/L		106	70 - 130	3	20
1,3-Dichlorobenzene	25.0	25.7		ug/L		103	70 - 130	3	20
1,3-Dichloropropane	25.0	25.9		ug/L		104	70 - 130	1	20
1,4-Dichlorobenzene	25.0	25.7		ug/L		103	70 - 130	3	20
1,4-Dioxane	1000	1560	*	ug/L		156	70 - 130	1	20
2,2-Dichloropropane	25.0	27.8		ug/L		111	70 - 130	4	20
2-Butanone (MEK)	125	186	*	ug/L		149	70 - 130	0	20
2-Chlorotoluene	25.0	28.0		ug/L		112	70 - 130	3	20
2-Hexanone	125	131		ug/L		105	70 - 130	1	20
4-Chlorotoluene	25.0	27.1		ug/L		108	70 - 130	5	20
4-Isopropyltoluene	25.0	27.0		ug/L		108	70 - 130	5	20
4-Methyl-2-pentanone (MIBK)	125	129		ug/L		103	70 - 130	2	20
Acetone	125	130		ug/L		104	70 - 130	2	20

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 480-129686/6
Matrix: Water
Analysis Batch: 129686

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	25.0	26.3		ug/L		105	70 - 130	3	20
Bromobenzene	25.0	25.6		ug/L		102	70 - 130	4	20
Bromoform	25.0	26.2		ug/L		105	70 - 130	1	20
Bromomethane	25.0	23.9		ug/L		96	70 - 130	3	20
Carbon disulfide	25.0	25.9		ug/L		103	70 - 130	2	20
Carbon tetrachloride	25.0	27.7		ug/L		111	70 - 130	4	20
Chlorobenzene	25.0	26.2		ug/L		105	70 - 130	1	20
Chlorobromomethane	25.0	27.1		ug/L		108	70 - 130	1	20
Chlorodibromomethane	25.0	26.4		ug/L		106	70 - 130	1	20
Chloroethane	25.0	25.9		ug/L		104	70 - 130	3	20
Chloroform	25.0	26.0		ug/L		104	70 - 130	2	20
Chloromethane	25.0	23.5		ug/L		94	70 - 130	4	20
cis-1,2-Dichloroethene	25.0	25.7		ug/L		103	70 - 130	4	20
cis-1,3-Dichloropropene	25.0	27.0		ug/L		108	70 - 130	1	20
Dichlorobromomethane	25.0	26.4		ug/L		106	70 - 130	1	20
Dichlorodifluoromethane	50.0	51.7		ug/L		103	70 - 130	4	20
Ethyl ether	25.0	27.6		ug/L		110	70 - 130	1	20
Ethylbenzene	25.0	26.1		ug/L		104	70 - 130	5	20
Ethylene Dibromide	25.0	26.3		ug/L		105	70 - 130	1	20
Hexachlorobutadiene	25.0	26.3		ug/L		105	70 - 130	4	20
Isopropyl ether	25.0	27.7		ug/L		111	70 - 130	1	20
Isopropylbenzene	25.0	26.5		ug/L		106	70 - 130	5	20
Methyl tert-butyl ether	25.0	26.1		ug/L		105	70 - 130	1	20
Methylene Chloride	25.0	26.4		ug/L		106	70 - 130	1	20
m-Xylene & p-Xylene	50.0	53.1		ug/L		106	70 - 130	3	20
Naphthalene	25.0	26.7		ug/L		107	70 - 130	4	20
n-Butylbenzene	25.0	27.1		ug/L		108	70 - 130	4	20
N-Propylbenzene	25.0	26.8		ug/L		107	70 - 130	5	20
o-Xylene	25.0	26.3		ug/L		105	70 - 130	3	20
sec-Butylbenzene	25.0	27.2		ug/L		109	70 - 130	4	20
Styrene	25.0	26.5		ug/L		106	70 - 130	4	20
Tert-amyl methyl ether	25.0	26.1		ug/L		105	70 - 130	2	20
Tert-butyl ethyl ether	25.0	26.4		ug/L		105	70 - 130	0	20
tert-Butylbenzene	25.0	26.7		ug/L		107	70 - 130	4	20
Tetrachloroethene	25.0	27.3		ug/L		109	70 - 130	4	20
Tetrahydrofuran	125	133		ug/L		106	70 - 130	1	20
Toluene	25.0	26.2		ug/L		105	70 - 130	4	20
trans-1,2-Dichloroethene	25.0	26.1		ug/L		104	70 - 130	4	20
trans-1,3-Dichloropropene	25.0	25.7		ug/L		103	70 - 130	1	20
Trichloroethene	25.0	25.8		ug/L		103	70 - 130	3	20
Trichlorofluoromethane	25.0	25.1		ug/L		100	70 - 130	3	20
Vinyl chloride	25.0	24.1		ug/L		96	70 - 130	5	20
Dibromomethane	25.0	25.8		ug/L		103	70 - 130	2	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*99*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*104*		*70 - 130*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-129793/7
Matrix: Water
Analysis Batch: 129793

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			07/20/13 00:01	1
1,1,1-Trichloroethane	ND		1.0		ug/L			07/20/13 00:01	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			07/20/13 00:01	1
1,1,2-Trichloroethane	ND		1.0		ug/L			07/20/13 00:01	1
1,1-Dichloroethane	ND		1.0		ug/L			07/20/13 00:01	1
1,1-Dichloroethene	ND		1.0		ug/L			07/20/13 00:01	1
1,1-Dichloropropene	ND		1.0		ug/L			07/20/13 00:01	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			07/20/13 00:01	1
1,2,3-Trichloropropane	ND		1.0		ug/L			07/20/13 00:01	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			07/20/13 00:01	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			07/20/13 00:01	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			07/20/13 00:01	1
1,2-Dichlorobenzene	ND		1.0		ug/L			07/20/13 00:01	1
1,2-Dichloroethane	ND		1.0		ug/L			07/20/13 00:01	1
1,2-Dichloropropane	ND		1.0		ug/L			07/20/13 00:01	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			07/20/13 00:01	1
1,3-Dichlorobenzene	ND		1.0		ug/L			07/20/13 00:01	1
1,3-Dichloropropane	ND		1.0		ug/L			07/20/13 00:01	1
1,4-Dichlorobenzene	ND		1.0		ug/L			07/20/13 00:01	1
1,4-Dioxane	ND		50		ug/L			07/20/13 00:01	1
2,2-Dichloropropane	ND		1.0		ug/L			07/20/13 00:01	1
2-Butanone (MEK)	ND		10		ug/L			07/20/13 00:01	1
2-Chlorotoluene	ND		1.0		ug/L			07/20/13 00:01	1
2-Hexanone	ND		10		ug/L			07/20/13 00:01	1
4-Chlorotoluene	ND		1.0		ug/L			07/20/13 00:01	1
4-Isopropyltoluene	ND		1.0		ug/L			07/20/13 00:01	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			07/20/13 00:01	1
Acetone	ND		50		ug/L			07/20/13 00:01	1
Benzene	ND		1.0		ug/L			07/20/13 00:01	1
Bromobenzene	ND		1.0		ug/L			07/20/13 00:01	1
Bromoform	ND		1.0		ug/L			07/20/13 00:01	1
Bromomethane	ND		2.0		ug/L			07/20/13 00:01	1
Carbon disulfide	ND		10		ug/L			07/20/13 00:01	1
Carbon tetrachloride	ND		1.0		ug/L			07/20/13 00:01	1
Chlorobenzene	ND		1.0		ug/L			07/20/13 00:01	1
Chlorobromomethane	ND		1.0		ug/L			07/20/13 00:01	1
Chlorodibromomethane	ND		0.50		ug/L			07/20/13 00:01	1
Chloroethane	ND		2.0		ug/L			07/20/13 00:01	1
Chloroform	ND		1.0		ug/L			07/20/13 00:01	1
Chloromethane	ND		2.0		ug/L			07/20/13 00:01	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			07/20/13 00:01	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			07/20/13 00:01	1
Dichlorobromomethane	ND		0.50		ug/L			07/20/13 00:01	1
Dichlorodifluoromethane	ND		1.0		ug/L			07/20/13 00:01	1
Ethyl ether	ND		1.0		ug/L			07/20/13 00:01	1
Ethylbenzene	ND		1.0		ug/L			07/20/13 00:01	1
Ethylene Dibromide	ND		1.0		ug/L			07/20/13 00:01	1
Hexachlorobutadiene	ND		0.40		ug/L			07/20/13 00:01	1

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-129793/7
Matrix: Water
Analysis Batch: 129793

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropyl ether	ND		10		ug/L			07/20/13 00:01	1
Isopropylbenzene	ND		1.0		ug/L			07/20/13 00:01	1
Methyl tert-butyl ether	ND		1.0		ug/L			07/20/13 00:01	1
Methylene Chloride	ND		1.0		ug/L			07/20/13 00:01	1
m-Xylene & p-Xylene	ND		2.0		ug/L			07/20/13 00:01	1
Naphthalene	ND		5.0		ug/L			07/20/13 00:01	1
n-Butylbenzene	ND		1.0		ug/L			07/20/13 00:01	1
N-Propylbenzene	ND		1.0		ug/L			07/20/13 00:01	1
o-Xylene	ND		1.0		ug/L			07/20/13 00:01	1
sec-Butylbenzene	ND		1.0		ug/L			07/20/13 00:01	1
Styrene	ND		1.0		ug/L			07/20/13 00:01	1
Tert-amyl methyl ether	ND		5.0		ug/L			07/20/13 00:01	1
Tert-butyl ethyl ether	ND		5.0		ug/L			07/20/13 00:01	1
tert-Butylbenzene	ND		1.0		ug/L			07/20/13 00:01	1
Tetrachloroethene	ND		1.0		ug/L			07/20/13 00:01	1
Tetrahydrofuran	ND		10		ug/L			07/20/13 00:01	1
Toluene	ND		1.0		ug/L			07/20/13 00:01	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			07/20/13 00:01	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			07/20/13 00:01	1
Trichloroethene	ND		1.0		ug/L			07/20/13 00:01	1
Trichlorofluoromethane	ND		1.0		ug/L			07/20/13 00:01	1
Vinyl chloride	ND		1.0		ug/L			07/20/13 00:01	1
Dibromomethane	ND		1.0		ug/L			07/20/13 00:01	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*99*		*70 - 130*		*07/20/13 00:01*	*1*
1,2-Dichloroethane-d4 (Surr)	*104*		*70 - 130*		*07/20/13 00:01*	*1*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*		*07/20/13 00:01*	*1*

Lab Sample ID: LCS 480-129793/4
Matrix: Water
Analysis Batch: 129793

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	25.0	26.8		ug/L		107	70 - 130
1,1,1-Trichloroethane	25.0	26.4		ug/L		105	70 - 130
1,1,2,2-Tetrachloroethane	25.0	24.4		ug/L		98	70 - 130
1,1,2-Trichloroethane	25.0	23.6		ug/L		95	70 - 130
1,1-Dichloroethane	25.0	25.7		ug/L		103	70 - 130
1,1-Dichloroethene	25.0	24.7		ug/L		99	70 - 130
1,1-Dichloropropene	25.0	24.8		ug/L		99	70 - 130
1,2,3-Trichlorobenzene	25.0	23.1		ug/L		92	70 - 130
1,2,3-Trichloropropane	25.0	26.6		ug/L		106	70 - 130
1,2,4-Trichlorobenzene	25.0	22.8		ug/L		91	70 - 130
1,2,4-Trimethylbenzene	25.0	24.4		ug/L		98	70 - 130
1,2-Dibromo-3-Chloropropane	25.0	27.0		ug/L		108	70 - 130
1,2-Dichlorobenzene	25.0	24.7		ug/L		99	70 - 130
1,2-Dichloroethane	25.0	25.9		ug/L		104	70 - 130

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-129793/4
Matrix: Water
Analysis Batch: 129793

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichloropropane	25.0	23.3		ug/L		93	70 - 130
1,3,5-Trimethylbenzene	25.0	24.2		ug/L		97	70 - 130
1,3-Dichlorobenzene	25.0	24.1		ug/L		96	70 - 130
1,3-Dichloropropane	25.0	22.6		ug/L		91	70 - 130
1,4-Dichlorobenzene	25.0	24.0		ug/L		96	70 - 130
1,4-Dioxane	1000	1290		ug/L		129	70 - 130
2,2-Dichloropropane	25.0	24.2		ug/L		97	70 - 130
2-Butanone (MEK)	125	193	*	ug/L		154	70 - 130
2-Chlorotoluene	25.0	24.4		ug/L		98	70 - 130
2-Hexanone	125	130		ug/L		104	70 - 130
4-Chlorotoluene	25.0	24.5		ug/L		98	70 - 130
4-Isopropyltoluene	25.0	24.7		ug/L		99	70 - 130
4-Methyl-2-pentanone (MIBK)	125	132		ug/L		105	70 - 130
Acetone	125	158		ug/L		126	70 - 130
Benzene	25.0	24.4		ug/L		98	70 - 130
Bromobenzene	25.0	22.7		ug/L		91	70 - 130
Bromoform	25.0	24.9		ug/L		99	70 - 130
Bromomethane	25.0	27.0		ug/L		108	70 - 130
Carbon disulfide	25.0	21.0		ug/L		84	70 - 130
Carbon tetrachloride	25.0	27.9		ug/L		112	70 - 130
Chlorobenzene	25.0	23.6		ug/L		95	70 - 130
Chlorobromomethane	25.0	26.6		ug/L		106	70 - 130
Chlorodibromomethane	25.0	24.6		ug/L		98	70 - 130
Chloroethane	25.0	27.7		ug/L		111	70 - 130
Chloroform	25.0	25.2		ug/L		101	70 - 130
Chloromethane	25.0	21.0		ug/L		84	70 - 130
cis-1,2-Dichloroethene	25.0	26.4		ug/L		106	70 - 130
cis-1,3-Dichloropropene	25.0	23.3		ug/L		93	70 - 130
Dichlorobromomethane	25.0	24.4		ug/L		98	70 - 130
Dichlorodifluoromethane	50.0	35.2		ug/L		70	70 - 130
Ethyl ether	25.0	26.7		ug/L		107	70 - 130
Ethylbenzene	25.0	23.6		ug/L		95	70 - 130
Ethylene Dibromide	25.0	24.1		ug/L		96	70 - 130
Hexachlorobutadiene	25.0	23.4		ug/L		93	70 - 130
Isopropyl ether	25.0	26.1		ug/L		104	70 - 130
Isopropylbenzene	25.0	24.3		ug/L		97	70 - 130
Methyl tert-butyl ether	25.0	25.2		ug/L		101	70 - 130
Methylene Chloride	25.0	24.3		ug/L		97	70 - 130
m-Xylene & p-Xylene	50.0	49.3		ug/L		99	70 - 130
Naphthalene	25.0	25.9		ug/L		104	70 - 130
n-Butylbenzene	25.0	24.4		ug/L		97	70 - 130
N-Propylbenzene	25.0	23.8		ug/L		95	70 - 130
o-Xylene	25.0	25.2		ug/L		101	70 - 130
sec-Butylbenzene	25.0	24.2		ug/L		97	70 - 130
Styrene	25.0	23.9		ug/L		95	70 - 130
Tert-amyl methyl ether	25.0	25.1		ug/L		101	70 - 130
Tert-butyl ethyl ether	25.0	25.5		ug/L		102	70 - 130
tert-Butylbenzene	25.0	24.1		ug/L		96	70 - 130

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-129793/4
Matrix: Water
Analysis Batch: 129793

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Tetrachloroethene	25.0	25.5		ug/L		102	70 - 130
Tetrahydrofuran	125	141		ug/L		113	70 - 130
Toluene	25.0	23.8		ug/L		95	70 - 130
trans-1,2-Dichloroethene	25.0	25.3		ug/L		101	70 - 130
trans-1,3-Dichloropropene	25.0	22.1		ug/L		89	70 - 130
Trichloroethene	25.0	25.0		ug/L		100	70 - 130
Trichlorofluoromethane	25.0	28.6		ug/L		114	70 - 130
Vinyl chloride	25.0	22.7		ug/L		91	70 - 130
Dibromomethane	25.0	25.1		ug/L		100	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*101*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*109*		*70 - 130*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*

Lab Sample ID: LCSD 480-129793/5
Matrix: Water
Analysis Batch: 129793

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	25.0	24.6		ug/L		99	70 - 130	8	20
1,1,1-Trichloroethane	25.0	24.9		ug/L		99	70 - 130	6	20
1,1,2,2-Tetrachloroethane	25.0	23.1		ug/L		93	70 - 130	5	20
1,1,2-Trichloroethane	25.0	23.9		ug/L		96	70 - 130	1	20
1,1-Dichloroethane	25.0	23.5		ug/L		94	70 - 130	9	20
1,1-Dichloroethene	25.0	22.8		ug/L		91	70 - 130	8	20
1,1-Dichloropropene	25.0	22.5		ug/L		90	70 - 130	9	20
1,2,3-Trichlorobenzene	25.0	22.1		ug/L		88	70 - 130	4	20
1,2,3-Trichloropropane	25.0	22.7		ug/L		91	70 - 130	16	20
1,2,4-Trichlorobenzene	25.0	22.7		ug/L		91	70 - 130	0	20
1,2,4-Trimethylbenzene	25.0	23.8		ug/L		95	70 - 130	3	20
1,2-Dibromo-3-Chloropropane	25.0	23.4		ug/L		94	70 - 130	14	20
1,2-Dichlorobenzene	25.0	24.2		ug/L		97	70 - 130	2	20
1,2-Dichloroethane	25.0	25.0		ug/L		100	70 - 130	3	20
1,2-Dichloropropane	25.0	23.6		ug/L		94	70 - 130	1	20
1,3,5-Trimethylbenzene	25.0	23.7		ug/L		95	70 - 130	2	20
1,3-Dichlorobenzene	25.0	23.6		ug/L		94	70 - 130	2	20
1,3-Dichloropropane	25.0	23.7		ug/L		95	70 - 130	4	20
1,4-Dichlorobenzene	25.0	23.2		ug/L		93	70 - 130	3	20
1,4-Dioxane	1000	970	*	ug/L		97	70 - 130	28	20
2,2-Dichloropropane	25.0	22.6		ug/L		90	70 - 130	7	20
2-Butanone (MEK)	125	178	*	ug/L		142	70 - 130	8	20
2-Chlorotoluene	25.0	23.3		ug/L		93	70 - 130	5	20
2-Hexanone	125	127		ug/L		101	70 - 130	3	20
4-Chlorotoluene	25.0	23.6		ug/L		94	70 - 130	4	20
4-Isopropyltoluene	25.0	24.4		ug/L		97	70 - 130	1	20
4-Methyl-2-pentanone (MIBK)	125	125		ug/L		100	70 - 130	5	20
Acetone	125	127	*	ug/L		101	70 - 130	22	20

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 480-129793/5
Matrix: Water
Analysis Batch: 129793

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	25.0	23.1		ug/L		93	70 - 130	5	20
Bromobenzene	25.0	22.3		ug/L		89	70 - 130	2	20
Bromoform	25.0	23.8		ug/L		95	70 - 130	4	20
Bromomethane	25.0	25.0		ug/L		100	70 - 130	8	20
Carbon disulfide	25.0	19.7		ug/L		79	70 - 130	6	20
Carbon tetrachloride	25.0	26.3		ug/L		105	70 - 130	6	20
Chlorobenzene	25.0	23.8		ug/L		95	70 - 130	1	20
Chlorobromomethane	25.0	24.0		ug/L		96	70 - 130	10	20
Chlorodibromomethane	25.0	24.5		ug/L		98	70 - 130	1	20
Chloroethane	25.0	23.7		ug/L		95	70 - 130	16	20
Chloroform	25.0	23.2		ug/L		93	70 - 130	8	20
Chloromethane	25.0	19.5		ug/L		78	70 - 130	7	20
cis-1,2-Dichloroethene	25.0	24.0		ug/L		96	70 - 130	10	20
cis-1,3-Dichloropropene	25.0	23.8		ug/L		95	70 - 130	2	20
Dichlorobromomethane	25.0	23.8		ug/L		95	70 - 130	3	20
Dichlorodifluoromethane	50.0	30.5	*	ug/L		61	70 - 130	14	20
Ethyl ether	25.0	24.8		ug/L		99	70 - 130	7	20
Ethylbenzene	25.0	23.5		ug/L		94	70 - 130	0	20
Ethylene Dibromide	25.0	24.0		ug/L		96	70 - 130	0	20
Hexachlorobutadiene	25.0	21.8		ug/L		87	70 - 130	7	20
Isopropyl ether	25.0	25.3		ug/L		101	70 - 130	3	20
Isopropylbenzene	25.0	23.8		ug/L		95	70 - 130	2	20
Methyl tert-butyl ether	25.0	23.6		ug/L		94	70 - 130	7	20
Methylene Chloride	25.0	22.8		ug/L		91	70 - 130	6	20
m-Xylene & p-Xylene	50.0	48.6		ug/L		97	70 - 130	2	20
Naphthalene	25.0	23.6		ug/L		94	70 - 130	9	20
n-Butylbenzene	25.0	23.5		ug/L		94	70 - 130	4	20
N-Propylbenzene	25.0	22.9		ug/L		92	70 - 130	4	20
o-Xylene	25.0	23.8		ug/L		95	70 - 130	6	20
sec-Butylbenzene	25.0	23.6		ug/L		94	70 - 130	2	20
Styrene	25.0	24.0		ug/L		96	70 - 130	1	20
Tert-amyl methyl ether	25.0	24.0		ug/L		96	70 - 130	5	20
Tert-butyl ethyl ether	25.0	24.1		ug/L		97	70 - 130	6	20
tert-Butylbenzene	25.0	23.7		ug/L		95	70 - 130	2	20
Tetrachloroethene	25.0	24.8		ug/L		99	70 - 130	2	20
Tetrahydrofuran	125	124		ug/L		99	70 - 130	13	20
Toluene	25.0	23.6		ug/L		94	70 - 130	1	20
trans-1,2-Dichloroethene	25.0	23.6		ug/L		94	70 - 130	7	20
trans-1,3-Dichloropropene	25.0	23.3		ug/L		93	70 - 130	5	20
Trichloroethene	25.0	23.4		ug/L		94	70 - 130	6	20
Trichlorofluoromethane	25.0	26.1		ug/L		104	70 - 130	9	20
Vinyl chloride	25.0	20.9		ug/L		84	70 - 130	8	20
Dibromomethane	25.0	24.4		ug/L		97	70 - 130	3	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*102*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 130*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-129923/8
Matrix: Water
Analysis Batch: 129923

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			07/22/13 12:15	1
1,1,1-Trichloroethane	ND		1.0		ug/L			07/22/13 12:15	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			07/22/13 12:15	1
1,1,2-Trichloroethane	ND		1.0		ug/L			07/22/13 12:15	1
1,1-Dichloroethane	ND		1.0		ug/L			07/22/13 12:15	1
1,1-Dichloroethene	ND		1.0		ug/L			07/22/13 12:15	1
1,1-Dichloropropene	ND		1.0		ug/L			07/22/13 12:15	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			07/22/13 12:15	1
1,2,3-Trichloropropane	ND		1.0		ug/L			07/22/13 12:15	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			07/22/13 12:15	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			07/22/13 12:15	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			07/22/13 12:15	1
1,2-Dichlorobenzene	ND		1.0		ug/L			07/22/13 12:15	1
1,2-Dichloroethane	ND		1.0		ug/L			07/22/13 12:15	1
1,2-Dichloropropane	ND		1.0		ug/L			07/22/13 12:15	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			07/22/13 12:15	1
1,3-Dichlorobenzene	ND		1.0		ug/L			07/22/13 12:15	1
1,3-Dichloropropane	ND		1.0		ug/L			07/22/13 12:15	1
1,4-Dichlorobenzene	ND		1.0		ug/L			07/22/13 12:15	1
1,4-Dioxane	ND		50		ug/L			07/22/13 12:15	1
2,2-Dichloropropane	ND		1.0		ug/L			07/22/13 12:15	1
2-Butanone (MEK)	ND		10		ug/L			07/22/13 12:15	1
2-Chlorotoluene	ND		1.0		ug/L			07/22/13 12:15	1
2-Hexanone	ND		10		ug/L			07/22/13 12:15	1
4-Chlorotoluene	ND		1.0		ug/L			07/22/13 12:15	1
4-Isopropyltoluene	ND		1.0		ug/L			07/22/13 12:15	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			07/22/13 12:15	1
Acetone	ND		50		ug/L			07/22/13 12:15	1
Benzene	ND		1.0		ug/L			07/22/13 12:15	1
Bromobenzene	ND		1.0		ug/L			07/22/13 12:15	1
Bromoform	ND		1.0		ug/L			07/22/13 12:15	1
Bromomethane	ND		2.0		ug/L			07/22/13 12:15	1
Carbon disulfide	ND		10		ug/L			07/22/13 12:15	1
Carbon tetrachloride	ND		1.0		ug/L			07/22/13 12:15	1
Chlorobenzene	ND		1.0		ug/L			07/22/13 12:15	1
Chlorobromomethane	ND		1.0		ug/L			07/22/13 12:15	1
Chlorodibromomethane	ND		0.50		ug/L			07/22/13 12:15	1
Chloroethane	ND		2.0		ug/L			07/22/13 12:15	1
Chloroform	ND		1.0		ug/L			07/22/13 12:15	1
Chloromethane	ND		2.0		ug/L			07/22/13 12:15	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			07/22/13 12:15	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			07/22/13 12:15	1
Dichlorobromomethane	ND		0.50		ug/L			07/22/13 12:15	1
Dichlorodifluoromethane	ND		1.0		ug/L			07/22/13 12:15	1
Ethyl ether	ND		1.0		ug/L			07/22/13 12:15	1
Ethylbenzene	ND		1.0		ug/L			07/22/13 12:15	1
Ethylene Dibromide	ND		1.0		ug/L			07/22/13 12:15	1
Hexachlorobutadiene	ND		0.40		ug/L			07/22/13 12:15	1

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-129923/8
Matrix: Water
Analysis Batch: 129923

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropyl ether	ND		10		ug/L			07/22/13 12:15	1
Isopropylbenzene	ND		1.0		ug/L			07/22/13 12:15	1
Methyl tert-butyl ether	ND		1.0		ug/L			07/22/13 12:15	1
Methylene Chloride	ND		1.0		ug/L			07/22/13 12:15	1
m-Xylene & p-Xylene	ND		2.0		ug/L			07/22/13 12:15	1
Naphthalene	ND		5.0		ug/L			07/22/13 12:15	1
n-Butylbenzene	ND		1.0		ug/L			07/22/13 12:15	1
N-Propylbenzene	ND		1.0		ug/L			07/22/13 12:15	1
o-Xylene	ND		1.0		ug/L			07/22/13 12:15	1
sec-Butylbenzene	ND		1.0		ug/L			07/22/13 12:15	1
Styrene	ND		1.0		ug/L			07/22/13 12:15	1
Tert-amyl methyl ether	ND		5.0		ug/L			07/22/13 12:15	1
Tert-butyl ethyl ether	ND		5.0		ug/L			07/22/13 12:15	1
tert-Butylbenzene	ND		1.0		ug/L			07/22/13 12:15	1
Tetrachloroethene	ND		1.0		ug/L			07/22/13 12:15	1
Tetrahydrofuran	ND		10		ug/L			07/22/13 12:15	1
Toluene	ND		1.0		ug/L			07/22/13 12:15	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			07/22/13 12:15	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			07/22/13 12:15	1
Trichloroethene	ND		1.0		ug/L			07/22/13 12:15	1
Trichlorofluoromethane	ND		1.0		ug/L			07/22/13 12:15	1
Vinyl chloride	ND		1.0		ug/L			07/22/13 12:15	1
Dibromomethane	ND		1.0		ug/L			07/22/13 12:15	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*101*		*70 - 130*		*07/22/13 12:15*	*1*
1,2-Dichloroethane-d4 (Surr)	*104*		*70 - 130*		*07/22/13 12:15*	*1*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*		*07/22/13 12:15*	*1*

Lab Sample ID: LCS 480-129923/5
Matrix: Water
Analysis Batch: 129923

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	25.0	26.9		ug/L		108	70 - 130
1,1,1-Trichloroethane	25.0	27.3		ug/L		109	70 - 130
1,1,2,2-Tetrachloroethane	25.0	24.1		ug/L		96	70 - 130
1,1,2-Trichloroethane	25.0	23.2		ug/L		93	70 - 130
1,1-Dichloroethane	25.0	25.4		ug/L		102	70 - 130
1,1-Dichloroethene	25.0	25.3		ug/L		101	70 - 130
1,1-Dichloropropene	25.0	24.7		ug/L		99	70 - 130
1,2,3-Trichlorobenzene	25.0	22.8		ug/L		91	70 - 130
1,2,3-Trichloropropane	25.0	25.4		ug/L		102	70 - 130
1,2,4-Trichlorobenzene	25.0	24.2		ug/L		97	70 - 130
1,2,4-Trimethylbenzene	25.0	25.7		ug/L		103	70 - 130
1,2-Dibromo-3-Chloropropane	25.0	23.8		ug/L		95	70 - 130
1,2-Dichlorobenzene	25.0	25.9		ug/L		104	70 - 130
1,2-Dichloroethane	25.0	26.4		ug/L		106	70 - 130

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-129923/5
Matrix: Water
Analysis Batch: 129923

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichloropropane	25.0	25.3		ug/L		101	70 - 130
1,3,5-Trimethylbenzene	25.0	25.5		ug/L		102	70 - 130
1,3-Dichlorobenzene	25.0	25.8		ug/L		103	70 - 130
1,3-Dichloropropane	25.0	23.8		ug/L		95	70 - 130
1,4-Dichlorobenzene	25.0	25.1		ug/L		100	70 - 130
1,4-Dioxane	1000	1090		ug/L		109	70 - 130
2,2-Dichloropropane	25.0	25.0		ug/L		100	70 - 130
2-Butanone (MEK)	125	183	*	ug/L		146	70 - 130
2-Chlorotoluene	25.0	24.7		ug/L		99	70 - 130
2-Hexanone	125	129		ug/L		103	70 - 130
4-Chlorotoluene	25.0	25.0		ug/L		100	70 - 130
4-Isopropyltoluene	25.0	26.3		ug/L		105	70 - 130
4-Methyl-2-pentanone (MIBK)	125	127		ug/L		102	70 - 130
Acetone	125	136		ug/L		109	70 - 130
Benzene	25.0	25.1		ug/L		100	70 - 130
Bromobenzene	25.0	24.2		ug/L		97	70 - 130
Bromoform	25.0	27.0		ug/L		108	70 - 130
Bromomethane	25.0	29.2		ug/L		117	70 - 130
Carbon disulfide	25.0	23.6		ug/L		95	70 - 130
Carbon tetrachloride	25.0	28.2		ug/L		113	70 - 130
Chlorobenzene	25.0	25.1		ug/L		100	70 - 130
Chlorobromomethane	25.0	26.3		ug/L		105	70 - 130
Chlorodibromomethane	25.0	26.1		ug/L		104	70 - 130
Chloroethane	25.0	28.0		ug/L		112	70 - 130
Chloroform	25.0	24.7		ug/L		99	70 - 130
Chloromethane	25.0	23.1		ug/L		92	70 - 130
cis-1,2-Dichloroethene	25.0	25.9		ug/L		104	70 - 130
cis-1,3-Dichloropropene	25.0	26.1		ug/L		105	70 - 130
Dichlorobromomethane	25.0	25.3		ug/L		101	70 - 130
Dichlorodifluoromethane	50.0	49.6		ug/L		99	70 - 130
Ethyl ether	25.0	27.2		ug/L		109	70 - 130
Ethylbenzene	25.0	24.5		ug/L		98	70 - 130
Ethylene Dibromide	25.0	24.4		ug/L		98	70 - 130
Hexachlorobutadiene	25.0	23.4		ug/L		94	70 - 130
Isopropyl ether	25.0	26.7		ug/L		107	70 - 130
Isopropylbenzene	25.0	25.2		ug/L		101	70 - 130
Methyl tert-butyl ether	25.0	25.3		ug/L		101	70 - 130
Methylene Chloride	25.0	24.6		ug/L		98	70 - 130
m-Xylene & p-Xylene	50.0	51.2		ug/L		102	70 - 130
Naphthalene	25.0	25.0		ug/L		100	70 - 130
n-Butylbenzene	25.0	25.6		ug/L		102	70 - 130
N-Propylbenzene	25.0	24.9		ug/L		100	70 - 130
o-Xylene	25.0	24.8		ug/L		99	70 - 130
sec-Butylbenzene	25.0	25.6		ug/L		102	70 - 130
Styrene	25.0	25.0		ug/L		100	70 - 130
Tert-amyl methyl ether	25.0	26.2		ug/L		105	70 - 130
Tert-butyl ethyl ether	25.0	26.7		ug/L		107	70 - 130
tert-Butylbenzene	25.0	26.4		ug/L		106	70 - 130

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-129923/5
Matrix: Water
Analysis Batch: 129923

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Tetrachloroethene	25.0	27.0		ug/L		108	70 - 130
Tetrahydrofuran	125	130		ug/L		104	70 - 130
Toluene	25.0	24.8		ug/L		99	70 - 130
trans-1,2-Dichloroethene	25.0	26.0		ug/L		104	70 - 130
trans-1,3-Dichloropropene	25.0	24.1		ug/L		96	70 - 130
Trichloroethene	25.0	24.7		ug/L		99	70 - 130
Trichlorofluoromethane	25.0	29.1		ug/L		116	70 - 130
Vinyl chloride	25.0	23.6		ug/L		94	70 - 130
Dibromomethane	25.0	25.7		ug/L		103	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*99*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 130*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*

Lab Sample ID: LCSD 480-129923/6
Matrix: Water
Analysis Batch: 129923

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	25.0	25.3		ug/L		101	70 - 130	6	20
1,1,1-Trichloroethane	25.0	26.1		ug/L		105	70 - 130	4	20
1,1,2,2-Tetrachloroethane	25.0	24.4		ug/L		98	70 - 130	1	20
1,1,2-Trichloroethane	25.0	24.3		ug/L		97	70 - 130	5	20
1,1-Dichloroethane	25.0	24.7		ug/L		99	70 - 130	3	20
1,1-Dichloroethene	25.0	23.7		ug/L		95	70 - 130	6	20
1,1-Dichloropropene	25.0	23.6		ug/L		94	70 - 130	5	20
1,2,3-Trichlorobenzene	25.0	23.3		ug/L		93	70 - 130	2	20
1,2,3-Trichloropropane	25.0	24.7		ug/L		99	70 - 130	3	20
1,2,4-Trichlorobenzene	25.0	23.2		ug/L		93	70 - 130	4	20
1,2,4-Trimethylbenzene	25.0	24.9		ug/L		100	70 - 130	3	20
1,2-Dibromo-3-Chloropropane	25.0	26.2		ug/L		105	70 - 130	10	20
1,2-Dichlorobenzene	25.0	24.9		ug/L		100	70 - 130	4	20
1,2-Dichloroethane	25.0	26.3		ug/L		105	70 - 130	0	20
1,2-Dichloropropane	25.0	24.2		ug/L		97	70 - 130	5	20
1,3,5-Trimethylbenzene	25.0	24.9		ug/L		100	70 - 130	2	20
1,3-Dichlorobenzene	25.0	25.0		ug/L		100	70 - 130	3	20
1,3-Dichloropropane	25.0	24.1		ug/L		96	70 - 130	1	20
1,4-Dichlorobenzene	25.0	25.6		ug/L		102	70 - 130	2	20
1,4-Dioxane	1000	1020		ug/L		102	70 - 130	6	20
2,2-Dichloropropane	25.0	24.2		ug/L		97	70 - 130	3	20
2-Butanone (MEK)	125	182	*	ug/L		146	70 - 130	0	20
2-Chlorotoluene	25.0	25.2		ug/L		101	70 - 130	2	20
2-Hexanone	125	130		ug/L		104	70 - 130	1	20
4-Chlorotoluene	25.0	24.9		ug/L		100	70 - 130	1	20
4-Isopropyltoluene	25.0	25.2		ug/L		101	70 - 130	4	20
4-Methyl-2-pentanone (MIBK)	125	129		ug/L		103	70 - 130	2	20
Acetone	125	132		ug/L		105	70 - 130	3	20

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 480-129923/6
Matrix: Water
Analysis Batch: 129923

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	25.0	24.3		ug/L		97	70 - 130	3	20
Bromobenzene	25.0	23.8		ug/L		95	70 - 130	2	20
Bromoform	25.0	26.5		ug/L		106	70 - 130	2	20
Bromomethane	25.0	27.3		ug/L		109	70 - 130	6	20
Carbon disulfide	25.0	22.2		ug/L		89	70 - 130	6	20
Carbon tetrachloride	25.0	27.5		ug/L		110	70 - 130	3	20
Chlorobenzene	25.0	24.4		ug/L		98	70 - 130	3	20
Chlorobromomethane	25.0	25.1		ug/L		100	70 - 130	5	20
Chlorodibromomethane	25.0	26.6		ug/L		106	70 - 130	2	20
Chloroethane	25.0	26.6		ug/L		106	70 - 130	5	20
Chloroform	25.0	23.9		ug/L		96	70 - 130	3	20
Chloromethane	25.0	21.7		ug/L		87	70 - 130	6	20
cis-1,2-Dichloroethene	25.0	24.7		ug/L		99	70 - 130	5	20
cis-1,3-Dichloropropene	25.0	25.4		ug/L		102	70 - 130	3	20
Dichlorobromomethane	25.0	25.6		ug/L		102	70 - 130	1	20
Dichlorodifluoromethane	50.0	46.6		ug/L		93	70 - 130	6	20
Ethyl ether	25.0	25.9		ug/L		104	70 - 130	5	20
Ethylbenzene	25.0	24.1		ug/L		96	70 - 130	2	20
Ethylene Dibromide	25.0	24.9		ug/L		100	70 - 130	2	20
Hexachlorobutadiene	25.0	23.3		ug/L		93	70 - 130	0	20
Isopropyl ether	25.0	26.5		ug/L		106	70 - 130	1	20
Isopropylbenzene	25.0	24.6		ug/L		99	70 - 130	2	20
Methyl tert-butyl ether	25.0	25.4		ug/L		102	70 - 130	0	20
Methylene Chloride	25.0	23.3		ug/L		93	70 - 130	5	20
m-Xylene & p-Xylene	50.0	49.7		ug/L		99	70 - 130	3	20
Naphthalene	25.0	24.7		ug/L		99	70 - 130	1	20
n-Butylbenzene	25.0	24.5		ug/L		98	70 - 130	4	20
N-Propylbenzene	25.0	24.6		ug/L		98	70 - 130	1	20
o-Xylene	25.0	24.4		ug/L		98	70 - 130	2	20
sec-Butylbenzene	25.0	24.7		ug/L		99	70 - 130	3	20
Styrene	25.0	24.6		ug/L		98	70 - 130	2	20
Tert-amyl methyl ether	25.0	26.3		ug/L		105	70 - 130	0	20
Tert-butyl ethyl ether	25.0	26.5		ug/L		106	70 - 130	1	20
tert-Butylbenzene	25.0	25.5		ug/L		102	70 - 130	3	20
Tetrachloroethene	25.0	25.7		ug/L		103	70 - 130	5	20
Tetrahydrofuran	125	130		ug/L		104	70 - 130	1	20
Toluene	25.0	23.8		ug/L		95	70 - 130	4	20
trans-1,2-Dichloroethene	25.0	24.5		ug/L		98	70 - 130	6	20
trans-1,3-Dichloropropene	25.0	24.0		ug/L		96	70 - 130	1	20
Trichloroethene	25.0	23.5		ug/L		94	70 - 130	5	20
Trichlorofluoromethane	25.0	27.0		ug/L		108	70 - 130	7	20
Vinyl chloride	25.0	22.5		ug/L		90	70 - 130	5	20
Dibromomethane	25.0	24.8		ug/L		99	70 - 130	3	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*99*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*104*		*70 - 130*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*

QC Association Summary

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-42273-1

GC/MS VOA

Analysis Batch: 129639

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42273-2	MW-265M-20130717-01	Total/NA	Water	8260C	
480-42273-3	MW-267M-20130718-01	Total/NA	Water	8260C	
480-42273-4	MW-268M-20130718-01	Total/NA	Water	8260C	
480-42273-5	MW-552-20130717-01	Total/NA	Water	8260C	
480-42273-6	MW-561-20130718-01	Total/NA	Water	8260C	
LCS 480-129639/5	Lab Control Sample	Total/NA	Water	8260C	
LCSD 480-129639/6	Lab Control Sample Dup	Total/NA	Water	8260C	
MB 480-129639/8	Method Blank	Total/NA	Water	8260C	

Analysis Batch: 129686

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42273-11	REW-7-20130718-01	Total/NA	Water	8260C	
480-42273-13	REW-12-20130718-01	Total/NA	Water	8260C	
480-42273-16	Trip Blanks	Total/NA	Water	8260C	
LCS 480-129686/5	Lab Control Sample	Total/NA	Water	8260C	
LCSD 480-129686/6	Lab Control Sample Dup	Total/NA	Water	8260C	
MB 480-129686/8	Method Blank	Total/NA	Water	8260C	

Analysis Batch: 129793

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42273-1	MW-261S-20130717-01	Total/NA	Water	8260C	
480-42273-5 - DL	MW-552-20130717-01	Total/NA	Water	8260C	
480-42273-7	MW-562-20130717-01	Total/NA	Water	8260C	
480-42273-8	MW-563-20130718-01	Total/NA	Water	8260C	
480-42273-10	REW-6-20130718-01	Total/NA	Water	8260C	
480-42273-12	REW-8-20130718-01	Total/NA	Water	8260C	
480-42273-14	DUPX1-20130717-01	Total/NA	Water	8260C	
480-42273-15	DUPX2-20130718-01	Total/NA	Water	8260C	
LCS 480-129793/4	Lab Control Sample	Total/NA	Water	8260C	
LCSD 480-129793/5	Lab Control Sample Dup	Total/NA	Water	8260C	
MB 480-129793/7	Method Blank	Total/NA	Water	8260C	

Analysis Batch: 129923

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-42273-9	REW-1-20130717-01	Total/NA	Water	8260C	
LCS 480-129923/5	Lab Control Sample	Total/NA	Water	8260C	
LCSD 480-129923/6	Lab Control Sample Dup	Total/NA	Water	8260C	
MB 480-129923/8	Method Blank	Total/NA	Water	8260C	

Lab Chronicle

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-42273-1

Client Sample ID: MW-261S-20130717-01 — Lab Sample ID: 480-42273-1

Date Collected: 07/17/13 07:35 — **Matrix: Water**
Date Received: 07/19/13 02:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		50	129793	07/20/13 01:06	LCH	TAL BUF

Client Sample ID: MW-265M-20130717-01 — Lab Sample ID: 480-42273-2

Date Collected: 07/17/13 13:20 — **Matrix: Water**
Date Received: 07/19/13 02:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		25	129639	07/19/13 17:54	RAL	TAL BUF

Client Sample ID: MW-267M-20130718-01 — Lab Sample ID: 480-42273-3

Date Collected: 07/18/13 11:25 — **Matrix: Water**
Date Received: 07/19/13 02:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		10	129639	07/19/13 18:18	RAL	TAL BUF

Client Sample ID: MW-268M-20130718-01 — Lab Sample ID: 480-42273-4

Date Collected: 07/18/13 09:50 — **Matrix: Water**
Date Received: 07/19/13 02:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		25	129639	07/19/13 18:41	RAL	TAL BUF

Client Sample ID: MW-552-20130717-01 — Lab Sample ID: 480-42273-5

Date Collected: 07/17/13 08:20 — **Matrix: Water**
Date Received: 07/19/13 02:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		8	129639	07/19/13 19:05	RAL	TAL BUF
Total/NA	Analysis	8260C	DL	50	129793	07/20/13 01:29	LCH	TAL BUF

Client Sample ID: MW-561-20130718-01 — Lab Sample ID: 480-42273-6

Date Collected: 07/18/13 07:15 — **Matrix: Water**
Date Received: 07/19/13 02:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		5	129639	07/19/13 19:28	RAL	TAL BUF

Lab Chronicle

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-42273-1

Client Sample ID: MW-562-20130717-01 — Lab Sample ID: 480-42273-7

Date Collected: 07/17/13 09:15 — **Matrix: Water**
Date Received: 07/19/13 02:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		2	129793	07/20/13 01:53	LCH	TAL BUF

Client Sample ID: MW-563-20130718-01 — Lab Sample ID: 480-42273-8

Date Collected: 07/18/13 08:00 — **Matrix: Water**
Date Received: 07/19/13 02:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		4	129793	07/20/13 02:17	LCH	TAL BUF

Client Sample ID: REW-1-20130717-01 — Lab Sample ID: 480-42273-9

Date Collected: 07/17/13 11:00 — **Matrix: Water**
Date Received: 07/19/13 02:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		20	129923	07/22/13 12:51	RAL	TAL BUF

Client Sample ID: REW-6-20130718-01 — Lab Sample ID: 480-42273-10

Date Collected: 07/18/13 10:45 — **Matrix: Water**
Date Received: 07/19/13 02:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		5	129793	07/20/13 02:40	LCH	TAL BUF

Client Sample ID: REW-7-20130718-01 — Lab Sample ID: 480-42273-11

Date Collected: 07/18/13 12:45 — **Matrix: Water**
Date Received: 07/19/13 02:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		10	129686	07/19/13 13:56	LCH	TAL BUF

Client Sample ID: REW-8-20130718-01 — Lab Sample ID: 480-42273-12

Date Collected: 07/18/13 12:05 — **Matrix: Water**
Date Received: 07/19/13 02:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		5	129793	07/20/13 03:04	LCH	TAL BUF

Lab Chronicle

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-42273-1

Client Sample ID: REW-12-20130718-01 — Lab Sample ID: 480-42273-13

Date Collected: 07/18/13 09:05 — **Matrix: Water**
Date Received: 07/19/13 02:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		4	129686	07/19/13 14:46	LCH	TAL BUF

Client Sample ID: DUPX1-20130717-01 — Lab Sample ID: 480-42273-14

Date Collected: 07/17/13 00:00 — **Matrix: Water**
Date Received: 07/19/13 02:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		2	129793	07/20/13 03:28	LCH	TAL BUF

Client Sample ID: DUPX2-20130718-01 — Lab Sample ID: 480-42273-15

Date Collected: 07/18/13 00:00 — **Matrix: Water**
Date Received: 07/19/13 02:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		4	129793	07/20/13 03:52	LCH	TAL BUF

Client Sample ID: Trip Blanks — Lab Sample ID: 480-42273-16

Date Collected: 07/18/13 00:00 — **Matrix: Water**
Date Received: 07/19/13 02:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	129686	07/19/13 16:02	LCH	TAL BUF

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Certification Summary

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-42273-1

Laboratory: TestAmerica Buffalo

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Arkansas DEQ	State Program	6	88-0686	07-06-13 *
California	NELAP	9	1169CA	09-30-13
Connecticut	State Program	1	PH-0568	09-30-14
Florida	NELAP	4	E87672	06-30-14
Georgia	State Program	4	N/A	03-31-14
Georgia	State Program	4	956	03-31-14
Illinois	NELAP	5	200003	09-30-13
Iowa	State Program	7	374	03-15-15
Kansas	NELAP	7	E-10187	01-31-14
Kentucky	State Program	4	90029	12-31-13
Kentucky (UST)	State Program	4	30	04-01-14
Louisiana	NELAP	6	02031	06-30-14
Maine	State Program	1	NY00044	12-04-13
Maryland	State Program	3	294	03-31-14
Massachusetts	State Program	1	M-NY044	06-30-14
Michigan	State Program	5	9937	04-01-14
Minnesota	NELAP	5	036-999-337	12-31-13
New Hampshire	NELAP	1	2973	09-11-13
New Hampshire	NELAP	1	2337	11-17-13
New Jersey	NELAP	2	NY455	06-30-14
New York	NELAP	2	10026	04-01-14
North Dakota	State Program	8	R-176	03-31-14
Oklahoma	State Program	6	9421	08-31-13 *
Oregon	NELAP	10	NY200003	06-09-14
Pennsylvania	NELAP	3	68-00281	07-31-13 *
Rhode Island	State Program	1	LAO00328	12-31-13
Tennessee	State Program	4	TN02970	04-01-14
Texas	NELAP	6	T104704412-11-2	07-31-13 *
USDA	Federal		P330-11-00386	11-22-14
Virginia	NELAP	3	460185	09-14-13
Washington	State Program	10	C784	02-10-14
West Virginia DEP	State Program	3	252	09-30-13
Wisconsin	State Program	5	998310390	08-31-13 *

* Expired certification is currently pending renewal and is considered valid.

Method Summary

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-42273-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds (GC/MS)	MA DEP	TAL BUF

Protocol References:

MA DEP = Massachusetts Department Of Environmental Protection

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Sample Summary

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-42273-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-42273-1	MW-261S-20130717-01	Water	07/17/13 07:35	07/19/13 02:30
480-42273-2	MW-265M-20130717-01	Water	07/17/13 13:20	07/19/13 02:30
480-42273-3	MW-267M-20130718-01	Water	07/18/13 11:25	07/19/13 02:30
480-42273-4	MW-268M-20130718-01	Water	07/18/13 09:50	07/19/13 02:30
480-42273-5	MW-552-20130717-01	Water	07/17/13 08:20	07/19/13 02:30
480-42273-6	MW-561-20130718-01	Water	07/18/13 07:15	07/19/13 02:30
480-42273-7	MW-562-20130717-01	Water	07/17/13 09:15	07/19/13 02:30
480-42273-8	MW-563-20130718-01	Water	07/18/13 08:00	07/19/13 02:30
480-42273-9	REW-1-20130717-01	Water	07/17/13 11:00	07/19/13 02:30
480-42273-10	REW-6-20130718-01	Water	07/18/13 10:45	07/19/13 02:30
480-42273-11	REW-7-20130718-01	Water	07/18/13 12:45	07/19/13 02:30
480-42273-12	REW-8-20130718-01	Water	07/18/13 12:05	07/19/13 02:30
480-42273-13	REW-12-20130718-01	Water	07/18/13 09:05	07/19/13 02:30
480-42273-14	DUPX1-20130717-01	Water	07/17/13 00:00	07/19/13 02:30
480-42273-15	DUPX2-20130718-01	Water	07/18/13 00:00	07/19/13 02:30
480-42273-16	Trip Blanks	Water	07/18/13 00:00	07/19/13 02:30

Login Sample Receipt Checklist

Client: Innovative Engineering Solutions, Inc

Job Number: 480-42273-1

Login Number: 42273
List Number: 1
Creator: Wienke, Robert K

List Source: TestAmerica Buffalo

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	IESI
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

Chain of Custody Record

Temperature on Receipt _____

Drinking Water? Yes ☐ No ☒

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TAL-4124 (1007)

Client	Project Manager	Date	Chain of Custody Number
Innovative Engineering Solutions Inc	Vicki Peninger		241831
Address	**Telephone Number (Area Code)/Fax Number**	**Lab Number**	**Page 1 of 2**
25 Spring St	508-668-0033		

City	State	Zip Code	Site Contact	Lab Contact
Walpole	MA	02081	V. Peninger	

Project Name and Location (State)	Carrier/Waybill Number
Raytheon Wayland MA	

Contract/Purchase Order/Quote No.: RA-008

Analysis (Attach list if more space is needed): BTEX

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Air	Aqueous	Sed.	Soil		Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH		BTEX	Special Instructions/ Conditions of Receipt
MW-261S-201307 17-01	7/17/13	0735		X							3				X	
MW-263M-201307 17-01	7/17/13	1320		X							3				X	
MW-267M-201307 18-01	7/18/13	1125		X							3				X	
MW-268M-201307 18-01	7/18/13	0950		X							3				X	
MW-55S 201307 17-01	7/17/13	0820		X							3				X	
MW-561-201307 13-01	7/13/13	0715		X							3				X	
MW-562-201307 17-01	7/17/13	0915		X							3				X	
MW-563-201307 18-01	7/13/13	0800		X							3				X	
REW-1-201307 17-01	7/17/13	1100		X							3				X	
REW-6-201307 18-01	7/18/13	1045		X							3				X	
REW-7-201307 18-01	7/18/13	1245		X							3				X	
REW-8-201307 18-01	7/18/13	1205		X							3				X	

Possible Hazard Identification: ☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal: ☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required: ☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☒ 14 Days ☐ 21 Days ☐ Other _____

QC Requirements (Specify)

		Date	Time			Date	Time
1. Relinquished By	IESI	7/18/13	1310	1. Received By	TAL	7/18/13	1310
2. Relinquished By	TAL	7/18/13	1630	2. Received By	TAL	7.19.13	0230
3. Relinquished By				3. Received By			

Comments: 3.7, 7.9 4.4 #1

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

Chain of Custody Record

Temperature on Receipt _____

Drinking Water? Yes ☐ No ☒

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TAL-4124 (1007)

Client: Innovative Engineering Solutions Inc	Project Manager: Vicki Perrigan	Date:	Chain of Custody Number: 241832
Address: 25 Spring St	Telephone Number (Area Code)/Fax Number: 508-668-0033	Lab Number:	Page 2 of 2
City: Walpole; State: MA; Zip Code: 02081	Site Contact: Vicki Perrigan	Lab Contact:	
Project Name and Location (State): RA008 Raytheon Wayland MA	Carrier/Waybill Number:		
Contract/Purchase Order/Quote No.: RA-008			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil		Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH		Analysis (Attach list if more space is needed): 8260B	Special Instructions/ Conditions of Receipt
Blk																
Rec 12-201307 18 -01	7/18/13	0905		X							X3				X	
DupX1-201307 17 -01	—	—		X							X3				X	
DupX2-201307 18 -01	—	—		X							X3				X	
Trip Blank	—	—		X							X3				X	

Possible Hazard Identification: ☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal: ☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required: ☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☒ 14 Days ☐ 21 Days ☐ Other _____

QC Requirements (Specify):

1. Relinquished By	IESI	Date 7/18/13	Time 1310	1. Received By	TAL	Date 7/18/13	Time 1310
2. Relinquished By	TAL	Date 7/18/13	Time 1629	2. Received By	TAL	Date 7.19.13	Time 0230
3. Relinquished By		Date	Time	3. Received By		Date	Time

Comments: 2.7, 2.9, 4.4 #1

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

Raytheon, Wayland, MA
Analytical Report

Well Samples

Prepared By:
BTC
25 Spring Street,
Walpole, MA 02081-4301
Phone (508) 668-0191 • Fax (508) 668-5175

Sampled: 07/17/13-07/18/13
Analyzed: 07/18/13-07/19/13

Bioremediation & Treatability Center

25 Spring Street • Walpole, MA 02081-4301 •phone (508) 668-0191 • fax (508) 668-5175

July 22, 2013

IESI
Sami Fam
Innovative Engineering Solutions, Inc.
25 Spring St.
Walpole, MA 02081-4301

RE: Analytical Data Report
Raytheon
Wayland, MA

Dear Mr. Fam,

Enclosed are the results of the sample(s) submitted to our laboratory on July 18, 2013.

All analyses were performed to our laboratory's quality assurance program. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please call if you have any questions. You may also contact me via email at S.Davis@Biotreatcenter.com

Respectfully submitted,
Bioremediation Treatability Center

Susan Davis

Susan Davis
Lab Director

---Dissolved Gasses---

Project Identification:	Raytheon, Wayland, MA
Sample ID	MW-261 S
Sampler	daj
Sample Date	7/17/13
Sample Time	7:35 AM
Sample Received	7/18/13
Method	Modified EPA 5021 A

Compound	**Test Value**	**Units**	**Detection Limit**	**Analysis Date**	**Tech**
Dissolved Gasses					
Methane	20701	µg/L	0.3 µg/L	7/18/2013	swd
Ethylene	<0.3	µg/L	0.3 µg/L	7/18/2013	swd
Ethane	<0.3	µg/L	0.3 µg/L	7/18/2013	swd
Acetylene	<2	µg/L	2µg/L	7/18/2013	swd

Project Identification:	Raytheon, Wayland, MA
Sample ID	MW-265 M
Sampler	daj
Sample Date	7/17/13
Sample Time	1:20 PM
Sample Received	7/18/13
Method	Modified EPA 5021 A

Compound	**Test Value**	**Units**	**Detection Limit**	**Analysis Date**	**Tech**
Dissolved Gasses					
Methane	23807	µg/L	0.3 µg/L	7/18/2013	swd
Ethylene	<0.3	µg/L	0.3 µg/L	7/18/2013	swd
Ethane	<0.3	µg/L	0.3 µg/L	7/18/2013	swd
Acetylene	<2	µg/L	2µg/L	7/18/2013	swd

---Dissolved Gasses---

Project Identification:	Raytheon, Wayland, MA

Sample ID	MW-267 M
Sampler	daj
Sample Date	7/18/13
Sample Time	11:25 AM
Sample Received	7/18/13
Method	Modified EPA 5021 A

Compound	**Test Value**	**Units**	**Detection Limit**	**Analysis Date**	**Tech**
Dissolved Gasses					
Methane	2650	µg/L	0.3 µg/L	7/18/2013	swd
Ethylene	<0.3	µg/L	0.3 µg/L	7/18/2013	swd
Ethane	<0.3	µg/L	0.3 µg/L	7/18/2013	swd
Acetylene	<2	µg/L	2µg/L	7/18/2013	swd

Project Identification:	Raytheon, Wayland, MA

Sample ID	MW-268 M
Sampler	daj
Sample Date	7/18/13
Sample Time	9:50 AM
Sample Received	7/18/13
Method	Modified EPA 5021 A

Compound	**Test Value**	**Units**	**Detection Limit**	**Analysis Date**	**Tech**
Dissolved Gasses					
Methane	22.0	µg/L	0.3 µg/L	7/18/2013	swd
Ethylene	5.4	µg/L	0.3 µg/L	7/18/2013	swd
Ethane	3.8	µg/L	0.3 µg/L	7/18/2013	swd
Acetylene	<2	µg/L	2µg/L	7/18/2013	swd

---Dissolved Gasses---

Project Identification:	Raytheon, Wayland, MA
Sample ID	MW-552
Sampler	daj
Sample Date	7/17/13
Sample Time	8:20 AM
Sample Received	7/18/13
Method	Modified EPA 5021 A

Compound	**Test Value**	**Units**	**Detection Limit**	**Analysis Date**	**Tech**
Dissoved Gasses					
Methane	26476	µg/L	0.3 µg/L	7/18/2013	swd
Ethylene	<0.3	µg/L	0.3 µg/L	7/18/2013	swd
Ethane	<0.3	µg/L	0.3 µg/L	7/18/2013	swd
Acetylene	<2	µg/L	2µg/L	7/18/2013	swd

Project Identification:	Raytheon, Wayland, MA
Sample ID	MW-561
Sampler	daj
Sample Date	7/18/13
Sample Time	7:15 AM
Sample Received	7/18/13
Method	Modified EPA 5021 A

Compound	**Test Value**	**Units**	**Detection Limit**	**Analysis Date**	**Tech**
Dissolved Gasses					
Methane	5638	µg/L	0.3 µg/L	7/18/2013	swd
Ethylene	403	µg/L	0.3 µg/L	7/18/2013	swd
Ethane	<0.3	µg/L	0.3 µg/L	7/18/2013	swd
Acetylene	<2	µg/L	2µg/L	7/18/2013	swd

---Dissolved Gasses---

Project Identification:	Raytheon, Wayland, MA
Sample ID	MW-562
Sampler	daj
Sample Date	7/17/13
Sample Time	9:15 AM
Sample Received	7/18/13
Method	Modified EPA 5021 A

Compound	**Test Value**	**Units**	**Detection Limit**	**Analysis Date**	**Tech**
Dissolved Gasses					
Methane	28997	µg/L	0.3 µg/L	7/18/2013	swd
Ethylene	<0.3	µg/L	0.3 µg/L	7/18/2013	swd
Ethane	23.8	µg/L	0.3 µg/L	7/18/2013	swd
Acetylene	<2	µg/L	2µg/L	7/18/2013	swd

Project Identification:	Raytheon, Wayland, MA
Sample ID	MW-563
Sampler	daj
Sample Date	7/18/13
Sample Time	8:00 AM
Sample Received	7/18/13
Method	Modified EPA 5021 A

Compound	**Test Value**	**Units**	**Detection Limit**	**Analysis Date**	**Tech**
Dissolved Gasses					
Methane	19753	µg/L	0.3 µg/L	7/18/2013	swd
Ethylene	<0.3	µg/L	0.3 µg/L	7/18/2013	swd
Ethane	<0.3	µg/L	0.3 µg/L	7/18/2013	swd
Acetylene	<2	µg/L	2µg/L	7/18/2013	swd

---Dissolved Gasses---

Project Identification:	Raytheon, Wayland, MA

Sample ID	REW-1
Sampler	daj
Sample Date	7/17/13
Sample Time	11:00 AM
Sample Received	7/18/13
Method	Modified EPA 5021 A

Compound	**Test Value**	**Units**	**Detection Limit**	**Analysis Date**	**Tech**
Dissolved Gasses					
Methane	25218	µg/L	0.3 µg/L	7/18/2013	swd
Ethylene	<0.3	µg/L	0.3 µg/L	7/18/2013	swd
Ethane	<0.3	µg/L	0.3 µg/L	7/18/2013	swd
Acetylene	<2	µg/L	2µg/L	7/18/2013	swd

Project Identification:	Raytheon, Wayland, MA

Sample ID	REW-6
Sampler	daj
Sample Date	7/18/13
Sample Time	10:45 AM
Sample Received	7/18/13
Method	Modified EPA 5021 A

Compound	**Test Value**	**Units**	**Detection Limit**	**Analysis Date**	**Tech**
Dissolved Gasses					
Methane	293	µg/L	0.3 µg/L	7/18/2013	swd
Ethylene	<0.3	µg/L	0.3 µg/L	7/18/2013	swd
Ethane	<0.3	µg/L	0.3 µg/L	7/18/2013	swd
Acetylene	<2	µg/L	2µg/L	7/18/2013	swd

---Dissolved Gasses---

Project Identification:	Raytheon, Wayland, MA

Sample ID	REW-7
Sampler	daj
Sample Date	7/18/13
Sample Time	12:45 PM
Sample Received	7/18/13
Method	Modified EPA 5021 A

Compound	**Test Value**	**Units**	**Detection Limit**	**Analysis Date**	**Tech**
Dissolved Gasses					
Methane	1214	µg/L	0.3 µg/L	7/18/2013	swd
Ethylene	59.4	µg/L	0.3 µg/L	7/18/2013	swd
Ethane	<0.3	µg/L	0.3 µg/L	7/18/2013	swd
Acetylene	<2	µg/L	2µg/L	7/18/2013	swd

Project Identification:	Raytheon, Wayland, MA

Sample ID	REW-8
Sampler	daj
Sample Date	7/18/13
Sample Time	12:05 PM
Sample Received	7/18/13
Method	Modified EPA 5021 A

Compound	**Test Value**	**Units**	**Detection Limit**	**Analysis Date**	**Tech**
Dissolved Gasses					
Methane	3090	µg/L	0.3 µg/L	7/18/2013	swd
Ethylene	<0.3	µg/L	0.3 µg/L	7/18/2013	swd
Ethane	<0.3	µg/L	0.3 µg/L	7/18/2013	swd
Acetylene	<2	µg/L	2µg/L	7/18/2013	swd

---Dissolved Gasses---

Project Identification:	Raytheon, Wayland, MA
Sample ID	REW-12
Sampler	daj
Sample Date	7/18/13
Sample Time	9:05 AM
Sample Received	7/18/13
Method	Modified EPA 5021 A

Compound	**Test Value**	**Units**	**Detection Limit**	**Analysis Date**	**Tech**
Dissolved Gasses					
Methane	328	µg/L	0.3 µg/L	7/18/2013	swd
Ethylene	3.9	µg/L	0.3 µg/L	7/18/2013	swd
Ethane	<0.3	µg/L	0.3 µg/L	7/18/2013	swd
Acetylene	<2	µg/L	2µg/L	7/18/2013	swd

Project Identification:	Raytheon, Wayland, MA
Sample ID	Trip Blank
Sampler	na
Sample Date	na
Sample Time	na
Sample Received	7/18/13
Method	Modified EPA 5021 A

Compound	**Test Value**	**Units**	**Detection Limit**	**Analysis Date**	**Tech**
Dissolved Gasses					
Methane	<0.3	µg/L	0.3 µg/L	7/18/2013	swd
Ethylene	<0.3	µg/L	0.3 µg/L	7/18/2013	swd
Ethane	<0.3	µg/L	0.3 µg/L	7/18/2013	swd
Acetylene	<2	µg/L	2µg/L	7/18/2013	swd

---Anions---

Project Identification:	Raytheon, Wayland, MA

Sample ID	MW-261 S
Sampler	daj
Sample Date	7/17/2013
Sample Time	7:35 AM
Sample Received	7/18/2013

Method Modified EPA 300

Compound	Test Value	Units	Detection Limit	Analysis Date	Tech
Anions					
Chloride	31	mg/L	1 mg/L	7/18/2013	swd
Nitrate	<1	mg/L	1 mg/L	7/18/2013	swd
Sulfate	<1	mg/L	1 mg/L	7/18/2013	swd

Project Identification:	Raytheon, Wayland, MA

Sample ID	MW-265 M
Sampler	daj
Sample Date	7/17/2013
Sample Time	1:20 PM
Sample Received	7/18/2013

Method Modified EPA 300

Compound	Test Value	Units	Detection Limit	Analysis Date	Tech
Anions					
Chloride	23	mg/L	1 mg/L	7/18/2013	swd
Nitrate	<1	mg/L	1 mg/L	7/18/2013	swd
Sulfate	<1	mg/L	1 mg/L	7/18/2013	swd

Project Identification:	Raytheon, Wayland, MA

Sample ID	MW-267 M
Sampler	daj
Sample Date	7/18/2013
Sample Time	11:25 AM
Sample Received	7/18/2013

Method Modified EPA 300

Compound	Test Value	Units	Detection Limit	Analysis Date	Tech
Anions					
Chloride	30	mg/L	1 mg/L	7/18/2013	swd
Nitrate	<1	mg/L	1 mg/L	7/18/2013	swd
Sulfate	<1	mg/L	1 mg/L	7/18/2013	swd

---Anions---

Project Identification:	Raytheon, Wayland, MA

Sample ID	MW-268 M
Sampler	daj
Sample Date	7/18/2013
Sample Time	9:50 AM
Sample Received	7/18/2013

Method Modified EPA 300

Compound	Test Value	Units	Detection Limit	Analysis Date	Tech
Anions					
Chloride	17	mg/L	1 mg/L	7/18/2013	swd
Nitrate	<1	mg/L	1 mg/L	7/18/2013	swd
Sulfate	44	mg/L	1 mg/L	7/18/2013	swd

Project Identification:	Raytheon, Wayland, MA

Sample ID	MW-552
Sampler	daj
Sample Date	7/17/2013
Sample Time	8:20 AM
Sample Received	7/18/2013

Method Modified EPA 300

Compound	Test Value	Units	Detection Limit	Analysis Date	Tech
Anions					
Chloride	20	mg/L	1 mg/L	7/18/2013	swd
Nitrate	<1	mg/L	1 mg/L	7/18/2013	swd
Sulfate	<1	mg/L	1 mg/L	7/18/2013	swd

Project Identification:	Raytheon, Wayland, MA

Sample ID	MW-561
Sampler	daj
Sample Date	7/18/2013
Sample Time	7:15 AM
Sample Received	7/18/2013

Method Modified EPA 300

Compound	Test Value	Units	Detection Limit	Analysis Date	Tech
Anions					
Chloride	35	mg/L	1 mg/L	7/18/2013	swd
Nitrate	<1	mg/L	1 mg/L	7/18/2013	swd
Sulfate	<1	mg/L	1 mg/L	7/18/2013	swd

---Anions---

Project Identification:	Raytheon, Wayland, MA

Sample ID	MW-562
Sampler	daj
Sample Date	7/17/2013
Sample Time	9:15 AM
Sample Received	7/18/2013

Method Modified EPA 300

Compound	Test Value	Units	Detection Limit	Analysis Date	Tech
Anions					
Chloride	34	mg/L	1 mg/L	7/18/2013	swd
Nitrate	<1	mg/L	1 mg/L	7/18/2013	swd
Sulfate	<1	mg/L	1 mg/L	7/18/2013	swd

Project Identification:	Raytheon, Wayland, MA

Sample ID	MW-563
Sampler	daj
Sample Date	7/18/2013
Sample Time	8:00 AM
Sample Received	7/18/2013

Method Modified EPA 300

Compound	Test Value	Units	Detection Limit	Analysis Date	Tech
Anions					
Chloride	38	mg/L	1 mg/L	7/18/2013	swd
Nitrate	<1	mg/L	1 mg/L	7/18/2013	swd
Sulfate	<1	mg/L	1 mg/L	7/18/2013	swd

Project Identification:	Raytheon, Wayland, MA

Sample ID	REW-1
Sampler	daj
Sample Date	7/17/2013
Sample Time	11:00 AM
Sample Received	7/18/2013

Method Modified EPA 300

Compound	Test Value	Units	Detection Limit	Analysis Date	Tech
Anions					
Chloride	17	mg/L	1 mg/L	7/18/2013	swd
Nitrate	<1	mg/L	1 mg/L	7/18/2013	swd
Sulfate	<1	mg/L	1 mg/L	7/18/2013	swd

---Anions---

Project Identification:	Raytheon, Wayland, MA

Sample ID	REW-6
Sampler	daj
Sample Date	7/18/2013
Sample Time	10:45 AM
Sample Received	7/18/2013

Method Modified EPA 300

Compound	Test Value	Units	Detection Limit	Analysis Date	Tech
Anions					
Chloride	43	mg/L	1 mg/L	7/18/2013	swd
Nitrate	<1	mg/L	1 mg/L	7/18/2013	swd
Sulfate	43	mg/L	1 mg/L	7/18/2013	swd

Project Identification:	Raytheon, Wayland, MA

Sample ID	REW-7
Sampler	daj
Sample Date	7/18/2013
Sample Time	12:45 PM
Sample Received	7/18/2013

Method Modified EPA 300

Compound	Test Value	Units	Detection Limit	Analysis Date	Tech
Anions					
Chloride	21	mg/L	1 mg/L	7/18/2013	swd
Nitrate	<1	mg/L	1 mg/L	7/18/2013	swd
Sulfate	23	mg/L	1 mg/L	7/18/2013	swd

Project Identification:	Raytheon, Wayland, MA

Sample ID	REW-8
Sampler	daj
Sample Date	7/18/2013
Sample Time	12:05 PM
Sample Received	7/18/2013

Method Modified EPA 300

Compound	Test Value	Units	Detection Limit	Analysis Date	Tech
Anions					
Chloride	35	mg/L	1 mg/L	7/18/2013	swd
Nitrate	<1	mg/L	1 mg/L	7/18/2013	swd
Sulfate	24	mg/L	1 mg/L	7/18/2013	swd

---Anions---

Project Identification:	Raytheon, Wayland, MA

Sample ID	REW-12
Sampler	daj
Sample Date	7/18/2013
Sample Time	9:05 AM
Sample Received	7/18/2013

Method Modified EPA 300

Compound	Test Value	Units	Detection Limit	Analysis Date	Tech
Anions					
Chloride	33	mg/L	1 mg/L	7/18/2013	swd
Nitrate	<1	mg/L	1 mg/L	7/18/2013	swd
Sulfate	61	mg/L	1 mg/L	7/18/2013	swd

Project Identification:	Raytheon, Wayland, MA

Sample ID	Trip Blank
Sampler	na
Sample Date	na
Sample Time	na
Sample Received	7/18/2013

Method Modified EPA 300

Compound	Test Value	Units	Detection Limit	Analysis Date	Tech
Anions					
Chloride	<1	mg/L	1 mg/L	7/18/2013	swd
Nitrate	<1	mg/L	1 mg/L	7/18/2013	swd
Sulfate	<1	mg/L	1 mg/L	7/18/2013	swd

---Organic Acids---

Project Identification:	Raytheon, Wayland, MA
Sample ID	MW-261 S
Sampler	daj
Sample Date	7/17/2013
Sample Time	7:35 AM
Sample Received	7/18/2013

Method HPLC / Organic Acid Method

Compound	Test Value	Units	Detection Limit	Analysis Date	Tech
Organic Acids					
Lactate	<1	mg/L	1 mg/L	7/18/2013	swd
Acetate	177	mg/L	1 mg/L	7/18/2013	swd
Propionate	<1	mg/L	1 mg/L	7/18/2013	swd
Butyrate	7	mg/L	1 mg/L	7/18/2013	swd

Project Identification:	Raytheon, Wayland, MA
Sample ID	MW-265 M
Sampler	daj
Sample Date	7/17/13
Sample Time	1:20 PM
Sample Received	7/18/13

Method HPLC / Organic Acid Method

Compound	Test Value	Units	Detection Limit	Analysis Date	Tech
Organic Acids					
Lactate	<1	mg/L	1 mg/L	7/18/2013	swd
Acetate	790	mg/L	1 mg/L	7/18/2013	swd
Propionate	13	mg/L	1 mg/L	7/18/2013	swd
Butyrate	27	mg/L	1 mg/L	7/18/2013	swd

Project Identification:	Raytheon, Wayland, MA
Sample ID	MW-267 M
Sampler	daj
Sample Date	7/18/13
Sample Time	11:25 AM
Sample Received	7/18/13

Method HPLC / Organic Acid Method

Compound	Test Value	Units	Detection Limit	Analysis Date	Tech
Organic Acids					
Lactate	<1	mg/L	1 mg/L	7/18/2013	swd
Acetate	377	mg/L	1 mg/L	7/18/2013	swd
Propionate	11	mg/L	1 mg/L	7/18/2013	swd
Butyrate	6	mg/L	1 mg/L	7/18/2013	swd

---Organic Acids---

Project Identification:	Raytheon, Wayland, MA
Sample ID	MW-268 M
Sampler	daj
Sample Date	7/18/13
Sample Time	9:50 AM
Sample Received	7/18/13
Method	HPLC / Organic Acid Method

Compound	**Test Value**	**Units**	**Detection Limit**	**Analysis Date**	**Tech**
Organic Acids					
Lactate	<1	mg/L	1 mg/L	7/18/2013	swd
Acetate	<1	mg/L	1 mg/L	7/18/2013	swd
Propionate	<1	mg/L	1 mg/L	7/18/2013	swd
Butyrate	5	mg/L	1 mg/L	7/18/2013	swd

Project Identification:	Raytheon, Wayland, MA
Sample ID	MW-552
Sampler	daj
Sample Date	7/17/13
Sample Time	8:20 AM
Sample Received	7/18/13
Method	HPLC / Organic Acid Method

Compound	**Test Value**	**Units**	**Detection Limit**	**Analysis Date**	**Tech**
Organic Acids					
Lactate	<1	mg/L	1 mg/L	7/18/2013	swd
Acetate	165	mg/L	1 mg/L	7/18/2013	swd
Propionate	<1	mg/L	1 mg/L	7/18/2013	swd
Butyrate	8	mg/L	1 mg/L	7/18/2013	swd

Project Identification:	Raytheon, Wayland, MA
Sample ID	MW-561
Sampler	daj
Sample Date	7/18/13
Sample Time	7:15 AM
Sample Received	7/18/13
Method	HPLC / Organic Acid Method

Compound	**Test Value**	**Units**	**Detection Limit**	**Analysis Date**	**Tech**
Organic Acids					
Lactate	<1	mg/L	1 mg/L	7/18/2013	swd
Acetate	254	mg/L	1 mg/L	7/18/2013	swd
Propionate	11	mg/L	1 mg/L	7/18/2013	swd
Butyrate	9	mg/L	1 mg/L	7/18/2013	swd

---Organic Acids---

Project Identification:	Raytheon, Wayland, MA
Sample ID	MW-562
Sampler	daj
Sample Date	7/17/13
Sample Time	9:15 AM
Sample Received	7/18/13

Method HPLC / Organic Acid Method

Compound	Test Value	Units	Detection Limit	Analysis Date	Tech
Organic Acids					
Lactate	<1	mg/L	1 mg/L	7/18/2013	swd
Acetate	148	mg/L	1 mg/L	7/18/2013	swd
Propionate	11	mg/L	1 mg/L	7/18/2013	swd
Butyrate	11	mg/L	1 mg/L	7/18/2013	swd

Project Identification:	Raytheon, Wayland, MA
Sample ID	MW-563
Sampler	daj
Sample Date	7/18/13
Sample Time	8:00 AM
Sample Received	7/18/13

Method HPLC / Organic Acid Method

Compound	Test Value	Units	Detection Limit	Analysis Date	Tech
Organic Acids					
Lactate	<1	mg/L	1 mg/L	7/18/2013	swd
Acetate	364	mg/L	1 mg/L	7/18/2013	swd
Propionate	11	mg/L	1 mg/L	7/18/2013	swd
Butyrate	10	mg/L	1 mg/L	7/18/2013	swd

Project Identification:	Raytheon, Wayland, MA
Sample ID	REW-1
Sampler	daj
Sample Date	7/17/13
Sample Time	11:00:00 AM
Sample Received	7/18/13

Method HPLC / Organic Acid Method

Compound	Test Value	Units	Detection Limit	Analysis Date	Tech
Organic Acids					
Lactate	<1	mg/L	1 mg/L	7/18/2013	swd
Acetate	64	mg/L	1 mg/L	7/18/2013	swd
Propionate	<1	mg/L	1 mg/L	7/18/2013	swd
Butyrate	<1	mg/L	1 mg/L	7/18/2013	swd

Bioremediation & Treatability Center

Project Identification:	Raytheon, Wayland, MA
Sample ID	REW-6
Sampler	daj
Sample Date	7/18/13
Sample Time	10:45 AM
Sample Received	7/18/13
Method	HPLC / Organic Acid Method

Compound	**Test Value**	**Units**	**Detection Limit**	**Analysis Date**	**Tech**
Organic Acids					
Lactate	<1	mg/L	1 mg/L	7/18/2013	swd
Acetate	79	mg/L	1 mg/L	7/18/2013	swd
Propionate	<1	mg/L	1 mg/L	7/18/2013	swd
Butyrate	<1	mg/L	1 mg/L	7/18/2013	swd

Project Identification:	Raytheon, Wayland, MA
Sample ID	REW-7
Sampler	daj
Sample Date	7/18/13
Sample Time	12:45 PM
Sample Received	7/18/13
Method	HPLC / Organic Acid Method

Compound	**Test Value**	**Units**	**Detection Limit**	**Analysis Date**	**Tech**
Organic Acids					
Lactate	<1	mg/L	1 mg/L	7/18/2013	swd
Acetate	93	mg/L	1 mg/L	7/18/2013	swd
Propionate	<1	mg/L	1 mg/L	7/18/2013	swd
Butyrate	<1	mg/L	1 mg/L	7/18/2013	swd

Project Identification:	Raytheon, Wayland, MA
Sample ID	REW-8
Sampler	daj
Sample Date	7/18/13
Sample Time	12:05 PM
Sample Received	7/18/13
Method	HPLC / Organic Acid Method

Compound	**Test Value**	**Units**	**Detection Limit**	**Analysis Date**	**Tech**
Organic Acids					
Lactate	<1	mg/L	1 mg/L	7/18/2013	swd
Acetate	112	mg/L	1 mg/L	7/18/2013	swd
Propionate	<1	mg/L	1 mg/L	7/18/2013	swd
Butyrate	<1	mg/L	1 mg/L	7/18/2013	swd

---Organic Acids---

Project Identification:	Raytheon, Wayland, MA
Sample ID	REW-12
Sampler	daj
Sample Date	7/18/13
Sample Time	9:05 AM
Sample Received	7/18/13

Method HPLC / Organic Acid Method

Compound	**Test Value**	**Units**	**Detection Limit**	**Analysis Date**	**Tech**
Organic Acids					
Lactate	<1	mg/L	1 mg/L	7/18/2013	swd
Acetate	30	mg/L	1 mg/L	7/18/2013	swd
Propionate	<1	mg/L	1 mg/L	7/18/2013	swd
Butyrate	<1	mg/L	1 mg/L	7/18/2013	swd

Project Identification:	Raytheon, Wayland, MA
Sample ID	Trip Blank
Sampler	na
Sample Date	na
Sample Time	na
Sample Received	7/18/13

Method HPLC / Organic Acid Method

Compound	**Test Value**	**Units**	**Detection Limit**	**Analysis Date**	**Tech**
Organic Acids					
Lactate	<1	mg/L	1 mg/L	7/18/2013	swd
Acetate	<1	mg/L	1 mg/L	7/18/2013	swd
Propionate	<1	mg/L	1 mg/L	7/18/2013	swd
Butyrate	<1	mg/L	1 mg/L	7/18/2013	swd

---Chemistries---

Project Identification:	Raytheon, Wayland, MA

Sample ID	MW-261 S
Sampler	daj
Sample Date	7/17/2013
Sample Time	7:35 AM
Sample Received	7/18/2013

Chemical Tests	**Test Value**	**Units**	**Method**	**Detection Limit**	**Analysis Date**	**Tech**
Alkalinity	585	mg/L	HACH 8203	5 mg/L	7/18/2013	rdr
Manganese	na	mg/L	HACH 8034	0.12 mg/L	na	na
NH_3-N	0.15	mg/L	HACH 8155	0.02 mg/L	7/18/2013	rdr
PO_4	0.27	mg/L	HACH 8048	0.05 mg/L	7/18/2013	rdr
Sulfide	na	mg/L	HACH 8131	0.01 mg/L	na	na
Total Iron	64.5	mg/L	HACH 8008	0.03 mg/L	7/18/2013	rdr
COD	na	mg/L	HACH 8000	<2 mg/L	na	na
TOC	135	mg/L	EPA 9060A	<0.3 mg/L	7/19/2013	swd
pH	6.90	pH units	pH probe	<0.01 pH units	7/18/2013	rdr

Project Identification:	Raytheon, Wayland, MA

Sample ID	MW-265 M
Sampler	daj
Sample Date	7/17/2013
Sample Time	1:20 PM
Sample Received	7/18/2013

Chemical Tests	**Test Value**	**Units**	**Method**	**Detection Limit**	**Analysis Date**	**Tech**
Alkalinity	470	mg/L	HACH 8203	5 mg/L	7/18/2013	rdr
Manganese	na	mg/L	HACH 8034	0.12 mg/L	na	na
NH_3-N	0.14	mg/L	HACH 8155	0.02 mg/L	7/18/2013	rdr
PO_4	1.80	mg/L	HACH 8048	0.05 mg/L	7/18/2013	rdr
Sulfide	na	mg/L	HACH 8131	0.01 mg/L	na	na
Total Iron	44.0	mg/L	HACH 8008	0.03 mg/L	7/18/2013	rdr
COD	na	mg/L	HACH 8000	<2 mg/L	na	na
TOC	682	mg/L	EPA 9060A	<0.3 mg/L	7/19/2013	swd
pH	5.78	pH units	pH probe	<0.01 pH units	7/18/2013	rdr

---Chemistries---

Bioremediation & Treatability Center

Project Identification: Raytheon, Wayland, MA

Sample ID MW-267 M

Sampler daj
Sample Date 7/18/2013
Sample Time 11:25 AM
Sample Received 7/18/2013

Chemical Tests	Test Value	Units	Method	Detection Limit	Analysis Date	Tech
Alkalinity	280	mg/L	HACH 8203	5 mg/L	7/19/2013	rdr
Manganese	na	mg/L	HACH 8034	0.12 mg/L	na	na
NH_3-N	0.10	mg/L	HACH 8155	0.02 mg/L	7/19/2013	rdr
PO_4	0.80	mg/L	HACH 8048	0.05 mg/L	7/19/2013	rdr
Sulfide	na	mg/L	HACH 8131	0.01 mg/L	na	na
Total Iron	17.0	mg/L	HACH 8008	0.03 mg/L	7/19/2013	rdr
COD	na	mg/L	HACH 8000	<2 mg/L	na	na
TOC	1136	mg/L	EPA 9060A	<0.3 mg/L	7/19/2013	swd
pH	6.46	pH units	pH probe	<0.01 pH units	7/19/2013	rdr

Project Identification: Raytheon, Wayland, MA

Sample ID MW-268 M

Sampler daj
Sample Date 7/18/2013
Sample Time 9:50 AM
Sample Received 7/18/2013

Chemical Tests	Test Value	Units	Method	Detection Limit	Analysis Date	Tech
Alkalinity	100	mg/L	HACH 8203	5 mg/L	7/19/2013	rdr
Manganese	na	mg/L	HACH 8034	0.12 mg/L	na	na
NH_3-N	0.11	mg/L	HACH 8155	0.02 mg/L	7/19/2013	rdr
PO_4	1.21	mg/L	HACH 8048	0.05 mg/L	7/19/2013	rdr
Sulfide	na	mg/L	HACH 8131	0.01 mg/L	na	na
Total Iron	11.9	mg/L	HACH 8008	0.03 mg/L	7/19/2013	rdr
COD	na	mg/L	HACH 8000	<2 mg/L	na	na
TOC	2.2	mg/L	EPA 9060A	<0.3 mg/L	7/19/2013	swd
pH	6.53	pH units	pH probe	<0.01 pH units	7/19/2013	rdr

---Chemistries---

Project Identification:	Raytheon, Wayland, MA

Sample ID	MW-552
Sampler	daj
Sample Date	7/17/2013
Sample Time	8:20 AM
Sample Received	7/18/2013

Chemical Tests	Test Value	Units	Method	Detection Limit	Analysis Date	Tech
Alkalinity	415	mg/L	HACH 8203	5 mg/L	7/18/2013	rdr
Manganese	na	mg/L	HACH 8034	0.12 mg/L	na	na
NH_3-N	0.10	mg/L	HACH 8155	0.02 mg/L	7/18/2013	rdr
PO_4	1.22	mg/L	HACH 8048	0.05 mg/L	7/18/2013	rdr
Sulfide	na	mg/L	HACH 8131	0.01 mg/L	na	na
Total Iron	39.6	mg/L	HACH 8008	0.03 mg/L	7/18/2013	rdr
COD	na	mg/L	HACH 8000	<2 mg/L	na	na
TOC	119	mg/L	EPA 9060A	<0.3 mg/L	7/19/2013	swd
pH	6.80	pH units	pH probe	<0.01 pH units	7/18/2013	rdr

Project Identification:	Raytheon, Wayland, MA

Sample ID	MW-561
Sampler	daj
Sample Date	7/18/2013
Sample Time	7:15 AM
Sample Received	7/18/2013

Chemical Tests	Test Value	Units	Method	Detection Limit	Analysis Date	Tech
Alkalinity	260	mg/L	HACH 8203	5 mg/L	7/19/2013	rdr
Manganese	na	mg/L	HACH 8034	0.12 mg/L	na	na
NH_3-N	0.03	mg/L	HACH 8155	0.02 mg/L	7/19/2013	rdr
PO_4	0.63	mg/L	HACH 8048	0.05 mg/L	7/19/2013	rdr
Sulfide	na	mg/L	HACH 8131	0.01 mg/L	na	na
Total Iron	64.0	mg/L	HACH 8008	0.03 mg/L	7/19/2013	rdr
COD	na	mg/L	HACH 8000	<2 mg/L	na	na
TOC	198	mg/L	EPA 9060A	<0.3 mg/L	7/19/2013	swd
pH	6.59	pH units	pH probe	<0.01 pH units	7/19/2013	rdr

---Chemistries---

Project Identification:	Raytheon, Wayland, MA

Sample ID	MW-562
Sampler	daj
Sample Date	7/17/2013
Sample Time	9:15 AM
Sample Received	7/18/2013

Chemical Tests	**Test Value**	**Units**	**Method**	**Detection Limit**	**Analysis Date**	**Tech**
Alkalinity	380	mg/L	HACH 8203	5 mg/L	7/18/2013	rdr
Manganese	na	mg/L	HACH 8034	0.12 mg/L	na	na
NH_3-N	2.00	mg/L	HACH 8155	0.02 mg/L	7/18/2013	rdr
PO_4	2.41	mg/L	HACH 8048	0.05 mg/L	7/18/2013	rdr
Sulfide	na	mg/L	HACH 8131	0.01 mg/L	na	na
Total Iron	95.0	mg/L	HACH 8008	0.03 mg/L	7/18/2013	rdr
COD	na	mg/L	HACH 8000	<2 mg/L	na	na
TOC	191	mg/L	EPA 9060A	<0.3 mg/L	7/19/2013	swd
pH	6.54	pH units	pH probe	<0.01 pH units	7/18/2013	rdr

Project Identification:	Raytheon, Wayland, MA

Sample ID	MW-563
Sampler	daj
Sample Date	7/18/2013
Sample Time	8:00 AM
Sample Received	7/18/2013

Chemical Tests	**Test Value**	**Units**	**Method**	**Detection Limit**	**Analysis Date**	**Tech**
Alkalinity	300	mg/L	HACH 8203	5 mg/L	7/19/2013	rdr
Manganese	na	mg/L	HACH 8034	0.12 mg/L	na	na
NH_3-N	0.09	mg/L	HACH 8155	0.02 mg/L	7/19/2013	rdr
PO_4	0.14	mg/L	HACH 8048	0.05 mg/L	7/19/2013	rdr
Sulfide	na	mg/L	HACH 8131	0.01 mg/L	na	na
Total Iron	58.8	mg/L	HACH 8008	0.03 mg/L	7/19/2013	rdr
COD	na	mg/L	HACH 8000	<2 mg/L	na	na
TOC	834	mg/L	EPA 9060A	<0.3 mg/L	7/19/2013	swd
pH	6.38	pH units	pH probe	<0.01 pH units	7/19/2013	rdr

---Chemistries---

Project Identification:	Raytheon, Wayland, MA

Sample ID	REW-1
Sampler	daj
Sample Date	7/17/2013
Sample Time	11:00 AM
Sample Received	7/18/2013

Chemical Tests	Test Value	Units	Method	Detection Limit	Analysis Date	Tech
Alkalinity	420	mg/L	HACH 8203	5 mg/L	7/18/2013	rdr
Manganese	na	mg/L	HACH 8034	0.12 mg/L	na	na
NH_3-N	2.00	mg/L	HACH 8155	0.02 mg/L	7/18/2013	rdr
PO_4	1.23	mg/L	HACH 8048	0.05 mg/L	7/18/2013	rdr
Sulfide	na	mg/L	HACH 8131	0.01 mg/L	na	na
Total Iron	24.9	mg/L	HACH 8008	0.03 mg/L	7/18/2013	rdr
COD	na	mg/L	HACH 8000	<2 mg/L	na	na
TOC	37.0	mg/L	EPA 9060A	<0.3 mg/L	7/19/2013	swd
pH	6.75	pH units	pH probe	<0.01 pH units	7/18/2013	rdr

Project Identification:	Raytheon, Wayland, MA

Sample ID	REW-6
Sampler	daj
Sample Date	7/18/2013
Sample Time	10:45 AM
Sample Received	7/18/2013

Chemical Tests	Test Value	Units	Method	Detection Limit	Analysis Date	Tech
Alkalinity	120	mg/L	HACH 8203	5 mg/L	7/19/2013	rdr
Manganese	na	mg/L	HACH 8034	0.12 mg/L	na	na
NH_3-N	0.03	mg/L	HACH 8155	0.02 mg/L	7/19/2013	rdr
PO_4	1.73	mg/L	HACH 8048	0.05 mg/L	7/19/2013	rdr
Sulfide	na	mg/L	HACH 8131	0.01 mg/L	na	na
Total Iron	24.0	mg/L	HACH 8008	0.03 mg/L	7/19/2013	rdr
COD	na	mg/L	HACH 8000	<2 mg/L	na	na
TOC	204	mg/L	EPA 9060A	<0.3 mg/L	7/19/2013	swd
pH	6.53	pH units	pH probe	<0.01 pH units	7/19/2013	rdr

---Chemistries---

Project Identification:	Raytheon, Wayland, MA

Sample ID	REW-7
Sampler	daj
Sample Date	7/18/2013
Sample Time	12:45 PM
Sample Received	7/18/2013

Chemical Tests	Test Value	Units	Method	Detection Limit	Analysis Date	Tech
Alkalinity	160	mg/L	HACH 8203	5 mg/L	7/19/2013	rdr
Manganese	na	mg/L	HACH 8034	0.12 mg/L	na	na
NH_3-N	0.04	mg/L	HACH 8155	0.02 mg/L	7/19/2013	rdr
PO_4	1.49	mg/L	HACH 8048	0.05 mg/L	7/19/2013	rdr
Sulfide	na	mg/L	HACH 8131	0.01 mg/L	na	na
Total Iron	21.7	mg/L	HACH 8008	0.03 mg/L	7/19/2013	rdr
COD	na	mg/L	HACH 8000	<2 mg/L	na	na
TOC	74.6	mg/L	EPA 9060A	<0.3 mg/L	7/19/2013	swd
pH	6.55	pH units	pH probe	<0.01 pH units	7/19/2013	rdr

Project Identification:	Raytheon, Wayland, MA

Sample ID	REW-8
Sampler	daj
Sample Date	7/18/2013
Sample Time	12:05 PM
Sample Received	7/18/2013

Chemical Tests	Test Value	Units	Method	Detection Limit	Analysis Date	Tech
Alkalinity	140	mg/L	HACH 8203	5 mg/L	7/19/2013	rdr
Manganese	na	mg/L	HACH 8034	0.12 mg/L	na	na
NH_3-N	0.05	mg/L	HACH 8155	0.02 mg/L	7/19/2013	rdr
PO_4	1.28	mg/L	HACH 8048	0.05 mg/L	7/19/2013	rdr
Sulfide	na	mg/L	HACH 8131	0.01 mg/L	na	na
Total Iron	20.2	mg/L	HACH 8008	0.03 mg/L	7/19/2013	rdr
COD	na	mg/L	HACH 8000	<2 mg/L	na	na
TOC	81.8	mg/L	EPA 9060A	<0.3 mg/L	7/19/2013	swd
pH	6.41	pH units	pH probe	<0.01 pH units	7/19/2013	rdr

---Chemistries---

Project Identification:	Raytheon, Wayland, MA

Sample ID	REW-12
Sampler	daj
Sample Date	7/18/2013
Sample Time	9:05 AM
Sample Received	7/18/2013

Chemical Tests	Test Value	Units	Method	Detection Limit	Analysis Date	Tech
Alkalinity	100	mg/L	HACH 8203	5 mg/L	7/19/2013	rdr
Manganese	na	mg/L	HACH 8034	0.12 mg/L	na	na
NH_3-N	0.03	mg/L	HACH 8155	0.02 mg/L	7/19/2013	rdr
PO_4	0.97	mg/L	HACH 8048	0.05 mg/L	7/19/2013	rdr
Sulfide	na	mg/L	HACH 8131	0.01 mg/L	na	na
Total Iron	20.3	mg/L	HACH 8008	0.03 mg/L	7/19/2013	rdr
COD	na	mg/L	HACH 8000	<2 mg/L	na	na
TOC	35.2	mg/L	EPA 9060A	<0.3 mg/L	7/19/2013	swd
pH	6.52	pH units	pH probe	<0.01 pH units	7/19/2013	rdr

Project Identification:	Raytheon, Wayland, MA

Sample ID	Trip Blank
Sampler	na
Sample Date	na
Sample Time	na
Sample Received	7/18/2013

Chemical Tests	Test Value	Units	Method	Detection Limit	Analysis Date	Tech
Alkalinity	10	mg/L	HACH 8203	5 mg/L	7/19/2013	rdr
Manganese	na	mg/L	HACH 8034	0.12 mg/L	na	na
NH_3-N	<0.02	mg/L	HACH 8155	0.02 mg/L	7/19/2013	rdr
PO_4	<0.05	mg/L	HACH 8048	0.05 mg/L	7/19/2013	rdr
Sulfide	na	mg/L	HACH 8131	0.01 mg/L	na	na
Total Iron	<0.03	mg/L	HACH 8008	0.03 mg/L	7/19/2013	rdr
COD	na	mg/L	HACH 8000	<2 mg/L	na	na
TOC	<0.3	mg/L	EPA 9060A	<0.3 mg/L	7/19/2013	swd
pH	6.93	pH units	pH probe	<0.01 pH units	7/19/2013	rdr

Project	Raytheon, Wayland, MA						
Date Received		7/18/13	7/18/13	7/18/13	7/18/13	7/18/13	7/18/13
Sample ID		MW-261 S	MW-265 M	MW-267 M	MW-268 M	MW-552	MW-561
Date Sampled		7/17/13	7/17/13	7/18/13	7/18/13	7/17/13	7/18/13

Dissolved Gasses							
Date Analyzed		7/18/13	7/18/13	7/18/13	7/18/13	7/18/13	7/18/13
Sample ID	Units	MW-261 S	MW-265 M	MW-267 M	MW-268 M	MW-552	MW-561
Methane	µg/L	20701	23807	2650	22.0	26476	5638
Ethylene	µg/L	<0.3	<0.3	<0.3	5.4	<0.3	403
Ethane	µg/L	<0.3	<0.3	<0.3	3.8	<0.3	<0.3
Acetylene	µg/L	<2	<2	<2	<2	<2	<2

Anions							
Date Analyzed		7/18/13	7/18/13	7/18/13	7/18/13	7/18/13	7/18/13
Sample ID	Units	MW-261 S	MW-265 M	MW-267 M	MW-268 M	MW-552	MW-561
Chloride	mg/L	31	23	30	17	20	35
Nitrate	mg/L	<1	<1	<1	<1	<1	<1
Sulfate	mg/L	<1	<1	<1	44	<1	<1
Organic Acids							
Date Analyzed		7/18/13	7/18/13	7/18/13	7/18/13	7/18/13	7/18/13
Lactate	mg/L	<1	<1	<1	<1	<1	<1
Acetate	mg/L	177	790	377	<1	165	254
Propionate	mg/L	<1	13	11	<1	<1	11
Butyrate	mg/L	7	27	6	5	8	9

Chemistries							
Date Analyzed	7/18/13-7/19/13						
Sample ID	Units	MW-261 S	MW-265 M	MW-267 M	MW-268 M	MW-552	MW-561
Alkalinity	mg/L	585	470	280	100	415	260
Manganese	mg/L	na	na	na	na	na	na
NH_3-N	mg/L	0.15	0.14	0.10	0.11	0.10	0.03
PO_4	mg/L	0.27	1.80	0.80	1.21	1.22	0.63
Sulfide	mg/L	na	na	na	na	na	na
Total Iron	mg/L	64.5	44.0	17.0	11.9	39.6	64.0
COD	mg/L	na	na	na	na	na	na
TOC	mg/L	135	682	1136	2.2	119	198
pH	pH units	6.90	5.78	6.46	6.53	6.80	6.59

H2/CO2 by TCD analysis							
Date Analyzed		na	na	na	na	na	na
Sample ID	Units	MW-261 S	MW-265 M	MW-267 M	MW-268 M	MW-552	MW-561
H2	µM	na	na	na	na	na	na
CO2	mg/L	na	na	na	na	na	na

Project	Raytheon, Wayland, MA						
Date Received		7/18/13	7/18/13	7/18/13	7/18/13	7/18/13	7/18/13
Sample ID		MW-562	MW-563	REW-1	REW-6	REW-7	REW-8
Date Sampled		7/17/13	7/18/13	7/17/13	7/18/13	7/18/13	7/18/13
Dissolved Gasses							
Date Analyzed		7/18/13	7/18/13	7/18/13	7/18/13	7/18/13	7/18/13
Sample ID	Units	MW-562	MW-563	REW-1	REW-6	REW-7	REW-8
Methane	µg/L	28997	19753	25218	293	1214	3090
Ethylene	µg/L	<0.3	<0.3	<0.3	<0.3	59.4	<0.3
Ethane	µg/L	23.8	<0.3	<0.3	<0.3	<0.3	<0.3
Acetylene	µg/L	<2	<2	<2	<2	<2	<2
Anions							
Date Analyzed		7/18/13	7/18/13	7/18/13	7/18/13	7/18/13	7/18/13
Sample ID	Units	MW-562	MW-563	REW-1	REW-6	REW-7	REW-8
Chloride	mg/L	34	38	17	43	21	35
Nitrate	mg/L	<1	<1	<1	<1	<1	<1
Sulfate	mg/L	<1	<1	<1	43	23	24
Organic Acids							
Date Analyzed		7/18/13	7/18/13	7/18/13	7/18/13	7/18/13	7/18/13
Lactate	mg/L	<1	<1	<1	<1	<1	<1
Acetate	mg/L	148	364	64	79	93	112
Propionate	mg/L	11	11	<1	<1	<1	<1
Butyrate	mg/L	11	10	<1	<1	<1	<1
Chemistries							
Date Analyzed	7/18/13-7/19/13						
Sample ID	Units	MW-562	MW-563	REW-1	REW-6	REW-7	REW-8
Alkalinity	mg/L	380	300	420	120	160	140
Manganese	mg/L	na	na	na	na	na	na
NH_3-N	mg/L	2.00	0.09	2.00	0.03	0.04	0.05
PO_4	mg/L	2.41	0.14	1.23	1.73	1.49	1.28
Sulfide	mg/L	na	na	na	na	na	na
Total Iron	mg/L	95.0	58.8	24.9	24.0	21.7	20.2
COD	mg/L	na	na	na	na	na	na
TOC	mg/L	191	834	37.0	204	74.6	81.8
pH	pH units	6.54	6.38	6.75	6.53	6.55	6.41
H2/CO2 by TCD analysis							
Date Analyzed		na	na	na	na	na	na
Sample ID	Units	MW-562	MW-563	REW-1	REW-6	REW-7	REW-8
H_2	µM	na	na	na	na	na	na
CO_2	mg/L	na	na	na	na	na	na

Project	Raytheon, Wayland, MA		
Date Received		7/18/13	7/18/13
Sample ID		REW-12	Trip Blank
Date Sampled		7/18/13	na

Dissolved Gasses			
Date Analyzed		7/18/13	7/18/13
Sample ID	Units	REW-12	Trip Blank
Methane	µg/L	328	<0.3
Ethylene	µg/L	3.9	<0.3
Ethane	µg/L	<0.3	<0.3
Acetylene	µg/L	<2	<2

Anions			
Date Analyzed		7/18/13	7/18/13
Sample ID	Units	REW-12	Trip Blank
Chloride	mg/L	33	<1
Nitrate	mg/L	<1	<1
Sulfate	mg/L	61	<1
Organic Acids			
Date Analyzed		7/18/13	7/18/13
Lactate	mg/L	<1	<1
Acetate	mg/L	30	<1
Propionate	mg/L	<1	<1
Butyrate	mg/L	<1	<1

Chemistries			
Date Analyzed	7/18/13-7/19/13		
Sample ID	Units	REW-12	Trip Blank
Alkalinity	mg/L	100	10
Manganese	mg/L	na	na
NH_3-N	mg/L	0.03	<0.02
PO_4	mg/L	0.97	<0.05
Sulfide	mg/L	na	na
Total Iron	mg/L	20.3	<0.03
COD	mg/L	na	na
TOC	mg/L	35.2	<0.3
pH	pH units	6.52	6.93

H2/CO2 by TCD analysis			
Date Analyzed		na	na
Sample ID	Units	REW-12	Trip Blank
H_2	µM	na	na
CO_2	mg/L	na	na

TESTING METHODS

Ion Analysis

Inorganic anions are analyzed on a Metrohm 761 IC system according to modified EPA Method 300. Organic acids are analyzed by HPLC method with an organic acid column for lactate, acetate, propionate, and butyrate. A sample to be analyzed for anions is diluted with ultra pure water as necessary to obtain the analytes in the working range of the method, and is placed into the instrument, where the sample is introduced by an automated sampling device. All samples are placed sequentially in the auto sampler and the samples are injected sequentially into the ion-exchange column. Flows from the column are directed to a conductivity detector and the peak responses were processed for quantification. Identification of analytes are based on retention times for individual analytes, and quantification is based on analysis of prepared standards.

Gas Chromatography

Dissolved gasses are analyzed according to modified EPA Method 5021A. 10ml of the sample is transferred from the 40 ml VOA vials to a 20 ml sampling vial for a 1 to 1, headspace to liquid ratio. The headspace sample is analyzed by a HP 7694 Headspace Sampler, injected to a HP 5890 gas chromatograph. Gasses are detected by PID detector and followed by Flame Ionization Detector. Standards are prepared and analyzed in the same manner as samples.

Total Organic Carbon Analyzer

Organic carbon is measured according to a modified EPA Method 9060A using a Shimadzu TOC-5050A carbonaceous analyzer. This instrument converts the organic carbon in a sample to carbon dioxide (CO_2) by catalytic combustion. The CO_2 formed is then measured directly by an infrared detector. The amount of CO_2 in a sample is directly proportional to the concentration of carbonaceous material in the sample.

HACH Colorimeter

Chemical Tests for, Iron (Total), Manganese, Nitrogen (Ammonia), Phosphorous (Orthophosphate), and Sulfide are analyzed with a DR/ 890 Colorimeter. Alkalinity is analyzed with a HACH Alkalinity Digital Titrator. VOA vials for the analysis of these chemical tests have no preservative. The methods used are EPA approved and are as follows:

Alkalinity	Hach Titration
Ammonia Nitrogen	Hach 8155
COD	Hach 8000
Manganese	Hach 8034
Orthophosphate Phosphorous	Hach 8048
Sulfide	Hach 8131
Total Iron	Hach 8008

pH

The pH of samples is determined using a Corning 313 ATC electrode.

CHAIN OF CUSTODY RECORD

B T C **Bioremediation Treatability Center** • 25 Spring Street • Walpole, MA 02081-4301 • phone (508) 668-0191 • fax (508) 668-5175

Project Name & Project Number: RA-008

Project Manager: Vicki Pavlyak

Company / Address: Innovative Engineering Solutions Inc
25 Spring St Walpole MA 02081

Phone #: 508-668-0033 Fax #: 508-668-5175

Sampler's Signature:

Sampler's Printed Name: Dany Jones

Client Sample ID	Sampling Date	Sampling Time	No. of Sample Bottles per Well	Alkalinity	Ammonia	Anions (Cl^-, NO_3^-, SO_4^-)	Biotank	Bromide	COD	Dissolved Gas	H2 / CO2	Organic Acid	Orthophosphate	pH	Sulfide	TOC	Total Iron	Total Manganese	VOC Screen	
MW-261S-20130717-01	7/17/13	0735	6	X	X	X				X		X	X	X		X	X			
MW-552-20130717-01	7/17/13	0820	6	X	X	X				X		X	X	X		X	X			
MW-562-20130717-01	7/17/13	0915	6	X	X	X				X		X	X	X		X	X			
REW-1-20130717-01	7/17/13	1100	6	X	X	X				X		X	X	X		X	X			
MW-265M-201307 -01	7/17/13	1320	6	X	X	X				X		X	X	X		X	X			
~~MW-561-201307 -01~~	~~7/ /13~~		~~6~~	~~X~~	~~X~~	~~X~~				~~X~~		~~X~~	~~X~~	~~X~~		~~X~~	~~X~~			
~~MW-563-201307 -01~~	~~7/ /13~~		~~6~~	~~X~~	~~X~~	~~X~~				~~X~~		~~X~~	~~X~~	~~X~~		~~X~~	~~X~~			

Special Instructions / Comments

Relinquished By	Received By	Relinquished By	Received By
Dany Jones	Susan Davis		
Printed Name: Dany Jones	Printed Name: Susan Davis	Printed Name	Printed Name
Firm: IESI	Firm: BTC	Firm	Firm
Date/Time: 7/18/13 0525	Date/Time: 7/18/13 6:35	Date/Time	Date/Time

CHAIN OF CUSTODY RECORD

B T C **Bioremediation Treatability Center** • 25 Spring Street • Walpole, MA 02081-4301 • phone (508) 668-0191 • fax (508) 668-5175

Project Name & Project Number RA-008

Project Manager Vicki Parnyan

Company / Address Innovative Engineering Solutions Inc.
25 Spring St Walpole MA 02081

Phone # 508-668-0033 Fax # 508-668-5175

Sampler's Signature

Sampler's Printed Name Danny Jones

Client Sample ID	Sampling Date	Sampling Time	No. of Sample Bottles per Well	Alkalinity	Ammonia	Anions (Cl^-, NO_3^-, SO_4^-)	Biotank	Bromide	COD	Dissolved Gas	H2 / CO2	Organic Acid	Orthophosphate	pH	Sulfide	TOC	Total Iron	Total Manganese	VOC Screen	
REW-6-20130718-01	7/18/13	1045	6	X	X	X				X		X	X	X		X	X			
REW-7-20130718-01	7/18/13	1245	6	X	X	X				X		X	X	X		X	X			
REW-8-20130718-01	7/18/13	1205	6	X	X	X				X		X	X	X		X	X			
REW-12-20130718-01	7/18/13	0905	6	X	X	X				X		X	X	X		X	X			
MW-267M-20130718-01	7/18/13	1125	6	X	X	X				X		X	X	X		X	X			
MW-268M-20130718-01	7/18/13	0950	6	X	X	X				X		X	X	X		X	X			
Trip Blanks																				
MW-561-20130718-01	7/18/13	0715	6	X	X	X				X		X	X	X		X	X			
MW-563 20130718-01	7/18/13	0800	6	X	X	X				X		X	X	X		X	X			

Special Instructions / Comments

Relinquished By	Received By	Relinquished By	Received By
Printed Name Danny Jones	Printed Name Susan Davis	Printed Name	Printed Name
Firm IESI	Firm BTC	Firm	Firm
Date/Time 7/18/13 1400	Date/Time 7/18/13 2:00	Date/Time	Date/Time

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

TestAmerica Job ID: 480-47908-1
Client Project/Site: IDS Wayland
Revision: 1

For:
Innovative Engineering Solutions, Inc
25 Spring Street
Walpole, Massachusetts 02081

Attn: Vicki Pariyar

Authorized for release by:
10/24/2013 1:16:31 PM
Steve Hartmann, Lab Director
(413)572-4000
steve.hartmann@testamericainc.com

Designee for

Becky Mason, Project Manager II
(413)572-4000
becky.mason@testamericainc.com

LINKS

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The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
F	MS/MSD Recovery and/or RPD exceeds the control limits
*	LCS or LCSD exceeds the control limits
E	Result exceeded calibration range.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 480-47908-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative
480-47908-1

Revision 1: This report was revised on 10/24/13 to correct sample ID's and project name. This final report replaces the final report generated on 10/22/13.

Receipt
The samples were received on 10/15/2013 7:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.6º C.

Receipt Excepiton
The Chain-of-Custody (COC) lists the project name as Lowell. Client contacted lab on 10/23/13 to indicate this should be Wayland.

GC/MS VOA
Method(s) 8260C SIM: The following volatiles sample(s) was diluted due to foaming at the time of purging during the original sample analysis: DUPX1-12-20131012-01 (480-47908-22), MW-261S-20131012-01 (480-47908-1), MW-262S-20131014-01 (480-47908-3), MW-263M-20131014-01 (480-47908-2), MW-267M-20131014-01 (480-47908-4), MW-552-20131012-01 (480-47908-7). Elevated reporting limits (RLs) are provided.

Method(s) 8260C: The following sample was diluted to bring the concentration of target analytes within the calibration range: MW-263M-20131014-01 (480-47908-2), (480-47908-1 MS), (480-47908-1 MSD), MW-261S-20131012-01 (480-47908-1), MW-262S-20131014-01 (480-47908-3), MW-267M-20131014-01 (480-47908-4), MW-268M-20131014-01 (480-47908-5), MW-563-20131014-01 (480-47908-12), REW-6-20131013-01 (480-47908-16), REW-7-20131013-01 (480-47908-17), REW-8-20131013-01 (480-47908-18), DUPX1-12-20131012-01 (480-47908-22), MW-553-20131012-01 (480-47908-8), MW-561-20131014-01 (480-47908-10), REW-1-20131012-01 (480-47908-13), REW-12-20131013-01 (480-47908-21), REW-9-20131013-01 (480-47908-19), (480-47908-6 MS), (480-47908-6 MSD), DUPX2-12-20131013-01 (480-47908-23), DUPX3-12-20131014-01 (480-47908-24), MW-551-20131012-01 (480-47908-6), MW-552-20131012-01 (480-47908-7). Elevated reporting limits (RLs) are provided.

Method(s) 8260C: 2-Butanone and Vinyl Chloride were detected in the following sample at a concentration above the linear range of the initial calibration curve: MW-551-20131012-01 (480-47908-6). Due to the high dilution dictated by other target compounds, these analytes were diluted out in the re-analysis of the sample. Therefore, the value being reported is from the original analysis and is qualified with an E flag.

Method(s) 8260C: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 146170 and 146250 were outside control limits. The associated laboratory control sample (LCS) recovery met acceptance criteria.

Method(s) 8260C: The laboratory control sample (LCS) and / or the laboratory control sample duplicate (LCSD) for batch 146187 and 146250 exceeded control limits for the following analyte: 2-Butanone. Unlike the calibration standards, this is due to the coelution with Ethyl Acetate in the spiking solution. This does not indicate a performance issue with the spike recovery, but rather the laboratory's ability to measure the two analytes together in a combined spiking solution. Through the use of spectral analysis, the two compounds can be distinguished from one another if present in a client sample.

With the exception of diluted samples, per question G on the MassDEP Analytical Protocol Certification Form, TestAmerica's routine reporting limits do not achieve the CAM reporting limits specified in this CAM protocol for 1,2-dibromo-3-chloropropane, Carbon Disulfide, Isopropyl Ether, Naphthalene, tert-Butyl Ethyl Ether, tert-Amyl Methyl Ether, & Tetrahydrofuran.

No other analytical or quality issues were noted.

MassDEP Analytical Protocol Certification Form

Laboratory Name:	**TestAmerica Buffalo**	Project #:	**480-47908**
Project Location:	**IDS Lowell**	RTN:	

This form provides certifications for the following data set: list Laboratory Sample ID Number(s):

480-47908-[1-25]

Matrices: [X] Groundwater/Surface Water [ ] Soil/Sediment [ ] Drinking Water [ ] Air [ ] Other:

CAM Protocols (check all that apply below):

8260 VOC CAM II A [X]	7470/7471 Hg CAM III B [ ]	Mass DEP VPH CAM IV A [ ]	8081 Pesticides CAM V B [ ]	7196 Hex Cr CAM VI B [ ]	Mass DEP APH CAM IX A [ ]
8270 SVOC CAM II B [ ]	7010 Metals CAM III C [ ]	Mass DEP EPH CAM IV B [ ]	8151 Herbicides CAM V C [ ]	8330 Explosives CAM VIII A [ ]	TO-15 VOC CAM IX B [ ]
6010 Metals CAM III A [ ]	6020 Metals CAM III D [ ]	8082 PCB CAM V A [ ]	9014 Total Cyanide/PAC CAM VI A [ ]	6860 Perchlorate CAM VIII B [ ]	

Affirmative Responses to Questions A through F are required for "Presumptive Certainty" status

A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding time.	[X] Yes [ ] No
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	[X] Yes [ ] No
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	[X] Yes [ ] No
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	[X] Yes [ ] No
E	a. VPH, EPH and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications). b. APH and TO-15 Methods only: Was the complete analyte list reported for each method?	[ ] Yes [ ] No [ ] Yes [ ] No
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	[X] Yes [ ] No

Responses to Questions G, H and I below are required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	[ ] Yes [X] No[1]

Data User Note: ***Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WCS-07-350***

H	Were **all** QC performance standards specified in the CAM protocol(s) achieved?	[ ] Yes [X] No[1]
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s) ?	[X] Yes [ ] No[1]

[1] All negative responses must be addressed in an attached laboratory narrative.

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, is accurate and complete.

Signature:		Position:	Service Center Manager/Lab Director-TestAmerica Westfield
Printed Name:	Steven C. Hartmann	Date:	10/22/13 12:18

This form has been electronically signed and approved

Detection Summary

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-47908-1

Client Sample ID: MW-261S-20131012-01 — Lab Sample ID: 480-47908-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	6600		1000		ug/L	20		8260C	Total/NA
Toluene	20		20		ug/L	20		8260C	Total/NA

Client Sample ID: MW-265M-20131014-01 — Lab Sample ID: 480-47908-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	180		10		ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	95		1.0		ug/L	1		8260C	Total/NA
Tetrahydrofuran	63		10		ug/L	1		8260C	Total/NA
trans-1,2-Dichloroethene	1.4		1.0		ug/L	1		8260C	Total/NA
Vinyl chloride	35		1.0		ug/L	1		8260C	Total/NA

Client Sample ID: MW-267S-20131014-01 — Lab Sample ID: 480-47908-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	110		50		ug/L	5		8260C	Total/NA
cis-1,2-Dichloroethene	330		5.0		ug/L	5		8260C	Total/NA
Toluene	5.8		5.0		ug/L	5		8260C	Total/NA

Client Sample ID: MW-267M-20131014-01 — Lab Sample ID: 480-47908-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	89		80		ug/L	8		8260C	Total/NA
cis-1,2-Dichloroethene	460		8.0		ug/L	8		8260C	Total/NA
Toluene	410		8.0		ug/L	8		8260C	Total/NA
Vinyl chloride	47		8.0		ug/L	8		8260C	Total/NA

Client Sample ID: MW-268M-20131014-01 — Lab Sample ID: 480-47908-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	12		1.6		ug/L	1		8260C SIM	Total/NA
cis-1,2-Dichloroethene	2800		40		ug/L	40		8260C	Total/NA
Tetrachloroethene	49		40		ug/L	40		8260C	Total/NA
Trichloroethene	1300		40		ug/L	40		8260C	Total/NA
Vinyl chloride	180		40		ug/L	40		8260C	Total/NA

Client Sample ID: MW-551-20131012-01 — Lab Sample ID: 480-47908-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	720	E	10		ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	7.6		1.0		ug/L	1		8260C	Total/NA
trans-1,2-Dichloroethene	1.5		1.0		ug/L	1		8260C	Total/NA
Vinyl chloride	120	E	1.0		ug/L	1		8260C	Total/NA
Acetone - DL	100000		13000		ug/L	250		8260C	Total/NA

Client Sample ID: MW-552-20131012-01 — Lab Sample ID: 480-47908-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	2500		400		ug/L	8		8260C	Total/NA
Vinyl chloride	19		8.0		ug/L	8		8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-47908-1

Client Sample ID: MW-553-20131012-01 — Lab Sample ID: 480-47908-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	11		10		ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	15		1.0		ug/L	1		8260C	Total/NA
trans-1,2-Dichloroethene	2.1		1.0		ug/L	1		8260C	Total/NA
Vinyl chloride	35		1.0		ug/L	1		8260C	Total/NA
Acetone - DL	1200		250		ug/L	5		8260C	Total/NA

Client Sample ID: MW-560-20131014-01 — Lab Sample ID: 480-47908-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	14		10		ug/L	1		8260C	Total/NA
Acetone	99		50		ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	89		1.0		ug/L	1		8260C	Total/NA
Ethylbenzene	1.0		1.0		ug/L	1		8260C	Total/NA
m-Xylene & p-Xylene	4.2		2.0		ug/L	1		8260C	Total/NA
Toluene	7.6		1.0		ug/L	1		8260C	Total/NA
Trichloroethene	2.1		1.0		ug/L	1		8260C	Total/NA
Vinyl chloride	8.7		1.0		ug/L	1		8260C	Total/NA

Client Sample ID: MW-561-20131014-01 — Lab Sample ID: 480-47908-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	27		10		ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	2.7		1.0		ug/L	1		8260C	Total/NA
Ethylbenzene	9.2		1.0		ug/L	1		8260C	Total/NA
m-Xylene & p-Xylene	39		2.0		ug/L	1		8260C	Total/NA
o-Xylene	8.5		1.0		ug/L	1		8260C	Total/NA
Toluene - DL	1600		20		ug/L	20		8260C	Total/NA
Vinyl chloride - DL	300		20		ug/L	20		8260C	Total/NA

Client Sample ID: MW-562-20131012-01 — Lab Sample ID: 480-47908-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	220		50		ug/L	1		8260C	Total/NA

Client Sample ID: MW-563-20131014-01 — Lab Sample ID: 480-47908-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	110		50		ug/L	5		8260C	Total/NA
cis-1,2-Dichloroethene	230		5.0		ug/L	5		8260C	Total/NA
m-Xylene & p-Xylene	14		10		ug/L	5		8260C	Total/NA
Toluene	27		5.0		ug/L	5		8260C	Total/NA
Vinyl chloride	130		5.0		ug/L	5		8260C	Total/NA

Client Sample ID: REW-1-20131012-01 — Lab Sample ID: 480-47908-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	81		10		ug/L	1		8260C	Total/NA
Tetrahydrofuran	14		10		ug/L	1		8260C	Total/NA
Toluene	11		1.0		ug/L	1		8260C	Total/NA
Acetone - DL	5100		1000		ug/L	20		8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-47908-1

Client Sample ID: REW-4-20131012-01 — Lab Sample ID: 480-47908-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	1.7		1.0		ug/L	1		8260C	Total/NA
Tetrahydrofuran	49		10		ug/L	1		8260C	Total/NA
Toluene	4.9		1.0		ug/L	1		8260C	Total/NA

Client Sample ID: REW-5-20131012-01 — Lab Sample ID: 480-47908-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	7.3		1.0		ug/L	1		8260C	Total/NA
Tetrahydrofuran	19		10		ug/L	1		8260C	Total/NA
Vinyl chloride	3.8		1.0		ug/L	1		8260C	Total/NA

Client Sample ID: REW-6-20131013-01 — Lab Sample ID: 480-47908-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	350		8.0		ug/L	8		8260C	Total/NA
Toluene	68		8.0		ug/L	8		8260C	Total/NA
Trichloroethene	170		8.0		ug/L	8		8260C	Total/NA
Vinyl chloride	17		8.0		ug/L	8		8260C	Total/NA

Client Sample ID: REW-7-20131013-01 — Lab Sample ID: 480-47908-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	680		10		ug/L	10		8260C	Total/NA
Trichloroethene	140		10		ug/L	10		8260C	Total/NA
Vinyl chloride	180		10		ug/L	10		8260C	Total/NA

Client Sample ID: REW-8-20131013-01 — Lab Sample ID: 480-47908-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	62		50		ug/L	5		8260C	Total/NA
cis-1,2-Dichloroethene	230		5.0		ug/L	5		8260C	Total/NA
Trichloroethene	16		5.0		ug/L	5		8260C	Total/NA
Vinyl chloride	84		5.0		ug/L	5		8260C	Total/NA

Client Sample ID: REW-9-20131013-01 — Lab Sample ID: 480-47908-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	28		10		ug/L	1		8260C	Total/NA
Ethylbenzene	1.9		1.0		ug/L	1		8260C	Total/NA
m-Xylene & p-Xylene	6.9		2.0		ug/L	1		8260C	Total/NA
o-Xylene	1.5		1.0		ug/L	1		8260C	Total/NA
Toluene	27		1.0		ug/L	1		8260C	Total/NA
Trichloroethene	1.2		1.0		ug/L	1		8260C	Total/NA
Vinyl chloride	28		1.0		ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene - DL	110		2.0		ug/L	2		8260C	Total/NA

Client Sample ID: REW-10-20131013-01 — Lab Sample ID: 480-47908-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	15		10		ug/L	1		8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-47908-1

Client Sample ID: REW-10-20131013-01 (Continued) — Lab Sample ID: 480-47908-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	33		1.0		ug/L	1		8260C	Total/NA
Toluene	2.2		1.0		ug/L	1		8260C	Total/NA
Trichloroethene	1.1		1.0		ug/L	1		8260C	Total/NA
Vinyl chloride	6.3		1.0		ug/L	1		8260C	Total/NA

Client Sample ID: REW-12-20131013-01 — Lab Sample ID: 480-47908-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	310		4.0		ug/L	4		8260C	Total/NA
Tetrachloroethene	5.7		4.0		ug/L	4		8260C	Total/NA
Trichloroethene	120		4.0		ug/L	4		8260C	Total/NA
Vinyl chloride	49		4.0		ug/L	4		8260C	Total/NA

Client Sample ID: DUPX1-12-20131012-01 — Lab Sample ID: 480-47908-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	5800		1000		ug/L	20		8260C	Total/NA

Client Sample ID: DUPX2-12-20131013-01 — Lab Sample ID: 480-47908-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	330		5.0		ug/L	5		8260C	Total/NA
Tetrachloroethene	7.7		5.0		ug/L	5		8260C	Total/NA
Toluene	69		5.0		ug/L	5		8260C	Total/NA
Trichloroethene	160		5.0		ug/L	5		8260C	Total/NA
Vinyl chloride	17		5.0		ug/L	5		8260C	Total/NA

Client Sample ID: DUPX3-12-20131014-01 — Lab Sample ID: 480-47908-24

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	100	*	50		ug/L	5		8260C	Total/NA
cis-1,2-Dichloroethene	230		5.0		ug/L	5		8260C	Total/NA
m-Xylene & p-Xylene	14		10		ug/L	5		8260C	Total/NA
Toluene	27		5.0		ug/L	5		8260C	Total/NA
Vinyl chloride	120		5.0		ug/L	5		8260C	Total/NA

Client Sample ID: Trip Blank — Lab Sample ID: 480-47908-25

No Detections.

This Detection Summary does not include radiochemical test results.

Client Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-47908-1

Client Sample ID: MW-261S-20131012-01

Lab Sample ID: 480-47908-1

Date Collected: 10/12/13 09:40
Matrix: Water
Date Received: 10/15/13 07:00

Method: 8260C SIM - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		64		ug/L			10/16/13 16:08	40

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
TBA-d9 (Surr)	*106*		*50 - 150*		*10/16/13 16:08*	*40*
Dibromofluoromethane (Surr)	*98*		*50 - 150*		*10/16/13 16:08*	*40*

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		20		ug/L			10/20/13 00:07	20
1,1,1-Trichloroethane	ND		20		ug/L			10/20/13 00:07	20
1,1,2,2-Tetrachloroethane	ND		10		ug/L			10/20/13 00:07	20
1,1,2-Trichloroethane	ND		20		ug/L			10/20/13 00:07	20
1,1-Dichloroethane	ND		20		ug/L			10/20/13 00:07	20
1,1-Dichloroethene	ND		20		ug/L			10/20/13 00:07	20
1,1-Dichloropropene	ND		20		ug/L			10/20/13 00:07	20
1,2,3-Trichlorobenzene	ND		20		ug/L			10/20/13 00:07	20
1,2,3-Trichloropropane	ND		20		ug/L			10/20/13 00:07	20
1,2,4-Trichlorobenzene	ND		20		ug/L			10/20/13 00:07	20
1,2,4-Trimethylbenzene	ND		20		ug/L			10/20/13 00:07	20
1,2-Dibromo-3-Chloropropane	ND		100		ug/L			10/20/13 00:07	20
1,2-Dichlorobenzene	ND		20		ug/L			10/20/13 00:07	20
1,2-Dichloroethane	ND		20		ug/L			10/20/13 00:07	20
1,2-Dichloropropane	ND		20		ug/L			10/20/13 00:07	20
1,3,5-Trimethylbenzene	ND		20		ug/L			10/20/13 00:07	20
1,3-Dichlorobenzene	ND		20		ug/L			10/20/13 00:07	20
1,3-Dichloropropane	ND		20		ug/L			10/20/13 00:07	20
1,4-Dichlorobenzene	ND		20		ug/L			10/20/13 00:07	20
1,4-Dioxane	ND		1000		ug/L			10/20/13 00:07	20
2,2-Dichloropropane	ND		20		ug/L			10/20/13 00:07	20
2-Butanone (MEK)	ND		200		ug/L			10/20/13 00:07	20
2-Chlorotoluene	ND		20		ug/L			10/20/13 00:07	20
2-Hexanone	ND		200		ug/L			10/20/13 00:07	20
4-Chlorotoluene	ND		20		ug/L			10/20/13 00:07	20
4-Isopropyltoluene	ND		20		ug/L			10/20/13 00:07	20
4-Methyl-2-pentanone (MIBK)	ND		200		ug/L			10/20/13 00:07	20
Acetone	**6600**		1000		ug/L			10/20/13 00:07	20
Benzene	ND		20		ug/L			10/20/13 00:07	20
Bromobenzene	ND		20		ug/L			10/20/13 00:07	20
Bromoform	ND		20		ug/L			10/20/13 00:07	20
Bromomethane	ND		40		ug/L			10/20/13 00:07	20
Carbon disulfide	ND		200		ug/L			10/20/13 00:07	20
Carbon tetrachloride	ND		20		ug/L			10/20/13 00:07	20
Chlorobenzene	ND		20		ug/L			10/20/13 00:07	20
Chlorobromomethane	ND		20		ug/L			10/20/13 00:07	20
Chlorodibromomethane	ND		10		ug/L			10/20/13 00:07	20
Chloroethane	ND		40		ug/L			10/20/13 00:07	20
Chloroform	ND		20		ug/L			10/20/13 00:07	20
Chloromethane	ND		40		ug/L			10/20/13 00:07	20
cis-1,2-Dichloroethene	ND		20		ug/L			10/20/13 00:07	20
cis-1,3-Dichloropropene	ND		8.0		ug/L			10/20/13 00:07	20

Client Sample ID: MW-261S-20131012-01

Lab Sample ID: 480-47908-1

Date Collected: 10/12/13 09:40

Matrix: Water

Date Received: 10/15/13 07:00

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorobromomethane	ND		10		ug/L			10/20/13 00:07	20
Dichlorodifluoromethane	ND		20		ug/L			10/20/13 00:07	20
Ethyl ether	ND		20		ug/L			10/20/13 00:07	20
Ethylbenzene	ND		20		ug/L			10/20/13 00:07	20
Ethylene Dibromide	ND		20		ug/L			10/20/13 00:07	20
Hexachlorobutadiene	ND		8.0		ug/L			10/20/13 00:07	20
Isopropyl ether	ND		200		ug/L			10/20/13 00:07	20
Isopropylbenzene	ND		20		ug/L			10/20/13 00:07	20
Methyl tert-butyl ether	ND		20		ug/L			10/20/13 00:07	20
Methylene Chloride	ND		20		ug/L			10/20/13 00:07	20
m-Xylene & p-Xylene	ND		40		ug/L			10/20/13 00:07	20
Naphthalene	ND		100		ug/L			10/20/13 00:07	20
n-Butylbenzene	ND		20		ug/L			10/20/13 00:07	20
N-Propylbenzene	ND		20		ug/L			10/20/13 00:07	20
o-Xylene	ND		20		ug/L			10/20/13 00:07	20
sec-Butylbenzene	ND		20		ug/L			10/20/13 00:07	20
Styrene	ND		20		ug/L			10/20/13 00:07	20
Tert-amyl methyl ether	ND		100		ug/L			10/20/13 00:07	20
Tert-butyl ethyl ether	ND		100		ug/L			10/20/13 00:07	20
tert-Butylbenzene	ND		20		ug/L			10/20/13 00:07	20
Tetrachloroethene	ND		20		ug/L			10/20/13 00:07	20
Tetrahydrofuran	ND		200		ug/L			10/20/13 00:07	20
Toluene	**20**		20		ug/L			10/20/13 00:07	20
trans-1,2-Dichloroethene	ND		20		ug/L			10/20/13 00:07	20
trans-1,3-Dichloropropene	ND		8.0		ug/L			10/20/13 00:07	20
Trichloroethene	ND		20		ug/L			10/20/13 00:07	20
Trichlorofluoromethane	ND		20		ug/L			10/20/13 00:07	20
Vinyl chloride	ND		20		ug/L			10/20/13 00:07	20
Dibromomethane	ND		20		ug/L			10/20/13 00:07	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*96*		*70 - 130*		*10/20/13 00:07*	*20*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*		*10/20/13 00:07*	*20*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*10/20/13 00:07*	*20*

Client Sample ID: MW-265M-20131014-01

Lab Sample ID: 480-47908-2

Date Collected: 10/14/13 13:25

Matrix: Water

Date Received: 10/15/13 07:00

Method: 8260C SIM - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		64		ug/L			10/16/13 16:31	40

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
TBA-d9 (Surr)	*107*		*50 - 150*		*10/16/13 16:31*	*40*
Dibromofluoromethane (Surr)	*99*		*50 - 150*		*10/16/13 16:31*	*40*

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			10/20/13 00:30	1

Client Sample ID: MW-265M-20131014-01

Lab Sample ID: 480-47908-2

Date Collected: 10/14/13 13:25

Matrix: Water

Date Received: 10/15/13 07:00

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0		ug/L			10/20/13 00:30	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			10/20/13 00:30	1
1,1,2-Trichloroethane	ND		1.0		ug/L			10/20/13 00:30	1
1,1-Dichloroethane	ND		1.0		ug/L			10/20/13 00:30	1
1,1-Dichloroethene	ND		1.0		ug/L			10/20/13 00:30	1
1,1-Dichloropropene	ND		1.0		ug/L			10/20/13 00:30	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			10/20/13 00:30	1
1,2,3-Trichloropropane	ND		1.0		ug/L			10/20/13 00:30	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			10/20/13 00:30	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			10/20/13 00:30	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			10/20/13 00:30	1
1,2-Dichlorobenzene	ND		1.0		ug/L			10/20/13 00:30	1
1,2-Dichloroethane	ND		1.0		ug/L			10/20/13 00:30	1
1,2-Dichloropropane	ND		1.0		ug/L			10/20/13 00:30	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			10/20/13 00:30	1
1,3-Dichlorobenzene	ND		1.0		ug/L			10/20/13 00:30	1
1,3-Dichloropropane	ND		1.0		ug/L			10/20/13 00:30	1
1,4-Dichlorobenzene	ND		1.0		ug/L			10/20/13 00:30	1
1,4-Dioxane	ND		50		ug/L			10/20/13 00:30	1
2,2-Dichloropropane	ND		1.0		ug/L			10/20/13 00:30	1
2-Butanone (MEK)	**180**		10		ug/L			10/20/13 00:30	1
2-Chlorotoluene	ND		1.0		ug/L			10/20/13 00:30	1
2-Hexanone	ND		10		ug/L			10/20/13 00:30	1
4-Chlorotoluene	ND		1.0		ug/L			10/20/13 00:30	1
4-Isopropyltoluene	ND		1.0		ug/L			10/20/13 00:30	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			10/20/13 00:30	1
Benzene	ND		1.0		ug/L			10/20/13 00:30	1
Bromobenzene	ND		1.0		ug/L			10/20/13 00:30	1
Bromoform	ND		1.0		ug/L			10/20/13 00:30	1
Bromomethane	ND		2.0		ug/L			10/20/13 00:30	1
Carbon disulfide	ND		10		ug/L			10/20/13 00:30	1
Carbon tetrachloride	ND		1.0		ug/L			10/20/13 00:30	1
Chlorobenzene	ND		1.0		ug/L			10/20/13 00:30	1
Chlorobromomethane	ND		1.0		ug/L			10/20/13 00:30	1
Chlorodibromomethane	ND		0.50		ug/L			10/20/13 00:30	1
Chloroethane	ND		2.0		ug/L			10/20/13 00:30	1
Chloroform	ND		1.0		ug/L			10/20/13 00:30	1
Chloromethane	ND		2.0		ug/L			10/20/13 00:30	1
cis-1,2-Dichloroethene	**95**		1.0		ug/L			10/20/13 00:30	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			10/20/13 00:30	1
Dichlorobromomethane	ND		0.50		ug/L			10/20/13 00:30	1
Dichlorodifluoromethane	ND		1.0		ug/L			10/20/13 00:30	1
Ethyl ether	ND		1.0		ug/L			10/20/13 00:30	1
Ethylbenzene	ND		1.0		ug/L			10/20/13 00:30	1
Ethylene Dibromide	ND		1.0		ug/L			10/20/13 00:30	1
Hexachlorobutadiene	ND		0.40		ug/L			10/20/13 00:30	1
Isopropyl ether	ND		10		ug/L			10/20/13 00:30	1
Isopropylbenzene	ND		1.0		ug/L			10/20/13 00:30	1
Methyl tert-butyl ether	ND		1.0		ug/L			10/20/13 00:30	1

Client Sample ID: MW-265M-20131014-01

Lab Sample ID: 480-47908-2

Date Collected: 10/14/13 13:25

Matrix: Water

Date Received: 10/15/13 07:00

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		1.0		ug/L			10/20/13 00:30	1
m-Xylene & p-Xylene	ND		2.0		ug/L			10/20/13 00:30	1
Naphthalene	ND		5.0		ug/L			10/20/13 00:30	1
n-Butylbenzene	ND		1.0		ug/L			10/20/13 00:30	1
N-Propylbenzene	ND		1.0		ug/L			10/20/13 00:30	1
o-Xylene	ND		1.0		ug/L			10/20/13 00:30	1
sec-Butylbenzene	ND		1.0		ug/L			10/20/13 00:30	1
Styrene	ND		1.0		ug/L			10/20/13 00:30	1
Tert-amyl methyl ether	ND		5.0		ug/L			10/20/13 00:30	1
Tert-butyl ethyl ether	ND		5.0		ug/L			10/20/13 00:30	1
tert-Butylbenzene	ND		1.0		ug/L			10/20/13 00:30	1
Tetrachloroethene	ND		1.0		ug/L			10/20/13 00:30	1
Tetrahydrofuran	**63**		10		ug/L			10/20/13 00:30	1
Toluene	ND		1.0		ug/L			10/20/13 00:30	1
trans-1,2-Dichloroethene	**1.4**		1.0		ug/L			10/20/13 00:30	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			10/20/13 00:30	1
Trichloroethene	ND		1.0		ug/L			10/20/13 00:30	1
Trichlorofluoromethane	ND		1.0		ug/L			10/20/13 00:30	1
Vinyl chloride	**35**		1.0		ug/L			10/20/13 00:30	1
Dibromomethane	ND		1.0		ug/L			10/20/13 00:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*97*		*70 - 130*		*10/20/13 00:30*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 130*		*10/20/13 00:30*	*1*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*10/20/13 00:30*	*1*

Method: 8260C - Volatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		5000		ug/L			10/18/13 18:36	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*98*		*70 - 130*		*10/18/13 18:36*	*100*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*		*10/18/13 18:36*	*100*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*		*10/18/13 18:36*	*100*

Client Sample ID: MW-267S-20131014-01

Lab Sample ID: 480-47908-3

Date Collected: 10/14/13 09:30

Matrix: Water

Date Received: 10/15/13 07:00

Method: 8260C SIM - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		16		ug/L			10/16/13 16:55	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
TBA-d9 (Surr)	*105*		*50 - 150*		*10/16/13 16:55*	*10*
Dibromofluoromethane (Surr)	*98*		*50 - 150*		*10/16/13 16:55*	*10*

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.0		ug/L			10/20/13 00:54	5
1,1,1-Trichloroethane	ND		5.0		ug/L			10/20/13 00:54	5

Client Sample ID: MW-267S-20131014-01
Date Collected: 10/14/13 09:30
Date Received: 10/15/13 07:00

Lab Sample ID: 480-47908-3
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		2.5		ug/L			10/20/13 00:54	5
1,1,2-Trichloroethane	ND		5.0		ug/L			10/20/13 00:54	5
1,1-Dichloroethane	ND		5.0		ug/L			10/20/13 00:54	5
1,1-Dichloroethene	ND		5.0		ug/L			10/20/13 00:54	5
1,1-Dichloropropene	ND		5.0		ug/L			10/20/13 00:54	5
1,2,3-Trichlorobenzene	ND		5.0		ug/L			10/20/13 00:54	5
1,2,3-Trichloropropane	ND		5.0		ug/L			10/20/13 00:54	5
1,2,4-Trichlorobenzene	ND		5.0		ug/L			10/20/13 00:54	5
1,2,4-Trimethylbenzene	ND		5.0		ug/L			10/20/13 00:54	5
1,2-Dibromo-3-Chloropropane	ND		25		ug/L			10/20/13 00:54	5
1,2-Dichlorobenzene	ND		5.0		ug/L			10/20/13 00:54	5
1,2-Dichloroethane	ND		5.0		ug/L			10/20/13 00:54	5
1,2-Dichloropropane	ND		5.0		ug/L			10/20/13 00:54	5
1,3,5-Trimethylbenzene	ND		5.0		ug/L			10/20/13 00:54	5
1,3-Dichlorobenzene	ND		5.0		ug/L			10/20/13 00:54	5
1,3-Dichloropropane	ND		5.0		ug/L			10/20/13 00:54	5
1,4-Dichlorobenzene	ND		5.0		ug/L			10/20/13 00:54	5
1,4-Dioxane	ND		250		ug/L			10/20/13 00:54	5
2,2-Dichloropropane	ND		5.0		ug/L			10/20/13 00:54	5
2-Butanone (MEK)	**110**		50		ug/L			10/20/13 00:54	5
2-Chlorotoluene	ND		5.0		ug/L			10/20/13 00:54	5
2-Hexanone	ND		50		ug/L			10/20/13 00:54	5
4-Chlorotoluene	ND		5.0		ug/L			10/20/13 00:54	5
4-Isopropyltoluene	ND		5.0		ug/L			10/20/13 00:54	5
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			10/20/13 00:54	5
Acetone	ND		250		ug/L			10/20/13 00:54	5
Benzene	ND		5.0		ug/L			10/20/13 00:54	5
Bromobenzene	ND		5.0		ug/L			10/20/13 00:54	5
Bromoform	ND		5.0		ug/L			10/20/13 00:54	5
Bromomethane	ND		10		ug/L			10/20/13 00:54	5
Carbon disulfide	ND		50		ug/L			10/20/13 00:54	5
Carbon tetrachloride	ND		5.0		ug/L			10/20/13 00:54	5
Chlorobenzene	ND		5.0		ug/L			10/20/13 00:54	5
Chlorobromomethane	ND		5.0		ug/L			10/20/13 00:54	5
Chlorodibromomethane	ND		2.5		ug/L			10/20/13 00:54	5
Chloroethane	ND		10		ug/L			10/20/13 00:54	5
Chloroform	ND		5.0		ug/L			10/20/13 00:54	5
Chloromethane	ND		10		ug/L			10/20/13 00:54	5
cis-1,2-Dichloroethene	**330**		5.0		ug/L			10/20/13 00:54	5
cis-1,3-Dichloropropene	ND		2.0		ug/L			10/20/13 00:54	5
Dichlorobromomethane	ND		2.5		ug/L			10/20/13 00:54	5
Dichlorodifluoromethane	ND		5.0		ug/L			10/20/13 00:54	5
Ethyl ether	ND		5.0		ug/L			10/20/13 00:54	5
Ethylbenzene	ND		5.0		ug/L			10/20/13 00:54	5
Ethylene Dibromide	ND		5.0		ug/L			10/20/13 00:54	5
Hexachlorobutadiene	ND		2.0		ug/L			10/20/13 00:54	5
Isopropyl ether	ND		50		ug/L			10/20/13 00:54	5
Isopropylbenzene	ND		5.0		ug/L			10/20/13 00:54	5
Methyl tert-butyl ether	ND		5.0		ug/L			10/20/13 00:54	5

Client Sample ID: MW-267S-20131014-01

Lab Sample ID: 480-47908-3

Date Collected: 10/14/13 09:30

Matrix: Water

Date Received: 10/15/13 07:00

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		5.0		ug/L			10/20/13 00:54	5
m-Xylene & p-Xylene	ND		10		ug/L			10/20/13 00:54	5
Naphthalene	ND		25		ug/L			10/20/13 00:54	5
n-Butylbenzene	ND		5.0		ug/L			10/20/13 00:54	5
N-Propylbenzene	ND		5.0		ug/L			10/20/13 00:54	5
o-Xylene	ND		5.0		ug/L			10/20/13 00:54	5
sec-Butylbenzene	ND		5.0		ug/L			10/20/13 00:54	5
Styrene	ND		5.0		ug/L			10/20/13 00:54	5
Tert-amyl methyl ether	ND		25		ug/L			10/20/13 00:54	5
Tert-butyl ethyl ether	ND		25		ug/L			10/20/13 00:54	5
tert-Butylbenzene	ND		5.0		ug/L			10/20/13 00:54	5
Tetrachloroethene	ND		5.0		ug/L			10/20/13 00:54	5
Tetrahydrofuran	ND		50		ug/L			10/20/13 00:54	5
Toluene	**5.8**		5.0		ug/L			10/20/13 00:54	5
trans-1,2-Dichloroethene	ND		5.0		ug/L			10/20/13 00:54	5
trans-1,3-Dichloropropene	ND		2.0		ug/L			10/20/13 00:54	5
Trichloroethene	ND		5.0		ug/L			10/20/13 00:54	5
Trichlorofluoromethane	ND		5.0		ug/L			10/20/13 00:54	5
Vinyl chloride	ND		5.0		ug/L			10/20/13 00:54	5
Dibromomethane	ND		5.0		ug/L			10/20/13 00:54	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*95*		*70 - 130*		*10/20/13 00:54*	*5*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 130*		*10/20/13 00:54*	*5*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*		*10/20/13 00:54*	*5*

Client Sample ID: MW-267M-20131014-01

Lab Sample ID: 480-47908-4

Date Collected: 10/14/13 10:05

Matrix: Water

Date Received: 10/15/13 07:00

Method: 8260C SIM - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		16		ug/L			10/16/13 17:19	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
TBA-d9 (Surr)	*106*		*50 - 150*		*10/16/13 17:19*	*10*
Dibromofluoromethane (Surr)	*101*		*50 - 150*		*10/16/13 17:19*	*10*

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		8.0		ug/L			10/20/13 01:18	8
1,1,1-Trichloroethane	ND		8.0		ug/L			10/20/13 01:18	8
1,1,2,2-Tetrachloroethane	ND		4.0		ug/L			10/20/13 01:18	8
1,1,2-Trichloroethane	ND		8.0		ug/L			10/20/13 01:18	8
1,1-Dichloroethane	ND		8.0		ug/L			10/20/13 01:18	8
1,1-Dichloroethene	ND		8.0		ug/L			10/20/13 01:18	8
1,1-Dichloropropene	ND		8.0		ug/L			10/20/13 01:18	8
1,2,3-Trichlorobenzene	ND		8.0		ug/L			10/20/13 01:18	8
1,2,3-Trichloropropane	ND		8.0		ug/L			10/20/13 01:18	8
1,2,4-Trichlorobenzene	ND		8.0		ug/L			10/20/13 01:18	8

Client Sample ID: MW-267M-20131014-01
Date Collected: 10/14/13 10:05
Date Received: 10/15/13 07:00

Lab Sample ID: 480-47908-4
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	ND		8.0		ug/L			10/20/13 01:18	8
1,2-Dibromo-3-Chloropropane	ND		40		ug/L			10/20/13 01:18	8
1,2-Dichlorobenzene	ND		8.0		ug/L			10/20/13 01:18	8
1,2-Dichloroethane	ND		8.0		ug/L			10/20/13 01:18	8
1,2-Dichloropropane	ND		8.0		ug/L			10/20/13 01:18	8
1,3,5-Trimethylbenzene	ND		8.0		ug/L			10/20/13 01:18	8
1,3-Dichlorobenzene	ND		8.0		ug/L			10/20/13 01:18	8
1,3-Dichloropropane	ND		8.0		ug/L			10/20/13 01:18	8
1,4-Dichlorobenzene	ND		8.0		ug/L			10/20/13 01:18	8
1,4-Dioxane	ND		400		ug/L			10/20/13 01:18	8
2,2-Dichloropropane	ND		8.0		ug/L			10/20/13 01:18	8
2-Butanone (MEK)	**89**		80		ug/L			10/20/13 01:18	8
2-Chlorotoluene	ND		8.0		ug/L			10/20/13 01:18	8
2-Hexanone	ND		80		ug/L			10/20/13 01:18	8
4-Chlorotoluene	ND		8.0		ug/L			10/20/13 01:18	8
4-Isopropyltoluene	ND		8.0		ug/L			10/20/13 01:18	8
4-Methyl-2-pentanone (MIBK)	ND		80		ug/L			10/20/13 01:18	8
Acetone	ND		400		ug/L			10/20/13 01:18	8
Benzene	ND		8.0		ug/L			10/20/13 01:18	8
Bromobenzene	ND		8.0		ug/L			10/20/13 01:18	8
Bromoform	ND		8.0		ug/L			10/20/13 01:18	8
Bromomethane	ND		16		ug/L			10/20/13 01:18	8
Carbon disulfide	ND		80		ug/L			10/20/13 01:18	8
Carbon tetrachloride	ND		8.0		ug/L			10/20/13 01:18	8
Chlorobenzene	ND		8.0		ug/L			10/20/13 01:18	8
Chlorobromomethane	ND		8.0		ug/L			10/20/13 01:18	8
Chlorodibromomethane	ND		4.0		ug/L			10/20/13 01:18	8
Chloroethane	ND		16		ug/L			10/20/13 01:18	8
Chloroform	ND		8.0		ug/L			10/20/13 01:18	8
Chloromethane	ND		16		ug/L			10/20/13 01:18	8
cis-1,2-Dichloroethene	**460**		8.0		ug/L			10/20/13 01:18	8
cis-1,3-Dichloropropene	ND		3.2		ug/L			10/20/13 01:18	8
Dichlorobromomethane	ND		4.0		ug/L			10/20/13 01:18	8
Dichlorodifluoromethane	ND		8.0		ug/L			10/20/13 01:18	8
Ethyl ether	ND		8.0		ug/L			10/20/13 01:18	8
Ethylbenzene	ND		8.0		ug/L			10/20/13 01:18	8
Ethylene Dibromide	ND		8.0		ug/L			10/20/13 01:18	8
Hexachlorobutadiene	ND		3.2		ug/L			10/20/13 01:18	8
Isopropyl ether	ND		80		ug/L			10/20/13 01:18	8
Isopropylbenzene	ND		8.0		ug/L			10/20/13 01:18	8
Methyl tert-butyl ether	ND		8.0		ug/L			10/20/13 01:18	8
Methylene Chloride	ND		8.0		ug/L			10/20/13 01:18	8
m-Xylene & p-Xylene	ND		16		ug/L			10/20/13 01:18	8
Naphthalene	ND		40		ug/L			10/20/13 01:18	8
n-Butylbenzene	ND		8.0		ug/L			10/20/13 01:18	8
N-Propylbenzene	ND		8.0		ug/L			10/20/13 01:18	8
o-Xylene	ND		8.0		ug/L			10/20/13 01:18	8
sec-Butylbenzene	ND		8.0		ug/L			10/20/13 01:18	8
Styrene	ND		8.0		ug/L			10/20/13 01:18	8

Client Sample ID: MW-267M-20131014-01

Lab Sample ID: 480-47908-4

Date Collected: 10/14/13 10:05

Matrix: Water

Date Received: 10/15/13 07:00

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tert-amyl methyl ether	ND		40		ug/L			10/20/13 01:18	8
Tert-butyl ethyl ether	ND		40		ug/L			10/20/13 01:18	8
tert-Butylbenzene	ND		8.0		ug/L			10/20/13 01:18	8
Tetrachloroethene	ND		8.0		ug/L			10/20/13 01:18	8
Tetrahydrofuran	ND		80		ug/L			10/20/13 01:18	8
Toluene	**410**		8.0		ug/L			10/20/13 01:18	8
trans-1,2-Dichloroethene	ND		8.0		ug/L			10/20/13 01:18	8
trans-1,3-Dichloropropene	ND		3.2		ug/L			10/20/13 01:18	8
Trichloroethene	ND		8.0		ug/L			10/20/13 01:18	8
Trichlorofluoromethane	ND		8.0		ug/L			10/20/13 01:18	8
Vinyl chloride	**47**		8.0		ug/L			10/20/13 01:18	8
Dibromomethane	ND		8.0		ug/L			10/20/13 01:18	8

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*98*		*70 - 130*		*10/20/13 01:18*	*8*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 130*		*10/20/13 01:18*	*8*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*10/20/13 01:18*	*8*

Client Sample ID: MW-268M-20131014-01

Lab Sample ID: 480-47908-5

Date Collected: 10/14/13 08:40

Matrix: Water

Date Received: 10/15/13 07:00

Method: 8260C SIM - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	**12**		1.6		ug/L			10/16/13 17:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
TBA-d9 (Surr)	*67*		*50 - 150*		*10/16/13 17:43*	*1*
Dibromofluoromethane (Surr)	*100*		*50 - 150*		*10/16/13 17:43*	*1*

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		40		ug/L			10/20/13 01:42	40
1,1,1-Trichloroethane	ND		40		ug/L			10/20/13 01:42	40
1,1,2,2-Tetrachloroethane	ND		20		ug/L			10/20/13 01:42	40
1,1,2-Trichloroethane	ND		40		ug/L			10/20/13 01:42	40
1,1-Dichloroethane	ND		40		ug/L			10/20/13 01:42	40
1,1-Dichloroethene	ND		40		ug/L			10/20/13 01:42	40
1,1-Dichloropropene	ND		40		ug/L			10/20/13 01:42	40
1,2,3-Trichlorobenzene	ND		40		ug/L			10/20/13 01:42	40
1,2,3-Trichloropropane	ND		40		ug/L			10/20/13 01:42	40
1,2,4-Trichlorobenzene	ND		40		ug/L			10/20/13 01:42	40
1,2,4-Trimethylbenzene	ND		40		ug/L			10/20/13 01:42	40
1,2-Dibromo-3-Chloropropane	ND		200		ug/L			10/20/13 01:42	40
1,2-Dichlorobenzene	ND		40		ug/L			10/20/13 01:42	40
1,2-Dichloroethane	ND		40		ug/L			10/20/13 01:42	40
1,2-Dichloropropane	ND		40		ug/L			10/20/13 01:42	40
1,3,5-Trimethylbenzene	ND		40		ug/L			10/20/13 01:42	40
1,3-Dichlorobenzene	ND		40		ug/L			10/20/13 01:42	40
1,3-Dichloropropane	ND		40		ug/L			10/20/13 01:42	40

Client Sample ID: MW-268M-20131014-01
Date Collected: 10/14/13 08:40
Date Received: 10/15/13 07:00

Lab Sample ID: 480-47908-5
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	ND		40		ug/L			10/20/13 01:42	40
1,4-Dioxane	ND		2000		ug/L			10/20/13 01:42	40
2,2-Dichloropropane	ND		40		ug/L			10/20/13 01:42	40
2-Butanone (MEK)	ND		400		ug/L			10/20/13 01:42	40
2-Chlorotoluene	ND		40		ug/L			10/20/13 01:42	40
2-Hexanone	ND		400		ug/L			10/20/13 01:42	40
4-Chlorotoluene	ND		40		ug/L			10/20/13 01:42	40
4-Isopropyltoluene	ND		40		ug/L			10/20/13 01:42	40
4-Methyl-2-pentanone (MIBK)	ND		400		ug/L			10/20/13 01:42	40
Acetone	ND		2000		ug/L			10/20/13 01:42	40
Benzene	ND		40		ug/L			10/20/13 01:42	40
Bromobenzene	ND		40		ug/L			10/20/13 01:42	40
Bromoform	ND		40		ug/L			10/20/13 01:42	40
Bromomethane	ND		80		ug/L			10/20/13 01:42	40
Carbon disulfide	ND		400		ug/L			10/20/13 01:42	40
Carbon tetrachloride	ND		40		ug/L			10/20/13 01:42	40
Chlorobenzene	ND		40		ug/L			10/20/13 01:42	40
Chlorobromomethane	ND		40		ug/L			10/20/13 01:42	40
Chlorodibromomethane	ND		20		ug/L			10/20/13 01:42	40
Chloroethane	ND		80		ug/L			10/20/13 01:42	40
Chloroform	ND		40		ug/L			10/20/13 01:42	40
Chloromethane	ND		80		ug/L			10/20/13 01:42	40
cis-1,2-Dichloroethene	**2800**		40		ug/L			10/20/13 01:42	40
cis-1,3-Dichloropropene	ND		16		ug/L			10/20/13 01:42	40
Dichlorobromomethane	ND		20		ug/L			10/20/13 01:42	40
Dichlorodifluoromethane	ND		40		ug/L			10/20/13 01:42	40
Ethyl ether	ND		40		ug/L			10/20/13 01:42	40
Ethylbenzene	ND		40		ug/L			10/20/13 01:42	40
Ethylene Dibromide	ND		40		ug/L			10/20/13 01:42	40
Hexachlorobutadiene	ND		16		ug/L			10/20/13 01:42	40
Isopropyl ether	ND		400		ug/L			10/20/13 01:42	40
Isopropylbenzene	ND		40		ug/L			10/20/13 01:42	40
Methyl tert-butyl ether	ND		40		ug/L			10/20/13 01:42	40
Methylene Chloride	ND		40		ug/L			10/20/13 01:42	40
m-Xylene & p-Xylene	ND		80		ug/L			10/20/13 01:42	40
Naphthalene	ND		200		ug/L			10/20/13 01:42	40
n-Butylbenzene	ND		40		ug/L			10/20/13 01:42	40
N-Propylbenzene	ND		40		ug/L			10/20/13 01:42	40
o-Xylene	ND		40		ug/L			10/20/13 01:42	40
sec-Butylbenzene	ND		40		ug/L			10/20/13 01:42	40
Styrene	ND		40		ug/L			10/20/13 01:42	40
Tert-amyl methyl ether	ND		200		ug/L			10/20/13 01:42	40
Tert-butyl ethyl ether	ND		200		ug/L			10/20/13 01:42	40
tert-Butylbenzene	ND		40		ug/L			10/20/13 01:42	40
Tetrachloroethene	**49**		40		ug/L			10/20/13 01:42	40
Tetrahydrofuran	ND		400		ug/L			10/20/13 01:42	40
Toluene	ND		40		ug/L			10/20/13 01:42	40
trans-1,2-Dichloroethene	ND		40		ug/L			10/20/13 01:42	40
trans-1,3-Dichloropropene	ND		16		ug/L			10/20/13 01:42	40

Client Sample ID: MW-268M-20131014-01

Lab Sample ID: 480-47908-5

Date Collected: 10/14/13 08:40

Matrix: Water

Date Received: 10/15/13 07:00

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	**1300**		40		ug/L			10/20/13 01:42	40
Trichlorofluoromethane	ND		40		ug/L			10/20/13 01:42	40
Vinyl chloride	**180**		40		ug/L			10/20/13 01:42	40
Dibromomethane	ND		40		ug/L			10/20/13 01:42	40

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*98*		*70 - 130*		*10/20/13 01:42*	*40*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*		*10/20/13 01:42*	*40*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*		*10/20/13 01:42*	*40*

Client Sample ID: MW-551-20131012-01

Lab Sample ID: 480-47908-6

Date Collected: 10/12/13 10:30

Matrix: Water

Date Received: 10/15/13 07:00

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			10/20/13 02:06	1
1,1,1-Trichloroethane	ND		1.0		ug/L			10/20/13 02:06	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			10/20/13 02:06	1
1,1,2-Trichloroethane	ND		1.0		ug/L			10/20/13 02:06	1
1,1-Dichloroethane	ND		1.0		ug/L			10/20/13 02:06	1
1,1-Dichloroethene	ND		1.0		ug/L			10/20/13 02:06	1
1,1-Dichloropropene	ND		1.0		ug/L			10/20/13 02:06	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			10/20/13 02:06	1
1,2,3-Trichloropropane	ND		1.0		ug/L			10/20/13 02:06	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			10/20/13 02:06	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			10/20/13 02:06	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			10/20/13 02:06	1
1,2-Dichlorobenzene	ND		1.0		ug/L			10/20/13 02:06	1
1,2-Dichloroethane	ND		1.0		ug/L			10/20/13 02:06	1
1,2-Dichloropropane	ND		1.0		ug/L			10/20/13 02:06	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			10/20/13 02:06	1
1,3-Dichlorobenzene	ND		1.0		ug/L			10/20/13 02:06	1
1,3-Dichloropropane	ND		1.0		ug/L			10/20/13 02:06	1
1,4-Dichlorobenzene	ND		1.0		ug/L			10/20/13 02:06	1
1,4-Dioxane	ND		50		ug/L			10/20/13 02:06	1
2,2-Dichloropropane	ND		1.0		ug/L			10/20/13 02:06	1
2-Butanone (MEK)	**720**	**E**	10		ug/L			10/20/13 02:06	1
2-Chlorotoluene	ND		1.0		ug/L			10/20/13 02:06	1
2-Hexanone	ND		10		ug/L			10/20/13 02:06	1
4-Chlorotoluene	ND		1.0		ug/L			10/20/13 02:06	1
4-Isopropyltoluene	ND		1.0		ug/L			10/20/13 02:06	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			10/20/13 02:06	1
Benzene	ND		1.0		ug/L			10/20/13 02:06	1
Bromobenzene	ND		1.0		ug/L			10/20/13 02:06	1
Bromoform	ND		1.0		ug/L			10/20/13 02:06	1
Bromomethane	ND		2.0		ug/L			10/20/13 02:06	1
Carbon disulfide	ND		10		ug/L			10/20/13 02:06	1
Carbon tetrachloride	ND		1.0		ug/L			10/20/13 02:06	1
Chlorobenzene	ND		1.0		ug/L			10/20/13 02:06	1

Client Sample ID: MW-551-20131012-01

Lab Sample ID: 480-47908-6

Date Collected: 10/12/13 10:30

Matrix: Water

Date Received: 10/15/13 07:00

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobromomethane	ND		1.0		ug/L			10/20/13 02:06	1
Chlorodibromomethane	ND		0.50		ug/L			10/20/13 02:06	1
Chloroethane	ND		2.0		ug/L			10/20/13 02:06	1
Chloroform	ND		1.0		ug/L			10/20/13 02:06	1
Chloromethane	ND		2.0		ug/L			10/20/13 02:06	1
cis-1,2-Dichloroethene	**7.6**		1.0		ug/L			10/20/13 02:06	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			10/20/13 02:06	1
Dichlorobromomethane	ND		0.50		ug/L			10/20/13 02:06	1
Dichlorodifluoromethane	ND		1.0		ug/L			10/20/13 02:06	1
Ethyl ether	ND		1.0		ug/L			10/20/13 02:06	1
Ethylbenzene	ND		1.0		ug/L			10/20/13 02:06	1
Ethylene Dibromide	ND		1.0		ug/L			10/20/13 02:06	1
Hexachlorobutadiene	ND		0.40		ug/L			10/20/13 02:06	1
Isopropyl ether	ND		10		ug/L			10/20/13 02:06	1
Isopropylbenzene	ND		1.0		ug/L			10/20/13 02:06	1
Methyl tert-butyl ether	ND		1.0		ug/L			10/20/13 02:06	1
Methylene Chloride	ND		1.0		ug/L			10/20/13 02:06	1
m-Xylene & p-Xylene	ND		2.0		ug/L			10/20/13 02:06	1
Naphthalene	ND		5.0		ug/L			10/20/13 02:06	1
n-Butylbenzene	ND		1.0		ug/L			10/20/13 02:06	1
N-Propylbenzene	ND		1.0		ug/L			10/20/13 02:06	1
o-Xylene	ND		1.0		ug/L			10/20/13 02:06	1
sec-Butylbenzene	ND		1.0		ug/L			10/20/13 02:06	1
Styrene	ND		1.0		ug/L			10/20/13 02:06	1
Tert-amyl methyl ether	ND		5.0		ug/L			10/20/13 02:06	1
Tert-butyl ethyl ether	ND		5.0		ug/L			10/20/13 02:06	1
tert-Butylbenzene	ND		1.0		ug/L			10/20/13 02:06	1
Tetrachloroethene	ND		1.0		ug/L			10/20/13 02:06	1
Tetrahydrofuran	ND		10		ug/L			10/20/13 02:06	1
Toluene	ND		1.0		ug/L			10/20/13 02:06	1
trans-1,2-Dichloroethene	**1.5**		1.0		ug/L			10/20/13 02:06	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			10/20/13 02:06	1
Trichloroethene	ND		1.0		ug/L			10/20/13 02:06	1
Trichlorofluoromethane	ND		1.0		ug/L			10/20/13 02:06	1
Vinyl chloride	**120**	**E**	1.0		ug/L			10/20/13 02:06	1
Dibromomethane	ND		1.0		ug/L			10/20/13 02:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*98*		*70 - 130*		*10/20/13 02:06*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*		*10/20/13 02:06*	*1*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*		*10/20/13 02:06*	*1*

Method: 8260C - Volatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**100000**		13000		ug/L			10/21/13 12:30	250

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*98*		*70 - 130*		*10/21/13 12:30*	*250*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*		*10/21/13 12:30*	*250*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*10/21/13 12:30*	*250*

Client Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-47908-1

Client Sample ID: MW-552-20131012-01

Lab Sample ID: 480-47908-7

Date Collected: 10/12/13 08:55
Matrix: Water
Date Received: 10/15/13 07:00

Method: 8260C SIM - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		16		ug/L			10/16/13 18:07	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
TBA-d9 (Surr)	*110*		*50 - 150*		*10/16/13 18:07*	*10*
Dibromofluoromethane (Surr)	*99*		*50 - 150*		*10/16/13 18:07*	*10*

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		8.0		ug/L			10/21/13 12:54	8
1,1,1-Trichloroethane	ND		8.0		ug/L			10/21/13 12:54	8
1,1,2,2-Tetrachloroethane	ND		4.0		ug/L			10/21/13 12:54	8
1,1,2-Trichloroethane	ND		8.0		ug/L			10/21/13 12:54	8
1,1-Dichloroethane	ND		8.0		ug/L			10/21/13 12:54	8
1,1-Dichloroethene	ND		8.0		ug/L			10/21/13 12:54	8
1,1-Dichloropropene	ND		8.0		ug/L			10/21/13 12:54	8
1,2,3-Trichlorobenzene	ND		8.0		ug/L			10/21/13 12:54	8
1,2,3-Trichloropropane	ND		8.0		ug/L			10/21/13 12:54	8
1,2,4-Trichlorobenzene	ND		8.0		ug/L			10/21/13 12:54	8
1,2,4-Trimethylbenzene	ND		8.0		ug/L			10/21/13 12:54	8
1,2-Dibromo-3-Chloropropane	ND		40		ug/L			10/21/13 12:54	8
1,2-Dichlorobenzene	ND		8.0		ug/L			10/21/13 12:54	8
1,2-Dichloroethane	ND		8.0		ug/L			10/21/13 12:54	8
1,2-Dichloropropane	ND		8.0		ug/L			10/21/13 12:54	8
1,3,5-Trimethylbenzene	ND		8.0		ug/L			10/21/13 12:54	8
1,3-Dichlorobenzene	ND		8.0		ug/L			10/21/13 12:54	8
1,3-Dichloropropane	ND		8.0		ug/L			10/21/13 12:54	8
1,4-Dichlorobenzene	ND		8.0		ug/L			10/21/13 12:54	8
1,4-Dioxane	ND		400		ug/L			10/21/13 12:54	8
2,2-Dichloropropane	ND		8.0		ug/L			10/21/13 12:54	8
2-Butanone (MEK)	ND	*	80		ug/L			10/21/13 12:54	8
2-Chlorotoluene	ND		8.0		ug/L			10/21/13 12:54	8
2-Hexanone	ND		80		ug/L			10/21/13 12:54	8
4-Chlorotoluene	ND		8.0		ug/L			10/21/13 12:54	8
4-Isopropyltoluene	ND		8.0		ug/L			10/21/13 12:54	8
4-Methyl-2-pentanone (MIBK)	ND		80		ug/L			10/21/13 12:54	8
Acetone	**2500**		400		ug/L			10/21/13 12:54	8
Benzene	ND		8.0		ug/L			10/21/13 12:54	8
Bromobenzene	ND		8.0		ug/L			10/21/13 12:54	8
Bromoform	ND		8.0		ug/L			10/21/13 12:54	8
Bromomethane	ND		16		ug/L			10/21/13 12:54	8
Carbon disulfide	ND		80		ug/L			10/21/13 12:54	8
Carbon tetrachloride	ND		8.0		ug/L			10/21/13 12:54	8
Chlorobenzene	ND		8.0		ug/L			10/21/13 12:54	8
Chlorobromomethane	ND		8.0		ug/L			10/21/13 12:54	8
Chlorodibromomethane	ND		4.0		ug/L			10/21/13 12:54	8
Chloroethane	ND		16		ug/L			10/21/13 12:54	8
Chloroform	ND		8.0		ug/L			10/21/13 12:54	8
Chloromethane	ND		16		ug/L			10/21/13 12:54	8
cis-1,2-Dichloroethene	ND		8.0		ug/L			10/21/13 12:54	8
cis-1,3-Dichloropropene	ND		3.2		ug/L			10/21/13 12:54	8

Client Sample ID: MW-552-20131012-01

Lab Sample ID: 480-47908-7

Date Collected: 10/12/13 08:55

Matrix: Water

Date Received: 10/15/13 07:00

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorobromomethane	ND		4.0		ug/L			10/21/13 12:54	8
Dichlorodifluoromethane	ND		8.0		ug/L			10/21/13 12:54	8
Ethyl ether	ND		8.0		ug/L			10/21/13 12:54	8
Ethylbenzene	ND		8.0		ug/L			10/21/13 12:54	8
Ethylene Dibromide	ND		8.0		ug/L			10/21/13 12:54	8
Hexachlorobutadiene	ND		3.2		ug/L			10/21/13 12:54	8
Isopropyl ether	ND		80		ug/L			10/21/13 12:54	8
Isopropylbenzene	ND		8.0		ug/L			10/21/13 12:54	8
Methyl tert-butyl ether	ND		8.0		ug/L			10/21/13 12:54	8
Methylene Chloride	ND		8.0		ug/L			10/21/13 12:54	8
m-Xylene & p-Xylene	ND		16		ug/L			10/21/13 12:54	8
Naphthalene	ND		40		ug/L			10/21/13 12:54	8
n-Butylbenzene	ND		8.0		ug/L			10/21/13 12:54	8
N-Propylbenzene	ND		8.0		ug/L			10/21/13 12:54	8
o-Xylene	ND		8.0		ug/L			10/21/13 12:54	8
sec-Butylbenzene	ND		8.0		ug/L			10/21/13 12:54	8
Styrene	ND		8.0		ug/L			10/21/13 12:54	8
Tert-amyl methyl ether	ND		40		ug/L			10/21/13 12:54	8
Tert-butyl ethyl ether	ND		40		ug/L			10/21/13 12:54	8
tert-Butylbenzene	ND		8.0		ug/L			10/21/13 12:54	8
Tetrachloroethene	ND		8.0		ug/L			10/21/13 12:54	8
Tetrahydrofuran	ND		80		ug/L			10/21/13 12:54	8
Toluene	ND		8.0		ug/L			10/21/13 12:54	8
trans-1,2-Dichloroethene	ND		8.0		ug/L			10/21/13 12:54	8
trans-1,3-Dichloropropene	ND		3.2		ug/L			10/21/13 12:54	8
Trichloroethene	ND		8.0		ug/L			10/21/13 12:54	8
Trichlorofluoromethane	ND		8.0		ug/L			10/21/13 12:54	8
Vinyl chloride	**19**		8.0		ug/L			10/21/13 12:54	8
Dibromomethane	ND		8.0		ug/L			10/21/13 12:54	8

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*100*		*70 - 130*		*10/21/13 12:54*	*8*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 130*		*10/21/13 12:54*	*8*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*		*10/21/13 12:54*	*8*

Client Sample ID: MW-553-20131012-01

Lab Sample ID: 480-47908-8

Date Collected: 10/12/13 08:15

Matrix: Water

Date Received: 10/15/13 07:00

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			10/20/13 02:53	1
1,1,1-Trichloroethane	ND		1.0		ug/L			10/20/13 02:53	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			10/20/13 02:53	1
1,1,2-Trichloroethane	ND		1.0		ug/L			10/20/13 02:53	1
1,1-Dichloroethane	ND		1.0		ug/L			10/20/13 02:53	1
1,1-Dichloroethene	ND		1.0		ug/L			10/20/13 02:53	1
1,1-Dichloropropene	ND		1.0		ug/L			10/20/13 02:53	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			10/20/13 02:53	1
1,2,3-Trichloropropane	ND		1.0		ug/L			10/20/13 02:53	1

Client Sample ID: MW-553-20131012-01
Date Collected: 10/12/13 08:15
Date Received: 10/15/13 07:00

Lab Sample ID: 480-47908-8
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		1.0		ug/L			10/20/13 02:53	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			10/20/13 02:53	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			10/20/13 02:53	1
1,2-Dichlorobenzene	ND		1.0		ug/L			10/20/13 02:53	1
1,2-Dichloroethane	ND		1.0		ug/L			10/20/13 02:53	1
1,2-Dichloropropane	ND		1.0		ug/L			10/20/13 02:53	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			10/20/13 02:53	1
1,3-Dichlorobenzene	ND		1.0		ug/L			10/20/13 02:53	1
1,3-Dichloropropane	ND		1.0		ug/L			10/20/13 02:53	1
1,4-Dichlorobenzene	ND		1.0		ug/L			10/20/13 02:53	1
1,4-Dioxane	ND		50		ug/L			10/20/13 02:53	1
2,2-Dichloropropane	ND		1.0		ug/L			10/20/13 02:53	1
2-Butanone (MEK)	**11**		10		ug/L			10/20/13 02:53	1
2-Chlorotoluene	ND		1.0		ug/L			10/20/13 02:53	1
2-Hexanone	ND		10		ug/L			10/20/13 02:53	1
4-Chlorotoluene	ND		1.0		ug/L			10/20/13 02:53	1
4-Isopropyltoluene	ND		1.0		ug/L			10/20/13 02:53	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			10/20/13 02:53	1
Benzene	ND		1.0		ug/L			10/20/13 02:53	1
Bromobenzene	ND		1.0		ug/L			10/20/13 02:53	1
Bromoform	ND		1.0		ug/L			10/20/13 02:53	1
Bromomethane	ND		2.0		ug/L			10/20/13 02:53	1
Carbon disulfide	ND		10		ug/L			10/20/13 02:53	1
Carbon tetrachloride	ND		1.0		ug/L			10/20/13 02:53	1
Chlorobenzene	ND		1.0		ug/L			10/20/13 02:53	1
Chlorobromomethane	ND		1.0		ug/L			10/20/13 02:53	1
Chlorodibromomethane	ND		0.50		ug/L			10/20/13 02:53	1
Chloroethane	ND		2.0		ug/L			10/20/13 02:53	1
Chloroform	ND		1.0		ug/L			10/20/13 02:53	1
Chloromethane	ND		2.0		ug/L			10/20/13 02:53	1
cis-1,2-Dichloroethene	**15**		1.0		ug/L			10/20/13 02:53	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			10/20/13 02:53	1
Dichlorobromomethane	ND		0.50		ug/L			10/20/13 02:53	1
Dichlorodifluoromethane	ND		1.0		ug/L			10/20/13 02:53	1
Ethyl ether	ND		1.0		ug/L			10/20/13 02:53	1
Ethylbenzene	ND		1.0		ug/L			10/20/13 02:53	1
Ethylene Dibromide	ND		1.0		ug/L			10/20/13 02:53	1
Hexachlorobutadiene	ND		0.40		ug/L			10/20/13 02:53	1
Isopropyl ether	ND		10		ug/L			10/20/13 02:53	1
Isopropylbenzene	ND		1.0		ug/L			10/20/13 02:53	1
Methyl tert-butyl ether	ND		1.0		ug/L			10/20/13 02:53	1
Methylene Chloride	ND		1.0		ug/L			10/20/13 02:53	1
m-Xylene & p-Xylene	ND		2.0		ug/L			10/20/13 02:53	1
Naphthalene	ND		5.0		ug/L			10/20/13 02:53	1
n-Butylbenzene	ND		1.0		ug/L			10/20/13 02:53	1
N-Propylbenzene	ND		1.0		ug/L			10/20/13 02:53	1
o-Xylene	ND		1.0		ug/L			10/20/13 02:53	1
sec-Butylbenzene	ND		1.0		ug/L			10/20/13 02:53	1
Styrene	ND		1.0		ug/L			10/20/13 02:53	1

Client Sample ID: MW-553-20131012-01

Lab Sample ID: 480-47908-8

Date Collected: 10/12/13 08:15

Matrix: Water

Date Received: 10/15/13 07:00

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tert-amyl methyl ether	ND		5.0		ug/L			10/20/13 02:53	1
Tert-butyl ethyl ether	ND		5.0		ug/L			10/20/13 02:53	1
tert-Butylbenzene	ND		1.0		ug/L			10/20/13 02:53	1
Tetrachloroethene	ND		1.0		ug/L			10/20/13 02:53	1
Tetrahydrofuran	ND		10		ug/L			10/20/13 02:53	1
Toluene	ND		1.0		ug/L			10/20/13 02:53	1
trans-1,2-Dichloroethene	**2.1**		1.0		ug/L			10/20/13 02:53	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			10/20/13 02:53	1
Trichloroethene	ND		1.0		ug/L			10/20/13 02:53	1
Trichlorofluoromethane	ND		1.0		ug/L			10/20/13 02:53	1
Vinyl chloride	**35**		1.0		ug/L			10/20/13 02:53	1
Dibromomethane	ND		1.0		ug/L			10/20/13 02:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*95*		*70 - 130*		*10/20/13 02:53*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 130*		*10/20/13 02:53*	*1*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*		*10/20/13 02:53*	*1*

Method: 8260C - Volatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**1200**		250		ug/L			10/20/13 17:32	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*98*		*70 - 130*		*10/20/13 17:32*	*5*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 130*		*10/20/13 17:32*	*5*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*		*10/20/13 17:32*	*5*

Client Sample ID: MW-560-20131014-01

Lab Sample ID: 480-47908-9

Date Collected: 10/14/13 11:25

Matrix: Water

Date Received: 10/15/13 07:00

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			10/20/13 03:17	1
1,1,1-Trichloroethane	ND		1.0		ug/L			10/20/13 03:17	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			10/20/13 03:17	1
1,1,2-Trichloroethane	ND		1.0		ug/L			10/20/13 03:17	1
1,1-Dichloroethane	ND		1.0		ug/L			10/20/13 03:17	1
1,1-Dichloroethene	ND		1.0		ug/L			10/20/13 03:17	1
1,1-Dichloropropene	ND		1.0		ug/L			10/20/13 03:17	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			10/20/13 03:17	1
1,2,3-Trichloropropane	ND		1.0		ug/L			10/20/13 03:17	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			10/20/13 03:17	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			10/20/13 03:17	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			10/20/13 03:17	1
1,2-Dichlorobenzene	ND		1.0		ug/L			10/20/13 03:17	1
1,2-Dichloroethane	ND		1.0		ug/L			10/20/13 03:17	1
1,2-Dichloropropane	ND		1.0		ug/L			10/20/13 03:17	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			10/20/13 03:17	1
1,3-Dichlorobenzene	ND		1.0		ug/L			10/20/13 03:17	1

Client Sample ID: MW-560-20131014-01
Date Collected: 10/14/13 11:25
Date Received: 10/15/13 07:00

Lab Sample ID: 480-47908-9
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichloropropane	ND		1.0		ug/L			10/20/13 03:17	1
1,4-Dichlorobenzene	ND		1.0		ug/L			10/20/13 03:17	1
1,4-Dioxane	ND		50		ug/L			10/20/13 03:17	1
2,2-Dichloropropane	ND		1.0		ug/L			10/20/13 03:17	1
2-Butanone (MEK)	**14**		10		ug/L			10/20/13 03:17	1
2-Chlorotoluene	ND		1.0		ug/L			10/20/13 03:17	1
2-Hexanone	ND		10		ug/L			10/20/13 03:17	1
4-Chlorotoluene	ND		1.0		ug/L			10/20/13 03:17	1
4-Isopropyltoluene	ND		1.0		ug/L			10/20/13 03:17	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			10/20/13 03:17	1
Acetone	**99**		50		ug/L			10/20/13 03:17	1
Benzene	ND		1.0		ug/L			10/20/13 03:17	1
Bromobenzene	ND		1.0		ug/L			10/20/13 03:17	1
Bromoform	ND		1.0		ug/L			10/20/13 03:17	1
Bromomethane	ND		2.0		ug/L			10/20/13 03:17	1
Carbon disulfide	ND		10		ug/L			10/20/13 03:17	1
Carbon tetrachloride	ND		1.0		ug/L			10/20/13 03:17	1
Chlorobenzene	ND		1.0		ug/L			10/20/13 03:17	1
Chlorobromomethane	ND		1.0		ug/L			10/20/13 03:17	1
Chlorodibromomethane	ND		0.50		ug/L			10/20/13 03:17	1
Chloroethane	ND		2.0		ug/L			10/20/13 03:17	1
Chloroform	ND		1.0		ug/L			10/20/13 03:17	1
Chloromethane	ND		2.0		ug/L			10/20/13 03:17	1
cis-1,2-Dichloroethene	**89**		1.0		ug/L			10/20/13 03:17	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			10/20/13 03:17	1
Dichlorobromomethane	ND		0.50		ug/L			10/20/13 03:17	1
Dichlorodifluoromethane	ND		1.0		ug/L			10/20/13 03:17	1
Ethyl ether	ND		1.0		ug/L			10/20/13 03:17	1
Ethylbenzene	**1.0**		1.0		ug/L			10/20/13 03:17	1
Ethylene Dibromide	ND		1.0		ug/L			10/20/13 03:17	1
Hexachlorobutadiene	ND		0.40		ug/L			10/20/13 03:17	1
Isopropyl ether	ND		10		ug/L			10/20/13 03:17	1
Isopropylbenzene	ND		1.0		ug/L			10/20/13 03:17	1
Methyl tert-butyl ether	ND		1.0		ug/L			10/20/13 03:17	1
Methylene Chloride	ND		1.0		ug/L			10/20/13 03:17	1
m-Xylene & p-Xylene	**4.2**		2.0		ug/L			10/20/13 03:17	1
Naphthalene	ND		5.0		ug/L			10/20/13 03:17	1
n-Butylbenzene	ND		1.0		ug/L			10/20/13 03:17	1
N-Propylbenzene	ND		1.0		ug/L			10/20/13 03:17	1
o-Xylene	ND		1.0		ug/L			10/20/13 03:17	1
sec-Butylbenzene	ND		1.0		ug/L			10/20/13 03:17	1
Styrene	ND		1.0		ug/L			10/20/13 03:17	1
Tert-amyl methyl ether	ND		5.0		ug/L			10/20/13 03:17	1
Tert-butyl ethyl ether	ND		5.0		ug/L			10/20/13 03:17	1
tert-Butylbenzene	ND		1.0		ug/L			10/20/13 03:17	1
Tetrachloroethene	ND		1.0		ug/L			10/20/13 03:17	1
Tetrahydrofuran	ND		10		ug/L			10/20/13 03:17	1
Toluene	**7.6**		1.0		ug/L			10/20/13 03:17	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			10/20/13 03:17	1

Client Sample ID: MW-560-20131014-01

Lab Sample ID: 480-47908-9

Date Collected: 10/14/13 11:25

Matrix: Water

Date Received: 10/15/13 07:00

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	ND		0.40		ug/L			10/20/13 03:17	1
Trichloroethene	**2.1**		1.0		ug/L			10/20/13 03:17	1
Trichlorofluoromethane	ND		1.0		ug/L			10/20/13 03:17	1
Vinyl chloride	**8.7**		1.0		ug/L			10/20/13 03:17	1
Dibromomethane	ND		1.0		ug/L			10/20/13 03:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*99*		*70 - 130*		*10/20/13 03:17*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 130*		*10/20/13 03:17*	*1*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*10/20/13 03:17*	*1*

Client Sample ID: MW-561-20131014-01

Lab Sample ID: 480-47908-10

Date Collected: 10/14/13 12:50

Matrix: Water

Date Received: 10/15/13 07:00

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			10/20/13 03:40	1
1,1,1-Trichloroethane	ND		1.0		ug/L			10/20/13 03:40	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			10/20/13 03:40	1
1,1,2-Trichloroethane	ND		1.0		ug/L			10/20/13 03:40	1
1,1-Dichloroethane	ND		1.0		ug/L			10/20/13 03:40	1
1,1-Dichloroethene	ND		1.0		ug/L			10/20/13 03:40	1
1,1-Dichloropropene	ND		1.0		ug/L			10/20/13 03:40	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			10/20/13 03:40	1
1,2,3-Trichloropropane	ND		1.0		ug/L			10/20/13 03:40	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			10/20/13 03:40	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			10/20/13 03:40	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			10/20/13 03:40	1
1,2-Dichlorobenzene	ND		1.0		ug/L			10/20/13 03:40	1
1,2-Dichloroethane	ND		1.0		ug/L			10/20/13 03:40	1
1,2-Dichloropropane	ND		1.0		ug/L			10/20/13 03:40	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			10/20/13 03:40	1
1,3-Dichlorobenzene	ND		1.0		ug/L			10/20/13 03:40	1
1,3-Dichloropropane	ND		1.0		ug/L			10/20/13 03:40	1
1,4-Dichlorobenzene	ND		1.0		ug/L			10/20/13 03:40	1
1,4-Dioxane	ND		50		ug/L			10/20/13 03:40	1
2,2-Dichloropropane	ND		1.0		ug/L			10/20/13 03:40	1
2-Butanone (MEK)	**27**		10		ug/L			10/20/13 03:40	1
2-Chlorotoluene	ND		1.0		ug/L			10/20/13 03:40	1
2-Hexanone	ND		10		ug/L			10/20/13 03:40	1
4-Chlorotoluene	ND		1.0		ug/L			10/20/13 03:40	1
4-Isopropyltoluene	ND		1.0		ug/L			10/20/13 03:40	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			10/20/13 03:40	1
Acetone	ND		50		ug/L			10/20/13 03:40	1
Benzene	ND		1.0		ug/L			10/20/13 03:40	1
Bromobenzene	ND		1.0		ug/L			10/20/13 03:40	1
Bromoform	ND		1.0		ug/L			10/20/13 03:40	1
Bromomethane	ND		2.0		ug/L			10/20/13 03:40	1
Carbon disulfide	ND		10		ug/L			10/20/13 03:40	1

Client Sample ID: MW-561-20131014-01

Lab Sample ID: 480-47908-10

Date Collected: 10/14/13 12:50

Matrix: Water

Date Received: 10/15/13 07:00

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	ND		1.0		ug/L			10/20/13 03:40	1
Chlorobenzene	ND		1.0		ug/L			10/20/13 03:40	1
Chlorobromomethane	ND		1.0		ug/L			10/20/13 03:40	1
Chlorodibromomethane	ND		0.50		ug/L			10/20/13 03:40	1
Chloroethane	ND		2.0		ug/L			10/20/13 03:40	1
Chloroform	ND		1.0		ug/L			10/20/13 03:40	1
Chloromethane	ND		2.0		ug/L			10/20/13 03:40	1
cis-1,2-Dichloroethene	**2.7**		1.0		ug/L			10/20/13 03:40	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			10/20/13 03:40	1
Dichlorobromomethane	ND		0.50		ug/L			10/20/13 03:40	1
Dichlorodifluoromethane	ND		1.0		ug/L			10/20/13 03:40	1
Ethyl ether	ND		1.0		ug/L			10/20/13 03:40	1
Ethylbenzene	**9.2**		1.0		ug/L			10/20/13 03:40	1
Ethylene Dibromide	ND		1.0		ug/L			10/20/13 03:40	1
Hexachlorobutadiene	ND		0.40		ug/L			10/20/13 03:40	1
Isopropyl ether	ND		10		ug/L			10/20/13 03:40	1
Isopropylbenzene	ND		1.0		ug/L			10/20/13 03:40	1
Methyl tert-butyl ether	ND		1.0		ug/L			10/20/13 03:40	1
Methylene Chloride	ND		1.0		ug/L			10/20/13 03:40	1
m-Xylene & p-Xylene	**39**		2.0		ug/L			10/20/13 03:40	1
Naphthalene	ND		5.0		ug/L			10/20/13 03:40	1
n-Butylbenzene	ND		1.0		ug/L			10/20/13 03:40	1
N-Propylbenzene	ND		1.0		ug/L			10/20/13 03:40	1
o-Xylene	**8.5**		1.0		ug/L			10/20/13 03:40	1
sec-Butylbenzene	ND		1.0		ug/L			10/20/13 03:40	1
Styrene	ND		1.0		ug/L			10/20/13 03:40	1
Tert-amyl methyl ether	ND		5.0		ug/L			10/20/13 03:40	1
Tert-butyl ethyl ether	ND		5.0		ug/L			10/20/13 03:40	1
tert-Butylbenzene	ND		1.0		ug/L			10/20/13 03:40	1
Tetrachloroethene	ND		1.0		ug/L			10/20/13 03:40	1
Tetrahydrofuran	ND		10		ug/L			10/20/13 03:40	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			10/20/13 03:40	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			10/20/13 03:40	1
Trichloroethene	ND		1.0		ug/L			10/20/13 03:40	1
Trichlorofluoromethane	ND		1.0		ug/L			10/20/13 03:40	1
Dibromomethane	ND		1.0		ug/L			10/20/13 03:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*95*		*70 - 130*		*10/20/13 03:40*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 130*		*10/20/13 03:40*	*1*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*		*10/20/13 03:40*	*1*

Method: 8260C - Volatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	**1600**		20		ug/L			10/20/13 17:56	20
Vinyl chloride	**300**		20		ug/L			10/20/13 17:56	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*97*		*70 - 130*		*10/20/13 17:56*	*20*
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 130*		*10/20/13 17:56*	*20*

Client Sample ID: MW-561-20131014-01

Lab Sample ID: 480-47908-10

Date Collected: 10/14/13 12:50
Matrix: Water
Date Received: 10/15/13 07:00

Method: 8260C - Volatile Organic Compounds (GC/MS) - DL (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130		10/20/13 17:56	20

Client Sample ID: MW-562-20131012-01

Lab Sample ID: 480-47908-11

Date Collected: 10/12/13 11:10
Matrix: Water
Date Received: 10/15/13 07:00

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			10/20/13 15:34	1
1,1,1-Trichloroethane	ND		1.0		ug/L			10/20/13 15:34	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			10/20/13 15:34	1
1,1,2-Trichloroethane	ND		1.0		ug/L			10/20/13 15:34	1
1,1-Dichloroethane	ND		1.0		ug/L			10/20/13 15:34	1
1,1-Dichloroethene	ND		1.0		ug/L			10/20/13 15:34	1
1,1-Dichloropropene	ND		1.0		ug/L			10/20/13 15:34	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			10/20/13 15:34	1
1,2,3-Trichloropropane	ND		1.0		ug/L			10/20/13 15:34	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			10/20/13 15:34	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			10/20/13 15:34	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			10/20/13 15:34	1
1,2-Dichlorobenzene	ND		1.0		ug/L			10/20/13 15:34	1
1,2-Dichloroethane	ND		1.0		ug/L			10/20/13 15:34	1
1,2-Dichloropropane	ND		1.0		ug/L			10/20/13 15:34	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			10/20/13 15:34	1
1,3-Dichlorobenzene	ND		1.0		ug/L			10/20/13 15:34	1
1,3-Dichloropropane	ND		1.0		ug/L			10/20/13 15:34	1
1,4-Dichlorobenzene	ND		1.0		ug/L			10/20/13 15:34	1
1,4-Dioxane	ND		50		ug/L			10/20/13 15:34	1
2,2-Dichloropropane	ND		1.0		ug/L			10/20/13 15:34	1
2-Butanone (MEK)	ND	*	10		ug/L			10/20/13 15:34	1
2-Chlorotoluene	ND		1.0		ug/L			10/20/13 15:34	1
2-Hexanone	ND		10		ug/L			10/20/13 15:34	1
4-Chlorotoluene	ND		1.0		ug/L			10/20/13 15:34	1
4-Isopropyltoluene	ND		1.0		ug/L			10/20/13 15:34	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			10/20/13 15:34	1
Acetone	**220**		50		ug/L			10/20/13 15:34	1
Benzene	ND		1.0		ug/L			10/20/13 15:34	1
Bromobenzene	ND		1.0		ug/L			10/20/13 15:34	1
Bromoform	ND		1.0		ug/L			10/20/13 15:34	1
Bromomethane	ND		2.0		ug/L			10/20/13 15:34	1
Carbon disulfide	ND		10		ug/L			10/20/13 15:34	1
Carbon tetrachloride	ND		1.0		ug/L			10/20/13 15:34	1
Chlorobenzene	ND		1.0		ug/L			10/20/13 15:34	1
Chlorobromomethane	ND		1.0		ug/L			10/20/13 15:34	1
Chlorodibromomethane	ND		0.50		ug/L			10/20/13 15:34	1
Chloroethane	ND		2.0		ug/L			10/20/13 15:34	1
Chloroform	ND		1.0		ug/L			10/20/13 15:34	1
Chloromethane	ND		2.0		ug/L			10/20/13 15:34	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			10/20/13 15:34	1

Client Sample ID: MW-562-20131012-01

Lab Sample ID: 480-47908-11

Date Collected: 10/12/13 11:10

Matrix: Water

Date Received: 10/15/13 07:00

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND		0.40		ug/L			10/20/13 15:34	1
Dichlorobromomethane	ND		0.50		ug/L			10/20/13 15:34	1
Dichlorodifluoromethane	ND		1.0		ug/L			10/20/13 15:34	1
Ethyl ether	ND		1.0		ug/L			10/20/13 15:34	1
Ethylbenzene	ND		1.0		ug/L			10/20/13 15:34	1
Ethylene Dibromide	ND		1.0		ug/L			10/20/13 15:34	1
Hexachlorobutadiene	ND		0.40		ug/L			10/20/13 15:34	1
Isopropyl ether	ND		10		ug/L			10/20/13 15:34	1
Isopropylbenzene	ND		1.0		ug/L			10/20/13 15:34	1
Methyl tert-butyl ether	ND		1.0		ug/L			10/20/13 15:34	1
Methylene Chloride	ND		1.0		ug/L			10/20/13 15:34	1
m-Xylene & p-Xylene	ND		2.0		ug/L			10/20/13 15:34	1
Naphthalene	ND		5.0		ug/L			10/20/13 15:34	1
n-Butylbenzene	ND		1.0		ug/L			10/20/13 15:34	1
N-Propylbenzene	ND		1.0		ug/L			10/20/13 15:34	1
o-Xylene	ND		1.0		ug/L			10/20/13 15:34	1
sec-Butylbenzene	ND		1.0		ug/L			10/20/13 15:34	1
Styrene	ND		1.0		ug/L			10/20/13 15:34	1
Tert-amyl methyl ether	ND		5.0		ug/L			10/20/13 15:34	1
Tert-butyl ethyl ether	ND		5.0		ug/L			10/20/13 15:34	1
tert-Butylbenzene	ND		1.0		ug/L			10/20/13 15:34	1
Tetrachloroethene	ND		1.0		ug/L			10/20/13 15:34	1
Tetrahydrofuran	ND		10		ug/L			10/20/13 15:34	1
Toluene	ND		1.0		ug/L			10/20/13 15:34	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			10/20/13 15:34	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			10/20/13 15:34	1
Trichloroethene	ND		1.0		ug/L			10/20/13 15:34	1
Trichlorofluoromethane	ND		1.0		ug/L			10/20/13 15:34	1
Vinyl chloride	ND		1.0		ug/L			10/20/13 15:34	1
Dibromomethane	ND		1.0		ug/L			10/20/13 15:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*96*		*70 - 130*		*10/20/13 15:34*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 130*		*10/20/13 15:34*	*1*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*		*10/20/13 15:34*	*1*

Client Sample ID: MW-563-20131014-01

Lab Sample ID: 480-47908-12

Date Collected: 10/14/13 12:05

Matrix: Water

Date Received: 10/15/13 07:00

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.0		ug/L			10/20/13 04:27	5
1,1,1-Trichloroethane	ND		5.0		ug/L			10/20/13 04:27	5
1,1,2,2-Tetrachloroethane	ND		2.5		ug/L			10/20/13 04:27	5
1,1,2-Trichloroethane	ND		5.0		ug/L			10/20/13 04:27	5
1,1-Dichloroethane	ND		5.0		ug/L			10/20/13 04:27	5
1,1-Dichloroethene	ND		5.0		ug/L			10/20/13 04:27	5
1,1-Dichloropropene	ND		5.0		ug/L			10/20/13 04:27	5
1,2,3-Trichlorobenzene	ND		5.0		ug/L			10/20/13 04:27	5

Client Sample ID: MW-563-20131014-01
Date Collected: 10/14/13 12:05
Date Received: 10/15/13 07:00

Lab Sample ID: 480-47908-12
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		5.0		ug/L			10/20/13 04:27	5
1,2,4-Trichlorobenzene	ND		5.0		ug/L			10/20/13 04:27	5
1,2,4-Trimethylbenzene	ND		5.0		ug/L			10/20/13 04:27	5
1,2-Dibromo-3-Chloropropane	ND		25		ug/L			10/20/13 04:27	5
1,2-Dichlorobenzene	ND		5.0		ug/L			10/20/13 04:27	5
1,2-Dichloroethane	ND		5.0		ug/L			10/20/13 04:27	5
1,2-Dichloropropane	ND		5.0		ug/L			10/20/13 04:27	5
1,3,5-Trimethylbenzene	ND		5.0		ug/L			10/20/13 04:27	5
1,3-Dichlorobenzene	ND		5.0		ug/L			10/20/13 04:27	5
1,3-Dichloropropane	ND		5.0		ug/L			10/20/13 04:27	5
1,4-Dichlorobenzene	ND		5.0		ug/L			10/20/13 04:27	5
1,4-Dioxane	ND		250		ug/L			10/20/13 04:27	5
2,2-Dichloropropane	ND		5.0		ug/L			10/20/13 04:27	5
2-Butanone (MEK)	**110**		50		ug/L			10/20/13 04:27	5
2-Chlorotoluene	ND		5.0		ug/L			10/20/13 04:27	5
2-Hexanone	ND		50		ug/L			10/20/13 04:27	5
4-Chlorotoluene	ND		5.0		ug/L			10/20/13 04:27	5
4-Isopropyltoluene	ND		5.0		ug/L			10/20/13 04:27	5
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			10/20/13 04:27	5
Acetone	ND		250		ug/L			10/20/13 04:27	5
Benzene	ND		5.0		ug/L			10/20/13 04:27	5
Bromobenzene	ND		5.0		ug/L			10/20/13 04:27	5
Bromoform	ND		5.0		ug/L			10/20/13 04:27	5
Bromomethane	ND		10		ug/L			10/20/13 04:27	5
Carbon disulfide	ND		50		ug/L			10/20/13 04:27	5
Carbon tetrachloride	ND		5.0		ug/L			10/20/13 04:27	5
Chlorobenzene	ND		5.0		ug/L			10/20/13 04:27	5
Chlorobromomethane	ND		5.0		ug/L			10/20/13 04:27	5
Chlorodibromomethane	ND		2.5		ug/L			10/20/13 04:27	5
Chloroethane	ND		10		ug/L			10/20/13 04:27	5
Chloroform	ND		5.0		ug/L			10/20/13 04:27	5
Chloromethane	ND		10		ug/L			10/20/13 04:27	5
cis-1,2-Dichloroethene	**230**		5.0		ug/L			10/20/13 04:27	5
cis-1,3-Dichloropropene	ND		2.0		ug/L			10/20/13 04:27	5
Dichlorobromomethane	ND		2.5		ug/L			10/20/13 04:27	5
Dichlorodifluoromethane	ND		5.0		ug/L			10/20/13 04:27	5
Ethyl ether	ND		5.0		ug/L			10/20/13 04:27	5
Ethylbenzene	ND		5.0		ug/L			10/20/13 04:27	5
Ethylene Dibromide	ND		5.0		ug/L			10/20/13 04:27	5
Hexachlorobutadiene	ND		2.0		ug/L			10/20/13 04:27	5
Isopropyl ether	ND		50		ug/L			10/20/13 04:27	5
Isopropylbenzene	ND		5.0		ug/L			10/20/13 04:27	5
Methyl tert-butyl ether	ND		5.0		ug/L			10/20/13 04:27	5
Methylene Chloride	ND		5.0		ug/L			10/20/13 04:27	5
m-Xylene & p-Xylene	**14**		10		ug/L			10/20/13 04:27	5
Naphthalene	ND		25		ug/L			10/20/13 04:27	5
n-Butylbenzene	ND		5.0		ug/L			10/20/13 04:27	5
N-Propylbenzene	ND		5.0		ug/L			10/20/13 04:27	5
o-Xylene	ND		5.0		ug/L			10/20/13 04:27	5

Client Sample ID: MW-563-20131014-01

Lab Sample ID: 480-47908-12

Date Collected: 10/14/13 12:05

Matrix: Water

Date Received: 10/15/13 07:00

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		5.0		ug/L			10/20/13 04:27	5
Styrene	ND		5.0		ug/L			10/20/13 04:27	5
Tert-amyl methyl ether	ND		25		ug/L			10/20/13 04:27	5
Tert-butyl ethyl ether	ND		25		ug/L			10/20/13 04:27	5
tert-Butylbenzene	ND		5.0		ug/L			10/20/13 04:27	5
Tetrachloroethene	ND		5.0		ug/L			10/20/13 04:27	5
Tetrahydrofuran	ND		50		ug/L			10/20/13 04:27	5
Toluene	**27**		5.0		ug/L			10/20/13 04:27	5
trans-1,2-Dichloroethene	ND		5.0		ug/L			10/20/13 04:27	5
trans-1,3-Dichloropropene	ND		2.0		ug/L			10/20/13 04:27	5
Trichloroethene	ND		5.0		ug/L			10/20/13 04:27	5
Trichlorofluoromethane	ND		5.0		ug/L			10/20/13 04:27	5
Vinyl chloride	**130**		5.0		ug/L			10/20/13 04:27	5
Dibromomethane	ND		5.0		ug/L			10/20/13 04:27	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*98*		*70 - 130*		*10/20/13 04:27*	*5*
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 130*		*10/20/13 04:27*	*5*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*10/20/13 04:27*	*5*

Client Sample ID: REW-1-20131012-01

Lab Sample ID: 480-47908-13

Date Collected: 10/12/13 12:05

Matrix: Water

Date Received: 10/15/13 07:00

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			10/20/13 04:51	1
1,1,1-Trichloroethane	ND		1.0		ug/L			10/20/13 04:51	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			10/20/13 04:51	1
1,1,2-Trichloroethane	ND		1.0		ug/L			10/20/13 04:51	1
1,1-Dichloroethane	ND		1.0		ug/L			10/20/13 04:51	1
1,1-Dichloroethene	ND		1.0		ug/L			10/20/13 04:51	1
1,1-Dichloropropene	ND		1.0		ug/L			10/20/13 04:51	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			10/20/13 04:51	1
1,2,3-Trichloropropane	ND		1.0		ug/L			10/20/13 04:51	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			10/20/13 04:51	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			10/20/13 04:51	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			10/20/13 04:51	1
1,2-Dichlorobenzene	ND		1.0		ug/L			10/20/13 04:51	1
1,2-Dichloroethane	ND		1.0		ug/L			10/20/13 04:51	1
1,2-Dichloropropane	ND		1.0		ug/L			10/20/13 04:51	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			10/20/13 04:51	1
1,3-Dichlorobenzene	ND		1.0		ug/L			10/20/13 04:51	1
1,3-Dichloropropane	ND		1.0		ug/L			10/20/13 04:51	1
1,4-Dichlorobenzene	ND		1.0		ug/L			10/20/13 04:51	1
1,4-Dioxane	ND		50		ug/L			10/20/13 04:51	1
2,2-Dichloropropane	ND		1.0		ug/L			10/20/13 04:51	1
2-Butanone (MEK)	**81**		10		ug/L			10/20/13 04:51	1
2-Chlorotoluene	ND		1.0		ug/L			10/20/13 04:51	1
2-Hexanone	ND		10		ug/L			10/20/13 04:51	1

Client Sample ID: REW-1-20131012-01

Lab Sample ID: 480-47908-13

Date Collected: 10/12/13 12:05

Matrix: Water

Date Received: 10/15/13 07:00

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chlorotoluene	ND		1.0		ug/L			10/20/13 04:51	1
4-Isopropyltoluene	ND		1.0		ug/L			10/20/13 04:51	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			10/20/13 04:51	1
Benzene	ND		1.0		ug/L			10/20/13 04:51	1
Bromobenzene	ND		1.0		ug/L			10/20/13 04:51	1
Bromoform	ND		1.0		ug/L			10/20/13 04:51	1
Bromomethane	ND		2.0		ug/L			10/20/13 04:51	1
Carbon disulfide	ND		10		ug/L			10/20/13 04:51	1
Carbon tetrachloride	ND		1.0		ug/L			10/20/13 04:51	1
Chlorobenzene	ND		1.0		ug/L			10/20/13 04:51	1
Chlorobromomethane	ND		1.0		ug/L			10/20/13 04:51	1
Chlorodibromomethane	ND		0.50		ug/L			10/20/13 04:51	1
Chloroethane	ND		2.0		ug/L			10/20/13 04:51	1
Chloroform	ND		1.0		ug/L			10/20/13 04:51	1
Chloromethane	ND		2.0		ug/L			10/20/13 04:51	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			10/20/13 04:51	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			10/20/13 04:51	1
Dichlorobromomethane	ND		0.50		ug/L			10/20/13 04:51	1
Dichlorodifluoromethane	ND		1.0		ug/L			10/20/13 04:51	1
Ethyl ether	ND		1.0		ug/L			10/20/13 04:51	1
Ethylbenzene	ND		1.0		ug/L			10/20/13 04:51	1
Ethylene Dibromide	ND		1.0		ug/L			10/20/13 04:51	1
Hexachlorobutadiene	ND		0.40		ug/L			10/20/13 04:51	1
Isopropyl ether	ND		10		ug/L			10/20/13 04:51	1
Isopropylbenzene	ND		1.0		ug/L			10/20/13 04:51	1
Methyl tert-butyl ether	ND		1.0		ug/L			10/20/13 04:51	1
Methylene Chloride	ND		1.0		ug/L			10/20/13 04:51	1
m-Xylene & p-Xylene	ND		2.0		ug/L			10/20/13 04:51	1
Naphthalene	ND		5.0		ug/L			10/20/13 04:51	1
n-Butylbenzene	ND		1.0		ug/L			10/20/13 04:51	1
N-Propylbenzene	ND		1.0		ug/L			10/20/13 04:51	1
o-Xylene	ND		1.0		ug/L			10/20/13 04:51	1
sec-Butylbenzene	ND		1.0		ug/L			10/20/13 04:51	1
Styrene	ND		1.0		ug/L			10/20/13 04:51	1
Tert-amyl methyl ether	ND		5.0		ug/L			10/20/13 04:51	1
Tert-butyl ethyl ether	ND		5.0		ug/L			10/20/13 04:51	1
tert-Butylbenzene	ND		1.0		ug/L			10/20/13 04:51	1
Tetrachloroethene	ND		1.0		ug/L			10/20/13 04:51	1
Tetrahydrofuran	**14**		10		ug/L			10/20/13 04:51	1
Toluene	**11**		1.0		ug/L			10/20/13 04:51	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			10/20/13 04:51	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			10/20/13 04:51	1
Trichloroethene	ND		1.0		ug/L			10/20/13 04:51	1
Trichlorofluoromethane	ND		1.0		ug/L			10/20/13 04:51	1
Vinyl chloride	ND		1.0		ug/L			10/20/13 04:51	1
Dibromomethane	ND		1.0		ug/L			10/20/13 04:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*98*		*70 - 130*		*10/20/13 04:51*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 130*		*10/20/13 04:51*	*1*

Client Sample ID: REW-1-20131012-01

Lab Sample ID: 480-47908-13

Date Collected: 10/12/13 12:05

Matrix: Water

Date Received: 10/15/13 07:00

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*		*10/20/13 04:51*	*1*

Method: 8260C - Volatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**5100**		1000		ug/L			10/20/13 18:20	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*99*		*70 - 130*		*10/20/13 18:20*	*20*
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 130*		*10/20/13 18:20*	*20*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*		*10/20/13 18:20*	*20*

Client Sample ID: REW-4-20131012-01

Lab Sample ID: 480-47908-14

Date Collected: 10/12/13 13:45

Matrix: Water

Date Received: 10/15/13 07:00

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			10/20/13 15:58	1
1,1,1-Trichloroethane	ND		1.0		ug/L			10/20/13 15:58	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			10/20/13 15:58	1
1,1,2-Trichloroethane	ND		1.0		ug/L			10/20/13 15:58	1
1,1-Dichloroethane	ND		1.0		ug/L			10/20/13 15:58	1
1,1-Dichloroethene	ND		1.0		ug/L			10/20/13 15:58	1
1,1-Dichloropropene	ND		1.0		ug/L			10/20/13 15:58	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			10/20/13 15:58	1
1,2,3-Trichloropropane	ND		1.0		ug/L			10/20/13 15:58	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			10/20/13 15:58	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			10/20/13 15:58	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			10/20/13 15:58	1
1,2-Dichlorobenzene	ND		1.0		ug/L			10/20/13 15:58	1
1,2-Dichloroethane	ND		1.0		ug/L			10/20/13 15:58	1
1,2-Dichloropropane	ND		1.0		ug/L			10/20/13 15:58	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			10/20/13 15:58	1
1,3-Dichlorobenzene	ND		1.0		ug/L			10/20/13 15:58	1
1,3-Dichloropropane	ND		1.0		ug/L			10/20/13 15:58	1
1,4-Dichlorobenzene	ND		1.0		ug/L			10/20/13 15:58	1
1,4-Dioxane	ND		50		ug/L			10/20/13 15:58	1
2,2-Dichloropropane	ND		1.0		ug/L			10/20/13 15:58	1
2-Butanone (MEK)	ND	*	10		ug/L			10/20/13 15:58	1
2-Chlorotoluene	ND		1.0		ug/L			10/20/13 15:58	1
2-Hexanone	ND		10		ug/L			10/20/13 15:58	1
4-Chlorotoluene	ND		1.0		ug/L			10/20/13 15:58	1
4-Isopropyltoluene	ND		1.0		ug/L			10/20/13 15:58	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			10/20/13 15:58	1
Acetone	ND		50		ug/L			10/20/13 15:58	1
Benzene	ND		1.0		ug/L			10/20/13 15:58	1
Bromobenzene	ND		1.0		ug/L			10/20/13 15:58	1
Bromoform	ND		1.0		ug/L			10/20/13 15:58	1
Bromomethane	ND		2.0		ug/L			10/20/13 15:58	1
Carbon disulfide	ND		10		ug/L			10/20/13 15:58	1

Client Sample ID: REW-4-20131012-01
Date Collected: 10/12/13 13:45
Date Received: 10/15/13 07:00

Lab Sample ID: 480-47908-14
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	ND		1.0		ug/L			10/20/13 15:58	1
Chlorobenzene	ND		1.0		ug/L			10/20/13 15:58	1
Chlorobromomethane	ND		1.0		ug/L			10/20/13 15:58	1
Chlorodibromomethane	ND		0.50		ug/L			10/20/13 15:58	1
Chloroethane	ND		2.0		ug/L			10/20/13 15:58	1
Chloroform	ND		1.0		ug/L			10/20/13 15:58	1
Chloromethane	ND		2.0		ug/L			10/20/13 15:58	1
cis-1,2-Dichloroethene	**1.7**		1.0		ug/L			10/20/13 15:58	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			10/20/13 15:58	1
Dichlorobromomethane	ND		0.50		ug/L			10/20/13 15:58	1
Dichlorodifluoromethane	ND		1.0		ug/L			10/20/13 15:58	1
Ethyl ether	ND		1.0		ug/L			10/20/13 15:58	1
Ethylbenzene	ND		1.0		ug/L			10/20/13 15:58	1
Ethylene Dibromide	ND		1.0		ug/L			10/20/13 15:58	1
Hexachlorobutadiene	ND		0.40		ug/L			10/20/13 15:58	1
Isopropyl ether	ND		10		ug/L			10/20/13 15:58	1
Isopropylbenzene	ND		1.0		ug/L			10/20/13 15:58	1
Methyl tert-butyl ether	ND		1.0		ug/L			10/20/13 15:58	1
Methylene Chloride	ND		1.0		ug/L			10/20/13 15:58	1
m-Xylene & p-Xylene	ND		2.0		ug/L			10/20/13 15:58	1
Naphthalene	ND		5.0		ug/L			10/20/13 15:58	1
n-Butylbenzene	ND		1.0		ug/L			10/20/13 15:58	1
N-Propylbenzene	ND		1.0		ug/L			10/20/13 15:58	1
o-Xylene	ND		1.0		ug/L			10/20/13 15:58	1
sec-Butylbenzene	ND		1.0		ug/L			10/20/13 15:58	1
Styrene	ND		1.0		ug/L			10/20/13 15:58	1
Tert-amyl methyl ether	ND		5.0		ug/L			10/20/13 15:58	1
Tert-butyl ethyl ether	ND		5.0		ug/L			10/20/13 15:58	1
tert-Butylbenzene	ND		1.0		ug/L			10/20/13 15:58	1
Tetrachloroethene	ND		1.0		ug/L			10/20/13 15:58	1
Tetrahydrofuran	**49**		10		ug/L			10/20/13 15:58	1
Toluene	**4.9**		1.0		ug/L			10/20/13 15:58	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			10/20/13 15:58	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			10/20/13 15:58	1
Trichloroethene	ND		1.0		ug/L			10/20/13 15:58	1
Trichlorofluoromethane	ND		1.0		ug/L			10/20/13 15:58	1
Vinyl chloride	ND		1.0		ug/L			10/20/13 15:58	1
Dibromomethane	ND		1.0		ug/L			10/20/13 15:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*98*		*70 - 130*		*10/20/13 15:58*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*		*10/20/13 15:58*	*1*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*10/20/13 15:58*	*1*

Client Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-47908-1

Client Sample ID: REW-5-20131012-01

Lab Sample ID: 480-47908-15

Date Collected: 10/12/13 12:50

Matrix: Water

Date Received: 10/15/13 07:00

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			10/20/13 16:21	1
1,1,1-Trichloroethane	ND		1.0		ug/L			10/20/13 16:21	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			10/20/13 16:21	1
1,1,2-Trichloroethane	ND		1.0		ug/L			10/20/13 16:21	1
1,1-Dichloroethane	ND		1.0		ug/L			10/20/13 16:21	1
1,1-Dichloroethene	ND		1.0		ug/L			10/20/13 16:21	1
1,1-Dichloropropene	ND		1.0		ug/L			10/20/13 16:21	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			10/20/13 16:21	1
1,2,3-Trichloropropane	ND		1.0		ug/L			10/20/13 16:21	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			10/20/13 16:21	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			10/20/13 16:21	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			10/20/13 16:21	1
1,2-Dichlorobenzene	ND		1.0		ug/L			10/20/13 16:21	1
1,2-Dichloroethane	ND		1.0		ug/L			10/20/13 16:21	1
1,2-Dichloropropane	ND		1.0		ug/L			10/20/13 16:21	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			10/20/13 16:21	1
1,3-Dichlorobenzene	ND		1.0		ug/L			10/20/13 16:21	1
1,3-Dichloropropane	ND		1.0		ug/L			10/20/13 16:21	1
1,4-Dichlorobenzene	ND		1.0		ug/L			10/20/13 16:21	1
1,4-Dioxane	ND		50		ug/L			10/20/13 16:21	1
2,2-Dichloropropane	ND		1.0		ug/L			10/20/13 16:21	1
2-Butanone (MEK)	ND	*	10		ug/L			10/20/13 16:21	1
2-Chlorotoluene	ND		1.0		ug/L			10/20/13 16:21	1
2-Hexanone	ND		10		ug/L			10/20/13 16:21	1
4-Chlorotoluene	ND		1.0		ug/L			10/20/13 16:21	1
4-Isopropyltoluene	ND		1.0		ug/L			10/20/13 16:21	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			10/20/13 16:21	1
Acetone	ND		50		ug/L			10/20/13 16:21	1
Benzene	ND		1.0		ug/L			10/20/13 16:21	1
Bromobenzene	ND		1.0		ug/L			10/20/13 16:21	1
Bromoform	ND		1.0		ug/L			10/20/13 16:21	1
Bromomethane	ND		2.0		ug/L			10/20/13 16:21	1
Carbon disulfide	ND		10		ug/L			10/20/13 16:21	1
Carbon tetrachloride	ND		1.0		ug/L			10/20/13 16:21	1
Chlorobenzene	ND		1.0		ug/L			10/20/13 16:21	1
Chlorobromomethane	ND		1.0		ug/L			10/20/13 16:21	1
Chlorodibromomethane	ND		0.50		ug/L			10/20/13 16:21	1
Chloroethane	ND		2.0		ug/L			10/20/13 16:21	1
Chloroform	ND		1.0		ug/L			10/20/13 16:21	1
Chloromethane	ND		2.0		ug/L			10/20/13 16:21	1
cis-1,2-Dichloroethene	**7.3**		1.0		ug/L			10/20/13 16:21	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			10/20/13 16:21	1
Dichlorobromomethane	ND		0.50		ug/L			10/20/13 16:21	1
Dichlorodifluoromethane	ND		1.0		ug/L			10/20/13 16:21	1
Ethyl ether	ND		1.0		ug/L			10/20/13 16:21	1
Ethylbenzene	ND		1.0		ug/L			10/20/13 16:21	1
Ethylene Dibromide	ND		1.0		ug/L			10/20/13 16:21	1
Hexachlorobutadiene	ND		0.40		ug/L			10/20/13 16:21	1
Isopropyl ether	ND		10		ug/L			10/20/13 16:21	1

Client Sample ID: REW-5-20131012-01

Lab Sample ID: 480-47908-15

Date Collected: 10/12/13 12:50

Matrix: Water

Date Received: 10/15/13 07:00

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	ND		1.0		ug/L			10/20/13 16:21	1
Methyl tert-butyl ether	ND		1.0		ug/L			10/20/13 16:21	1
Methylene Chloride	ND		1.0		ug/L			10/20/13 16:21	1
m-Xylene & p-Xylene	ND		2.0		ug/L			10/20/13 16:21	1
Naphthalene	ND		5.0		ug/L			10/20/13 16:21	1
n-Butylbenzene	ND		1.0		ug/L			10/20/13 16:21	1
N-Propylbenzene	ND		1.0		ug/L			10/20/13 16:21	1
o-Xylene	ND		1.0		ug/L			10/20/13 16:21	1
sec-Butylbenzene	ND		1.0		ug/L			10/20/13 16:21	1
Styrene	ND		1.0		ug/L			10/20/13 16:21	1
Tert-amyl methyl ether	ND		5.0		ug/L			10/20/13 16:21	1
Tert-butyl ethyl ether	ND		5.0		ug/L			10/20/13 16:21	1
tert-Butylbenzene	ND		1.0		ug/L			10/20/13 16:21	1
Tetrachloroethene	ND		1.0		ug/L			10/20/13 16:21	1
Tetrahydrofuran	**19**		10		ug/L			10/20/13 16:21	1
Toluene	ND		1.0		ug/L			10/20/13 16:21	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			10/20/13 16:21	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			10/20/13 16:21	1
Trichloroethene	ND		1.0		ug/L			10/20/13 16:21	1
Trichlorofluoromethane	ND		1.0		ug/L			10/20/13 16:21	1
Vinyl chloride	**3.8**		1.0		ug/L			10/20/13 16:21	1
Dibromomethane	ND		1.0		ug/L			10/20/13 16:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*99*		*70 - 130*		*10/20/13 16:21*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 130*		*10/20/13 16:21*	*1*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*		*10/20/13 16:21*	*1*

Client Sample ID: REW-6-20131013-01

Lab Sample ID: 480-47908-16

Date Collected: 10/13/13 07:35

Matrix: Water

Date Received: 10/15/13 07:00

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		8.0		ug/L			10/20/13 06:02	8
1,1,1-Trichloroethane	ND		8.0		ug/L			10/20/13 06:02	8
1,1,2,2-Tetrachloroethane	ND		4.0		ug/L			10/20/13 06:02	8
1,1,2-Trichloroethane	ND		8.0		ug/L			10/20/13 06:02	8
1,1-Dichloroethane	ND		8.0		ug/L			10/20/13 06:02	8
1,1-Dichloroethene	ND		8.0		ug/L			10/20/13 06:02	8
1,1-Dichloropropene	ND		8.0		ug/L			10/20/13 06:02	8
1,2,3-Trichlorobenzene	ND		8.0		ug/L			10/20/13 06:02	8
1,2,3-Trichloropropane	ND		8.0		ug/L			10/20/13 06:02	8
1,2,4-Trichlorobenzene	ND		8.0		ug/L			10/20/13 06:02	8
1,2,4-Trimethylbenzene	ND		8.0		ug/L			10/20/13 06:02	8
1,2-Dibromo-3-Chloropropane	ND		40		ug/L			10/20/13 06:02	8
1,2-Dichlorobenzene	ND		8.0		ug/L			10/20/13 06:02	8
1,2-Dichloroethane	ND		8.0		ug/L			10/20/13 06:02	8
1,2-Dichloropropane	ND		8.0		ug/L			10/20/13 06:02	8
1,3,5-Trimethylbenzene	ND		8.0		ug/L			10/20/13 06:02	8

Client Sample ID: REW-6-20131013-01
Date Collected: 10/13/13 07:35
Date Received: 10/15/13 07:00

Lab Sample ID: 480-47908-16
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	ND		8.0		ug/L			10/20/13 06:02	8
1,3-Dichloropropane	ND		8.0		ug/L			10/20/13 06:02	8
1,4-Dichlorobenzene	ND		8.0		ug/L			10/20/13 06:02	8
1,4-Dioxane	ND		400		ug/L			10/20/13 06:02	8
2,2-Dichloropropane	ND		8.0		ug/L			10/20/13 06:02	8
2-Butanone (MEK)	ND		80		ug/L			10/20/13 06:02	8
2-Chlorotoluene	ND		8.0		ug/L			10/20/13 06:02	8
2-Hexanone	ND		80		ug/L			10/20/13 06:02	8
4-Chlorotoluene	ND		8.0		ug/L			10/20/13 06:02	8
4-Isopropyltoluene	ND		8.0		ug/L			10/20/13 06:02	8
4-Methyl-2-pentanone (MIBK)	ND		80		ug/L			10/20/13 06:02	8
Acetone	ND		400		ug/L			10/20/13 06:02	8
Benzene	ND		8.0		ug/L			10/20/13 06:02	8
Bromobenzene	ND		8.0		ug/L			10/20/13 06:02	8
Bromoform	ND		8.0		ug/L			10/20/13 06:02	8
Bromomethane	ND		16		ug/L			10/20/13 06:02	8
Carbon disulfide	ND		80		ug/L			10/20/13 06:02	8
Carbon tetrachloride	ND		8.0		ug/L			10/20/13 06:02	8
Chlorobenzene	ND		8.0		ug/L			10/20/13 06:02	8
Chlorobromomethane	ND		8.0		ug/L			10/20/13 06:02	8
Chlorodibromomethane	ND		4.0		ug/L			10/20/13 06:02	8
Chloroethane	ND		16		ug/L			10/20/13 06:02	8
Chloroform	ND		8.0		ug/L			10/20/13 06:02	8
Chloromethane	ND		16		ug/L			10/20/13 06:02	8
cis-1,2-Dichloroethene	**350**		8.0		ug/L			10/20/13 06:02	8
cis-1,3-Dichloropropene	ND		3.2		ug/L			10/20/13 06:02	8
Dichlorobromomethane	ND		4.0		ug/L			10/20/13 06:02	8
Dichlorodifluoromethane	ND		8.0		ug/L			10/20/13 06:02	8
Ethyl ether	ND		8.0		ug/L			10/20/13 06:02	8
Ethylbenzene	ND		8.0		ug/L			10/20/13 06:02	8
Ethylene Dibromide	ND		8.0		ug/L			10/20/13 06:02	8
Hexachlorobutadiene	ND		3.2		ug/L			10/20/13 06:02	8
Isopropyl ether	ND		80		ug/L			10/20/13 06:02	8
Isopropylbenzene	ND		8.0		ug/L			10/20/13 06:02	8
Methyl tert-butyl ether	ND		8.0		ug/L			10/20/13 06:02	8
Methylene Chloride	ND		8.0		ug/L			10/20/13 06:02	8
m-Xylene & p-Xylene	ND		16		ug/L			10/20/13 06:02	8
Naphthalene	ND		40		ug/L			10/20/13 06:02	8
n-Butylbenzene	ND		8.0		ug/L			10/20/13 06:02	8
N-Propylbenzene	ND		8.0		ug/L			10/20/13 06:02	8
o-Xylene	ND		8.0		ug/L			10/20/13 06:02	8
sec-Butylbenzene	ND		8.0		ug/L			10/20/13 06:02	8
Styrene	ND		8.0		ug/L			10/20/13 06:02	8
Tert-amyl methyl ether	ND		40		ug/L			10/20/13 06:02	8
Tert-butyl ethyl ether	ND		40		ug/L			10/20/13 06:02	8
tert-Butylbenzene	ND		8.0		ug/L			10/20/13 06:02	8
Tetrachloroethene	ND		8.0		ug/L			10/20/13 06:02	8
Tetrahydrofuran	ND		80		ug/L			10/20/13 06:02	8
Toluene	**68**		8.0		ug/L			10/20/13 06:02	8

Client Sample ID: REW-6-20131013-01

Lab Sample ID: 480-47908-16

Date Collected: 10/13/13 07:35

Matrix: Water

Date Received: 10/15/13 07:00

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	ND		8.0		ug/L			10/20/13 06:02	8
trans-1,3-Dichloropropene	ND		3.2		ug/L			10/20/13 06:02	8
Trichloroethene	**170**		8.0		ug/L			10/20/13 06:02	8
Trichlorofluoromethane	ND		8.0		ug/L			10/20/13 06:02	8
Vinyl chloride	**17**		8.0		ug/L			10/20/13 06:02	8
Dibromomethane	ND		8.0		ug/L			10/20/13 06:02	8

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*96*		*70 - 130*		*10/20/13 06:02*	*8*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 130*		*10/20/13 06:02*	*8*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*10/20/13 06:02*	*8*

Client Sample ID: REW-7-20131013-01

Lab Sample ID: 480-47908-17

Date Collected: 10/13/13 09:25

Matrix: Water

Date Received: 10/15/13 07:00

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		10		ug/L			10/20/13 06:26	10
1,1,1-Trichloroethane	ND		10		ug/L			10/20/13 06:26	10
1,1,2,2-Tetrachloroethane	ND		5.0		ug/L			10/20/13 06:26	10
1,1,2-Trichloroethane	ND		10		ug/L			10/20/13 06:26	10
1,1-Dichloroethane	ND		10		ug/L			10/20/13 06:26	10
1,1-Dichloroethene	ND		10		ug/L			10/20/13 06:26	10
1,1-Dichloropropene	ND		10		ug/L			10/20/13 06:26	10
1,2,3-Trichlorobenzene	ND		10		ug/L			10/20/13 06:26	10
1,2,3-Trichloropropane	ND		10		ug/L			10/20/13 06:26	10
1,2,4-Trichlorobenzene	ND		10		ug/L			10/20/13 06:26	10
1,2,4-Trimethylbenzene	ND		10		ug/L			10/20/13 06:26	10
1,2-Dibromo-3-Chloropropane	ND		50		ug/L			10/20/13 06:26	10
1,2-Dichlorobenzene	ND		10		ug/L			10/20/13 06:26	10
1,2-Dichloroethane	ND		10		ug/L			10/20/13 06:26	10
1,2-Dichloropropane	ND		10		ug/L			10/20/13 06:26	10
1,3,5-Trimethylbenzene	ND		10		ug/L			10/20/13 06:26	10
1,3-Dichlorobenzene	ND		10		ug/L			10/20/13 06:26	10
1,3-Dichloropropane	ND		10		ug/L			10/20/13 06:26	10
1,4-Dichlorobenzene	ND		10		ug/L			10/20/13 06:26	10
1,4-Dioxane	ND		500		ug/L			10/20/13 06:26	10
2,2-Dichloropropane	ND		10		ug/L			10/20/13 06:26	10
2-Butanone (MEK)	ND		100		ug/L			10/20/13 06:26	10
2-Chlorotoluene	ND		10		ug/L			10/20/13 06:26	10
2-Hexanone	ND		100		ug/L			10/20/13 06:26	10
4-Chlorotoluene	ND		10		ug/L			10/20/13 06:26	10
4-Isopropyltoluene	ND		10		ug/L			10/20/13 06:26	10
4-Methyl-2-pentanone (MIBK)	ND		100		ug/L			10/20/13 06:26	10
Acetone	ND		500		ug/L			10/20/13 06:26	10
Benzene	ND		10		ug/L			10/20/13 06:26	10
Bromobenzene	ND		10		ug/L			10/20/13 06:26	10
Bromoform	ND		10		ug/L			10/20/13 06:26	10
Bromomethane	ND		20		ug/L			10/20/13 06:26	10

Client Sample ID: REW-7-20131013-01

Lab Sample ID: 480-47908-17

Date Collected: 10/13/13 09:25

Matrix: Water

Date Received: 10/15/13 07:00

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	ND		100		ug/L			10/20/13 06:26	10
Carbon tetrachloride	ND		10		ug/L			10/20/13 06:26	10
Chlorobenzene	ND		10		ug/L			10/20/13 06:26	10
Chlorobromomethane	ND		10		ug/L			10/20/13 06:26	10
Chlorodibromomethane	ND		5.0		ug/L			10/20/13 06:26	10
Chloroethane	ND		20		ug/L			10/20/13 06:26	10
Chloroform	ND		10		ug/L			10/20/13 06:26	10
Chloromethane	ND		20		ug/L			10/20/13 06:26	10
cis-1,2-Dichloroethene	**680**		10		ug/L			10/20/13 06:26	10
cis-1,3-Dichloropropene	ND		4.0		ug/L			10/20/13 06:26	10
Dichlorobromomethane	ND		5.0		ug/L			10/20/13 06:26	10
Dichlorodifluoromethane	ND		10		ug/L			10/20/13 06:26	10
Ethyl ether	ND		10		ug/L			10/20/13 06:26	10
Ethylbenzene	ND		10		ug/L			10/20/13 06:26	10
Ethylene Dibromide	ND		10		ug/L			10/20/13 06:26	10
Hexachlorobutadiene	ND		4.0		ug/L			10/20/13 06:26	10
Isopropyl ether	ND		100		ug/L			10/20/13 06:26	10
Isopropylbenzene	ND		10		ug/L			10/20/13 06:26	10
Methyl tert-butyl ether	ND		10		ug/L			10/20/13 06:26	10
Methylene Chloride	ND		10		ug/L			10/20/13 06:26	10
m-Xylene & p-Xylene	ND		20		ug/L			10/20/13 06:26	10
Naphthalene	ND		50		ug/L			10/20/13 06:26	10
n-Butylbenzene	ND		10		ug/L			10/20/13 06:26	10
N-Propylbenzene	ND		10		ug/L			10/20/13 06:26	10
o-Xylene	ND		10		ug/L			10/20/13 06:26	10
sec-Butylbenzene	ND		10		ug/L			10/20/13 06:26	10
Styrene	ND		10		ug/L			10/20/13 06:26	10
Tert-amyl methyl ether	ND		50		ug/L			10/20/13 06:26	10
Tert-butyl ethyl ether	ND		50		ug/L			10/20/13 06:26	10
tert-Butylbenzene	ND		10		ug/L			10/20/13 06:26	10
Tetrachloroethene	ND		10		ug/L			10/20/13 06:26	10
Tetrahydrofuran	ND		100		ug/L			10/20/13 06:26	10
Toluene	ND		10		ug/L			10/20/13 06:26	10
trans-1,2-Dichloroethene	ND		10		ug/L			10/20/13 06:26	10
trans-1,3-Dichloropropene	ND		4.0		ug/L			10/20/13 06:26	10
Trichloroethene	**140**		10		ug/L			10/20/13 06:26	10
Trichlorofluoromethane	ND		10		ug/L			10/20/13 06:26	10
Vinyl chloride	**180**		10		ug/L			10/20/13 06:26	10
Dibromomethane	ND		10		ug/L			10/20/13 06:26	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*97*		*70 - 130*		*10/20/13 06:26*	*10*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 130*		*10/20/13 06:26*	*10*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*10/20/13 06:26*	*10*

Client Sample ID: REW-8-20131013-01
Date Collected: 10/13/13 08:15
Date Received: 10/15/13 07:00

Lab Sample ID: 480-47908-18
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.0		ug/L			10/20/13 06:49	5
1,1,1-Trichloroethane	ND		5.0		ug/L			10/20/13 06:49	5
1,1,2,2-Tetrachloroethane	ND		2.5		ug/L			10/20/13 06:49	5
1,1,2-Trichloroethane	ND		5.0		ug/L			10/20/13 06:49	5
1,1-Dichloroethane	ND		5.0		ug/L			10/20/13 06:49	5
1,1-Dichloroethene	ND		5.0		ug/L			10/20/13 06:49	5
1,1-Dichloropropene	ND		5.0		ug/L			10/20/13 06:49	5
1,2,3-Trichlorobenzene	ND		5.0		ug/L			10/20/13 06:49	5
1,2,3-Trichloropropane	ND		5.0		ug/L			10/20/13 06:49	5
1,2,4-Trichlorobenzene	ND		5.0		ug/L			10/20/13 06:49	5
1,2,4-Trimethylbenzene	ND		5.0		ug/L			10/20/13 06:49	5
1,2-Dibromo-3-Chloropropane	ND		25		ug/L			10/20/13 06:49	5
1,2-Dichlorobenzene	ND		5.0		ug/L			10/20/13 06:49	5
1,2-Dichloroethane	ND		5.0		ug/L			10/20/13 06:49	5
1,2-Dichloropropane	ND		5.0		ug/L			10/20/13 06:49	5
1,3,5-Trimethylbenzene	ND		5.0		ug/L			10/20/13 06:49	5
1,3-Dichlorobenzene	ND		5.0		ug/L			10/20/13 06:49	5
1,3-Dichloropropane	ND		5.0		ug/L			10/20/13 06:49	5
1,4-Dichlorobenzene	ND		5.0		ug/L			10/20/13 06:49	5
1,4-Dioxane	ND		250		ug/L			10/20/13 06:49	5
2,2-Dichloropropane	ND		5.0		ug/L			10/20/13 06:49	5
2-Butanone (MEK)	**62**		50		ug/L			10/20/13 06:49	5
2-Chlorotoluene	ND		5.0		ug/L			10/20/13 06:49	5
2-Hexanone	ND		50		ug/L			10/20/13 06:49	5
4-Chlorotoluene	ND		5.0		ug/L			10/20/13 06:49	5
4-Isopropyltoluene	ND		5.0		ug/L			10/20/13 06:49	5
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			10/20/13 06:49	5
Acetone	ND		250		ug/L			10/20/13 06:49	5
Benzene	ND		5.0		ug/L			10/20/13 06:49	5
Bromobenzene	ND		5.0		ug/L			10/20/13 06:49	5
Bromoform	ND		5.0		ug/L			10/20/13 06:49	5
Bromomethane	ND		10		ug/L			10/20/13 06:49	5
Carbon disulfide	ND		50		ug/L			10/20/13 06:49	5
Carbon tetrachloride	ND		5.0		ug/L			10/20/13 06:49	5
Chlorobenzene	ND		5.0		ug/L			10/20/13 06:49	5
Chlorobromomethane	ND		5.0		ug/L			10/20/13 06:49	5
Chlorodibromomethane	ND		2.5		ug/L			10/20/13 06:49	5
Chloroethane	ND		10		ug/L			10/20/13 06:49	5
Chloroform	ND		5.0		ug/L			10/20/13 06:49	5
Chloromethane	ND		10		ug/L			10/20/13 06:49	5
cis-1,2-Dichloroethene	**230**		5.0		ug/L			10/20/13 06:49	5
cis-1,3-Dichloropropene	ND		2.0		ug/L			10/20/13 06:49	5
Dichlorobromomethane	ND		2.5		ug/L			10/20/13 06:49	5
Dichlorodifluoromethane	ND		5.0		ug/L			10/20/13 06:49	5
Ethyl ether	ND		5.0		ug/L			10/20/13 06:49	5
Ethylbenzene	ND		5.0		ug/L			10/20/13 06:49	5
Ethylene Dibromide	ND		5.0		ug/L			10/20/13 06:49	5
Hexachlorobutadiene	ND		2.0		ug/L			10/20/13 06:49	5
Isopropyl ether	ND		50		ug/L			10/20/13 06:49	5

Client Sample ID: REW-8-20131013-01

Lab Sample ID: 480-47908-18

Date Collected: 10/13/13 08:15

Matrix: Water

Date Received: 10/15/13 07:00

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	ND		5.0		ug/L			10/20/13 06:49	5
Methyl tert-butyl ether	ND		5.0		ug/L			10/20/13 06:49	5
Methylene Chloride	ND		5.0		ug/L			10/20/13 06:49	5
m-Xylene & p-Xylene	ND		10		ug/L			10/20/13 06:49	5
Naphthalene	ND		25		ug/L			10/20/13 06:49	5
n-Butylbenzene	ND		5.0		ug/L			10/20/13 06:49	5
N-Propylbenzene	ND		5.0		ug/L			10/20/13 06:49	5
o-Xylene	ND		5.0		ug/L			10/20/13 06:49	5
sec-Butylbenzene	ND		5.0		ug/L			10/20/13 06:49	5
Styrene	ND		5.0		ug/L			10/20/13 06:49	5
Tert-amyl methyl ether	ND		25		ug/L			10/20/13 06:49	5
Tert-butyl ethyl ether	ND		25		ug/L			10/20/13 06:49	5
tert-Butylbenzene	ND		5.0		ug/L			10/20/13 06:49	5
Tetrachloroethene	ND		5.0		ug/L			10/20/13 06:49	5
Tetrahydrofuran	ND		50		ug/L			10/20/13 06:49	5
Toluene	ND		5.0		ug/L			10/20/13 06:49	5
trans-1,2-Dichloroethene	ND		5.0		ug/L			10/20/13 06:49	5
trans-1,3-Dichloropropene	ND		2.0		ug/L			10/20/13 06:49	5
Trichloroethene	**16**		5.0		ug/L			10/20/13 06:49	5
Trichlorofluoromethane	ND		5.0		ug/L			10/20/13 06:49	5
Vinyl chloride	**84**		5.0		ug/L			10/20/13 06:49	5
Dibromomethane	ND		5.0		ug/L			10/20/13 06:49	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*98*		*70 - 130*		*10/20/13 06:49*	*5*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 130*		*10/20/13 06:49*	*5*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*		*10/20/13 06:49*	*5*

Client Sample ID: REW-9-20131013-01

Lab Sample ID: 480-47908-19

Date Collected: 10/13/13 10:25

Matrix: Water

Date Received: 10/15/13 07:00

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			10/20/13 07:13	1
1,1,1-Trichloroethane	ND		1.0		ug/L			10/20/13 07:13	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			10/20/13 07:13	1
1,1,2-Trichloroethane	ND		1.0		ug/L			10/20/13 07:13	1
1,1-Dichloroethane	ND		1.0		ug/L			10/20/13 07:13	1
1,1-Dichloroethene	ND		1.0		ug/L			10/20/13 07:13	1
1,1-Dichloropropene	ND		1.0		ug/L			10/20/13 07:13	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			10/20/13 07:13	1
1,2,3-Trichloropropane	ND		1.0		ug/L			10/20/13 07:13	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			10/20/13 07:13	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			10/20/13 07:13	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			10/20/13 07:13	1
1,2-Dichlorobenzene	ND		1.0		ug/L			10/20/13 07:13	1
1,2-Dichloroethane	ND		1.0		ug/L			10/20/13 07:13	1
1,2-Dichloropropane	ND		1.0		ug/L			10/20/13 07:13	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			10/20/13 07:13	1

Client Sample ID: REW-9-20131013-01
Date Collected: 10/13/13 10:25
Date Received: 10/15/13 07:00

Lab Sample ID: 480-47908-19
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	ND		1.0		ug/L			10/20/13 07:13	1
1,3-Dichloropropane	ND		1.0		ug/L			10/20/13 07:13	1
1,4-Dichlorobenzene	ND		1.0		ug/L			10/20/13 07:13	1
1,4-Dioxane	ND		50		ug/L			10/20/13 07:13	1
2,2-Dichloropropane	ND		1.0		ug/L			10/20/13 07:13	1
2-Butanone (MEK)	**28**		10		ug/L			10/20/13 07:13	1
2-Chlorotoluene	ND		1.0		ug/L			10/20/13 07:13	1
2-Hexanone	ND		10		ug/L			10/20/13 07:13	1
4-Chlorotoluene	ND		1.0		ug/L			10/20/13 07:13	1
4-Isopropyltoluene	ND		1.0		ug/L			10/20/13 07:13	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			10/20/13 07:13	1
Acetone	ND		50		ug/L			10/20/13 07:13	1
Benzene	ND		1.0		ug/L			10/20/13 07:13	1
Bromobenzene	ND		1.0		ug/L			10/20/13 07:13	1
Bromoform	ND		1.0		ug/L			10/20/13 07:13	1
Bromomethane	ND		2.0		ug/L			10/20/13 07:13	1
Carbon disulfide	ND		10		ug/L			10/20/13 07:13	1
Carbon tetrachloride	ND		1.0		ug/L			10/20/13 07:13	1
Chlorobenzene	ND		1.0		ug/L			10/20/13 07:13	1
Chlorobromomethane	ND		1.0		ug/L			10/20/13 07:13	1
Chlorodibromomethane	ND		0.50		ug/L			10/20/13 07:13	1
Chloroethane	ND		2.0		ug/L			10/20/13 07:13	1
Chloroform	ND		1.0		ug/L			10/20/13 07:13	1
Chloromethane	ND		2.0		ug/L			10/20/13 07:13	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			10/20/13 07:13	1
Dichlorobromomethane	ND		0.50		ug/L			10/20/13 07:13	1
Dichlorodifluoromethane	ND		1.0		ug/L			10/20/13 07:13	1
Ethyl ether	ND		1.0		ug/L			10/20/13 07:13	1
Ethylbenzene	**1.9**		1.0		ug/L			10/20/13 07:13	1
Ethylene Dibromide	ND		1.0		ug/L			10/20/13 07:13	1
Hexachlorobutadiene	ND		0.40		ug/L			10/20/13 07:13	1
Isopropyl ether	ND		10		ug/L			10/20/13 07:13	1
Isopropylbenzene	ND		1.0		ug/L			10/20/13 07:13	1
Methyl tert-butyl ether	ND		1.0		ug/L			10/20/13 07:13	1
Methylene Chloride	ND		1.0		ug/L			10/20/13 07:13	1
m-Xylene & p-Xylene	**6.9**		2.0		ug/L			10/20/13 07:13	1
Naphthalene	ND		5.0		ug/L			10/20/13 07:13	1
n-Butylbenzene	ND		1.0		ug/L			10/20/13 07:13	1
N-Propylbenzene	ND		1.0		ug/L			10/20/13 07:13	1
o-Xylene	**1.5**		1.0		ug/L			10/20/13 07:13	1
sec-Butylbenzene	ND		1.0		ug/L			10/20/13 07:13	1
Styrene	ND		1.0		ug/L			10/20/13 07:13	1
Tert-amyl methyl ether	ND		5.0		ug/L			10/20/13 07:13	1
Tert-butyl ethyl ether	ND		5.0		ug/L			10/20/13 07:13	1
tert-Butylbenzene	ND		1.0		ug/L			10/20/13 07:13	1
Tetrachloroethene	ND		1.0		ug/L			10/20/13 07:13	1
Tetrahydrofuran	ND		10		ug/L			10/20/13 07:13	1
Toluene	**27**		1.0		ug/L			10/20/13 07:13	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			10/20/13 07:13	1

Client Sample ID: REW-9-20131013-01

Lab Sample ID: 480-47908-19

Date Collected: 10/13/13 10:25

Matrix: Water

Date Received: 10/15/13 07:00

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	ND		0.40		ug/L			10/20/13 07:13	1
Trichloroethene	**1.2**		1.0		ug/L			10/20/13 07:13	1
Trichlorofluoromethane	ND		1.0		ug/L			10/20/13 07:13	1
Vinyl chloride	**28**		1.0		ug/L			10/20/13 07:13	1
Dibromomethane	ND		1.0		ug/L			10/20/13 07:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*97*		*70 - 130*		*10/20/13 07:13*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 130*		*10/20/13 07:13*	*1*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*		*10/20/13 07:13*	*1*

Method: 8260C - Volatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	**110**		2.0		ug/L			10/20/13 18:44	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*99*		*70 - 130*		*10/20/13 18:44*	*2*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 130*		*10/20/13 18:44*	*2*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*		*10/20/13 18:44*	*2*

Client Sample ID: REW-10-20131013-01

Lab Sample ID: 480-47908-20

Date Collected: 10/13/13 11:30

Matrix: Water

Date Received: 10/15/13 07:00

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			10/20/13 07:37	1
1,1,1-Trichloroethane	ND		1.0		ug/L			10/20/13 07:37	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			10/20/13 07:37	1
1,1,2-Trichloroethane	ND		1.0		ug/L			10/20/13 07:37	1
1,1-Dichloroethane	ND		1.0		ug/L			10/20/13 07:37	1
1,1-Dichloroethene	ND		1.0		ug/L			10/20/13 07:37	1
1,1-Dichloropropene	ND		1.0		ug/L			10/20/13 07:37	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			10/20/13 07:37	1
1,2,3-Trichloropropane	ND		1.0		ug/L			10/20/13 07:37	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			10/20/13 07:37	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			10/20/13 07:37	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			10/20/13 07:37	1
1,2-Dichlorobenzene	ND		1.0		ug/L			10/20/13 07:37	1
1,2-Dichloroethane	ND		1.0		ug/L			10/20/13 07:37	1
1,2-Dichloropropane	ND		1.0		ug/L			10/20/13 07:37	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			10/20/13 07:37	1
1,3-Dichlorobenzene	ND		1.0		ug/L			10/20/13 07:37	1
1,3-Dichloropropane	ND		1.0		ug/L			10/20/13 07:37	1
1,4-Dichlorobenzene	ND		1.0		ug/L			10/20/13 07:37	1
1,4-Dioxane	ND		50		ug/L			10/20/13 07:37	1
2,2-Dichloropropane	ND		1.0		ug/L			10/20/13 07:37	1
2-Butanone (MEK)	**15**		10		ug/L			10/20/13 07:37	1
2-Chlorotoluene	ND		1.0		ug/L			10/20/13 07:37	1
2-Hexanone	ND		10		ug/L			10/20/13 07:37	1

Client Sample ID: REW-10-20131013-01
Date Collected: 10/13/13 11:30
Date Received: 10/15/13 07:00

Lab Sample ID: 480-47908-20
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chlorotoluene	ND		1.0		ug/L			10/20/13 07:37	1
4-Isopropyltoluene	ND		1.0		ug/L			10/20/13 07:37	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			10/20/13 07:37	1
Acetone	ND		50		ug/L			10/20/13 07:37	1
Benzene	ND		1.0		ug/L			10/20/13 07:37	1
Bromobenzene	ND		1.0		ug/L			10/20/13 07:37	1
Bromoform	ND		1.0		ug/L			10/20/13 07:37	1
Bromomethane	ND		2.0		ug/L			10/20/13 07:37	1
Carbon disulfide	ND		10		ug/L			10/20/13 07:37	1
Carbon tetrachloride	ND		1.0		ug/L			10/20/13 07:37	1
Chlorobenzene	ND		1.0		ug/L			10/20/13 07:37	1
Chlorobromomethane	ND		1.0		ug/L			10/20/13 07:37	1
Chlorodibromomethane	ND		0.50		ug/L			10/20/13 07:37	1
Chloroethane	ND		2.0		ug/L			10/20/13 07:37	1
Chloroform	ND		1.0		ug/L			10/20/13 07:37	1
Chloromethane	ND		2.0		ug/L			10/20/13 07:37	1
cis-1,2-Dichloroethene	**33**		1.0		ug/L			10/20/13 07:37	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			10/20/13 07:37	1
Dichlorobromomethane	ND		0.50		ug/L			10/20/13 07:37	1
Dichlorodifluoromethane	ND		1.0		ug/L			10/20/13 07:37	1
Ethyl ether	ND		1.0		ug/L			10/20/13 07:37	1
Ethylbenzene	ND		1.0		ug/L			10/20/13 07:37	1
Ethylene Dibromide	ND		1.0		ug/L			10/20/13 07:37	1
Hexachlorobutadiene	ND		0.40		ug/L			10/20/13 07:37	1
Isopropyl ether	ND		10		ug/L			10/20/13 07:37	1
Isopropylbenzene	ND		1.0		ug/L			10/20/13 07:37	1
Methyl tert-butyl ether	ND		1.0		ug/L			10/20/13 07:37	1
Methylene Chloride	ND		1.0		ug/L			10/20/13 07:37	1
m-Xylene & p-Xylene	ND		2.0		ug/L			10/20/13 07:37	1
Naphthalene	ND		5.0		ug/L			10/20/13 07:37	1
n-Butylbenzene	ND		1.0		ug/L			10/20/13 07:37	1
N-Propylbenzene	ND		1.0		ug/L			10/20/13 07:37	1
o-Xylene	ND		1.0		ug/L			10/20/13 07:37	1
sec-Butylbenzene	ND		1.0		ug/L			10/20/13 07:37	1
Styrene	ND		1.0		ug/L			10/20/13 07:37	1
Tert-amyl methyl ether	ND		5.0		ug/L			10/20/13 07:37	1
Tert-butyl ethyl ether	ND		5.0		ug/L			10/20/13 07:37	1
tert-Butylbenzene	ND		1.0		ug/L			10/20/13 07:37	1
Tetrachloroethene	ND		1.0		ug/L			10/20/13 07:37	1
Tetrahydrofuran	ND		10		ug/L			10/20/13 07:37	1
Toluene	**2.2**		1.0		ug/L			10/20/13 07:37	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			10/20/13 07:37	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			10/20/13 07:37	1
Trichloroethene	**1.1**		1.0		ug/L			10/20/13 07:37	1
Trichlorofluoromethane	ND		1.0		ug/L			10/20/13 07:37	1
Vinyl chloride	**6.3**		1.0		ug/L			10/20/13 07:37	1
Dibromomethane	ND		1.0		ug/L			10/20/13 07:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*95*		*70 - 130*		*10/20/13 07:37*	*1*

Client Sample ID: REW-10-20131013-01

Lab Sample ID: 480-47908-20

Date Collected: 10/13/13 11:30

Matrix: Water

Date Received: 10/15/13 07:00

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 130*		*10/20/13 07:37*	*1*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*		*10/20/13 07:37*	*1*

Client Sample ID: REW-12-20131013-01

Lab Sample ID: 480-47908-21

Date Collected: 10/13/13 12:15

Matrix: Water

Date Received: 10/15/13 07:00

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		4.0		ug/L			10/20/13 19:08	4
1,1,1-Trichloroethane	ND		4.0		ug/L			10/20/13 19:08	4
1,1,2,2-Tetrachloroethane	ND		2.0		ug/L			10/20/13 19:08	4
1,1,2-Trichloroethane	ND		4.0		ug/L			10/20/13 19:08	4
1,1-Dichloroethane	ND		4.0		ug/L			10/20/13 19:08	4
1,1-Dichloroethene	ND		4.0		ug/L			10/20/13 19:08	4
1,1-Dichloropropene	ND		4.0		ug/L			10/20/13 19:08	4
1,2,3-Trichlorobenzene	ND		4.0		ug/L			10/20/13 19:08	4
1,2,3-Trichloropropane	ND		4.0		ug/L			10/20/13 19:08	4
1,2,4-Trichlorobenzene	ND		4.0		ug/L			10/20/13 19:08	4
1,2,4-Trimethylbenzene	ND		4.0		ug/L			10/20/13 19:08	4
1,2-Dibromo-3-Chloropropane	ND		20		ug/L			10/20/13 19:08	4
1,2-Dichlorobenzene	ND		4.0		ug/L			10/20/13 19:08	4
1,2-Dichloroethane	ND		4.0		ug/L			10/20/13 19:08	4
1,2-Dichloropropane	ND		4.0		ug/L			10/20/13 19:08	4
1,3,5-Trimethylbenzene	ND		4.0		ug/L			10/20/13 19:08	4
1,3-Dichlorobenzene	ND		4.0		ug/L			10/20/13 19:08	4
1,3-Dichloropropane	ND		4.0		ug/L			10/20/13 19:08	4
1,4-Dichlorobenzene	ND		4.0		ug/L			10/20/13 19:08	4
1,4-Dioxane	ND		200		ug/L			10/20/13 19:08	4
2,2-Dichloropropane	ND		4.0		ug/L			10/20/13 19:08	4
2-Butanone (MEK)	ND	*	40		ug/L			10/20/13 19:08	4
2-Chlorotoluene	ND		4.0		ug/L			10/20/13 19:08	4
2-Hexanone	ND		40		ug/L			10/20/13 19:08	4
4-Chlorotoluene	ND		4.0		ug/L			10/20/13 19:08	4
4-Isopropyltoluene	ND		4.0		ug/L			10/20/13 19:08	4
4-Methyl-2-pentanone (MIBK)	ND		40		ug/L			10/20/13 19:08	4
Acetone	ND		200		ug/L			10/20/13 19:08	4
Benzene	ND		4.0		ug/L			10/20/13 19:08	4
Bromobenzene	ND		4.0		ug/L			10/20/13 19:08	4
Bromoform	ND		4.0		ug/L			10/20/13 19:08	4
Bromomethane	ND		8.0		ug/L			10/20/13 19:08	4
Carbon disulfide	ND		40		ug/L			10/20/13 19:08	4
Carbon tetrachloride	ND		4.0		ug/L			10/20/13 19:08	4
Chlorobenzene	ND		4.0		ug/L			10/20/13 19:08	4
Chlorobromomethane	ND		4.0		ug/L			10/20/13 19:08	4
Chlorodibromomethane	ND		2.0		ug/L			10/20/13 19:08	4
Chloroethane	ND		8.0		ug/L			10/20/13 19:08	4
Chloroform	ND		4.0		ug/L			10/20/13 19:08	4
Chloromethane	ND		8.0		ug/L			10/20/13 19:08	4

Client Sample ID: REW-12-20131013-01

Lab Sample ID: 480-47908-21

Date Collected: 10/13/13 12:15

Matrix: Water

Date Received: 10/15/13 07:00

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	**310**		4.0		ug/L			10/20/13 19:08	4
cis-1,3-Dichloropropene	ND		1.6		ug/L			10/20/13 19:08	4
Dichlorobromomethane	ND		2.0		ug/L			10/20/13 19:08	4
Dichlorodifluoromethane	ND		4.0		ug/L			10/20/13 19:08	4
Ethyl ether	ND		4.0		ug/L			10/20/13 19:08	4
Ethylbenzene	ND		4.0		ug/L			10/20/13 19:08	4
Ethylene Dibromide	ND		4.0		ug/L			10/20/13 19:08	4
Hexachlorobutadiene	ND		1.6		ug/L			10/20/13 19:08	4
Isopropyl ether	ND		40		ug/L			10/20/13 19:08	4
Isopropylbenzene	ND		4.0		ug/L			10/20/13 19:08	4
Methyl tert-butyl ether	ND		4.0		ug/L			10/20/13 19:08	4
Methylene Chloride	ND		4.0		ug/L			10/20/13 19:08	4
m-Xylene & p-Xylene	ND		8.0		ug/L			10/20/13 19:08	4
Naphthalene	ND		20		ug/L			10/20/13 19:08	4
n-Butylbenzene	ND		4.0		ug/L			10/20/13 19:08	4
N-Propylbenzene	ND		4.0		ug/L			10/20/13 19:08	4
o-Xylene	ND		4.0		ug/L			10/20/13 19:08	4
sec-Butylbenzene	ND		4.0		ug/L			10/20/13 19:08	4
Styrene	ND		4.0		ug/L			10/20/13 19:08	4
Tert-amyl methyl ether	ND		20		ug/L			10/20/13 19:08	4
Tert-butyl ethyl ether	ND		20		ug/L			10/20/13 19:08	4
tert-Butylbenzene	ND		4.0		ug/L			10/20/13 19:08	4
Tetrachloroethene	**5.7**		4.0		ug/L			10/20/13 19:08	4
Tetrahydrofuran	ND		40		ug/L			10/20/13 19:08	4
Toluene	ND		4.0		ug/L			10/20/13 19:08	4
trans-1,2-Dichloroethene	ND		4.0		ug/L			10/20/13 19:08	4
trans-1,3-Dichloropropene	ND		1.6		ug/L			10/20/13 19:08	4
Trichloroethene	**120**		4.0		ug/L			10/20/13 19:08	4
Trichlorofluoromethane	ND		4.0		ug/L			10/20/13 19:08	4
Vinyl chloride	**49**		4.0		ug/L			10/20/13 19:08	4
Dibromomethane	ND		4.0		ug/L			10/20/13 19:08	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*99*		*70 - 130*		*10/20/13 19:08*	*4*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 130*		*10/20/13 19:08*	*4*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*		*10/20/13 19:08*	*4*

Client Sample ID: DUPX1-12-20131012-01

Lab Sample ID: 480-47908-22

Date Collected: 10/12/13 00:00

Matrix: Water

Date Received: 10/15/13 07:00

Method: 8260C SIM - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		64		ug/L			10/16/13 18:31	40

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
TBA-d9 (Surr)	*110*		*50 - 150*		*10/16/13 18:31*	*40*
Dibromofluoromethane (Surr)	*100*		*50 - 150*		*10/16/13 18:31*	*40*

Client Sample ID: DUPX1-12-20131012-01
Date Collected: 10/12/13 00:00
Date Received: 10/15/13 07:00

Lab Sample ID: 480-47908-22
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		20		ug/L			10/20/13 19:32	20
1,1,1-Trichloroethane	ND		20		ug/L			10/20/13 19:32	20
1,1,2,2-Tetrachloroethane	ND		10		ug/L			10/20/13 19:32	20
1,1,2-Trichloroethane	ND		20		ug/L			10/20/13 19:32	20
1,1-Dichloroethane	ND		20		ug/L			10/20/13 19:32	20
1,1-Dichloroethene	ND		20		ug/L			10/20/13 19:32	20
1,1-Dichloropropene	ND		20		ug/L			10/20/13 19:32	20
1,2,3-Trichlorobenzene	ND		20		ug/L			10/20/13 19:32	20
1,2,3-Trichloropropane	ND		20		ug/L			10/20/13 19:32	20
1,2,4-Trichlorobenzene	ND		20		ug/L			10/20/13 19:32	20
1,2,4-Trimethylbenzene	ND		20		ug/L			10/20/13 19:32	20
1,2-Dibromo-3-Chloropropane	ND		100		ug/L			10/20/13 19:32	20
1,2-Dichlorobenzene	ND		20		ug/L			10/20/13 19:32	20
1,2-Dichloroethane	ND		20		ug/L			10/20/13 19:32	20
1,2-Dichloropropane	ND		20		ug/L			10/20/13 19:32	20
1,3,5-Trimethylbenzene	ND		20		ug/L			10/20/13 19:32	20
1,3-Dichlorobenzene	ND		20		ug/L			10/20/13 19:32	20
1,3-Dichloropropane	ND		20		ug/L			10/20/13 19:32	20
1,4-Dichlorobenzene	ND		20		ug/L			10/20/13 19:32	20
1,4-Dioxane	ND		1000		ug/L			10/20/13 19:32	20
2,2-Dichloropropane	ND		20		ug/L			10/20/13 19:32	20
2-Butanone (MEK)	ND	*	200		ug/L			10/20/13 19:32	20
2-Chlorotoluene	ND		20		ug/L			10/20/13 19:32	20
2-Hexanone	ND		200		ug/L			10/20/13 19:32	20
4-Chlorotoluene	ND		20		ug/L			10/20/13 19:32	20
4-Isopropyltoluene	ND		20		ug/L			10/20/13 19:32	20
4-Methyl-2-pentanone (MIBK)	ND		200		ug/L			10/20/13 19:32	20
Acetone	**5800**		1000		ug/L			10/20/13 19:32	20
Benzene	ND		20		ug/L			10/20/13 19:32	20
Bromobenzene	ND		20		ug/L			10/20/13 19:32	20
Bromoform	ND		20		ug/L			10/20/13 19:32	20
Bromomethane	ND		40		ug/L			10/20/13 19:32	20
Carbon disulfide	ND		200		ug/L			10/20/13 19:32	20
Carbon tetrachloride	ND		20		ug/L			10/20/13 19:32	20
Chlorobenzene	ND		20		ug/L			10/20/13 19:32	20
Chlorobromomethane	ND		20		ug/L			10/20/13 19:32	20
Chlorodibromomethane	ND		10		ug/L			10/20/13 19:32	20
Chloroethane	ND		40		ug/L			10/20/13 19:32	20
Chloroform	ND		20		ug/L			10/20/13 19:32	20
Chloromethane	ND		40		ug/L			10/20/13 19:32	20
cis-1,2-Dichloroethene	ND		20		ug/L			10/20/13 19:32	20
cis-1,3-Dichloropropene	ND		8.0		ug/L			10/20/13 19:32	20
Dichlorobromomethane	ND		10		ug/L			10/20/13 19:32	20
Dichlorodifluoromethane	ND		20		ug/L			10/20/13 19:32	20
Ethyl ether	ND		20		ug/L			10/20/13 19:32	20
Ethylbenzene	ND		20		ug/L			10/20/13 19:32	20
Ethylene Dibromide	ND		20		ug/L			10/20/13 19:32	20
Hexachlorobutadiene	ND		8.0		ug/L			10/20/13 19:32	20
Isopropyl ether	ND		200		ug/L			10/20/13 19:32	20

Client Sample ID: DUPX1-12-20131012-01

Lab Sample ID: 480-47908-22

Date Collected: 10/12/13 00:00

Matrix: Water

Date Received: 10/15/13 07:00

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	ND		20		ug/L			10/20/13 19:32	20
Methyl tert-butyl ether	ND		20		ug/L			10/20/13 19:32	20
Methylene Chloride	ND		20		ug/L			10/20/13 19:32	20
m-Xylene & p-Xylene	ND		40		ug/L			10/20/13 19:32	20
Naphthalene	ND		100		ug/L			10/20/13 19:32	20
n-Butylbenzene	ND		20		ug/L			10/20/13 19:32	20
N-Propylbenzene	ND		20		ug/L			10/20/13 19:32	20
o-Xylene	ND		20		ug/L			10/20/13 19:32	20
sec-Butylbenzene	ND		20		ug/L			10/20/13 19:32	20
Styrene	ND		20		ug/L			10/20/13 19:32	20
Tert-amyl methyl ether	ND		100		ug/L			10/20/13 19:32	20
Tert-butyl ethyl ether	ND		100		ug/L			10/20/13 19:32	20
tert-Butylbenzene	ND		20		ug/L			10/20/13 19:32	20
Tetrachloroethene	ND		20		ug/L			10/20/13 19:32	20
Tetrahydrofuran	ND		200		ug/L			10/20/13 19:32	20
Toluene	ND		20		ug/L			10/20/13 19:32	20
trans-1,2-Dichloroethene	ND		20		ug/L			10/20/13 19:32	20
trans-1,3-Dichloropropene	ND		8.0		ug/L			10/20/13 19:32	20
Trichloroethene	ND		20		ug/L			10/20/13 19:32	20
Trichlorofluoromethane	ND		20		ug/L			10/20/13 19:32	20
Vinyl chloride	ND		20		ug/L			10/20/13 19:32	20
Dibromomethane	ND		20		ug/L			10/20/13 19:32	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*97*		*70 - 130*		*10/20/13 19:32*	*20*
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 130*		*10/20/13 19:32*	*20*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*		*10/20/13 19:32*	*20*

Client Sample ID: DUPX2-12-20131013-01

Lab Sample ID: 480-47908-23

Date Collected: 10/13/13 00:00

Matrix: Water

Date Received: 10/15/13 07:00

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.0		ug/L			10/21/13 13:18	5
1,1,1-Trichloroethane	ND		5.0		ug/L			10/21/13 13:18	5
1,1,2,2-Tetrachloroethane	ND		2.5		ug/L			10/21/13 13:18	5
1,1,2-Trichloroethane	ND		5.0		ug/L			10/21/13 13:18	5
1,1-Dichloroethane	ND		5.0		ug/L			10/21/13 13:18	5
1,1-Dichloroethene	ND		5.0		ug/L			10/21/13 13:18	5
1,1-Dichloropropene	ND		5.0		ug/L			10/21/13 13:18	5
1,2,3-Trichlorobenzene	ND		5.0		ug/L			10/21/13 13:18	5
1,2,3-Trichloropropane	ND		5.0		ug/L			10/21/13 13:18	5
1,2,4-Trichlorobenzene	ND		5.0		ug/L			10/21/13 13:18	5
1,2,4-Trimethylbenzene	ND		5.0		ug/L			10/21/13 13:18	5
1,2-Dibromo-3-Chloropropane	ND		25		ug/L			10/21/13 13:18	5
1,2-Dichlorobenzene	ND		5.0		ug/L			10/21/13 13:18	5
1,2-Dichloroethane	ND		5.0		ug/L			10/21/13 13:18	5
1,2-Dichloropropane	ND		5.0		ug/L			10/21/13 13:18	5
1,3,5-Trimethylbenzene	ND		5.0		ug/L			10/21/13 13:18	5

Client Sample ID: DUPX2-12-20131013-01 **Lab Sample ID: 480-47908-23**

Date Collected: 10/13/13 00:00 **Matrix: Water**

Date Received: 10/15/13 07:00

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	ND		5.0		ug/L			10/21/13 13:18	5
1,3-Dichloropropane	ND		5.0		ug/L			10/21/13 13:18	5
1,4-Dichlorobenzene	ND		5.0		ug/L			10/21/13 13:18	5
1,4-Dioxane	ND		250		ug/L			10/21/13 13:18	5
2,2-Dichloropropane	ND		5.0		ug/L			10/21/13 13:18	5
2-Butanone (MEK)	ND	*	50		ug/L			10/21/13 13:18	5
2-Chlorotoluene	ND		5.0		ug/L			10/21/13 13:18	5
2-Hexanone	ND		50		ug/L			10/21/13 13:18	5
4-Chlorotoluene	ND		5.0		ug/L			10/21/13 13:18	5
4-Isopropyltoluene	ND		5.0		ug/L			10/21/13 13:18	5
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			10/21/13 13:18	5
Acetone	ND		250		ug/L			10/21/13 13:18	5
Benzene	ND		5.0		ug/L			10/21/13 13:18	5
Bromobenzene	ND		5.0		ug/L			10/21/13 13:18	5
Bromoform	ND		5.0		ug/L			10/21/13 13:18	5
Bromomethane	ND		10		ug/L			10/21/13 13:18	5
Carbon disulfide	ND		50		ug/L			10/21/13 13:18	5
Carbon tetrachloride	ND		5.0		ug/L			10/21/13 13:18	5
Chlorobenzene	ND		5.0		ug/L			10/21/13 13:18	5
Chlorobromomethane	ND		5.0		ug/L			10/21/13 13:18	5
Chlorodibromomethane	ND		2.5		ug/L			10/21/13 13:18	5
Chloroethane	ND		10		ug/L			10/21/13 13:18	5
Chloroform	ND		5.0		ug/L			10/21/13 13:18	5
Chloromethane	ND		10		ug/L			10/21/13 13:18	5
cis-1,2-Dichloroethene	**330**		5.0		ug/L			10/21/13 13:18	5
cis-1,3-Dichloropropene	ND		2.0		ug/L			10/21/13 13:18	5
Dichlorobromomethane	ND		2.5		ug/L			10/21/13 13:18	5
Dichlorodifluoromethane	ND		5.0		ug/L			10/21/13 13:18	5
Ethyl ether	ND		5.0		ug/L			10/21/13 13:18	5
Ethylbenzene	ND		5.0		ug/L			10/21/13 13:18	5
Ethylene Dibromide	ND		5.0		ug/L			10/21/13 13:18	5
Hexachlorobutadiene	ND		2.0		ug/L			10/21/13 13:18	5
Isopropyl ether	ND		50		ug/L			10/21/13 13:18	5
Isopropylbenzene	ND		5.0		ug/L			10/21/13 13:18	5
Methyl tert-butyl ether	ND		5.0		ug/L			10/21/13 13:18	5
Methylene Chloride	ND		5.0		ug/L			10/21/13 13:18	5
m-Xylene & p-Xylene	ND		10		ug/L			10/21/13 13:18	5
Naphthalene	ND		25		ug/L			10/21/13 13:18	5
n-Butylbenzene	ND		5.0		ug/L			10/21/13 13:18	5
N-Propylbenzene	ND		5.0		ug/L			10/21/13 13:18	5
o-Xylene	ND		5.0		ug/L			10/21/13 13:18	5
sec-Butylbenzene	ND		5.0		ug/L			10/21/13 13:18	5
Styrene	ND		5.0		ug/L			10/21/13 13:18	5
Tert-amyl methyl ether	ND		25		ug/L			10/21/13 13:18	5
Tert-butyl ethyl ether	ND		25		ug/L			10/21/13 13:18	5
tert-Butylbenzene	ND		5.0		ug/L			10/21/13 13:18	5
Tetrachloroethene	**7.7**		5.0		ug/L			10/21/13 13:18	5
Tetrahydrofuran	ND		50		ug/L			10/21/13 13:18	5
Toluene	**69**		5.0		ug/L			10/21/13 13:18	5

Client Sample ID: DUPX2-12-20131013-01

Lab Sample ID: 480-47908-23

Date Collected: 10/13/13 00:00

Matrix: Water

Date Received: 10/15/13 07:00

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	ND		5.0		ug/L			10/21/13 13:18	5
trans-1,3-Dichloropropene	ND		2.0		ug/L			10/21/13 13:18	5
Trichloroethene	**160**		5.0		ug/L			10/21/13 13:18	5
Trichlorofluoromethane	ND		5.0		ug/L			10/21/13 13:18	5
Vinyl chloride	**17**		5.0		ug/L			10/21/13 13:18	5
Dibromomethane	ND		5.0		ug/L			10/21/13 13:18	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*99*		*70 - 130*		*10/21/13 13:18*	*5*
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 130*		*10/21/13 13:18*	*5*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*10/21/13 13:18*	*5*

Client Sample ID: DUPX3-12-20131014-01

Lab Sample ID: 480-47908-24

Date Collected: 10/14/13 00:00

Matrix: Water

Date Received: 10/15/13 07:00

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.0		ug/L			10/21/13 13:42	5
1,1,1-Trichloroethane	ND		5.0		ug/L			10/21/13 13:42	5
1,1,2,2-Tetrachloroethane	ND		2.5		ug/L			10/21/13 13:42	5
1,1,2-Trichloroethane	ND		5.0		ug/L			10/21/13 13:42	5
1,1-Dichloroethane	ND		5.0		ug/L			10/21/13 13:42	5
1,1-Dichloroethene	ND		5.0		ug/L			10/21/13 13:42	5
1,1-Dichloropropene	ND		5.0		ug/L			10/21/13 13:42	5
1,2,3-Trichlorobenzene	ND		5.0		ug/L			10/21/13 13:42	5
1,2,3-Trichloropropane	ND		5.0		ug/L			10/21/13 13:42	5
1,2,4-Trichlorobenzene	ND		5.0		ug/L			10/21/13 13:42	5
1,2,4-Trimethylbenzene	ND		5.0		ug/L			10/21/13 13:42	5
1,2-Dibromo-3-Chloropropane	ND		25		ug/L			10/21/13 13:42	5
1,2-Dichlorobenzene	ND		5.0		ug/L			10/21/13 13:42	5
1,2-Dichloroethane	ND		5.0		ug/L			10/21/13 13:42	5
1,2-Dichloropropane	ND		5.0		ug/L			10/21/13 13:42	5
1,3,5-Trimethylbenzene	ND		5.0		ug/L			10/21/13 13:42	5
1,3-Dichlorobenzene	ND		5.0		ug/L			10/21/13 13:42	5
1,3-Dichloropropane	ND		5.0		ug/L			10/21/13 13:42	5
1,4-Dichlorobenzene	ND		5.0		ug/L			10/21/13 13:42	5
1,4-Dioxane	ND		250		ug/L			10/21/13 13:42	5
2,2-Dichloropropane	ND		5.0		ug/L			10/21/13 13:42	5
2-Butanone (MEK)	**100**	*	50		ug/L			10/21/13 13:42	5
2-Chlorotoluene	ND		5.0		ug/L			10/21/13 13:42	5
2-Hexanone	ND		50		ug/L			10/21/13 13:42	5
4-Chlorotoluene	ND		5.0		ug/L			10/21/13 13:42	5
4-Isopropyltoluene	ND		5.0		ug/L			10/21/13 13:42	5
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			10/21/13 13:42	5
Acetone	ND		250		ug/L			10/21/13 13:42	5
Benzene	ND		5.0		ug/L			10/21/13 13:42	5
Bromobenzene	ND		5.0		ug/L			10/21/13 13:42	5
Bromoform	ND		5.0		ug/L			10/21/13 13:42	5
Bromomethane	ND		10		ug/L			10/21/13 13:42	5

Client Sample ID: DUPX3-12-20131014-01

Lab Sample ID: 480-47908-24

Date Collected: 10/14/13 00:00

Matrix: Water

Date Received: 10/15/13 07:00

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	ND		50		ug/L			10/21/13 13:42	5
Carbon tetrachloride	ND		5.0		ug/L			10/21/13 13:42	5
Chlorobenzene	ND		5.0		ug/L			10/21/13 13:42	5
Chlorobromomethane	ND		5.0		ug/L			10/21/13 13:42	5
Chlorodibromomethane	ND		2.5		ug/L			10/21/13 13:42	5
Chloroethane	ND		10		ug/L			10/21/13 13:42	5
Chloroform	ND		5.0		ug/L			10/21/13 13:42	5
Chloromethane	ND		10		ug/L			10/21/13 13:42	5
cis-1,2-Dichloroethene	**230**		5.0		ug/L			10/21/13 13:42	5
cis-1,3-Dichloropropene	ND		2.0		ug/L			10/21/13 13:42	5
Dichlorobromomethane	ND		2.5		ug/L			10/21/13 13:42	5
Dichlorodifluoromethane	ND		5.0		ug/L			10/21/13 13:42	5
Ethyl ether	ND		5.0		ug/L			10/21/13 13:42	5
Ethylbenzene	ND		5.0		ug/L			10/21/13 13:42	5
Ethylene Dibromide	ND		5.0		ug/L			10/21/13 13:42	5
Hexachlorobutadiene	ND		2.0		ug/L			10/21/13 13:42	5
Isopropyl ether	ND		50		ug/L			10/21/13 13:42	5
Isopropylbenzene	ND		5.0		ug/L			10/21/13 13:42	5
Methyl tert-butyl ether	ND		5.0		ug/L			10/21/13 13:42	5
Methylene Chloride	ND		5.0		ug/L			10/21/13 13:42	5
m-Xylene & p-Xylene	**14**		10		ug/L			10/21/13 13:42	5
Naphthalene	ND		25		ug/L			10/21/13 13:42	5
n-Butylbenzene	ND		5.0		ug/L			10/21/13 13:42	5
N-Propylbenzene	ND		5.0		ug/L			10/21/13 13:42	5
o-Xylene	ND		5.0		ug/L			10/21/13 13:42	5
sec-Butylbenzene	ND		5.0		ug/L			10/21/13 13:42	5
Styrene	ND		5.0		ug/L			10/21/13 13:42	5
Tert-amyl methyl ether	ND		25		ug/L			10/21/13 13:42	5
Tert-butyl ethyl ether	ND		25		ug/L			10/21/13 13:42	5
tert-Butylbenzene	ND		5.0		ug/L			10/21/13 13:42	5
Tetrachloroethene	ND		5.0		ug/L			10/21/13 13:42	5
Tetrahydrofuran	ND		50		ug/L			10/21/13 13:42	5
Toluene	**27**		5.0		ug/L			10/21/13 13:42	5
trans-1,2-Dichloroethene	ND		5.0		ug/L			10/21/13 13:42	5
trans-1,3-Dichloropropene	ND		2.0		ug/L			10/21/13 13:42	5
Trichloroethene	ND		5.0		ug/L			10/21/13 13:42	5
Trichlorofluoromethane	ND		5.0		ug/L			10/21/13 13:42	5
Vinyl chloride	**120**		5.0		ug/L			10/21/13 13:42	5
Dibromomethane	ND		5.0		ug/L			10/21/13 13:42	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*99*		*70 - 130*		*10/21/13 13:42*	*5*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 130*		*10/21/13 13:42*	*5*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*10/21/13 13:42*	*5*

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-47908-1

Client Sample ID: Trip Blank
Date Collected: 10/12/13 00:00
Date Received: 10/15/13 07:00

Lab Sample ID: 480-47908-25
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			10/20/13 20:42	1
1,1,1-Trichloroethane	ND		1.0		ug/L			10/20/13 20:42	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			10/20/13 20:42	1
1,1,2-Trichloroethane	ND		1.0		ug/L			10/20/13 20:42	1
1,1-Dichloroethane	ND		1.0		ug/L			10/20/13 20:42	1
1,1-Dichloroethene	ND		1.0		ug/L			10/20/13 20:42	1
1,1-Dichloropropene	ND		1.0		ug/L			10/20/13 20:42	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			10/20/13 20:42	1
1,2,3-Trichloropropane	ND		1.0		ug/L			10/20/13 20:42	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			10/20/13 20:42	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			10/20/13 20:42	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			10/20/13 20:42	1
1,2-Dichlorobenzene	ND		1.0		ug/L			10/20/13 20:42	1
1,2-Dichloroethane	ND		1.0		ug/L			10/20/13 20:42	1
1,2-Dichloropropane	ND		1.0		ug/L			10/20/13 20:42	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			10/20/13 20:42	1
1,3-Dichlorobenzene	ND		1.0		ug/L			10/20/13 20:42	1
1,3-Dichloropropane	ND		1.0		ug/L			10/20/13 20:42	1
1,4-Dichlorobenzene	ND		1.0		ug/L			10/20/13 20:42	1
1,4-Dioxane	ND		50		ug/L			10/20/13 20:42	1
2,2-Dichloropropane	ND		1.0		ug/L			10/20/13 20:42	1
2-Butanone (MEK)	ND	*	10		ug/L			10/20/13 20:42	1
2-Chlorotoluene	ND		1.0		ug/L			10/20/13 20:42	1
2-Hexanone	ND		10		ug/L			10/20/13 20:42	1
4-Chlorotoluene	ND		1.0		ug/L			10/20/13 20:42	1
4-Isopropyltoluene	ND		1.0		ug/L			10/20/13 20:42	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			10/20/13 20:42	1
Acetone	ND		50		ug/L			10/20/13 20:42	1
Benzene	ND		1.0		ug/L			10/20/13 20:42	1
Bromobenzene	ND		1.0		ug/L			10/20/13 20:42	1
Bromoform	ND		1.0		ug/L			10/20/13 20:42	1
Bromomethane	ND		2.0		ug/L			10/20/13 20:42	1
Carbon disulfide	ND		10		ug/L			10/20/13 20:42	1
Carbon tetrachloride	ND		1.0		ug/L			10/20/13 20:42	1
Chlorobenzene	ND		1.0		ug/L			10/20/13 20:42	1
Chlorobromomethane	ND		1.0		ug/L			10/20/13 20:42	1
Chlorodibromomethane	ND		0.50		ug/L			10/20/13 20:42	1
Chloroethane	ND		2.0		ug/L			10/20/13 20:42	1
Chloroform	ND		1.0		ug/L			10/20/13 20:42	1
Chloromethane	ND		2.0		ug/L			10/20/13 20:42	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			10/20/13 20:42	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			10/20/13 20:42	1
Dichlorobromomethane	ND		0.50		ug/L			10/20/13 20:42	1
Dichlorodifluoromethane	ND		1.0		ug/L			10/20/13 20:42	1
Ethyl ether	ND		1.0		ug/L			10/20/13 20:42	1
Ethylbenzene	ND		1.0		ug/L			10/20/13 20:42	1
Ethylene Dibromide	ND		1.0		ug/L			10/20/13 20:42	1
Hexachlorobutadiene	ND		0.40		ug/L			10/20/13 20:42	1
Isopropyl ether	ND		10		ug/L			10/20/13 20:42	1

Client Sample ID: Trip Blank

Lab Sample ID: 480-47908-25

Date Collected: 10/12/13 00:00

Matrix: Water

Date Received: 10/15/13 07:00

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	ND		1.0		ug/L			10/20/13 20:42	1
Methyl tert-butyl ether	ND		1.0		ug/L			10/20/13 20:42	1
Methylene Chloride	ND		1.0		ug/L			10/20/13 20:42	1
m-Xylene & p-Xylene	ND		2.0		ug/L			10/20/13 20:42	1
Naphthalene	ND		5.0		ug/L			10/20/13 20:42	1
n-Butylbenzene	ND		1.0		ug/L			10/20/13 20:42	1
N-Propylbenzene	ND		1.0		ug/L			10/20/13 20:42	1
o-Xylene	ND		1.0		ug/L			10/20/13 20:42	1
sec-Butylbenzene	ND		1.0		ug/L			10/20/13 20:42	1
Styrene	ND		1.0		ug/L			10/20/13 20:42	1
Tert-amyl methyl ether	ND		5.0		ug/L			10/20/13 20:42	1
Tert-butyl ethyl ether	ND		5.0		ug/L			10/20/13 20:42	1
tert-Butylbenzene	ND		1.0		ug/L			10/20/13 20:42	1
Tetrachloroethene	ND		1.0		ug/L			10/20/13 20:42	1
Tetrahydrofuran	ND		10		ug/L			10/20/13 20:42	1
Toluene	ND		1.0		ug/L			10/20/13 20:42	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			10/20/13 20:42	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			10/20/13 20:42	1
Trichloroethene	ND		1.0		ug/L			10/20/13 20:42	1
Trichlorofluoromethane	ND		1.0		ug/L			10/20/13 20:42	1
Vinyl chloride	ND		1.0		ug/L			10/20/13 20:42	1
Dibromomethane	ND		1.0		ug/L			10/20/13 20:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*101*		*70 - 130*		*10/20/13 20:42*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 130*		*10/20/13 20:42*	*1*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*		*10/20/13 20:42*	*1*

Surrogate Summary

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-47908-1

Method: 8260C - Volatile Organic Compounds (GC/MS)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		TOL	12DCE	BFB
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	(70-130)
480-47908-1	MW-261S-20131012-01	96	99	99
480-47908-1 MS	MW-261S-20131012-01	99	99	101
480-47908-1 MSD	MW-261S-20131012-01	99	100	101
480-47908-2 - DL	MW-265M-20131014-01	98	99	98
480-47908-2	MW-265M-20131014-01	97	100	99
480-47908-3	MW-267S-20131014-01	95	100	100
480-47908-4	MW-267M-20131014-01	98	100	99
480-47908-5	MW-268M-20131014-01	98	99	94
480-47908-6	MW-551-20131012-01	98	99	103
480-47908-6 - DL	MW-551-20131012-01	98	99	99
480-47908-6 MS	MW-551-20131012-01	99	102	99
480-47908-6 MSD	MW-551-20131012-01	98	105	99
480-47908-7	MW-552-20131012-01	100	102	102
480-47908-8	MW-553-20131012-01	95	101	98
480-47908-8 - DL	MW-553-20131012-01	98	101	96
480-47908-9	MW-560-20131014-01	99	102	99
480-47908-10	MW-561-20131014-01	95	98	100
480-47908-10 - DL	MW-561-20131014-01	97	103	96
480-47908-11	MW-562-20131012-01	96	103	98
480-47908-12	MW-563-20131014-01	98	103	99
480-47908-13	REW-1-20131012-01	98	100	102
480-47908-13 - DL	REW-1-20131012-01	99	103	97
480-47908-14	REW-4-20131012-01	98	99	99
480-47908-15	REW-5-20131012-01	99	101	98
480-47908-16	REW-6-20131013-01	96	102	99
480-47908-17	REW-7-20131013-01	97	100	99
480-47908-18	REW-8-20131013-01	98	101	101
480-47908-19	REW-9-20131013-01	97	102	98
480-47908-19 - DL	REW-9-20131013-01	99	102	101
480-47908-20	REW-10-20131013-01	95	100	96
480-47908-21	REW-12-20131013-01	99	102	98
480-47908-22	DUPX1-12-20131012-01	97	103	96
480-47908-23	DUPX2-12-20131013-01	99	103	99
480-47908-24	DUPX3-12-20131014-01	99	100	99
480-47908-25	Trip Blank	101	103	100
LCS 480-145872/4	Lab Control Sample	98	100	103
LCS 480-146170/4	Lab Control Sample	100	99	103
LCS 480-146187/5	Lab Control Sample	100	102	100
LCS 480-146250/5	Lab Control Sample	102	99	105
LCSD 480-145872/5	Lab Control Sample Dup	97	99	101
LCSD 480-146170/5	Lab Control Sample Dup	98	98	97
LCSD 480-146187/6	Lab Control Sample Dup	101	101	100
LCSD 480-146250/6	Lab Control Sample Dup	99	100	101
MB 480-145872/7	Method Blank	96	97	98
MB 480-146170/7	Method Blank	95	100	98
MB 480-146187/8	Method Blank	96	102	98
MB 480-146250/8	Method Blank	97	102	95

Surrogate Legend

Surrogate Summary

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-47908-1

TOL = Toluene-d8 (Surr)
12DCE = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)

Method: 8260C SIM - Volatile Organic Compounds (GC/MS)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)							
Lab Sample ID	**Client Sample ID**	**BA-d9 (Sur (50-150)**	**DBFM (50-150)**						
480-47908-1	MW-261S-20131012-01	106	98						
480-47908-2	MW-265M-20131014-01	107	99						
480-47908-3	MW-267S-20131014-01	105	98						
480-47908-4	MW-267M-20131014-01	106	101						
480-47908-5	MW-268M-20131014-01	67	100						
480-47908-7	MW-552-20131012-01	110	99						
480-47908-22	DUPX1-12-20131012-01	110	100						
LCS 480-145256/4	Lab Control Sample	99	97						
MB 480-145256/6	Method Blank	98	95						

Surrogate Legend

TBA-d9 (Surr) = TBA-d9 (Surr)
DBFM = Dibromofluoromethane (Surr)

Method: 8260C - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-145872/7
Matrix: Water
Analysis Batch: 145872

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			10/18/13 11:41	1
1,1,1-Trichloroethane	ND		1.0		ug/L			10/18/13 11:41	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			10/18/13 11:41	1
1,1,2-Trichloroethane	ND		1.0		ug/L			10/18/13 11:41	1
1,1-Dichloroethane	ND		1.0		ug/L			10/18/13 11:41	1
1,1-Dichloroethene	ND		1.0		ug/L			10/18/13 11:41	1
1,1-Dichloropropene	ND		1.0		ug/L			10/18/13 11:41	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			10/18/13 11:41	1
1,2,3-Trichloropropane	ND		1.0		ug/L			10/18/13 11:41	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			10/18/13 11:41	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			10/18/13 11:41	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			10/18/13 11:41	1
1,2-Dichlorobenzene	ND		1.0		ug/L			10/18/13 11:41	1
1,2-Dichloroethane	ND		1.0		ug/L			10/18/13 11:41	1
1,2-Dichloropropane	ND		1.0		ug/L			10/18/13 11:41	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			10/18/13 11:41	1
1,3-Dichlorobenzene	ND		1.0		ug/L			10/18/13 11:41	1
1,3-Dichloropropane	ND		1.0		ug/L			10/18/13 11:41	1
1,4-Dichlorobenzene	ND		1.0		ug/L			10/18/13 11:41	1
1,4-Dioxane	ND		50		ug/L			10/18/13 11:41	1
2,2-Dichloropropane	ND		1.0		ug/L			10/18/13 11:41	1
2-Butanone (MEK)	ND		10		ug/L			10/18/13 11:41	1
2-Chlorotoluene	ND		1.0		ug/L			10/18/13 11:41	1
2-Hexanone	ND		10		ug/L			10/18/13 11:41	1
4-Chlorotoluene	ND		1.0		ug/L			10/18/13 11:41	1
4-Isopropyltoluene	ND		1.0		ug/L			10/18/13 11:41	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			10/18/13 11:41	1
Acetone	ND		50		ug/L			10/18/13 11:41	1
Benzene	ND		1.0		ug/L			10/18/13 11:41	1
Bromobenzene	ND		1.0		ug/L			10/18/13 11:41	1
Bromoform	ND		1.0		ug/L			10/18/13 11:41	1
Bromomethane	ND		2.0		ug/L			10/18/13 11:41	1
Carbon disulfide	ND		10		ug/L			10/18/13 11:41	1
Carbon tetrachloride	ND		1.0		ug/L			10/18/13 11:41	1
Chlorobenzene	ND		1.0		ug/L			10/18/13 11:41	1
Chlorobromomethane	ND		1.0		ug/L			10/18/13 11:41	1
Chlorodibromomethane	ND		0.50		ug/L			10/18/13 11:41	1
Chloroethane	ND		2.0		ug/L			10/18/13 11:41	1
Chloroform	ND		1.0		ug/L			10/18/13 11:41	1
Chloromethane	ND		2.0		ug/L			10/18/13 11:41	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			10/18/13 11:41	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			10/18/13 11:41	1
Dichlorobromomethane	ND		0.50		ug/L			10/18/13 11:41	1
Dichlorodifluoromethane	ND		1.0		ug/L			10/18/13 11:41	1
Ethyl ether	ND		1.0		ug/L			10/18/13 11:41	1
Ethylbenzene	ND		1.0		ug/L			10/18/13 11:41	1
Ethylene Dibromide	ND		1.0		ug/L			10/18/13 11:41	1
Hexachlorobutadiene	ND		0.40		ug/L			10/18/13 11:41	1

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-145872/7
Matrix: Water
Analysis Batch: 145872

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropyl ether	ND		10		ug/L			10/18/13 11:41	1
Isopropylbenzene	ND		1.0		ug/L			10/18/13 11:41	1
Methyl tert-butyl ether	ND		1.0		ug/L			10/18/13 11:41	1
Methylene Chloride	ND		1.0		ug/L			10/18/13 11:41	1
m-Xylene & p-Xylene	ND		2.0		ug/L			10/18/13 11:41	1
Naphthalene	ND		5.0		ug/L			10/18/13 11:41	1
n-Butylbenzene	ND		1.0		ug/L			10/18/13 11:41	1
N-Propylbenzene	ND		1.0		ug/L			10/18/13 11:41	1
o-Xylene	ND		1.0		ug/L			10/18/13 11:41	1
sec-Butylbenzene	ND		1.0		ug/L			10/18/13 11:41	1
Styrene	ND		1.0		ug/L			10/18/13 11:41	1
Tert-amyl methyl ether	ND		5.0		ug/L			10/18/13 11:41	1
Tert-butyl ethyl ether	ND		5.0		ug/L			10/18/13 11:41	1
tert-Butylbenzene	ND		1.0		ug/L			10/18/13 11:41	1
Tetrachloroethene	ND		1.0		ug/L			10/18/13 11:41	1
Tetrahydrofuran	ND		10		ug/L			10/18/13 11:41	1
Toluene	ND		1.0		ug/L			10/18/13 11:41	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			10/18/13 11:41	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			10/18/13 11:41	1
Trichloroethene	ND		1.0		ug/L			10/18/13 11:41	1
Trichlorofluoromethane	ND		1.0		ug/L			10/18/13 11:41	1
Vinyl chloride	ND		1.0		ug/L			10/18/13 11:41	1
Dibromomethane	ND		1.0		ug/L			10/18/13 11:41	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*96*		*70 - 130*		*10/18/13 11:41*	*1*
1,2-Dichloroethane-d4 (Surr)	*97*		*70 - 130*		*10/18/13 11:41*	*1*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*		*10/18/13 11:41*	*1*

Lab Sample ID: LCS 480-145872/4
Matrix: Water
Analysis Batch: 145872

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	25.0	24.2		ug/L		97	70 - 130
1,1,1-Trichloroethane	25.0	23.5		ug/L		94	70 - 130
1,1,2,2-Tetrachloroethane	25.0	22.0		ug/L		88	70 - 130
1,1,2-Trichloroethane	25.0	23.2		ug/L		93	70 - 130
1,1-Dichloroethane	25.0	23.9		ug/L		95	70 - 130
1,1-Dichloroethene	25.0	22.7		ug/L		91	70 - 130
1,1-Dichloropropene	25.0	23.6		ug/L		94	70 - 130
1,2,3-Trichlorobenzene	25.0	23.2		ug/L		93	70 - 130
1,2,3-Trichloropropane	25.0	21.8		ug/L		87	70 - 130
1,2,4-Trichlorobenzene	25.0	23.8		ug/L		95	70 - 130
1,2,4-Trimethylbenzene	25.0	23.9		ug/L		95	70 - 130
1,2-Dibromo-3-Chloropropane	25.0	23.5		ug/L		94	70 - 130
1,2-Dichlorobenzene	25.0	22.9		ug/L		91	70 - 130
1,2-Dichloroethane	25.0	23.4		ug/L		94	70 - 130

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-145872/4
Matrix: Water
Analysis Batch: 145872

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichloropropane	25.0	23.7		ug/L		95	70 - 130
1,3,5-Trimethylbenzene	25.0	23.2		ug/L		93	70 - 130
1,3-Dichlorobenzene	25.0	23.2		ug/L		93	70 - 130
1,3-Dichloropropane	25.0	22.5		ug/L		90	70 - 130
1,4-Dichlorobenzene	25.0	23.4		ug/L		94	70 - 130
1,4-Dioxane	1000	812		ug/L		81	70 - 130
2,2-Dichloropropane	25.0	24.1		ug/L		96	70 - 130
2-Butanone (MEK)	125	158		ug/L		126	70 - 130
2-Chlorotoluene	25.0	23.0		ug/L		92	70 - 130
2-Hexanone	125	114		ug/L		91	70 - 130
4-Chlorotoluene	25.0	23.4		ug/L		94	70 - 130
4-Isopropyltoluene	25.0	23.0		ug/L		92	70 - 130
4-Methyl-2-pentanone (MIBK)	125	113		ug/L		90	70 - 130
Acetone	125	120		ug/L		96	70 - 130
Benzene	25.0	23.6		ug/L		94	70 - 130
Bromobenzene	25.0	23.4		ug/L		94	70 - 130
Bromoform	25.0	21.8		ug/L		87	70 - 130
Bromomethane	25.0	24.2		ug/L		97	70 - 130
Carbon disulfide	25.0	26.8		ug/L		107	70 - 130
Carbon tetrachloride	25.0	24.1		ug/L		96	70 - 130
Chlorobenzene	25.0	23.6		ug/L		94	70 - 130
Chlorobromomethane	25.0	24.8		ug/L		99	70 - 130
Chlorodibromomethane	25.0	22.7		ug/L		91	70 - 130
Chloroethane	25.0	24.8		ug/L		99	70 - 130
Chloroform	25.0	23.7		ug/L		95	70 - 130
Chloromethane	25.0	23.0		ug/L		92	70 - 130
cis-1,2-Dichloroethene	25.0	24.4		ug/L		98	70 - 130
cis-1,3-Dichloropropene	25.0	24.9		ug/L		100	70 - 130
Dichlorobromomethane	25.0	24.2		ug/L		97	70 - 130
Dichlorodifluoromethane	50.0	51.0		ug/L		102	70 - 130
Ethyl ether	25.0	23.1		ug/L		92	70 - 130
Ethylbenzene	25.0	23.5		ug/L		94	70 - 130
Ethylene Dibromide	25.0	23.3		ug/L		93	70 - 130
Hexachlorobutadiene	25.0	24.8		ug/L		99	70 - 130
Isopropyl ether	25.0	24.6		ug/L		98	70 - 130
Isopropylbenzene	25.0	23.2		ug/L		93	70 - 130
Methyl tert-butyl ether	25.0	25.0		ug/L		100	70 - 130
Methylene Chloride	25.0	24.6		ug/L		98	70 - 130
m-Xylene & p-Xylene	50.0	47.9		ug/L		96	70 - 130
Naphthalene	25.0	22.7		ug/L		91	70 - 130
n-Butylbenzene	25.0	23.7		ug/L		95	70 - 130
N-Propylbenzene	25.0	23.2		ug/L		93	70 - 130
o-Xylene	25.0	24.0		ug/L		96	70 - 130
sec-Butylbenzene	25.0	23.4		ug/L		94	70 - 130
Styrene	25.0	23.7		ug/L		95	70 - 130
Tert-amyl methyl ether	25.0	23.8		ug/L		95	70 - 130
Tert-butyl ethyl ether	25.0	24.0		ug/L		96	70 - 130
tert-Butylbenzene	25.0	24.0		ug/L		96	70 - 130

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-145872/4
Matrix: Water
Analysis Batch: 145872

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Tetrachloroethene	25.0	24.2		ug/L		97	70 - 130
Tetrahydrofuran	125	111		ug/L		89	70 - 130
Toluene	25.0	23.3		ug/L		93	70 - 130
trans-1,2-Dichloroethene	25.0	24.2		ug/L		97	70 - 130
trans-1,3-Dichloropropene	25.0	23.6		ug/L		94	70 - 130
Trichloroethene	25.0	23.4		ug/L		93	70 - 130
Trichlorofluoromethane	25.0	25.6		ug/L		102	70 - 130
Vinyl chloride	25.0	23.9		ug/L		96	70 - 130
Dibromomethane	25.0	23.5		ug/L		94	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*98*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 130*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*

Lab Sample ID: LCSD 480-145872/5
Matrix: Water
Analysis Batch: 145872

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	25.0	23.8		ug/L		95	70 - 130	1	20
1,1,1-Trichloroethane	25.0	22.1		ug/L		88	70 - 130	6	20
1,1,2,2-Tetrachloroethane	25.0	22.4		ug/L		89	70 - 130	2	20
1,1,2-Trichloroethane	25.0	22.5		ug/L		90	70 - 130	3	20
1,1-Dichloroethane	25.0	23.0		ug/L		92	70 - 130	4	20
1,1-Dichloroethene	25.0	21.4		ug/L		86	70 - 130	6	20
1,1-Dichloropropene	25.0	22.6		ug/L		90	70 - 130	4	20
1,2,3-Trichlorobenzene	25.0	23.2		ug/L		93	70 - 130	0	20
1,2,3-Trichloropropane	25.0	21.6		ug/L		86	70 - 130	1	20
1,2,4-Trichlorobenzene	25.0	24.2		ug/L		97	70 - 130	2	20
1,2,4-Trimethylbenzene	25.0	22.5		ug/L		90	70 - 130	6	20
1,2-Dibromo-3-Chloropropane	25.0	23.9		ug/L		96	70 - 130	2	20
1,2-Dichlorobenzene	25.0	22.3		ug/L		89	70 - 130	2	20
1,2-Dichloroethane	25.0	22.9		ug/L		92	70 - 130	2	20
1,2-Dichloropropane	25.0	22.9		ug/L		92	70 - 130	3	20
1,3,5-Trimethylbenzene	25.0	22.3		ug/L		89	70 - 130	4	20
1,3-Dichlorobenzene	25.0	22.4		ug/L		90	70 - 130	3	20
1,3-Dichloropropane	25.0	22.8		ug/L		91	70 - 130	1	20
1,4-Dichlorobenzene	25.0	22.8		ug/L		91	70 - 130	3	20
1,4-Dioxane	1000	847		ug/L		85	70 - 130	4	20
2,2-Dichloropropane	25.0	22.5		ug/L		90	70 - 130	7	20
2-Butanone (MEK)	125	162		ug/L		130	70 - 130	3	20
2-Chlorotoluene	25.0	22.6		ug/L		91	70 - 130	1	20
2-Hexanone	125	116		ug/L		93	70 - 130	2	20
4-Chlorotoluene	25.0	22.7		ug/L		91	70 - 130	3	20
4-Isopropyltoluene	25.0	21.9		ug/L		88	70 - 130	5	20
4-Methyl-2-pentanone (MIBK)	125	115		ug/L		92	70 - 130	2	20
Acetone	125	123		ug/L		98	70 - 130	3	20

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 480-145872/5
Matrix: Water
Analysis Batch: 145872

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	25.0	22.6		ug/L		90	70 - 130	4	20
Bromobenzene	25.0	23.3		ug/L		93	70 - 130	0	20
Bromoform	25.0	22.6		ug/L		90	70 - 130	4	20
Bromomethane	25.0	23.9		ug/L		96	70 - 130	1	20
Carbon disulfide	25.0	24.9		ug/L		100	70 - 130	7	20
Carbon tetrachloride	25.0	22.4		ug/L		90	70 - 130	7	20
Chlorobenzene	25.0	22.5		ug/L		90	70 - 130	5	20
Chlorobromomethane	25.0	24.2		ug/L		97	70 - 130	3	20
Chlorodibromomethane	25.0	23.0		ug/L		92	70 - 130	1	20
Chloroethane	25.0	23.4		ug/L		94	70 - 130	6	20
Chloroform	25.0	23.1		ug/L		92	70 - 130	3	20
Chloromethane	25.0	21.3		ug/L		85	70 - 130	8	20
cis-1,2-Dichloroethene	25.0	22.7		ug/L		91	70 - 130	7	20
cis-1,3-Dichloropropene	25.0	23.9		ug/L		95	70 - 130	4	20
Dichlorobromomethane	25.0	23.4		ug/L		93	70 - 130	4	20
Dichlorodifluoromethane	50.0	46.5		ug/L		93	70 - 130	9	20
Ethyl ether	25.0	23.3		ug/L		93	70 - 130	1	20
Ethylbenzene	25.0	22.3		ug/L		89	70 - 130	5	20
Ethylene Dibromide	25.0	22.6		ug/L		90	70 - 130	3	20
Hexachlorobutadiene	25.0	23.8		ug/L		95	70 - 130	4	20
Isopropyl ether	25.0	23.5		ug/L		94	70 - 130	4	20
Isopropylbenzene	25.0	22.1		ug/L		89	70 - 130	5	20
Methyl tert-butyl ether	25.0	24.9		ug/L		100	70 - 130	0	20
Methylene Chloride	25.0	23.6		ug/L		95	70 - 130	4	20
m-Xylene & p-Xylene	50.0	45.2		ug/L		90	70 - 130	6	20
Naphthalene	25.0	23.2		ug/L		93	70 - 130	2	20
n-Butylbenzene	25.0	22.2		ug/L		89	70 - 130	6	20
N-Propylbenzene	25.0	22.2		ug/L		89	70 - 130	4	20
o-Xylene	25.0	22.5		ug/L		90	70 - 130	7	20
sec-Butylbenzene	25.0	22.4		ug/L		90	70 - 130	4	20
Styrene	25.0	22.8		ug/L		91	70 - 130	4	20
Tert-amyl methyl ether	25.0	23.1		ug/L		92	70 - 130	3	20
Tert-butyl ethyl ether	25.0	23.7		ug/L		95	70 - 130	1	20
tert-Butylbenzene	25.0	22.9		ug/L		92	70 - 130	5	20
Tetrachloroethene	25.0	23.9		ug/L		96	70 - 130	1	20
Tetrahydrofuran	125	116		ug/L		93	70 - 130	4	20
Toluene	25.0	22.2		ug/L		89	70 - 130	5	20
trans-1,2-Dichloroethene	25.0	23.2		ug/L		93	70 - 130	4	20
trans-1,3-Dichloropropene	25.0	23.7		ug/L		95	70 - 130	1	20
Trichloroethene	25.0	23.6		ug/L		94	70 - 130	1	20
Trichlorofluoromethane	25.0	24.9		ug/L		100	70 - 130	3	20
Vinyl chloride	25.0	22.1		ug/L		88	70 - 130	8	20
Dibromomethane	25.0	23.2		ug/L		93	70 - 130	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*97*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-146170/7
Matrix: Water
Analysis Batch: 146170

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			10/19/13 23:34	1
1,1,1-Trichloroethane	ND		1.0		ug/L			10/19/13 23:34	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			10/19/13 23:34	1
1,1,2-Trichloroethane	ND		1.0		ug/L			10/19/13 23:34	1
1,1-Dichloroethane	ND		1.0		ug/L			10/19/13 23:34	1
1,1-Dichloroethene	ND		1.0		ug/L			10/19/13 23:34	1
1,1-Dichloropropene	ND		1.0		ug/L			10/19/13 23:34	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			10/19/13 23:34	1
1,2,3-Trichloropropane	ND		1.0		ug/L			10/19/13 23:34	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			10/19/13 23:34	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			10/19/13 23:34	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			10/19/13 23:34	1
1,2-Dichlorobenzene	ND		1.0		ug/L			10/19/13 23:34	1
1,2-Dichloroethane	ND		1.0		ug/L			10/19/13 23:34	1
1,2-Dichloropropane	ND		1.0		ug/L			10/19/13 23:34	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			10/19/13 23:34	1
1,3-Dichlorobenzene	ND		1.0		ug/L			10/19/13 23:34	1
1,3-Dichloropropane	ND		1.0		ug/L			10/19/13 23:34	1
1,4-Dichlorobenzene	ND		1.0		ug/L			10/19/13 23:34	1
1,4-Dioxane	ND		50		ug/L			10/19/13 23:34	1
2,2-Dichloropropane	ND		1.0		ug/L			10/19/13 23:34	1
2-Butanone (MEK)	ND		10		ug/L			10/19/13 23:34	1
2-Chlorotoluene	ND		1.0		ug/L			10/19/13 23:34	1
2-Hexanone	ND		10		ug/L			10/19/13 23:34	1
4-Chlorotoluene	ND		1.0		ug/L			10/19/13 23:34	1
4-Isopropyltoluene	ND		1.0		ug/L			10/19/13 23:34	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			10/19/13 23:34	1
Acetone	ND		50		ug/L			10/19/13 23:34	1
Benzene	ND		1.0		ug/L			10/19/13 23:34	1
Bromobenzene	ND		1.0		ug/L			10/19/13 23:34	1
Bromoform	ND		1.0		ug/L			10/19/13 23:34	1
Bromomethane	ND		2.0		ug/L			10/19/13 23:34	1
Carbon disulfide	ND		10		ug/L			10/19/13 23:34	1
Carbon tetrachloride	ND		1.0		ug/L			10/19/13 23:34	1
Chlorobenzene	ND		1.0		ug/L			10/19/13 23:34	1
Chlorobromomethane	ND		1.0		ug/L			10/19/13 23:34	1
Chlorodibromomethane	ND		0.50		ug/L			10/19/13 23:34	1
Chloroethane	ND		2.0		ug/L			10/19/13 23:34	1
Chloroform	ND		1.0		ug/L			10/19/13 23:34	1
Chloromethane	ND		2.0		ug/L			10/19/13 23:34	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			10/19/13 23:34	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			10/19/13 23:34	1
Dichlorobromomethane	ND		0.50		ug/L			10/19/13 23:34	1
Dichlorodifluoromethane	ND		1.0		ug/L			10/19/13 23:34	1
Ethyl ether	ND		1.0		ug/L			10/19/13 23:34	1
Ethylbenzene	ND		1.0		ug/L			10/19/13 23:34	1
Ethylene Dibromide	ND		1.0		ug/L			10/19/13 23:34	1
Hexachlorobutadiene	ND		0.40		ug/L			10/19/13 23:34	1

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-146170/7
Matrix: Water
Analysis Batch: 146170

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropyl ether	ND		10		ug/L			10/19/13 23:34	1
Isopropylbenzene	ND		1.0		ug/L			10/19/13 23:34	1
Methyl tert-butyl ether	ND		1.0		ug/L			10/19/13 23:34	1
Methylene Chloride	ND		1.0		ug/L			10/19/13 23:34	1
m-Xylene & p-Xylene	ND		2.0		ug/L			10/19/13 23:34	1
Naphthalene	ND		5.0		ug/L			10/19/13 23:34	1
n-Butylbenzene	ND		1.0		ug/L			10/19/13 23:34	1
N-Propylbenzene	ND		1.0		ug/L			10/19/13 23:34	1
o-Xylene	ND		1.0		ug/L			10/19/13 23:34	1
sec-Butylbenzene	ND		1.0		ug/L			10/19/13 23:34	1
Styrene	ND		1.0		ug/L			10/19/13 23:34	1
Tert-amyl methyl ether	ND		5.0		ug/L			10/19/13 23:34	1
Tert-butyl ethyl ether	ND		5.0		ug/L			10/19/13 23:34	1
tert-Butylbenzene	ND		1.0		ug/L			10/19/13 23:34	1
Tetrachloroethene	ND		1.0		ug/L			10/19/13 23:34	1
Tetrahydrofuran	ND		10		ug/L			10/19/13 23:34	1
Toluene	ND		1.0		ug/L			10/19/13 23:34	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			10/19/13 23:34	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			10/19/13 23:34	1
Trichloroethene	ND		1.0		ug/L			10/19/13 23:34	1
Trichlorofluoromethane	ND		1.0		ug/L			10/19/13 23:34	1
Vinyl chloride	ND		1.0		ug/L			10/19/13 23:34	1
Dibromomethane	ND		1.0		ug/L			10/19/13 23:34	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*95*		*70 - 130*		*10/19/13 23:34*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 130*		*10/19/13 23:34*	*1*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*		*10/19/13 23:34*	*1*

Lab Sample ID: LCS 480-146170/4
Matrix: Water
Analysis Batch: 146170

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	25.0	26.3		ug/L		105	70 - 130
1,1,1-Trichloroethane	25.0	24.8		ug/L		99	70 - 130
1,1,2,2-Tetrachloroethane	25.0	23.2		ug/L		93	70 - 130
1,1,2-Trichloroethane	25.0	23.6		ug/L		94	70 - 130
1,1-Dichloroethane	25.0	25.2		ug/L		101	70 - 130
1,1-Dichloroethene	25.0	25.4		ug/L		102	70 - 130
1,1-Dichloropropene	25.0	25.4		ug/L		101	70 - 130
1,2,3-Trichlorobenzene	25.0	25.2		ug/L		101	70 - 130
1,2,3-Trichloropropane	25.0	22.0		ug/L		88	70 - 130
1,2,4-Trichlorobenzene	25.0	26.3		ug/L		105	70 - 130
1,2,4-Trimethylbenzene	25.0	24.1		ug/L		97	70 - 130
1,2-Dibromo-3-Chloropropane	25.0	24.6		ug/L		98	70 - 130
1,2-Dichlorobenzene	25.0	24.2		ug/L		97	70 - 130
1,2-Dichloroethane	25.0	24.1		ug/L		96	70 - 130

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-146170/4
Matrix: Water
Analysis Batch: 146170

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichloropropane	25.0	24.3		ug/L		97	70 - 130
1,3,5-Trimethylbenzene	25.0	24.5		ug/L		98	70 - 130
1,3-Dichlorobenzene	25.0	23.9		ug/L		96	70 - 130
1,3-Dichloropropane	25.0	23.8		ug/L		95	70 - 130
1,4-Dichlorobenzene	25.0	23.9		ug/L		96	70 - 130
1,4-Dioxane	1000	892		ug/L		89	70 - 130
2,2-Dichloropropane	25.0	24.2		ug/L		97	70 - 130
2-Butanone (MEK)	125	159		ug/L		127	70 - 130
2-Chlorotoluene	25.0	24.4		ug/L		97	70 - 130
2-Hexanone	125	113		ug/L		90	70 - 130
4-Chlorotoluene	25.0	23.5		ug/L		94	70 - 130
4-Isopropyltoluene	25.0	24.7		ug/L		99	70 - 130
4-Methyl-2-pentanone (MIBK)	125	113		ug/L		90	70 - 130
Acetone	125	118		ug/L		94	70 - 130
Benzene	25.0	25.0		ug/L		100	70 - 130
Bromobenzene	25.0	23.6		ug/L		95	70 - 130
Bromoform	25.0	24.4		ug/L		98	70 - 130
Bromomethane	25.0	26.1		ug/L		104	70 - 130
Carbon disulfide	25.0	24.7		ug/L		99	70 - 130
Carbon tetrachloride	25.0	25.1		ug/L		100	70 - 130
Chlorobenzene	25.0	25.1		ug/L		100	70 - 130
Chlorobromomethane	25.0	25.0		ug/L		100	70 - 130
Chlorodibromomethane	25.0	26.0		ug/L		104	70 - 130
Chloroethane	25.0	25.8		ug/L		103	70 - 130
Chloroform	25.0	24.6		ug/L		98	70 - 130
Chloromethane	25.0	23.3		ug/L		93	70 - 130
cis-1,2-Dichloroethene	25.0	24.9		ug/L		100	70 - 130
cis-1,3-Dichloropropene	25.0	25.2		ug/L		101	70 - 130
Dichlorobromomethane	25.0	25.4		ug/L		102	70 - 130
Dichlorodifluoromethane	50.0	54.6		ug/L		109	70 - 130
Ethyl ether	25.0	24.8		ug/L		99	70 - 130
Ethylbenzene	25.0	24.1		ug/L		97	70 - 130
Ethylene Dibromide	25.0	23.9		ug/L		96	70 - 130
Hexachlorobutadiene	25.0	27.5		ug/L		110	70 - 130
Isopropyl ether	25.0	25.6		ug/L		102	70 - 130
Isopropylbenzene	25.0	24.3		ug/L		97	70 - 130
Methyl tert-butyl ether	25.0	24.0		ug/L		96	70 - 130
Methylene Chloride	25.0	24.9		ug/L		100	70 - 130
m-Xylene & p-Xylene	50.0	50.0		ug/L		100	70 - 130
Naphthalene	25.0	24.1		ug/L		96	70 - 130
n-Butylbenzene	25.0	25.2		ug/L		101	70 - 130
N-Propylbenzene	25.0	24.0		ug/L		96	70 - 130
o-Xylene	25.0	24.4		ug/L		98	70 - 130
sec-Butylbenzene	25.0	25.0		ug/L		100	70 - 130
Styrene	25.0	24.9		ug/L		100	70 - 130
Tert-amyl methyl ether	25.0	24.6		ug/L		99	70 - 130
Tert-butyl ethyl ether	25.0	24.6		ug/L		98	70 - 130
tert-Butylbenzene	25.0	24.7		ug/L		99	70 - 130

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-146170/4
Matrix: Water
Analysis Batch: 146170

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Tetrachloroethene	25.0	26.4		ug/L		105	70 - 130
Tetrahydrofuran	125	110		ug/L		88	70 - 130
Toluene	25.0	24.4		ug/L		97	70 - 130
trans-1,2-Dichloroethene	25.0	25.1		ug/L		100	70 - 130
trans-1,3-Dichloropropene	25.0	25.0		ug/L		100	70 - 130
Trichloroethene	25.0	25.6		ug/L		102	70 - 130
Trichlorofluoromethane	25.0	27.5		ug/L		110	70 - 130
Vinyl chloride	25.0	25.1		ug/L		100	70 - 130
Dibromomethane	25.0	24.6		ug/L		98	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*100*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*

Lab Sample ID: LCSD 480-146170/5
Matrix: Water
Analysis Batch: 146170

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	25.0	26.0		ug/L		104	70 - 130	1	20
1,1,1-Trichloroethane	25.0	24.0		ug/L		96	70 - 130	3	20
1,1,2,2-Tetrachloroethane	25.0	23.6		ug/L		94	70 - 130	2	20
1,1,2-Trichloroethane	25.0	23.7		ug/L		95	70 - 130	0	20
1,1-Dichloroethane	25.0	24.3		ug/L		97	70 - 130	4	20
1,1-Dichloroethene	25.0	23.8		ug/L		95	70 - 130	7	20
1,1-Dichloropropene	25.0	24.3		ug/L		97	70 - 130	4	20
1,2,3-Trichlorobenzene	25.0	25.0		ug/L		100	70 - 130	1	20
1,2,3-Trichloropropane	25.0	23.4		ug/L		94	70 - 130	6	20
1,2,4-Trichlorobenzene	25.0	24.9		ug/L		99	70 - 130	6	20
1,2,4-Trimethylbenzene	25.0	24.0		ug/L		96	70 - 130	0	20
1,2-Dibromo-3-Chloropropane	25.0	25.9		ug/L		104	70 - 130	5	20
1,2-Dichlorobenzene	25.0	23.8		ug/L		95	70 - 130	2	20
1,2-Dichloroethane	25.0	24.2		ug/L		97	70 - 130	1	20
1,2-Dichloropropane	25.0	24.1		ug/L		96	70 - 130	1	20
1,3,5-Trimethylbenzene	25.0	24.2		ug/L		97	70 - 130	1	20
1,3-Dichlorobenzene	25.0	23.9		ug/L		96	70 - 130	0	20
1,3-Dichloropropane	25.0	23.8		ug/L		95	70 - 130	0	20
1,4-Dichlorobenzene	25.0	24.3		ug/L		97	70 - 130	2	20
1,4-Dioxane	1000	807		ug/L		81	70 - 130	10	20
2,2-Dichloropropane	25.0	23.0		ug/L		92	70 - 130	5	20
2-Butanone (MEK)	125	162		ug/L		129	70 - 130	2	20
2-Chlorotoluene	25.0	23.6		ug/L		94	70 - 130	3	20
2-Hexanone	125	113		ug/L		91	70 - 130	1	20
4-Chlorotoluene	25.0	23.7		ug/L		95	70 - 130	1	20
4-Isopropyltoluene	25.0	24.5		ug/L		98	70 - 130	1	20
4-Methyl-2-pentanone (MIBK)	125	115		ug/L		92	70 - 130	2	20
Acetone	125	117		ug/L		94	70 - 130	0	20

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 480-146170/5
Matrix: Water
Analysis Batch: 146170

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	25.0	23.7		ug/L		95	70 - 130	6	20
Bromobenzene	25.0	24.7		ug/L		99	70 - 130	5	20
Bromoform	25.0	24.9		ug/L		100	70 - 130	2	20
Bromomethane	25.0	24.1		ug/L		96	70 - 130	8	20
Carbon disulfide	25.0	24.0		ug/L		96	70 - 130	3	20
Carbon tetrachloride	25.0	24.7		ug/L		99	70 - 130	1	20
Chlorobenzene	25.0	24.2		ug/L		97	70 - 130	3	20
Chlorobromomethane	25.0	24.7		ug/L		99	70 - 130	2	20
Chlorodibromomethane	25.0	25.6		ug/L		102	70 - 130	2	20
Chloroethane	25.0	23.7		ug/L		95	70 - 130	8	20
Chloroform	25.0	24.4		ug/L		98	70 - 130	1	20
Chloromethane	25.0	23.6		ug/L		94	70 - 130	1	20
cis-1,2-Dichloroethene	25.0	24.6		ug/L		98	70 - 130	1	20
cis-1,3-Dichloropropene	25.0	25.2		ug/L		101	70 - 130	0	20
Dichlorobromomethane	25.0	24.9		ug/L		99	70 - 130	2	20
Dichlorodifluoromethane	50.0	52.3		ug/L		105	70 - 130	4	20
Ethyl ether	25.0	23.5		ug/L		94	70 - 130	5	20
Ethylbenzene	25.0	23.7		ug/L		95	70 - 130	2	20
Ethylene Dibromide	25.0	23.8		ug/L		95	70 - 130	0	20
Hexachlorobutadiene	25.0	25.6		ug/L		103	70 - 130	7	20
Isopropyl ether	25.0	25.1		ug/L		100	70 - 130	2	20
Isopropylbenzene	25.0	24.3		ug/L		97	70 - 130	0	20
Methyl tert-butyl ether	25.0	24.9		ug/L		100	70 - 130	4	20
Methylene Chloride	25.0	24.7		ug/L		99	70 - 130	1	20
m-Xylene & p-Xylene	50.0	48.1		ug/L		96	70 - 130	4	20
Naphthalene	25.0	25.0		ug/L		100	70 - 130	4	20
n-Butylbenzene	25.0	24.3		ug/L		97	70 - 130	3	20
N-Propylbenzene	25.0	23.6		ug/L		94	70 - 130	2	20
o-Xylene	25.0	24.2		ug/L		97	70 - 130	1	20
sec-Butylbenzene	25.0	24.5		ug/L		98	70 - 130	2	20
Styrene	25.0	24.3		ug/L		97	70 - 130	3	20
Tert-amyl methyl ether	25.0	24.6		ug/L		98	70 - 130	0	20
Tert-butyl ethyl ether	25.0	24.3		ug/L		97	70 - 130	1	20
tert-Butylbenzene	25.0	24.9		ug/L		99	70 - 130	1	20
Tetrachloroethene	25.0	25.8		ug/L		103	70 - 130	2	20
Tetrahydrofuran	125	112		ug/L		90	70 - 130	2	20
Toluene	25.0	23.8		ug/L		95	70 - 130	2	20
trans-1,2-Dichloroethene	25.0	24.8		ug/L		99	70 - 130	1	20
trans-1,3-Dichloropropene	25.0	25.1		ug/L		101	70 - 130	1	20
Trichloroethene	25.0	24.6		ug/L		98	70 - 130	4	20
Trichlorofluoromethane	25.0	27.0		ug/L		108	70 - 130	2	20
Vinyl chloride	25.0	23.6		ug/L		95	70 - 130	6	20
Dibromomethane	25.0	24.8		ug/L		99	70 - 130	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*98*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 130*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 480-47908-1 MS
Matrix: Water
Analysis Batch: 146170

Client Sample ID: MW-261S-20131012-01
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	ND		500	499		ug/L		100	70 - 130
1,1,1-Trichloroethane	ND		500	500		ug/L		100	70 - 130
1,1,2,2-Tetrachloroethane	ND		500	490		ug/L		98	70 - 130
1,1,2-Trichloroethane	ND		500	491		ug/L		98	70 - 130
1,1-Dichloroethane	ND		500	497		ug/L		99	70 - 130
1,1-Dichloroethene	ND		500	461		ug/L		92	70 - 130
1,1-Dichloropropene	ND		500	509		ug/L		102	70 - 130
1,2,3-Trichlorobenzene	ND		500	525		ug/L		105	70 - 130
1,2,3-Trichloropropane	ND		500	500		ug/L		100	70 - 130
1,2,4-Trichlorobenzene	ND		500	523		ug/L		105	70 - 130
1,2,4-Trimethylbenzene	ND		500	491		ug/L		98	70 - 130
1,2-Dibromo-3-Chloropropane	ND		500	525		ug/L		105	70 - 130
1,2-Dichlorobenzene	ND		500	478		ug/L		96	70 - 130
1,2-Dichloroethane	ND		500	501		ug/L		100	70 - 130
1,2-Dichloropropane	ND		500	506		ug/L		101	70 - 130
1,3,5-Trimethylbenzene	ND		500	480		ug/L		96	70 - 130
1,3-Dichlorobenzene	ND		500	486		ug/L		97	70 - 130
1,3-Dichloropropane	ND		500	486		ug/L		97	70 - 130
1,4-Dichlorobenzene	ND		500	480		ug/L		96	70 - 130
1,4-Dioxane	ND		20000	15800		ug/L		79	70 - 130
2,2-Dichloropropane	ND		500	386		ug/L		77	70 - 130
2-Butanone (MEK)	ND		2500	3590	F	ug/L		138	70 - 130
2-Chlorotoluene	ND		500	471		ug/L		94	70 - 130
2-Hexanone	ND		2500	2500		ug/L		100	70 - 130
4-Chlorotoluene	ND		500	479		ug/L		96	70 - 130
4-Isopropyltoluene	ND		500	478		ug/L		96	70 - 130
4-Methyl-2-pentanone (MIBK)	ND		2500	2510		ug/L		101	70 - 130
Acetone	6600		2500	7780	F	ug/L		47	70 - 130
Benzene	ND		500	501		ug/L		100	70 - 130
Bromobenzene	ND		500	486		ug/L		97	70 - 130
Bromoform	ND		500	391		ug/L		78	70 - 130
Bromomethane	ND		500	555		ug/L		111	70 - 130
Carbon disulfide	ND		500	476		ug/L		95	70 - 130
Carbon tetrachloride	ND		500	459		ug/L		92	70 - 130
Chlorobenzene	ND		500	492		ug/L		98	70 - 130
Chlorobromomethane	ND		500	512		ug/L		102	70 - 130
Chlorodibromomethane	ND		500	434		ug/L		87	70 - 130
Chloroethane	ND		500	554		ug/L		111	70 - 130
Chloroform	ND		500	501		ug/L		100	70 - 130
Chloromethane	ND		500	444		ug/L		89	70 - 130
cis-1,2-Dichloroethene	ND		500	498		ug/L		100	70 - 130
cis-1,3-Dichloropropene	ND		500	466		ug/L		93	70 - 130
Dichlorobromomethane	ND		500	487		ug/L		97	70 - 130
Dichlorodifluoromethane	ND		1000	1100		ug/L		110	70 - 130
Ethyl ether	ND		500	506		ug/L		101	70 - 130
Ethylbenzene	ND		500	491		ug/L		98	70 - 130
Ethylene Dibromide	ND		500	498		ug/L		100	70 - 130
Hexachlorobutadiene	ND		500	509		ug/L		102	70 - 130

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 480-47908-1 MS — **Client Sample ID: MW-261S-20131012-01**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 146170

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Isopropyl ether	ND		500	505		ug/L		101	70 - 130
Isopropylbenzene	ND		500	479		ug/L		96	70 - 130
Methyl tert-butyl ether	ND		500	512		ug/L		102	70 - 130
Methylene Chloride	ND		500	505		ug/L		101	70 - 130
m-Xylene & p-Xylene	ND		1000	989		ug/L		99	70 - 130
Naphthalene	ND		500	521		ug/L		104	70 - 130
n-Butylbenzene	ND		500	477		ug/L		95	70 - 130
N-Propylbenzene	ND		500	462		ug/L		92	70 - 130
o-Xylene	ND		500	485		ug/L		97	70 - 130
sec-Butylbenzene	ND		500	487		ug/L		97	70 - 130
Styrene	ND		500	488		ug/L		98	70 - 130
Tert-amyl methyl ether	ND		500	490		ug/L		98	70 - 130
Tert-butyl ethyl ether	ND		500	500		ug/L		100	70 - 130
tert-Butylbenzene	ND		500	499		ug/L		100	70 - 130
Tetrachloroethene	ND		500	533		ug/L		107	70 - 130
Tetrahydrofuran	ND		2500	2460		ug/L		97	70 - 130
Toluene	20		500	508		ug/L		98	70 - 130
trans-1,2-Dichloroethene	ND		500	504		ug/L		101	70 - 130
trans-1,3-Dichloropropene	ND		500	455		ug/L		91	70 - 130
Trichloroethene	ND		500	514		ug/L		103	70 - 130
Trichlorofluoromethane	ND		500	534		ug/L		107	70 - 130
Vinyl chloride	ND		500	491		ug/L		98	70 - 130
Dibromomethane	ND		500	515		ug/L		103	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Toluene-d8 (Surr)	*99*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*

Lab Sample ID: 480-47908-1 MSD — **Client Sample ID: MW-261S-20131012-01**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 146170

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	ND		500	509		ug/L		102	70 - 130	2	20
1,1,1-Trichloroethane	ND		500	475		ug/L		95	70 - 130	5	20
1,1,2,2-Tetrachloroethane	ND		500	468		ug/L		94	70 - 130	5	20
1,1,2-Trichloroethane	ND		500	492		ug/L		98	70 - 130	0	20
1,1-Dichloroethane	ND		500	482		ug/L		96	70 - 130	3	20
1,1-Dichloroethene	ND		500	457		ug/L		91	70 - 130	1	20
1,1-Dichloropropene	ND		500	482		ug/L		96	70 - 130	5	20
1,2,3-Trichlorobenzene	ND		500	501		ug/L		100	70 - 130	5	20
1,2,3-Trichloropropane	ND		500	472		ug/L		94	70 - 130	6	20
1,2,4-Trichlorobenzene	ND		500	503		ug/L		101	70 - 130	4	20
1,2,4-Trimethylbenzene	ND		500	468		ug/L		94	70 - 130	5	20
1,2-Dibromo-3-Chloropropane	ND		500	520		ug/L		104	70 - 130	1	20
1,2-Dichlorobenzene	ND		500	475		ug/L		95	70 - 130	1	20
1,2-Dichloroethane	ND		500	497		ug/L		99	70 - 130	1	20

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 480-47908-1 MSD
Matrix: Water
Analysis Batch: 146170

Client Sample ID: MW-261S-20131012-01
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Dichloropropane	ND		500	476		ug/L		95	70 - 130	6	20
1,3,5-Trimethylbenzene	ND		500	468		ug/L		94	70 - 130	2	20
1,3-Dichlorobenzene	ND		500	473		ug/L		95	70 - 130	3	20
1,3-Dichloropropane	ND		500	471		ug/L		94	70 - 130	3	20
1,4-Dichlorobenzene	ND		500	482		ug/L		96	70 - 130	0	20
1,4-Dioxane	ND		20000	16900		ug/L		84	70 - 130	7	20
2,2-Dichloropropane	ND		500	355		ug/L		71	70 - 130	8	20
2-Butanone (MEK)	ND		2500	3550	F	ug/L		137	70 - 130	1	20
2-Chlorotoluene	ND		500	462		ug/L		92	70 - 130	2	20
2-Hexanone	ND		2500	2550		ug/L		102	70 - 130	2	20
4-Chlorotoluene	ND		500	464		ug/L		93	70 - 130	3	20
4-Isopropyltoluene	ND		500	461		ug/L		92	70 - 130	4	20
4-Methyl-2-pentanone (MIBK)	ND		2500	2510		ug/L		100	70 - 130	0	20
Acetone	6600		2500	7890	F	ug/L		51	70 - 130	1	20
Benzene	ND		500	487		ug/L		97	70 - 130	3	20
Bromobenzene	ND		500	484		ug/L		97	70 - 130	0	20
Bromoform	ND		500	389		ug/L		78	70 - 130	0	20
Bromomethane	ND		500	523		ug/L		105	70 - 130	6	20
Carbon disulfide	ND		500	452		ug/L		90	70 - 130	5	20
Carbon tetrachloride	ND		500	449		ug/L		90	70 - 130	2	20
Chlorobenzene	ND		500	483		ug/L		97	70 - 130	2	20
Chlorobromomethane	ND		500	505		ug/L		101	70 - 130	1	20
Chlorodibromomethane	ND		500	446		ug/L		89	70 - 130	3	20
Chloroethane	ND		500	509		ug/L		102	70 - 130	8	20
Chloroform	ND		500	489		ug/L		98	70 - 130	2	20
Chloromethane	ND		500	424		ug/L		85	70 - 130	5	20
cis-1,2-Dichloroethene	ND		500	473		ug/L		95	70 - 130	5	20
cis-1,3-Dichloropropene	ND		500	459		ug/L		92	70 - 130	2	20
Dichlorobromomethane	ND		500	468		ug/L		94	70 - 130	4	20
Dichlorodifluoromethane	ND		1000	1040		ug/L		104	70 - 130	6	20
Ethyl ether	ND		500	467		ug/L		93	70 - 130	8	20
Ethylbenzene	ND		500	475		ug/L		95	70 - 130	3	20
Ethylene Dibromide	ND		500	485		ug/L		97	70 - 130	3	20
Hexachlorobutadiene	ND		500	497		ug/L		99	70 - 130	2	20
Isopropyl ether	ND		500	489		ug/L		98	70 - 130	3	20
Isopropylbenzene	ND		500	455		ug/L		91	70 - 130	5	20
Methyl tert-butyl ether	ND		500	502		ug/L		100	70 - 130	2	20
Methylene Chloride	ND		500	501		ug/L		100	70 - 130	1	20
m-Xylene & p-Xylene	ND		1000	972		ug/L		97	70 - 130	2	20
Naphthalene	ND		500	524		ug/L		105	70 - 130	0	20
n-Butylbenzene	ND		500	466		ug/L		93	70 - 130	2	20
N-Propylbenzene	ND		500	446		ug/L		89	70 - 130	4	20
o-Xylene	ND		500	476		ug/L		95	70 - 130	2	20
sec-Butylbenzene	ND		500	470		ug/L		94	70 - 130	4	20
Styrene	ND		500	488		ug/L		98	70 - 130	0	20
Tert-amyl methyl ether	ND		500	489		ug/L		98	70 - 130	0	20
Tert-butyl ethyl ether	ND		500	489		ug/L		98	70 - 130	2	20
tert-Butylbenzene	ND		500	472		ug/L		94	70 - 130	6	20

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 480-47908-1 MSD
Matrix: Water
Analysis Batch: 146170

Client Sample ID: MW-261S-20131012-01
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Tetrachloroethene	ND		500	516		ug/L		103	70 - 130	3	20
Tetrahydrofuran	ND		2500	2450		ug/L		96	70 - 130	0	20
Toluene	20		500	482		ug/L		92	70 - 130	5	20
trans-1,2-Dichloroethene	ND		500	484		ug/L		97	70 - 130	4	20
trans-1,3-Dichloropropene	ND		500	445		ug/L		89	70 - 130	2	20
Trichloroethene	ND		500	504		ug/L		101	70 - 130	2	20
Trichlorofluoromethane	ND		500	514		ug/L		103	70 - 130	4	20
Vinyl chloride	ND		500	468		ug/L		94	70 - 130	5	20
Dibromomethane	ND		500	489		ug/L		98	70 - 130	5	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*99*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 130*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*

Lab Sample ID: MB 480-146187/8
Matrix: Water
Analysis Batch: 146187

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			10/20/13 14:48	1
1,1,1-Trichloroethane	ND		1.0		ug/L			10/20/13 14:48	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			10/20/13 14:48	1
1,1,2-Trichloroethane	ND		1.0		ug/L			10/20/13 14:48	1
1,1-Dichloroethane	ND		1.0		ug/L			10/20/13 14:48	1
1,1-Dichloroethene	ND		1.0		ug/L			10/20/13 14:48	1
1,1-Dichloropropene	ND		1.0		ug/L			10/20/13 14:48	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			10/20/13 14:48	1
1,2,3-Trichloropropane	ND		1.0		ug/L			10/20/13 14:48	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			10/20/13 14:48	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			10/20/13 14:48	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			10/20/13 14:48	1
1,2-Dichlorobenzene	ND		1.0		ug/L			10/20/13 14:48	1
1,2-Dichloroethane	ND		1.0		ug/L			10/20/13 14:48	1
1,2-Dichloropropane	ND		1.0		ug/L			10/20/13 14:48	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			10/20/13 14:48	1
1,3-Dichlorobenzene	ND		1.0		ug/L			10/20/13 14:48	1
1,3-Dichloropropane	ND		1.0		ug/L			10/20/13 14:48	1
1,4-Dichlorobenzene	ND		1.0		ug/L			10/20/13 14:48	1
1,4-Dioxane	ND		50		ug/L			10/20/13 14:48	1
2,2-Dichloropropane	ND		1.0		ug/L			10/20/13 14:48	1
2-Butanone (MEK)	ND		10		ug/L			10/20/13 14:48	1
2-Chlorotoluene	ND		1.0		ug/L			10/20/13 14:48	1
2-Hexanone	ND		10		ug/L			10/20/13 14:48	1
4-Chlorotoluene	ND		1.0		ug/L			10/20/13 14:48	1
4-Isopropyltoluene	ND		1.0		ug/L			10/20/13 14:48	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			10/20/13 14:48	1
Acetone	ND		50		ug/L			10/20/13 14:48	1

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-146187/8
Matrix: Water
Analysis Batch: 146187

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0		ug/L			10/20/13 14:48	1
Bromobenzene	ND		1.0		ug/L			10/20/13 14:48	1
Bromoform	ND		1.0		ug/L			10/20/13 14:48	1
Bromomethane	ND		2.0		ug/L			10/20/13 14:48	1
Carbon disulfide	ND		10		ug/L			10/20/13 14:48	1
Carbon tetrachloride	ND		1.0		ug/L			10/20/13 14:48	1
Chlorobenzene	ND		1.0		ug/L			10/20/13 14:48	1
Chlorobromomethane	ND		1.0		ug/L			10/20/13 14:48	1
Chlorodibromomethane	ND		0.50		ug/L			10/20/13 14:48	1
Chloroethane	ND		2.0		ug/L			10/20/13 14:48	1
Chloroform	ND		1.0		ug/L			10/20/13 14:48	1
Chloromethane	ND		2.0		ug/L			10/20/13 14:48	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			10/20/13 14:48	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			10/20/13 14:48	1
Dichlorobromomethane	ND		0.50		ug/L			10/20/13 14:48	1
Dichlorodifluoromethane	ND		1.0		ug/L			10/20/13 14:48	1
Ethyl ether	ND		1.0		ug/L			10/20/13 14:48	1
Ethylbenzene	ND		1.0		ug/L			10/20/13 14:48	1
Ethylene Dibromide	ND		1.0		ug/L			10/20/13 14:48	1
Hexachlorobutadiene	ND		0.40		ug/L			10/20/13 14:48	1
Isopropyl ether	ND		10		ug/L			10/20/13 14:48	1
Isopropylbenzene	ND		1.0		ug/L			10/20/13 14:48	1
Methyl tert-butyl ether	ND		1.0		ug/L			10/20/13 14:48	1
Methylene Chloride	ND		1.0		ug/L			10/20/13 14:48	1
m-Xylene & p-Xylene	ND		2.0		ug/L			10/20/13 14:48	1
Naphthalene	ND		5.0		ug/L			10/20/13 14:48	1
n-Butylbenzene	ND		1.0		ug/L			10/20/13 14:48	1
N-Propylbenzene	ND		1.0		ug/L			10/20/13 14:48	1
o-Xylene	ND		1.0		ug/L			10/20/13 14:48	1
sec-Butylbenzene	ND		1.0		ug/L			10/20/13 14:48	1
Styrene	ND		1.0		ug/L			10/20/13 14:48	1
Tert-amyl methyl ether	ND		5.0		ug/L			10/20/13 14:48	1
Tert-butyl ethyl ether	ND		5.0		ug/L			10/20/13 14:48	1
tert-Butylbenzene	ND		1.0		ug/L			10/20/13 14:48	1
Tetrachloroethene	ND		1.0		ug/L			10/20/13 14:48	1
Tetrahydrofuran	ND		10		ug/L			10/20/13 14:48	1
Toluene	ND		1.0		ug/L			10/20/13 14:48	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			10/20/13 14:48	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			10/20/13 14:48	1
Trichloroethene	ND		1.0		ug/L			10/20/13 14:48	1
Trichlorofluoromethane	ND		1.0		ug/L			10/20/13 14:48	1
Vinyl chloride	ND		1.0		ug/L			10/20/13 14:48	1
Dibromomethane	ND		1.0		ug/L			10/20/13 14:48	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*96*		*70 - 130*		*10/20/13 14:48*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 130*		*10/20/13 14:48*	*1*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*		*10/20/13 14:48*	*1*

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-146187/5
Matrix: Water
Analysis Batch: 146187

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	25.0	26.2		ug/L		105	70 - 130
1,1,1-Trichloroethane	25.0	24.9		ug/L		99	70 - 130
1,1,2,2-Tetrachloroethane	25.0	23.3		ug/L		93	70 - 130
1,1,2-Trichloroethane	25.0	23.8		ug/L		95	70 - 130
1,1-Dichloroethane	25.0	24.2		ug/L		97	70 - 130
1,1-Dichloroethene	25.0	22.0		ug/L		88	70 - 130
1,1-Dichloropropene	25.0	24.6		ug/L		98	70 - 130
1,2,3-Trichlorobenzene	25.0	25.3		ug/L		101	70 - 130
1,2,3-Trichloropropane	25.0	23.2		ug/L		93	70 - 130
1,2,4-Trichlorobenzene	25.0	24.9		ug/L		100	70 - 130
1,2,4-Trimethylbenzene	25.0	23.9		ug/L		96	70 - 130
1,2-Dibromo-3-Chloropropane	25.0	25.5		ug/L		102	70 - 130
1,2-Dichlorobenzene	25.0	23.5		ug/L		94	70 - 130
1,2-Dichloroethane	25.0	24.4		ug/L		98	70 - 130
1,2-Dichloropropane	25.0	24.0		ug/L		96	70 - 130
1,3,5-Trimethylbenzene	25.0	24.0		ug/L		96	70 - 130
1,3-Dichlorobenzene	25.0	23.4		ug/L		94	70 - 130
1,3-Dichloropropane	25.0	23.7		ug/L		95	70 - 130
1,4-Dichlorobenzene	25.0	23.8		ug/L		95	70 - 130
1,4-Dioxane	1000	849		ug/L		85	70 - 130
2,2-Dichloropropane	25.0	24.7		ug/L		99	70 - 130
2-Butanone (MEK)	125	167	*	ug/L		134	70 - 130
2-Chlorotoluene	25.0	24.1		ug/L		96	70 - 130
2-Hexanone	125	121		ug/L		97	70 - 130
4-Chlorotoluene	25.0	23.8		ug/L		95	70 - 130
4-Isopropyltoluene	25.0	23.9		ug/L		96	70 - 130
4-Methyl-2-pentanone (MIBK)	125	119		ug/L		95	70 - 130
Acetone	125	122		ug/L		97	70 - 130
Benzene	25.0	24.3		ug/L		97	70 - 130
Bromobenzene	25.0	24.0		ug/L		96	70 - 130
Bromoform	25.0	24.5		ug/L		98	70 - 130
Bromomethane	25.0	26.8		ug/L		107	70 - 130
Carbon disulfide	25.0	24.7		ug/L		99	70 - 130
Carbon tetrachloride	25.0	25.1		ug/L		100	70 - 130
Chlorobenzene	25.0	24.6		ug/L		98	70 - 130
Chlorobromomethane	25.0	24.5		ug/L		98	70 - 130
Chlorodibromomethane	25.0	25.2		ug/L		101	70 - 130
Chloroethane	25.0	25.8		ug/L		103	70 - 130
Chloroform	25.0	24.6		ug/L		98	70 - 130
Chloromethane	25.0	21.1		ug/L		84	70 - 130
cis-1,2-Dichloroethene	25.0	24.0		ug/L		96	70 - 130
cis-1,3-Dichloropropene	25.0	24.6		ug/L		98	70 - 130
Dichlorobromomethane	25.0	25.2		ug/L		101	70 - 130
Dichlorodifluoromethane	50.0	50.3		ug/L		101	70 - 130
Ethyl ether	25.0	24.3		ug/L		97	70 - 130
Ethylbenzene	25.0	23.9		ug/L		95	70 - 130
Ethylene Dibromide	25.0	24.5		ug/L		98	70 - 130
Hexachlorobutadiene	25.0	26.5		ug/L		106	70 - 130

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-146187/5
Matrix: Water
Analysis Batch: 146187

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Isopropyl ether	25.0	25.1		ug/L		100	70 - 130
Isopropylbenzene	25.0	24.0		ug/L		96	70 - 130
Methyl tert-butyl ether	25.0	24.8		ug/L		99	70 - 130
Methylene Chloride	25.0	24.5		ug/L		98	70 - 130
m-Xylene & p-Xylene	50.0	48.7		ug/L		97	70 - 130
Naphthalene	25.0	25.5		ug/L		102	70 - 130
n-Butylbenzene	25.0	24.4		ug/L		98	70 - 130
N-Propylbenzene	25.0	23.3		ug/L		93	70 - 130
o-Xylene	25.0	24.5		ug/L		98	70 - 130
sec-Butylbenzene	25.0	24.4		ug/L		98	70 - 130
Styrene	25.0	24.2		ug/L		97	70 - 130
Tert-amyl methyl ether	25.0	24.3		ug/L		97	70 - 130
Tert-butyl ethyl ether	25.0	24.4		ug/L		98	70 - 130
tert-Butylbenzene	25.0	24.4		ug/L		98	70 - 130
Tetrachloroethene	25.0	27.1		ug/L		108	70 - 130
Tetrahydrofuran	125	116		ug/L		93	70 - 130
Toluene	25.0	24.1		ug/L		96	70 - 130
trans-1,2-Dichloroethene	25.0	24.8		ug/L		99	70 - 130
trans-1,3-Dichloropropene	25.0	24.9		ug/L		99	70 - 130
Trichloroethene	25.0	25.5		ug/L		102	70 - 130
Trichlorofluoromethane	25.0	26.8		ug/L		107	70 - 130
Vinyl chloride	25.0	23.9		ug/L		96	70 - 130
Dibromomethane	25.0	25.2		ug/L		101	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*100*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 130*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*

Lab Sample ID: LCSD 480-146187/6
Matrix: Water
Analysis Batch: 146187

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	25.0	25.3		ug/L		101	70 - 130	3	20
1,1,1-Trichloroethane	25.0	23.4		ug/L		94	70 - 130	6	20
1,1,2,2-Tetrachloroethane	25.0	23.7		ug/L		95	70 - 130	2	20
1,1,2-Trichloroethane	25.0	23.4		ug/L		94	70 - 130	2	20
1,1-Dichloroethane	25.0	23.7		ug/L		95	70 - 130	2	20
1,1-Dichloroethene	25.0	21.4		ug/L		86	70 - 130	3	20
1,1-Dichloropropene	25.0	24.2		ug/L		97	70 - 130	2	20
1,2,3-Trichlorobenzene	25.0	25.3		ug/L		101	70 - 130	0	20
1,2,3-Trichloropropane	25.0	23.3		ug/L		93	70 - 130	0	20
1,2,4-Trichlorobenzene	25.0	25.0		ug/L		100	70 - 130	0	20
1,2,4-Trimethylbenzene	25.0	23.1		ug/L		93	70 - 130	3	20
1,2-Dibromo-3-Chloropropane	25.0	25.6		ug/L		103	70 - 130	1	20
1,2-Dichlorobenzene	25.0	23.2		ug/L		93	70 - 130	1	20
1,2-Dichloroethane	25.0	23.4		ug/L		93	70 - 130	5	20

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 480-146187/6
Matrix: Water
Analysis Batch: 146187

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Dichloropropane	25.0	23.2		ug/L		93	70 - 130	3	20
1,3,5-Trimethylbenzene	25.0	23.4		ug/L		94	70 - 130	3	20
1,3-Dichlorobenzene	25.0	24.0		ug/L		96	70 - 130	3	20
1,3-Dichloropropane	25.0	23.4		ug/L		93	70 - 130	2	20
1,4-Dichlorobenzene	25.0	24.1		ug/L		96	70 - 130	1	20
1,4-Dioxane	1000	853		ug/L		85	70 - 130	1	20
2,2-Dichloropropane	25.0	21.8		ug/L		87	70 - 130	13	20
2-Butanone (MEK)	125	163	*	ug/L		131	70 - 130	3	20
2-Chlorotoluene	25.0	23.8		ug/L		95	70 - 130	1	20
2-Hexanone	125	119		ug/L		95	70 - 130	2	20
4-Chlorotoluene	25.0	23.0		ug/L		92	70 - 130	3	20
4-Isopropyltoluene	25.0	23.7		ug/L		95	70 - 130	1	20
4-Methyl-2-pentanone (MIBK)	125	118		ug/L		94	70 - 130	1	20
Acetone	125	121		ug/L		97	70 - 130	0	20
Benzene	25.0	23.0		ug/L		92	70 - 130	5	20
Bromobenzene	25.0	24.1		ug/L		96	70 - 130	0	20
Bromoform	25.0	24.2		ug/L		97	70 - 130	1	20
Bromomethane	25.0	24.2		ug/L		97	70 - 130	10	20
Carbon disulfide	25.0	23.9		ug/L		96	70 - 130	3	20
Carbon tetrachloride	25.0	23.6		ug/L		95	70 - 130	6	20
Chlorobenzene	25.0	24.0		ug/L		96	70 - 130	2	20
Chlorobromomethane	25.0	24.4		ug/L		98	70 - 130	0	20
Chlorodibromomethane	25.0	24.6		ug/L		98	70 - 130	2	20
Chloroethane	25.0	24.4		ug/L		98	70 - 130	6	20
Chloroform	25.0	23.9		ug/L		96	70 - 130	3	20
Chloromethane	25.0	21.5		ug/L		86	70 - 130	2	20
cis-1,2-Dichloroethene	25.0	23.5		ug/L		94	70 - 130	2	20
cis-1,3-Dichloropropene	25.0	24.1		ug/L		97	70 - 130	2	20
Dichlorobromomethane	25.0	24.4		ug/L		98	70 - 130	3	20
Dichlorodifluoromethane	50.0	47.3		ug/L		95	70 - 130	6	20
Ethyl ether	25.0	23.8		ug/L		95	70 - 130	2	20
Ethylbenzene	25.0	23.1		ug/L		92	70 - 130	3	20
Ethylene Dibromide	25.0	24.0		ug/L		96	70 - 130	2	20
Hexachlorobutadiene	25.0	26.4		ug/L		106	70 - 130	0	20
Isopropyl ether	25.0	24.4		ug/L		98	70 - 130	3	20
Isopropylbenzene	25.0	23.4		ug/L		93	70 - 130	3	20
Methyl tert-butyl ether	25.0	24.3		ug/L		97	70 - 130	2	20
Methylene Chloride	25.0	24.2		ug/L		97	70 - 130	1	20
m-Xylene & p-Xylene	50.0	47.0		ug/L		94	70 - 130	4	20
Naphthalene	25.0	25.7		ug/L		103	70 - 130	1	20
n-Butylbenzene	25.0	23.6		ug/L		95	70 - 130	3	20
N-Propylbenzene	25.0	22.7		ug/L		91	70 - 130	3	20
o-Xylene	25.0	23.7		ug/L		95	70 - 130	4	20
sec-Butylbenzene	25.0	23.8		ug/L		95	70 - 130	2	20
Styrene	25.0	23.8		ug/L		95	70 - 130	2	20
Tert-amyl methyl ether	25.0	24.2		ug/L		97	70 - 130	0	20
Tert-butyl ethyl ether	25.0	24.5		ug/L		98	70 - 130	1	20
tert-Butylbenzene	25.0	23.8		ug/L		95	70 - 130	3	20

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 480-146187/6
Matrix: Water
Analysis Batch: 146187

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Tetrachloroethene	25.0	26.5		ug/L		106	70 - 130	2	20
Tetrahydrofuran	125	114		ug/L		91	70 - 130	2	20
Toluene	25.0	23.1		ug/L		92	70 - 130	4	20
trans-1,2-Dichloroethene	25.0	23.3		ug/L		93	70 - 130	6	20
trans-1,3-Dichloropropene	25.0	23.8		ug/L		95	70 - 130	4	20
Trichloroethene	25.0	24.3		ug/L		97	70 - 130	5	20
Trichlorofluoromethane	25.0	25.1		ug/L		100	70 - 130	6	20
Vinyl chloride	25.0	22.5		ug/L		90	70 - 130	6	20
Dibromomethane	25.0	24.3		ug/L		97	70 - 130	4	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*101*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 130*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*

Lab Sample ID: MB 480-146250/8
Matrix: Water
Analysis Batch: 146250

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			10/21/13 11:54	1
1,1,1-Trichloroethane	ND		1.0		ug/L			10/21/13 11:54	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			10/21/13 11:54	1
1,1,2-Trichloroethane	ND		1.0		ug/L			10/21/13 11:54	1
1,1-Dichloroethane	ND		1.0		ug/L			10/21/13 11:54	1
1,1-Dichloroethene	ND		1.0		ug/L			10/21/13 11:54	1
1,1-Dichloropropene	ND		1.0		ug/L			10/21/13 11:54	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			10/21/13 11:54	1
1,2,3-Trichloropropane	ND		1.0		ug/L			10/21/13 11:54	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			10/21/13 11:54	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			10/21/13 11:54	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			10/21/13 11:54	1
1,2-Dichlorobenzene	ND		1.0		ug/L			10/21/13 11:54	1
1,2-Dichloroethane	ND		1.0		ug/L			10/21/13 11:54	1
1,2-Dichloropropane	ND		1.0		ug/L			10/21/13 11:54	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			10/21/13 11:54	1
1,3-Dichlorobenzene	ND		1.0		ug/L			10/21/13 11:54	1
1,3-Dichloropropane	ND		1.0		ug/L			10/21/13 11:54	1
1,4-Dichlorobenzene	ND		1.0		ug/L			10/21/13 11:54	1
1,4-Dioxane	ND		50		ug/L			10/21/13 11:54	1
2,2-Dichloropropane	ND		1.0		ug/L			10/21/13 11:54	1
2-Butanone (MEK)	ND		10		ug/L			10/21/13 11:54	1
2-Chlorotoluene	ND		1.0		ug/L			10/21/13 11:54	1
2-Hexanone	ND		10		ug/L			10/21/13 11:54	1
4-Chlorotoluene	ND		1.0		ug/L			10/21/13 11:54	1
4-Isopropyltoluene	ND		1.0		ug/L			10/21/13 11:54	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			10/21/13 11:54	1
Acetone	ND		50		ug/L			10/21/13 11:54	1

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-146250/8
Matrix: Water
Analysis Batch: 146250

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0		ug/L			10/21/13 11:54	1
Bromobenzene	ND		1.0		ug/L			10/21/13 11:54	1
Bromoform	ND		1.0		ug/L			10/21/13 11:54	1
Bromomethane	ND		2.0		ug/L			10/21/13 11:54	1
Carbon disulfide	ND		10		ug/L			10/21/13 11:54	1
Carbon tetrachloride	ND		1.0		ug/L			10/21/13 11:54	1
Chlorobenzene	ND		1.0		ug/L			10/21/13 11:54	1
Chlorobromomethane	ND		1.0		ug/L			10/21/13 11:54	1
Chlorodibromomethane	ND		0.50		ug/L			10/21/13 11:54	1
Chloroethane	ND		2.0		ug/L			10/21/13 11:54	1
Chloroform	ND		1.0		ug/L			10/21/13 11:54	1
Chloromethane	ND		2.0		ug/L			10/21/13 11:54	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			10/21/13 11:54	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			10/21/13 11:54	1
Dichlorobromomethane	ND		0.50		ug/L			10/21/13 11:54	1
Dichlorodifluoromethane	ND		1.0		ug/L			10/21/13 11:54	1
Ethyl ether	ND		1.0		ug/L			10/21/13 11:54	1
Ethylbenzene	ND		1.0		ug/L			10/21/13 11:54	1
Ethylene Dibromide	ND		1.0		ug/L			10/21/13 11:54	1
Hexachlorobutadiene	ND		0.40		ug/L			10/21/13 11:54	1
Isopropyl ether	ND		10		ug/L			10/21/13 11:54	1
Isopropylbenzene	ND		1.0		ug/L			10/21/13 11:54	1
Methyl tert-butyl ether	ND		1.0		ug/L			10/21/13 11:54	1
Methylene Chloride	ND		1.0		ug/L			10/21/13 11:54	1
m-Xylene & p-Xylene	ND		2.0		ug/L			10/21/13 11:54	1
Naphthalene	ND		5.0		ug/L			10/21/13 11:54	1
n-Butylbenzene	ND		1.0		ug/L			10/21/13 11:54	1
N-Propylbenzene	ND		1.0		ug/L			10/21/13 11:54	1
o-Xylene	ND		1.0		ug/L			10/21/13 11:54	1
sec-Butylbenzene	ND		1.0		ug/L			10/21/13 11:54	1
Styrene	ND		1.0		ug/L			10/21/13 11:54	1
Tert-amyl methyl ether	ND		5.0		ug/L			10/21/13 11:54	1
Tert-butyl ethyl ether	ND		5.0		ug/L			10/21/13 11:54	1
tert-Butylbenzene	ND		1.0		ug/L			10/21/13 11:54	1
Tetrachloroethene	ND		1.0		ug/L			10/21/13 11:54	1
Tetrahydrofuran	ND		10		ug/L			10/21/13 11:54	1
Toluene	ND		1.0		ug/L			10/21/13 11:54	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			10/21/13 11:54	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			10/21/13 11:54	1
Trichloroethene	ND		1.0		ug/L			10/21/13 11:54	1
Trichlorofluoromethane	ND		1.0		ug/L			10/21/13 11:54	1
Vinyl chloride	ND		1.0		ug/L			10/21/13 11:54	1
Dibromomethane	ND		1.0		ug/L			10/21/13 11:54	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*97*		*70 - 130*		*10/21/13 11:54*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 130*		*10/21/13 11:54*	*1*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*		*10/21/13 11:54*	*1*

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-146250/5
Matrix: Water
Analysis Batch: 146250

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	25.0	27.5		ug/L		110	70 - 130
1,1,1-Trichloroethane	25.0	25.0		ug/L		100	70 - 130
1,1,2,2-Tetrachloroethane	25.0	24.2		ug/L		97	70 - 130
1,1,2-Trichloroethane	25.0	24.6		ug/L		98	70 - 130
1,1-Dichloroethane	25.0	24.2		ug/L		97	70 - 130
1,1-Dichloroethene	25.0	22.6		ug/L		90	70 - 130
1,1-Dichloropropene	25.0	25.3		ug/L		101	70 - 130
1,2,3-Trichlorobenzene	25.0	25.5		ug/L		102	70 - 130
1,2,3-Trichloropropane	25.0	24.1		ug/L		97	70 - 130
1,2,4-Trichlorobenzene	25.0	25.5		ug/L		102	70 - 130
1,2,4-Trimethylbenzene	25.0	25.2		ug/L		101	70 - 130
1,2-Dibromo-3-Chloropropane	25.0	25.3		ug/L		101	70 - 130
1,2-Dichlorobenzene	25.0	24.9		ug/L		100	70 - 130
1,2-Dichloroethane	25.0	24.9		ug/L		100	70 - 130
1,2-Dichloropropane	25.0	24.1		ug/L		96	70 - 130
1,3,5-Trimethylbenzene	25.0	25.1		ug/L		100	70 - 130
1,3-Dichlorobenzene	25.0	25.4		ug/L		102	70 - 130
1,3-Dichloropropane	25.0	24.9		ug/L		99	70 - 130
1,4-Dichlorobenzene	25.0	24.9		ug/L		99	70 - 130
1,4-Dioxane	1000	833		ug/L		83	70 - 130
2,2-Dichloropropane	25.0	24.6		ug/L		99	70 - 130
2-Butanone (MEK)	125	165	*	ug/L		132	70 - 130
2-Chlorotoluene	25.0	25.6		ug/L		102	70 - 130
2-Hexanone	125	125		ug/L		100	70 - 130
4-Chlorotoluene	25.0	24.5		ug/L		98	70 - 130
4-Isopropyltoluene	25.0	25.0		ug/L		100	70 - 130
4-Methyl-2-pentanone (MIBK)	125	123		ug/L		99	70 - 130
Acetone	125	122		ug/L		98	70 - 130
Benzene	25.0	24.3		ug/L		97	70 - 130
Bromobenzene	25.0	25.0		ug/L		100	70 - 130
Bromoform	25.0	25.1		ug/L		101	70 - 130
Bromomethane	25.0	27.0		ug/L		108	70 - 130
Carbon disulfide	25.0	23.4		ug/L		94	70 - 130
Carbon tetrachloride	25.0	25.3		ug/L		101	70 - 130
Chlorobenzene	25.0	26.2		ug/L		105	70 - 130
Chlorobromomethane	25.0	25.1		ug/L		100	70 - 130
Chlorodibromomethane	25.0	26.2		ug/L		105	70 - 130
Chloroethane	25.0	25.8		ug/L		103	70 - 130
Chloroform	25.0	25.0		ug/L		100	70 - 130
Chloromethane	25.0	22.4		ug/L		90	70 - 130
cis-1,2-Dichloroethene	25.0	24.5		ug/L		98	70 - 130
cis-1,3-Dichloropropene	25.0	25.0		ug/L		100	70 - 130
Dichlorobromomethane	25.0	25.6		ug/L		102	70 - 130
Dichlorodifluoromethane	50.0	52.4		ug/L		105	70 - 130
Ethyl ether	25.0	24.3		ug/L		97	70 - 130
Ethylbenzene	25.0	25.7		ug/L		103	70 - 130
Ethylene Dibromide	25.0	25.6		ug/L		102	70 - 130
Hexachlorobutadiene	25.0	27.6		ug/L		110	70 - 130

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-146250/5
Matrix: Water
Analysis Batch: 146250

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Isopropyl ether	25.0	25.4		ug/L		101	70 - 130
Isopropylbenzene	25.0	24.7		ug/L		99	70 - 130
Methyl tert-butyl ether	25.0	24.6		ug/L		98	70 - 130
Methylene Chloride	25.0	24.6		ug/L		98	70 - 130
m-Xylene & p-Xylene	50.0	52.5		ug/L		105	70 - 130
Naphthalene	25.0	25.4		ug/L		102	70 - 130
n-Butylbenzene	25.0	25.5		ug/L		102	70 - 130
N-Propylbenzene	25.0	24.7		ug/L		99	70 - 130
o-Xylene	25.0	26.0		ug/L		104	70 - 130
sec-Butylbenzene	25.0	25.4		ug/L		102	70 - 130
Styrene	25.0	26.0		ug/L		104	70 - 130
Tert-amyl methyl ether	25.0	24.1		ug/L		97	70 - 130
Tert-butyl ethyl ether	25.0	24.3		ug/L		97	70 - 130
tert-Butylbenzene	25.0	25.0		ug/L		100	70 - 130
Tetrachloroethene	25.0	26.9		ug/L		108	70 - 130
Tetrahydrofuran	125	114		ug/L		91	70 - 130
Toluene	25.0	25.7		ug/L		103	70 - 130
trans-1,2-Dichloroethene	25.0	25.1		ug/L		101	70 - 130
trans-1,3-Dichloropropene	25.0	25.6		ug/L		103	70 - 130
Trichloroethene	25.0	25.7		ug/L		103	70 - 130
Trichlorofluoromethane	25.0	27.0		ug/L		108	70 - 130
Vinyl chloride	25.0	24.8		ug/L		99	70 - 130
Dibromomethane	25.0	25.2		ug/L		101	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*102*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*

Lab Sample ID: LCSD 480-146250/6
Matrix: Water
Analysis Batch: 146250

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	25.0	26.3		ug/L		105	70 - 130	4	20
1,1,1-Trichloroethane	25.0	24.3		ug/L		97	70 - 130	3	20
1,1,2,2-Tetrachloroethane	25.0	23.9		ug/L		96	70 - 130	1	20
1,1,2-Trichloroethane	25.0	24.2		ug/L		97	70 - 130	2	20
1,1-Dichloroethane	25.0	24.2		ug/L		97	70 - 130	0	20
1,1-Dichloroethene	25.0	23.2		ug/L		93	70 - 130	2	20
1,1-Dichloropropene	25.0	24.2		ug/L		97	70 - 130	4	20
1,2,3-Trichlorobenzene	25.0	25.1		ug/L		100	70 - 130	1	20
1,2,3-Trichloropropane	25.0	24.0		ug/L		96	70 - 130	1	20
1,2,4-Trichlorobenzene	25.0	25.1		ug/L		101	70 - 130	1	20
1,2,4-Trimethylbenzene	25.0	24.4		ug/L		97	70 - 130	3	20
1,2-Dibromo-3-Chloropropane	25.0	25.2		ug/L		101	70 - 130	0	20
1,2-Dichlorobenzene	25.0	24.1		ug/L		97	70 - 130	3	20
1,2-Dichloroethane	25.0	23.8		ug/L		95	70 - 130	4	20

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 480-146250/6
Matrix: Water
Analysis Batch: 146250

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Dichloropropane	25.0	23.4		ug/L		94	70 - 130	3	20
1,3,5-Trimethylbenzene	25.0	24.2		ug/L		97	70 - 130	4	20
1,3-Dichlorobenzene	25.0	23.9		ug/L		95	70 - 130	6	20
1,3-Dichloropropane	25.0	23.3		ug/L		93	70 - 130	7	20
1,4-Dichlorobenzene	25.0	24.5		ug/L		98	70 - 130	2	20
1,4-Dioxane	1000	901		ug/L		90	70 - 130	8	20
2,2-Dichloropropane	25.0	23.2		ug/L		93	70 - 130	6	20
2-Butanone (MEK)	125	163		ug/L		130	70 - 130	1	20
2-Chlorotoluene	25.0	24.0		ug/L		96	70 - 130	7	20
2-Hexanone	125	121		ug/L		97	70 - 130	4	20
4-Chlorotoluene	25.0	24.0		ug/L		96	70 - 130	2	20
4-Isopropyltoluene	25.0	24.3		ug/L		97	70 - 130	3	20
4-Methyl-2-pentanone (MIBK)	125	118		ug/L		94	70 - 130	5	20
Acetone	125	121		ug/L		97	70 - 130	1	20
Benzene	25.0	23.8		ug/L		95	70 - 130	2	20
Bromobenzene	25.0	24.3		ug/L		97	70 - 130	3	20
Bromoform	25.0	23.2		ug/L		93	70 - 130	8	20
Bromomethane	25.0	25.1		ug/L		100	70 - 130	7	20
Carbon disulfide	25.0	22.5		ug/L		90	70 - 130	4	20
Carbon tetrachloride	25.0	24.5		ug/L		98	70 - 130	3	20
Chlorobenzene	25.0	24.5		ug/L		98	70 - 130	7	20
Chlorobromomethane	25.0	24.6		ug/L		98	70 - 130	2	20
Chlorodibromomethane	25.0	25.1		ug/L		100	70 - 130	4	20
Chloroethane	25.0	23.9		ug/L		96	70 - 130	8	20
Chloroform	25.0	23.8		ug/L		95	70 - 130	5	20
Chloromethane	25.0	22.0		ug/L		88	70 - 130	2	20
cis-1,2-Dichloroethene	25.0	23.9		ug/L		95	70 - 130	3	20
cis-1,3-Dichloropropene	25.0	24.3		ug/L		97	70 - 130	3	20
Dichlorobromomethane	25.0	25.0		ug/L		100	70 - 130	2	20
Dichlorodifluoromethane	50.0	51.6		ug/L		103	70 - 130	2	20
Ethyl ether	25.0	23.8		ug/L		95	70 - 130	2	20
Ethylbenzene	25.0	24.2		ug/L		97	70 - 130	6	20
Ethylene Dibromide	25.0	23.5		ug/L		94	70 - 130	8	20
Hexachlorobutadiene	25.0	25.9		ug/L		104	70 - 130	6	20
Isopropyl ether	25.0	24.6		ug/L		99	70 - 130	3	20
Isopropylbenzene	25.0	24.2		ug/L		97	70 - 130	2	20
Methyl tert-butyl ether	25.0	24.6		ug/L		99	70 - 130	0	20
Methylene Chloride	25.0	24.8		ug/L		99	70 - 130	1	20
m-Xylene & p-Xylene	50.0	49.2		ug/L		98	70 - 130	7	20
Naphthalene	25.0	24.8		ug/L		99	70 - 130	2	20
n-Butylbenzene	25.0	24.4		ug/L		98	70 - 130	5	20
N-Propylbenzene	25.0	24.2		ug/L		97	70 - 130	2	20
o-Xylene	25.0	24.2		ug/L		97	70 - 130	7	20
sec-Butylbenzene	25.0	24.1		ug/L		97	70 - 130	5	20
Styrene	25.0	24.3		ug/L		97	70 - 130	7	20
Tert-amyl methyl ether	25.0	24.0		ug/L		96	70 - 130	1	20
Tert-butyl ethyl ether	25.0	24.3		ug/L		97	70 - 130	0	20
tert-Butylbenzene	25.0	24.5		ug/L		98	70 - 130	2	20

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 480-146250/6
Matrix: Water
Analysis Batch: 146250

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Tetrachloroethene			25.0	26.0		ug/L		104	70 - 130	3	20
Tetrahydrofuran			125	114		ug/L		91	70 - 130	1	20
Toluene			25.0	23.7		ug/L		95	70 - 130	8	20
trans-1,2-Dichloroethene			25.0	24.4		ug/L		98	70 - 130	3	20
trans-1,3-Dichloropropene			25.0	24.4		ug/L		98	70 - 130	5	20
Trichloroethene			25.0	24.1		ug/L		96	70 - 130	7	20
Trichlorofluoromethane			25.0	26.2		ug/L		105	70 - 130	3	20
Vinyl chloride			25.0	23.7		ug/L		95	70 - 130	5	20
Dibromomethane			25.0	24.6		ug/L		98	70 - 130	2	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*99*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 130*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*

Lab Sample ID: 480-47908-6 MS
Matrix: Water
Analysis Batch: 146250

Client Sample ID: MW-551-20131012-01
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,1,1,2-Tetrachloroethane	ND		6250	6400		ug/L		102	70 - 130		
1,1,1-Trichloroethane	ND		6250	6200		ug/L		99	70 - 130		
1,1,2,2-Tetrachloroethane	ND		6250	6200		ug/L		99	70 - 130		
1,1,2-Trichloroethane	ND		6250	6200		ug/L		99	70 - 130		
1,1-Dichloroethane	ND		6250	6340		ug/L		101	70 - 130		
1,1-Dichloroethene	ND		6250	5990		ug/L		96	70 - 130		
1,1-Dichloropropene	ND		6250	6330		ug/L		101	70 - 130		
1,2,3-Trichlorobenzene	ND		6250	6480		ug/L		104	70 - 130		
1,2,3-Trichloropropane	ND		6250	6200		ug/L		99	70 - 130		
1,2,4-Trichlorobenzene	ND		6250	6520		ug/L		104	70 - 130		
1,2,4-Trimethylbenzene	ND		6250	6280		ug/L		101	70 - 130		
1,2-Dibromo-3-Chloropropane	ND		6250	6900		ug/L		110	70 - 130		
1,2-Dichlorobenzene	ND		6250	6290		ug/L		101	70 - 130		
1,2-Dichloroethane	ND		6250	6400		ug/L		102	70 - 130		
1,2-Dichloropropane	ND		6250	6370		ug/L		102	70 - 130		
1,3,5-Trimethylbenzene	ND		6250	6280		ug/L		101	70 - 130		
1,3-Dichlorobenzene	ND		6250	6170		ug/L		99	70 - 130		
1,3-Dichloropropane	ND		6250	6040		ug/L		97	70 - 130		
1,4-Dichlorobenzene	ND		6250	6260		ug/L		100	70 - 130		
1,4-Dioxane	ND		250000	241000		ug/L		96	70 - 130		
2,2-Dichloropropane	ND		6250	4780		ug/L		77	70 - 130		
2-Butanone (MEK)	ND		31300	43600	F	ug/L		137	70 - 130		
2-Chlorotoluene	ND		6250	6150		ug/L		98	70 - 130		
2-Hexanone	ND		31300	30300		ug/L		97	70 - 130		
4-Chlorotoluene	ND		6250	6180		ug/L		99	70 - 130		
4-Isopropyltoluene	ND		6250	6280		ug/L		101	70 - 130		
4-Methyl-2-pentanone (MIBK)	ND		31300	29900		ug/L		96	70 - 130		
Acetone	100000		31300	127000	E	ug/L		85	70 - 130		

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 480-47908-6 MS
Matrix: Water
Analysis Batch: 146250

Client Sample ID: MW-551-20131012-01
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	ND		6250	6290		ug/L		101	70 - 130
Bromobenzene	ND		6250	6420		ug/L		103	70 - 130
Bromoform	ND		6250	5910		ug/L		94	70 - 130
Bromomethane	ND		6250	6790		ug/L		109	70 - 130
Carbon disulfide	ND		6250	5780		ug/L		92	70 - 130
Carbon tetrachloride	ND		6250	5830		ug/L		93	70 - 130
Chlorobenzene	ND		6250	6370		ug/L		102	70 - 130
Chlorobromomethane	ND		6250	6320		ug/L		101	70 - 130
Chlorodibromomethane	ND		6250	6180		ug/L		99	70 - 130
Chloroethane	ND		6250	6700		ug/L		107	70 - 130
Chloroform	ND		6250	6440		ug/L		103	70 - 130
Chloromethane	ND		6250	5580		ug/L		89	70 - 130
cis-1,2-Dichloroethene	ND		6250	6400		ug/L		102	70 - 130
cis-1,3-Dichloropropene	ND		6250	6190		ug/L		99	70 - 130
Dichlorobromomethane	ND		6250	6370		ug/L		102	70 - 130
Dichlorodifluoromethane	ND		12500	13700		ug/L		110	70 - 130
Ethyl ether	ND		6250	6170		ug/L		99	70 - 130
Ethylbenzene	ND		6250	6070		ug/L		97	70 - 130
Ethylene Dibromide	ND		6250	6140		ug/L		98	70 - 130
Hexachlorobutadiene	ND		6250	6650		ug/L		106	70 - 130
Isopropyl ether	ND		6250	6350		ug/L		102	70 - 130
Isopropylbenzene	ND		6250	6160		ug/L		98	70 - 130
Methyl tert-butyl ether	ND		6250	6080		ug/L		97	70 - 130
Methylene Chloride	ND		6250	6510		ug/L		104	70 - 130
m-Xylene & p-Xylene	ND		12500	12400		ug/L		99	70 - 130
Naphthalene	ND		6250	6600		ug/L		106	70 - 130
n-Butylbenzene	ND		6250	6180		ug/L		99	70 - 130
N-Propylbenzene	ND		6250	5990		ug/L		96	70 - 130
o-Xylene	ND		6250	6260		ug/L		100	70 - 130
sec-Butylbenzene	ND		6250	6260		ug/L		100	70 - 130
Styrene	ND		6250	6240		ug/L		100	70 - 130
Tert-amyl methyl ether	ND		6250	6230		ug/L		100	70 - 130
Tert-butyl ethyl ether	ND		6250	6230		ug/L		100	70 - 130
tert-Butylbenzene	ND		6250	6400		ug/L		102	70 - 130
Tetrachloroethene	ND		6250	6840		ug/L		109	70 - 130
Tetrahydrofuran	ND		31300	29100		ug/L		93	70 - 130
Toluene	ND		6250	6030		ug/L		96	70 - 130
trans-1,2-Dichloroethene	ND		6250	6470		ug/L		104	70 - 130
trans-1,3-Dichloropropene	ND		6250	5960		ug/L		95	70 - 130
Trichloroethene	ND		6250	6620		ug/L		106	70 - 130
Trichlorofluoromethane	ND		6250	6660		ug/L		107	70 - 130
Vinyl chloride	ND		6250	6320		ug/L		101	70 - 130
Dibromomethane	ND		6250	6310		ug/L		101	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Toluene-d8 (Surr)	*99*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 130*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 480-47908-6 MSD
Matrix: Water
Analysis Batch: 146250

Client Sample ID: MW-551-20131012-01
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	ND		6250	6260		ug/L		100	70 - 130	2	20
1,1,1-Trichloroethane	ND		6250	5880		ug/L		94	70 - 130	5	20
1,1,2,2-Tetrachloroethane	ND		6250	6080		ug/L		97	70 - 130	2	20
1,1,2-Trichloroethane	ND		6250	5960		ug/L		95	70 - 130	4	20
1,1-Dichloroethane	ND		6250	6080		ug/L		97	70 - 130	4	20
1,1-Dichloroethene	ND		6250	6030		ug/L		97	70 - 130	1	20
1,1-Dichloropropene	ND		6250	5850		ug/L		94	70 - 130	8	20
1,2,3-Trichlorobenzene	ND		6250	6420		ug/L		103	70 - 130	1	20
1,2,3-Trichloropropane	ND		6250	6010		ug/L		96	70 - 130	3	20
1,2,4-Trichlorobenzene	ND		6250	6330		ug/L		101	70 - 130	3	20
1,2,4-Trimethylbenzene	ND		6250	6060		ug/L		97	70 - 130	4	20
1,2-Dibromo-3-Chloropropane	ND		6250	6580		ug/L		105	70 - 130	5	20
1,2-Dichlorobenzene	ND		6250	6020		ug/L		96	70 - 130	4	20
1,2-Dichloroethane	ND		6250	6250		ug/L		100	70 - 130	2	20
1,2-Dichloropropane	ND		6250	5950		ug/L		95	70 - 130	7	20
1,3,5-Trimethylbenzene	ND		6250	5970		ug/L		95	70 - 130	5	20
1,3-Dichlorobenzene	ND		6250	6080		ug/L		97	70 - 130	1	20
1,3-Dichloropropane	ND		6250	5870		ug/L		94	70 - 130	3	20
1,4-Dichlorobenzene	ND		6250	6100		ug/L		98	70 - 130	2	20
1,4-Dioxane	ND		250000	236000		ug/L		94	70 - 130	2	20
2,2-Dichloropropane	ND		6250	4560		ug/L		73	70 - 130	5	20
2-Butanone (MEK)	ND		31300	42200	F	ug/L		132	70 - 130	3	20
2-Chlorotoluene	ND		6250	6050		ug/L		97	70 - 130	2	20
2-Hexanone	ND		31300	29900		ug/L		96	70 - 130	1	20
4-Chlorotoluene	ND		6250	5910		ug/L		95	70 - 130	4	20
4-Isopropyltoluene	ND		6250	6010		ug/L		96	70 - 130	4	20
4-Methyl-2-pentanone (MIBK)	ND		31300	28700		ug/L		92	70 - 130	4	20
Acetone	100000		31300	126000	E	ug/L		82	70 - 130	1	20
Benzene	ND		6250	6000		ug/L		96	70 - 130	5	20
Bromobenzene	ND		6250	6100		ug/L		98	70 - 130	5	20
Bromoform	ND		6250	5440		ug/L		87	70 - 130	8	20
Bromomethane	ND		6250	6460		ug/L		103	70 - 130	5	20
Carbon disulfide	ND		6250	5510		ug/L		88	70 - 130	5	20
Carbon tetrachloride	ND		6250	5590		ug/L		89	70 - 130	4	20
Chlorobenzene	ND		6250	6030		ug/L		96	70 - 130	5	20
Chlorobromomethane	ND		6250	6250		ug/L		100	70 - 130	1	20
Chlorodibromomethane	ND		6250	5950		ug/L		95	70 - 130	4	20
Chloroethane	ND		6250	6310		ug/L		101	70 - 130	6	20
Chloroform	ND		6250	6040		ug/L		97	70 - 130	6	20
Chloromethane	ND		6250	5310		ug/L		85	70 - 130	5	20
cis-1,2-Dichloroethene	ND		6250	6170		ug/L		99	70 - 130	4	20
cis-1,3-Dichloropropene	ND		6250	5930		ug/L		95	70 - 130	4	20
Dichlorobromomethane	ND		6250	6190		ug/L		99	70 - 130	3	20
Dichlorodifluoromethane	ND		12500	12800		ug/L		102	70 - 130	7	20
Ethyl ether	ND		6250	5890		ug/L		94	70 - 130	5	20
Ethylbenzene	ND		6250	5760		ug/L		92	70 - 130	5	20
Ethylene Dibromide	ND		6250	6070		ug/L		97	70 - 130	1	20
Hexachlorobutadiene	ND		6250	6190		ug/L		99	70 - 130	7	20

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 480-47908-6 MSD
Matrix: Water
Analysis Batch: 146250

Client Sample ID: MW-551-20131012-01
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Isopropyl ether	ND		6250	6140		ug/L		98	70 - 130	3	20
Isopropylbenzene	ND		6250	5860		ug/L		94	70 - 130	5	20
Methyl tert-butyl ether	ND		6250	6010		ug/L		96	70 - 130	1	20
Methylene Chloride	ND		6250	6190		ug/L		99	70 - 130	5	20
m-Xylene & p-Xylene	ND		12500	11700		ug/L		94	70 - 130	5	20
Naphthalene	ND		6250	6490		ug/L		104	70 - 130	2	20
n-Butylbenzene	ND		6250	5980		ug/L		96	70 - 130	3	20
N-Propylbenzene	ND		6250	5750		ug/L		92	70 - 130	4	20
o-Xylene	ND		6250	5870		ug/L		94	70 - 130	7	20
sec-Butylbenzene	ND		6250	5970		ug/L		96	70 - 130	5	20
Styrene	ND		6250	5990		ug/L		96	70 - 130	4	20
Tert-amyl methyl ether	ND		6250	6100		ug/L		98	70 - 130	2	20
Tert-butyl ethyl ether	ND		6250	6060		ug/L		97	70 - 130	3	20
tert-Butylbenzene	ND		6250	6030		ug/L		97	70 - 130	6	20
Tetrachloroethene	ND		6250	6450		ug/L		103	70 - 130	6	20
Tetrahydrofuran	ND		31300	29000		ug/L		93	70 - 130	0	20
Toluene	ND		6250	5850		ug/L		94	70 - 130	3	20
trans-1,2-Dichloroethene	ND		6250	6120		ug/L		98	70 - 130	6	20
trans-1,3-Dichloropropene	ND		6250	5820		ug/L		93	70 - 130	2	20
Trichloroethene	ND		6250	6230		ug/L		100	70 - 130	6	20
Trichlorofluoromethane	ND		6250	6490		ug/L		104	70 - 130	3	20
Vinyl chloride	ND		6250	5920		ug/L		95	70 - 130	7	20
Dibromomethane	ND		6250	6440		ug/L		103	70 - 130	2	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*98*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*105*		*70 - 130*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*

Method: 8260C SIM - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-145256/6
Matrix: Water
Analysis Batch: 145256

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		1.6		ug/L			10/16/13 10:26	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
TBA-d9 (Surr)	*98*		*50 - 150*		*10/16/13 10:26*	*1*
Dibromofluoromethane (Surr)	*95*		*50 - 150*		*10/16/13 10:26*	*1*

Method: 8260C SIM - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-145256/4
Matrix: Water
Analysis Batch: 145256

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,4-Dioxane			16.0	16.0		ug/L		100	50 - 150		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
TBA-d9 (Surr)	*99*		*50 - 150*
Dibromofluoromethane (Surr)	*97*		*50 - 150*

GC/MS VOA

Analysis Batch: 145256

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-47908-1	MW-261S-20131012-01	Total/NA	Water	8260C SIM	
480-47908-2	MW-265M-20131014-01	Total/NA	Water	8260C SIM	
480-47908-3	MW-267S-20131014-01	Total/NA	Water	8260C SIM	
480-47908-4	MW-267M-20131014-01	Total/NA	Water	8260C SIM	
480-47908-5	MW-268M-20131014-01	Total/NA	Water	8260C SIM	
480-47908-7	MW-552-20131012-01	Total/NA	Water	8260C SIM	
480-47908-22	DUPX1-12-20131012-01	Total/NA	Water	8260C SIM	
LCS 480-145256/4	Lab Control Sample	Total/NA	Water	8260C SIM	
MB 480-145256/6	Method Blank	Total/NA	Water	8260C SIM	

Analysis Batch: 145872

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-47908-2 - DL	MW-265M-20131014-01	Total/NA	Water	8260C	
LCS 480-145872/4	Lab Control Sample	Total/NA	Water	8260C	
LCSD 480-145872/5	Lab Control Sample Dup	Total/NA	Water	8260C	
MB 480-145872/7	Method Blank	Total/NA	Water	8260C	

Analysis Batch: 146170

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-47908-1	MW-261S-20131012-01	Total/NA	Water	8260C	
480-47908-1 MS	MW-261S-20131012-01	Total/NA	Water	8260C	
480-47908-1 MSD	MW-261S-20131012-01	Total/NA	Water	8260C	
480-47908-2	MW-265M-20131014-01	Total/NA	Water	8260C	
480-47908-3	MW-267S-20131014-01	Total/NA	Water	8260C	
480-47908-4	MW-267M-20131014-01	Total/NA	Water	8260C	
480-47908-5	MW-268M-20131014-01	Total/NA	Water	8260C	
480-47908-6	MW-551-20131012-01	Total/NA	Water	8260C	
480-47908-8	MW-553-20131012-01	Total/NA	Water	8260C	
480-47908-9	MW-560-20131014-01	Total/NA	Water	8260C	
480-47908-10	MW-561-20131014-01	Total/NA	Water	8260C	
480-47908-12	MW-563-20131014-01	Total/NA	Water	8260C	
480-47908-13	REW-1-20131012-01	Total/NA	Water	8260C	
480-47908-16	REW-6-20131013-01	Total/NA	Water	8260C	
480-47908-17	REW-7-20131013-01	Total/NA	Water	8260C	
480-47908-18	REW-8-20131013-01	Total/NA	Water	8260C	
480-47908-19	REW-9-20131013-01	Total/NA	Water	8260C	
480-47908-20	REW-10-20131013-01	Total/NA	Water	8260C	
LCS 480-146170/4	Lab Control Sample	Total/NA	Water	8260C	
LCSD 480-146170/5	Lab Control Sample Dup	Total/NA	Water	8260C	
MB 480-146170/7	Method Blank	Total/NA	Water	8260C	

Analysis Batch: 146187

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-47908-8 - DL	MW-553-20131012-01	Total/NA	Water	8260C	
480-47908-10 - DL	MW-561-20131014-01	Total/NA	Water	8260C	
480-47908-11	MW-562-20131012-01	Total/NA	Water	8260C	
480-47908-13 - DL	REW-1-20131012-01	Total/NA	Water	8260C	
480-47908-14	REW-4-20131012-01	Total/NA	Water	8260C	
480-47908-15	REW-5-20131012-01	Total/NA	Water	8260C	
480-47908-19 - DL	REW-9-20131013-01	Total/NA	Water	8260C	
480-47908-21	REW-12-20131013-01	Total/NA	Water	8260C	

GC/MS VOA (Continued)

Analysis Batch: 146187 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-47908-22	DUPX1-12-20131012-01	Total/NA	Water	8260C	
480-47908-25	Trip Blank	Total/NA	Water	8260C	
LCS 480-146187/5	Lab Control Sample	Total/NA	Water	8260C	
LCSD 480-146187/6	Lab Control Sample Dup	Total/NA	Water	8260C	
MB 480-146187/8	Method Blank	Total/NA	Water	8260C	

Analysis Batch: 146250

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-47908-6 - DL	MW-551-20131012-01	Total/NA	Water	8260C	
480-47908-6 MS	MW-551-20131012-01	Total/NA	Water	8260C	
480-47908-6 MSD	MW-551-20131012-01	Total/NA	Water	8260C	
480-47908-7	MW-552-20131012-01	Total/NA	Water	8260C	
480-47908-23	DUPX2-12-20131013-01	Total/NA	Water	8260C	
480-47908-24	DUPX3-12-20131014-01	Total/NA	Water	8260C	
LCS 480-146250/5	Lab Control Sample	Total/NA	Water	8260C	
LCSD 480-146250/6	Lab Control Sample Dup	Total/NA	Water	8260C	
MB 480-146250/8	Method Blank	Total/NA	Water	8260C	

Lab Chronicle

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-47908-1

Client Sample ID: MW-261S-20131012-01 — Lab Sample ID: 480-47908-1

Date Collected: 10/12/13 09:40 — **Matrix: Water**
Date Received: 10/15/13 07:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C SIM		40	145256	10/16/13 16:08	CDC	TAL BUF
Total/NA	Analysis	8260C		20	146170	10/20/13 00:07	RAL	TAL BUF

Client Sample ID: MW-265M-20131014-01 — Lab Sample ID: 480-47908-2

Date Collected: 10/14/13 13:25 — **Matrix: Water**
Date Received: 10/15/13 07:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C SIM		40	145256	10/16/13 16:31	CDC	TAL BUF
Total/NA	Analysis	8260C	DL	100	145872	10/18/13 18:36	RAL	TAL BUF
Total/NA	Analysis	8260C		1	146170	10/20/13 00:30	RAL	TAL BUF

Client Sample ID: MW-267S-20131014-01 — Lab Sample ID: 480-47908-3

Date Collected: 10/14/13 09:30 — **Matrix: Water**
Date Received: 10/15/13 07:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C SIM		10	145256	10/16/13 16:55	CDC	TAL BUF
Total/NA	Analysis	8260C		5	146170	10/20/13 00:54	RAL	TAL BUF

Client Sample ID: MW-267M-20131014-01 — Lab Sample ID: 480-47908-4

Date Collected: 10/14/13 10:05 — **Matrix: Water**
Date Received: 10/15/13 07:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C SIM		10	145256	10/16/13 17:19	CDC	TAL BUF
Total/NA	Analysis	8260C		8	146170	10/20/13 01:18	RAL	TAL BUF

Client Sample ID: MW-268M-20131014-01 — Lab Sample ID: 480-47908-5

Date Collected: 10/14/13 08:40 — **Matrix: Water**
Date Received: 10/15/13 07:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C SIM		1	145256	10/16/13 17:43	CDC	TAL BUF
Total/NA	Analysis	8260C		40	146170	10/20/13 01:42	RAL	TAL BUF

Lab Chronicle

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-47908-1

Client Sample ID: MW-551-20131012-01 — Lab Sample ID: 480-47908-6

Date Collected: 10/12/13 10:30 — **Matrix: Water**
Date Received: 10/15/13 07:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	146170	10/20/13 02:06	RAL	TAL BUF
Total/NA	Analysis	8260C	DL	250	146250	10/21/13 12:30	RAL	TAL BUF

Client Sample ID: MW-552-20131012-01 — Lab Sample ID: 480-47908-7

Date Collected: 10/12/13 08:55 — **Matrix: Water**
Date Received: 10/15/13 07:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C SIM		10	145256	10/16/13 18:07	CDC	TAL BUF
Total/NA	Analysis	8260C		8	146250	10/21/13 12:54	RAL	TAL BUF

Client Sample ID: MW-553-20131012-01 — Lab Sample ID: 480-47908-8

Date Collected: 10/12/13 08:15 — **Matrix: Water**
Date Received: 10/15/13 07:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	146170	10/20/13 02:53	RAL	TAL BUF
Total/NA	Analysis	8260C	DL	5	146187	10/20/13 17:32	LCH	TAL BUF

Client Sample ID: MW-560-20131014-01 — Lab Sample ID: 480-47908-9

Date Collected: 10/14/13 11:25 — **Matrix: Water**
Date Received: 10/15/13 07:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	146170	10/20/13 03:17	RAL	TAL BUF

Client Sample ID: MW-561-20131014-01 — Lab Sample ID: 480-47908-10

Date Collected: 10/14/13 12:50 — **Matrix: Water**
Date Received: 10/15/13 07:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	146170	10/20/13 03:40	RAL	TAL BUF
Total/NA	Analysis	8260C	DL	20	146187	10/20/13 17:56	LCH	TAL BUF

Client Sample ID: MW-562-20131012-01 — Lab Sample ID: 480-47908-11

Date Collected: 10/12/13 11:10 — **Matrix: Water**
Date Received: 10/15/13 07:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	146187	10/20/13 15:34	LCH	TAL BUF

Lab Chronicle

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-47908-1

Client Sample ID: MW-563-20131014-01 — Lab Sample ID: 480-47908-12

Date Collected: 10/14/13 12:05 — **Matrix: Water**
Date Received: 10/15/13 07:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		5	146170	10/20/13 04:27	RAL	TAL BUF

Client Sample ID: REW-1-20131012-01 — Lab Sample ID: 480-47908-13

Date Collected: 10/12/13 12:05 — **Matrix: Water**
Date Received: 10/15/13 07:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	146170	10/20/13 04:51	RAL	TAL BUF
Total/NA	Analysis	8260C	DL	20	146187	10/20/13 18:20	LCH	TAL BUF

Client Sample ID: REW-4-20131012-01 — Lab Sample ID: 480-47908-14

Date Collected: 10/12/13 13:45 — **Matrix: Water**
Date Received: 10/15/13 07:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	146187	10/20/13 15:58	LCH	TAL BUF

Client Sample ID: REW-5-20131012-01 — Lab Sample ID: 480-47908-15

Date Collected: 10/12/13 12:50 — **Matrix: Water**
Date Received: 10/15/13 07:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	146187	10/20/13 16:21	LCH	TAL BUF

Client Sample ID: REW-6-20131013-01 — Lab Sample ID: 480-47908-16

Date Collected: 10/13/13 07:35 — **Matrix: Water**
Date Received: 10/15/13 07:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		8	146170	10/20/13 06:02	RAL	TAL BUF

Client Sample ID: REW-7-20131013-01 — Lab Sample ID: 480-47908-17

Date Collected: 10/13/13 09:25 — **Matrix: Water**
Date Received: 10/15/13 07:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		10	146170	10/20/13 06:26	RAL	TAL BUF

Lab Chronicle

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-47908-1

Client Sample ID: REW-8-20131013-01 — Lab Sample ID: 480-47908-18

Date Collected: 10/13/13 08:15 — **Matrix: Water**
Date Received: 10/15/13 07:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		5	146170	10/20/13 06:49	RAL	TAL BUF

Client Sample ID: REW-9-20131013-01 — Lab Sample ID: 480-47908-19

Date Collected: 10/13/13 10:25 — **Matrix: Water**
Date Received: 10/15/13 07:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	146170	10/20/13 07:13	RAL	TAL BUF
Total/NA	Analysis	8260C	DL	2	146187	10/20/13 18:44	LCH	TAL BUF

Client Sample ID: REW-10-20131013-01 — Lab Sample ID: 480-47908-20

Date Collected: 10/13/13 11:30 — **Matrix: Water**
Date Received: 10/15/13 07:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	146170	10/20/13 07:37	RAL	TAL BUF

Client Sample ID: REW-12-20131013-01 — Lab Sample ID: 480-47908-21

Date Collected: 10/13/13 12:15 — **Matrix: Water**
Date Received: 10/15/13 07:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		4	146187	10/20/13 19:08	LCH	TAL BUF

Client Sample ID: DUPX1-12-20131012-01 — Lab Sample ID: 480-47908-22

Date Collected: 10/12/13 00:00 — **Matrix: Water**
Date Received: 10/15/13 07:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C SIM		40	145256	10/16/13 18:31	CDC	TAL BUF
Total/NA	Analysis	8260C		20	146187	10/20/13 19:32	LCH	TAL BUF

Client Sample ID: DUPX2-12-20131013-01 — Lab Sample ID: 480-47908-23

Date Collected: 10/13/13 00:00 — **Matrix: Water**
Date Received: 10/15/13 07:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		5	146250	10/21/13 13:18	RAL	TAL BUF

Lab Chronicle

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-47908-1

Client Sample ID: DUPX3-12-20131014-01

Lab Sample ID: 480-47908-24

Date Collected: 10/14/13 00:00
Matrix: Water
Date Received: 10/15/13 07:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		5	146250	10/21/13 13:42	RAL	TAL BUF

Client Sample ID: Trip Blank

Lab Sample ID: 480-47908-25

Date Collected: 10/12/13 00:00
Matrix: Water
Date Received: 10/15/13 07:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	146187	10/20/13 20:42	LCH	TAL BUF

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Certification Summary

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-47908-1

Laboratory: TestAmerica Buffalo

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Arkansas DEQ	State Program	6	88-0686	07-06-14
California	NELAP	9	1169CA	09-30-14
Connecticut	State Program	1	PH-0568	09-30-14
Florida	NELAP	4	E87672	06-30-14
Georgia	State Program	4	N/A	03-31-14
Iowa	State Program	7	374	03-15-15
Kansas	NELAP	7	E-10187	01-31-14
Kentucky	State Program	4	90029	12-31-13
Kentucky (UST)	State Program	4	30	04-01-14
Louisiana	NELAP	6	02031	06-30-14
Maine	State Program	1	NY00044	12-04-14
Maryland	State Program	3	294	03-31-14
Massachusetts	State Program	1	M-NY044	06-30-14
Michigan	State Program	5	9937	04-01-14
Minnesota	NELAP	5	036-999-337	12-31-13
New Hampshire	NELAP	1	2973	09-11-14
New Jersey	NELAP	2	NY455	06-30-14
New York	NELAP	2	10026	04-01-14
North Dakota	State Program	8	R-176	03-31-14
Oklahoma	State Program	6	9421	08-31-14
Oregon	NELAP	10	NY200003	06-09-14
Pennsylvania	NELAP	3	68-00281	07-31-14
Rhode Island	State Program	1	LAO00328	12-31-13
Tennessee	State Program	4	TN02970	04-01-14
Texas	NELAP	6	T104704412-11-2	07-31-14
USDA	Federal		P330-11-00386	11-22-14
Virginia	NELAP	3	460185	09-14-14
Washington	State Program	10	C784	02-10-14
West Virginia DEP	State Program	3	252	12-31-13
Wisconsin	State Program	5	998310390	08-31-14

Method Summary

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-47908-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds (GC/MS)	MA DEP	TAL BUF
8260C SIM	Volatile Organic Compounds (GC/MS)	SW846	TAL BUF

Protocol References:

MA DEP = Massachusetts Department Of Environmental Protection

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Sample Summary

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-47908-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-47908-1	MW-261S-20131012-01	Water	10/12/13 09:40	10/15/13 07:00
480-47908-2	MW-265M-20131014-01	Water	10/14/13 13:25	10/15/13 07:00
480-47908-3	MW-267S-20131014-01	Water	10/14/13 09:30	10/15/13 07:00
480-47908-4	MW-267M-20131014-01	Water	10/14/13 10:05	10/15/13 07:00
480-47908-5	MW-268M-20131014-01	Water	10/14/13 08:40	10/15/13 07:00
480-47908-6	MW-551-20131012-01	Water	10/12/13 10:30	10/15/13 07:00
480-47908-7	MW-552-20131012-01	Water	10/12/13 08:55	10/15/13 07:00
480-47908-8	MW-553-20131012-01	Water	10/12/13 08:15	10/15/13 07:00
480-47908-9	MW-560-20131014-01	Water	10/14/13 11:25	10/15/13 07:00
480-47908-10	MW-561-20131014-01	Water	10/14/13 12:50	10/15/13 07:00
480-47908-11	MW-562-20131012-01	Water	10/12/13 11:10	10/15/13 07:00
480-47908-12	MW-563-20131014-01	Water	10/14/13 12:05	10/15/13 07:00
480-47908-13	REW-1-20131012-01	Water	10/12/13 12:05	10/15/13 07:00
480-47908-14	REW-4-20131012-01	Water	10/12/13 13:45	10/15/13 07:00
480-47908-15	REW-5-20131012-01	Water	10/12/13 12:50	10/15/13 07:00
480-47908-16	REW-6-20131013-01	Water	10/13/13 07:35	10/15/13 07:00
480-47908-17	REW-7-20131013-01	Water	10/13/13 09:25	10/15/13 07:00
480-47908-18	REW-8-20131013-01	Water	10/13/13 08:15	10/15/13 07:00
480-47908-19	REW-9-20131013-01	Water	10/13/13 10:25	10/15/13 07:00
480-47908-20	REW-10-20131013-01	Water	10/13/13 11:30	10/15/13 07:00
480-47908-21	REW-12-20131013-01	Water	10/13/13 12:15	10/15/13 07:00
480-47908-22	DUPX1-12-20131012-01	Water	10/12/13 00:00	10/15/13 07:00
480-47908-23	DUPX2-12-20131013-01	Water	10/13/13 00:00	10/15/13 07:00
480-47908-24	DUPX3-12-20131014-01	Water	10/14/13 00:00	10/15/13 07:00
480-47908-25	Trip Blank	Water	10/12/13 00:00	10/15/13 07:00

Login Sample Receipt Checklist

Client: Innovative Engineering Solutions, Inc

Job Number: 480-47908-1

Login Number: 47908

List Source: TestAmerica Buffalo

List Number: 1

Creator: Janish, Carl M

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Temperature on Receipt _____

Drinking Water? Yes ☐ No ☒

TAL-4124 (1007)

Client	Project Manager	Date	Chain of Custody Number
Innovative Engineering Solutions Inc	Vicki Parizek	10/14/13	255537
Address	**Telephone Number (Area Code)/Fax Number**	**Lab Number**	**Page 1 of 3**
25 Spring St	508-668-0033 / 508-668-5173		

City	State	Zip Code	Site Contact	Lab Contact
Walpole	MA	02081	Dany Jones	

Project Name and Location (State)	Carrier/Waybill Number
Raytheon - Lowell MA	

Contract/Purchase Order/Quote No.: RA-008

Analysis (Attach list if more space is needed): 8260B, 8260 - SIM

Special Instructions/ Conditions of Receipt

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil		Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/ NaOH		8260B	8260 - SIM
MW-261S-20131012-01	10/12/13	0840		X							5				X	X
MW-263M-20131014-01	10/14/13	1325		X							5				X	X
MW-267S-20131014-01	10/14/13	0930		X							5				X	X
MW-267M-20131014-01	10/14/13	1005		X							5				X	X
MW-268M-20131014-01	10/14/13	0840		X							5				X	X
MW-551-20131012-01	10/12/13	1030		X							3				X	
MW-552-20131012-01	10/12/13	0855		X							5				X	X
MW-553-20131012-01	10/12/13	0815		X							3				X	
MW-560-20131014-01	10/14/13	1125		X							3				X	
MW-561-20131014-01	10/14/13	1250		X							3				X	
MW-562-20131012-01	10/12/13	1110		X							3				X	
MW-563-20131014-01	10/14/13	1205		X							3				X	

Possible Hazard Identification: ☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal: ☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required: ☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☒ Other 5 days

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By	10/14/13	1415	1. Received By	10/14/13	1415
2. Relinquished By	10/14/13	1632	2. Received By	10/15/13	~~0700~~ CVS
3. Relinquished By			3. Received By		0700

Comments: 2.6°C #3

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Temperature on Receipt _____

Drinking Water? Yes ☐ No ☐

TAL-4124 (1007)

Client	Project Manager	Date	Chain of Custody Number 255531
Address	Telephone Number (Area Code)/Fax Number	Lab Number	Page 2 of 3
City / State / Zip Code	Site Contact / Lab Contact		
Project Name and Location (State): Raytheon — Lowell, MA	Carrier/Waybill Number		
Contract/Purchase Order/Quote No.: RA-008			

Analysis (Attach list if more space is needed): 8260B, 8260-SIM

Special Instructions/ Conditions of Receipt

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Air	Aqueous	Sed.	Soil		Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH		8260B	8260-SIM
REW-1-20131012-01	10/12/13	1205		X							3				X	
REW-4-20131012-01	10/12/13	1345		X							3				X	
REW-5-20131012-01	10/12/13	1250		X							3				X	
REW-6-20131013-01	10/13/13	0735		X							3				X	
REW-7-20131013-01	10/13/13	0925		X							3				X	
REW-8-20131013-01	10/13/13	0815		X							3				X	
REW-9-20131013-01	10/13/13	1025		X							3				X	
REW-10-20131013-01	10/13/13	1130		X							3				X	
REW-12-20131013-01	10/13/13	1215		X							3				X	
DupX1-20131012-01	10/12/13	—		X							5				X	X
DupX2-20131013-01	10/13/13	—		X							3				X	
DupX3-20131014-01	10/14/13	—		X							3				X	

480-47908 Chain of Custody

Possible Hazard Identification: ☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal: ☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required: ☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☒ Other 5 days

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By	10/14/13	1415	1. Received By	10/14/13	1415
2. Relinquished By	10/14/13	1530	2. Received By	10/15/13	0700
3. Relinquished By			3. Received By		0700

Comments: 2.6°C #3

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

Chain of Custody Record

Temperature on Receipt _____

Drinking Water? Yes☐ No☐

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TAL-4124 (1007)

Client: Innovative Engineering Solutions Inc	Project Manager: Vicki Pratyan	Date	Chain of Custody Number: 255532
Address: 25 Spring St	Telephone Number (Area Code)/Fax Number: 508-668-0033 / 508-668-5175	Lab Number	Page 3 of 3
City: Walpole; State: MA; Zip Code: 02081	Site Contact: Dave Jones	Lab Contact	
Project Name and Location (State): Raytheon Lowell MA	Carrier/Waybill Number		
Contract/Purchase Order/Quote No.: RA-008			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Air	Aqueous	Sed.	Soil	Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	8260B	Special Instructions/ Conditions of Receipt
Trip Blanks	—	—		X						X			X	

Analysis (Attach list if more space is needed)

Possible Hazard Identification: ☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal: ☐ Return To Client ☑ Disposal By Lab ☐ Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required: ☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☑ Other 5 day

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By	10/14/13	1415	1. Received By	10/14/13	1415
2. Relinquished By	10/14/13	1630	2. Received By	10/15/13	~~0900~~ 0700
3. Relinquished By			3. Received By		

Comments: 2.6°C #3

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

TestAmerica Job ID: 480-48091-1
Client Project/Site: IDS Wayland

For:
Innovative Engineering Solutions, Inc
25 Spring Street
Walpole, Massachusetts 02081

Attn: Vicki Pariyar

Authorized for release by:
10/23/2013 1:09:13 PM
Rich Emerich, Analyst V
rich.emerich@testamericainc.com

Designee for

Becky Mason, Project Manager II
(413)572-4000
becky.mason@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD exceeds the control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 480-48091-1

Laboratory: TestAmerica Buffalo

Narrative

Comments

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

Receipt

The samples were received on 10/17/2013 at 1:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.7º C.

GC/MS VOA

With the exception of diluted samples, per question G on the MassDEP Analytical Protocol Certification Form, TestAmerica's routine reporting limits do not achieve the CAM reporting limits specified in this CAM protocol for 1,2-dibromo-3-chloropropane, Carbon Disulfide, Isopropyl Ether, Naphthalene, tert-Butyl Ethyl Ether, tert-Amyl Methyl Ether, & Tetrahydrofuran.

Method 8260C: The laboratory control sample (LCS) and the laboratory control sample duplicate (LCSD) for batch 146450 exceeded control limits for the following analyte: 2-Butanone. Unlike the calibration standards, this is due to the coelution with Ethyl Acetate in the spiking solution. This does not indicate a performance issue with the spike recovery, but rather the laboratory's ability to measure the two analytes together in a combined spiking solution. Through the use of spectral analysis, the two compounds can be distinguished from one another if present in a client sample.

Method 8260C: The laboratory control sample (LCS) for batch 146250 exceeded control limits for the following analyte: 2-Butanone. Unlike the calibration standards, this is due to the coelution with Ethyl Acetate in the spiking solution. This does not indicate a performance issue with the spike recovery, but rather the laboratory's ability to measure the two analytes together in a combined spiking solution. Through the use of spectral analysis, the two compounds can be distinguished from one another if present in a client sample.

No other analytical or quality issues were noted.

MassDEP Analytical Protocol Certification Form

Laboratory Name: **TestAmerica Buffalo** Project #: **480-48091**

Project Location: **IDS Wayland** RTN:

This form provides certifications for the following data set: list Laboratory Sample ID Number(s):

480-48091 [1 - 13]

Matrices: ■ Groundwater/Surface Water ☐ Soil/Sediment ☐ Drinking Water ☐ Air ☐ Other:

CAM Protocols (check all that apply below):

8260 VOC CAM II A ■	7470/7471 Hg CAM III B ☐	Mass DEP VPH CAM IV A ☐	8081 Pesticides CAM V B ☐	7196 Hex Cr CAM VI B ☐	Mass DEP APH CAM IX A ☐
8270 SVOC CAM II B ☐	7010 Metals CAM III C ☐	Mass DEP EPH CAM IV B ☐	8151 Herbicides CAM V C ☐	8330 Explosives CAM VIII A ☐	TO-15 VOC CAM IX B ☐
6010 Metals CAM III A ☐	6020 Metals CAM III D ☐	8082 PCB CAM V A ☐	9014 Total Cyanide/PAC CAM VI A ☐	6860 Perchlorate CAM VIII B ☐	

Affirmative Responses to Questions A through F are required for "Presumptive Certainty" status

A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding time.	■ Yes ☐ No
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	■ Yes ☐ No
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	■ Yes ☐ No
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	■ Yes ☐ No
E	a. VPH, EPH and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications). b. APH and TO-15 Methods only: Was the complete analyte list reported for each method?	☐ Yes ☐ No ☐ Yes ☐ No
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	■ Yes ☐ No

Responses to Questions G, H and I below are required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	☐ Yes ■ No[1]

Data User Note: ***Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WCS-07-350***

H	Were **all** QC performance standards specified in the CAM protocol(s) achieved?	■ Yes ☐ No[1]
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s) ?	■ Yes ☐ No[1]

[1] All negative responses must be addressed in an attached laboratory narrative.

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, is accurate and complete.

Signature: Position: Technical Director

Printed Name: Richard Emerich Date: 10/23/2013 @ 1130

Detection Summary

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-48091-1

Client Sample ID: DEP-19M-201310 — Lab Sample ID: 480-48091-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	1.3		1.0		ug/L	1		8260C	Total/NA
Toluene	2.1		1.0		ug/L	1		8260C	Total/NA

Client Sample ID: DEP-21-201310 — Lab Sample ID: 480-48091-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	5.9		1.0		ug/L	1		8260C	Total/NA
Trichloroethene	1.7		1.0		ug/L	1		8260C	Total/NA

Client Sample ID: MW-263M-201310 — Lab Sample ID: 480-48091-3

No Detections.

Client Sample ID: MW-264M-20131015-01 — Lab Sample ID: 480-48091-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	4.4		1.0		ug/L	1		8260C	Total/NA
Trichloroethene	8.1		1.0		ug/L	1		8260C	Total/NA

Client Sample ID: MW-265S-20131015-01 — Lab Sample ID: 480-48091-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	5.0		1.0		ug/L	1		8260C	Total/NA
Vinyl chloride	1.5		1.0		ug/L	1		8260C	Total/NA

Client Sample ID: MW-265D-20131015-01 — Lab Sample ID: 480-48091-6

No Detections.

Client Sample ID: MW-266Ma-20131015-01 — Lab Sample ID: 480-48091-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	5.6		1.6		ug/L	1		8260B SIM	Total/NA
cis-1,2-Dichloroethene	8.7		1.0		ug/L	1		8260C	Total/NA
Trichloroethene	22		1.0		ug/L	1		8260C	Total/NA

Client Sample ID: MW-266Mb-20131015-01 — Lab Sample ID: 480-48091-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	58		1.0		ug/L	1		8260C	Total/NA
Tetrachloroethene	10		1.0		ug/L	1		8260C	Total/NA
Trichloroethene	42		1.0		ug/L	1		8260C	Total/NA
Vinyl chloride	55		1.0		ug/L	1		8260C	Total/NA

Client Sample ID: MW-268D-20131015-01 — Lab Sample ID: 480-48091-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	79		1.0		ug/L	1		8260C	Total/NA
Trichloroethene	2.3		1.0		ug/L	1		8260C	Total/NA
Vinyl chloride	7.8		1.0		ug/L	1		8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-48091-1

Client Sample ID: MW-269Ma-201310 — Lab Sample ID: 480-48091-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	1.6		1.6		ug/L	1		8260B SIM	Total/NA
cis-1,2-Dichloroethene	2.3		1.0		ug/L	1		8260C	Total/NA
Trichloroethene	1.2		1.0		ug/L	1		8260C	Total/NA

Client Sample ID: MW-554D-201310 — Lab Sample ID: 480-48091-11

No Detections.

Client Sample ID: MW-553D-201310 — Lab Sample ID: 480-48091-12

No Detections.

Client Sample ID: MW-556D-201310 — Lab Sample ID: 480-48091-13

No Detections.

Client Sample ID: DupX4-20131015-01 — Lab Sample ID: 480-48091-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	58		1.0		ug/L	1		8260C	Total/NA
Tetrachloroethene	11		1.0		ug/L	1		8260C	Total/NA
Trichloroethene	42		1.0		ug/L	1		8260C	Total/NA
Vinyl chloride	54		1.0		ug/L	1		8260C	Total/NA

Client Sample ID: Trip Blank — Lab Sample ID: 480-48091-15

No Detections.

This Detection Summary does not include radiochemical test results.

Client Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-48091-1

Client Sample ID: DEP-19M-201310
Date Collected: 10/16/13 09:20
Date Received: 10/17/13 01:00

Lab Sample ID: 480-48091-1
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			10/21/13 15:17	1
1,1,1-Trichloroethane	ND		1.0		ug/L			10/21/13 15:17	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			10/21/13 15:17	1
1,1,2-Trichloroethane	ND		1.0		ug/L			10/21/13 15:17	1
1,1-Dichloroethane	ND		1.0		ug/L			10/21/13 15:17	1
1,1-Dichloroethene	ND		1.0		ug/L			10/21/13 15:17	1
1,1-Dichloropropene	ND		1.0		ug/L			10/21/13 15:17	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			10/21/13 15:17	1
1,2,3-Trichloropropane	ND		1.0		ug/L			10/21/13 15:17	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			10/21/13 15:17	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			10/21/13 15:17	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			10/21/13 15:17	1
1,2-Dichlorobenzene	ND		1.0		ug/L			10/21/13 15:17	1
1,2-Dichloroethane	ND		1.0		ug/L			10/21/13 15:17	1
1,2-Dichloropropane	ND		1.0		ug/L			10/21/13 15:17	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			10/21/13 15:17	1
1,3-Dichlorobenzene	ND		1.0		ug/L			10/21/13 15:17	1
1,3-Dichloropropane	ND		1.0		ug/L			10/21/13 15:17	1
1,4-Dichlorobenzene	ND		1.0		ug/L			10/21/13 15:17	1
1,4-Dioxane	ND		50		ug/L			10/21/13 15:17	1
2,2-Dichloropropane	ND		1.0		ug/L			10/21/13 15:17	1
2-Butanone (MEK)	ND	*	10		ug/L			10/21/13 15:17	1
2-Chlorotoluene	ND		1.0		ug/L			10/21/13 15:17	1
2-Hexanone	ND		10		ug/L			10/21/13 15:17	1
4-Chlorotoluene	ND		1.0		ug/L			10/21/13 15:17	1
4-Isopropyltoluene	ND		1.0		ug/L			10/21/13 15:17	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			10/21/13 15:17	1
Acetone	ND		50		ug/L			10/21/13 15:17	1
Benzene	ND		1.0		ug/L			10/21/13 15:17	1
Bromobenzene	ND		1.0		ug/L			10/21/13 15:17	1
Bromoform	ND		1.0		ug/L			10/21/13 15:17	1
Bromomethane	ND		2.0		ug/L			10/21/13 15:17	1
Carbon disulfide	ND		10		ug/L			10/21/13 15:17	1
Carbon tetrachloride	ND		1.0		ug/L			10/21/13 15:17	1
Chlorobenzene	ND		1.0		ug/L			10/21/13 15:17	1
Chlorobromomethane	ND		1.0		ug/L			10/21/13 15:17	1
Chlorodibromomethane	ND		0.50		ug/L			10/21/13 15:17	1
Chloroethane	ND		2.0		ug/L			10/21/13 15:17	1
Chloroform	ND		1.0		ug/L			10/21/13 15:17	1
Chloromethane	ND		2.0		ug/L			10/21/13 15:17	1
cis-1,2-Dichloroethene	**1.3**		1.0		ug/L			10/21/13 15:17	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			10/21/13 15:17	1
Dichlorobromomethane	ND		0.50		ug/L			10/21/13 15:17	1
Dichlorodifluoromethane	ND		1.0		ug/L			10/21/13 15:17	1
Ethyl ether	ND		1.0		ug/L			10/21/13 15:17	1
Ethylbenzene	ND		1.0		ug/L			10/21/13 15:17	1
Ethylene Dibromide	ND		1.0		ug/L			10/21/13 15:17	1
Hexachlorobutadiene	ND		0.40		ug/L			10/21/13 15:17	1
Isopropyl ether	ND		10		ug/L			10/21/13 15:17	1

Client Sample ID: DEP-19M-201310

Lab Sample ID: 480-48091-1

Date Collected: 10/16/13 09:20

Matrix: Water

Date Received: 10/17/13 01:00

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	ND		1.0		ug/L			10/21/13 15:17	1
Methyl tert-butyl ether	ND		1.0		ug/L			10/21/13 15:17	1
Methylene Chloride	ND		1.0		ug/L			10/21/13 15:17	1
m-Xylene & p-Xylene	ND		2.0		ug/L			10/21/13 15:17	1
Naphthalene	ND		5.0		ug/L			10/21/13 15:17	1
n-Butylbenzene	ND		1.0		ug/L			10/21/13 15:17	1
N-Propylbenzene	ND		1.0		ug/L			10/21/13 15:17	1
o-Xylene	ND		1.0		ug/L			10/21/13 15:17	1
sec-Butylbenzene	ND		1.0		ug/L			10/21/13 15:17	1
Styrene	ND		1.0		ug/L			10/21/13 15:17	1
Tert-amyl methyl ether	ND		5.0		ug/L			10/21/13 15:17	1
Tert-butyl ethyl ether	ND		5.0		ug/L			10/21/13 15:17	1
tert-Butylbenzene	ND		1.0		ug/L			10/21/13 15:17	1
Tetrachloroethene	ND		1.0		ug/L			10/21/13 15:17	1
Tetrahydrofuran	ND		10		ug/L			10/21/13 15:17	1
Toluene	**2.1**		1.0		ug/L			10/21/13 15:17	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			10/21/13 15:17	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			10/21/13 15:17	1
Trichloroethene	ND		1.0		ug/L			10/21/13 15:17	1
Trichlorofluoromethane	ND		1.0		ug/L			10/21/13 15:17	1
Vinyl chloride	ND		1.0		ug/L			10/21/13 15:17	1
Dibromomethane	ND		1.0		ug/L			10/21/13 15:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*96*		*70 - 130*		*10/21/13 15:17*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 130*		*10/21/13 15:17*	*1*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*		*10/21/13 15:17*	*1*

Client Sample ID: DEP-21-201310

Lab Sample ID: 480-48091-2

Date Collected: 10/16/13 08:30

Matrix: Water

Date Received: 10/17/13 01:00

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			10/21/13 15:41	1
1,1,1-Trichloroethane	ND		1.0		ug/L			10/21/13 15:41	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			10/21/13 15:41	1
1,1,2-Trichloroethane	ND		1.0		ug/L			10/21/13 15:41	1
1,1-Dichloroethane	ND		1.0		ug/L			10/21/13 15:41	1
1,1-Dichloroethene	ND		1.0		ug/L			10/21/13 15:41	1
1,1-Dichloropropene	ND		1.0		ug/L			10/21/13 15:41	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			10/21/13 15:41	1
1,2,3-Trichloropropane	ND		1.0		ug/L			10/21/13 15:41	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			10/21/13 15:41	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			10/21/13 15:41	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			10/21/13 15:41	1
1,2-Dichlorobenzene	ND		1.0		ug/L			10/21/13 15:41	1
1,2-Dichloroethane	ND		1.0		ug/L			10/21/13 15:41	1
1,2-Dichloropropane	ND		1.0		ug/L			10/21/13 15:41	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			10/21/13 15:41	1

Client Sample ID: DEP-21-201310
Date Collected: 10/16/13 08:30
Date Received: 10/17/13 01:00

Lab Sample ID: 480-48091-2
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	ND		1.0		ug/L			10/21/13 15:41	1
1,3-Dichloropropane	ND		1.0		ug/L			10/21/13 15:41	1
1,4-Dichlorobenzene	ND		1.0		ug/L			10/21/13 15:41	1
1,4-Dioxane	ND		50		ug/L			10/21/13 15:41	1
2,2-Dichloropropane	ND		1.0		ug/L			10/21/13 15:41	1
2-Butanone (MEK)	ND	*	10		ug/L			10/21/13 15:41	1
2-Chlorotoluene	ND		1.0		ug/L			10/21/13 15:41	1
2-Hexanone	ND		10		ug/L			10/21/13 15:41	1
4-Chlorotoluene	ND		1.0		ug/L			10/21/13 15:41	1
4-Isopropyltoluene	ND		1.0		ug/L			10/21/13 15:41	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			10/21/13 15:41	1
Acetone	ND		50		ug/L			10/21/13 15:41	1
Benzene	ND		1.0		ug/L			10/21/13 15:41	1
Bromobenzene	ND		1.0		ug/L			10/21/13 15:41	1
Bromoform	ND		1.0		ug/L			10/21/13 15:41	1
Bromomethane	ND		2.0		ug/L			10/21/13 15:41	1
Carbon disulfide	ND		10		ug/L			10/21/13 15:41	1
Carbon tetrachloride	ND		1.0		ug/L			10/21/13 15:41	1
Chlorobenzene	ND		1.0		ug/L			10/21/13 15:41	1
Chlorobromomethane	ND		1.0		ug/L			10/21/13 15:41	1
Chlorodibromomethane	ND		0.50		ug/L			10/21/13 15:41	1
Chloroethane	ND		2.0		ug/L			10/21/13 15:41	1
Chloroform	ND		1.0		ug/L			10/21/13 15:41	1
Chloromethane	ND		2.0		ug/L			10/21/13 15:41	1
cis-1,2-Dichloroethene	**5.9**		1.0		ug/L			10/21/13 15:41	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			10/21/13 15:41	1
Dichlorobromomethane	ND		0.50		ug/L			10/21/13 15:41	1
Dichlorodifluoromethane	ND		1.0		ug/L			10/21/13 15:41	1
Ethyl ether	ND		1.0		ug/L			10/21/13 15:41	1
Ethylbenzene	ND		1.0		ug/L			10/21/13 15:41	1
Ethylene Dibromide	ND		1.0		ug/L			10/21/13 15:41	1
Hexachlorobutadiene	ND		0.40		ug/L			10/21/13 15:41	1
Isopropyl ether	ND		10		ug/L			10/21/13 15:41	1
Isopropylbenzene	ND		1.0		ug/L			10/21/13 15:41	1
Methyl tert-butyl ether	ND		1.0		ug/L			10/21/13 15:41	1
Methylene Chloride	ND		1.0		ug/L			10/21/13 15:41	1
m-Xylene & p-Xylene	ND		2.0		ug/L			10/21/13 15:41	1
Naphthalene	ND		5.0		ug/L			10/21/13 15:41	1
n-Butylbenzene	ND		1.0		ug/L			10/21/13 15:41	1
N-Propylbenzene	ND		1.0		ug/L			10/21/13 15:41	1
o-Xylene	ND		1.0		ug/L			10/21/13 15:41	1
sec-Butylbenzene	ND		1.0		ug/L			10/21/13 15:41	1
Styrene	ND		1.0		ug/L			10/21/13 15:41	1
Tert-amyl methyl ether	ND		5.0		ug/L			10/21/13 15:41	1
Tert-butyl ethyl ether	ND		5.0		ug/L			10/21/13 15:41	1
tert-Butylbenzene	ND		1.0		ug/L			10/21/13 15:41	1
Tetrachloroethene	ND		1.0		ug/L			10/21/13 15:41	1
Tetrahydrofuran	ND		10		ug/L			10/21/13 15:41	1
Toluene	ND		1.0		ug/L			10/21/13 15:41	1

Client Sample ID: DEP-21-201310

Lab Sample ID: 480-48091-2

Date Collected: 10/16/13 08:30

Matrix: Water

Date Received: 10/17/13 01:00

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	ND		1.0		ug/L			10/21/13 15:41	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			10/21/13 15:41	1
Trichloroethene	**1.7**		1.0		ug/L			10/21/13 15:41	1
Trichlorofluoromethane	ND		1.0		ug/L			10/21/13 15:41	1
Vinyl chloride	ND		1.0		ug/L			10/21/13 15:41	1
Dibromomethane	ND		1.0		ug/L			10/21/13 15:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*97*		*70 - 130*		*10/21/13 15:41*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 130*		*10/21/13 15:41*	*1*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*10/21/13 15:41*	*1*

Client Sample ID: MW-263M-201310

Lab Sample ID: 480-48091-3

Date Collected: 10/16/13 10:15

Matrix: Water

Date Received: 10/17/13 01:00

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			10/21/13 16:05	1
1,1,1-Trichloroethane	ND		1.0		ug/L			10/21/13 16:05	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			10/21/13 16:05	1
1,1,2-Trichloroethane	ND		1.0		ug/L			10/21/13 16:05	1
1,1-Dichloroethane	ND		1.0		ug/L			10/21/13 16:05	1
1,1-Dichloroethene	ND		1.0		ug/L			10/21/13 16:05	1
1,1-Dichloropropene	ND		1.0		ug/L			10/21/13 16:05	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			10/21/13 16:05	1
1,2,3-Trichloropropane	ND		1.0		ug/L			10/21/13 16:05	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			10/21/13 16:05	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			10/21/13 16:05	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			10/21/13 16:05	1
1,2-Dichlorobenzene	ND		1.0		ug/L			10/21/13 16:05	1
1,2-Dichloroethane	ND		1.0		ug/L			10/21/13 16:05	1
1,2-Dichloropropane	ND		1.0		ug/L			10/21/13 16:05	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			10/21/13 16:05	1
1,3-Dichlorobenzene	ND		1.0		ug/L			10/21/13 16:05	1
1,3-Dichloropropane	ND		1.0		ug/L			10/21/13 16:05	1
1,4-Dichlorobenzene	ND		1.0		ug/L			10/21/13 16:05	1
1,4-Dioxane	ND		50		ug/L			10/21/13 16:05	1
2,2-Dichloropropane	ND		1.0		ug/L			10/21/13 16:05	1
2-Butanone (MEK)	ND	*	10		ug/L			10/21/13 16:05	1
2-Chlorotoluene	ND		1.0		ug/L			10/21/13 16:05	1
2-Hexanone	ND		10		ug/L			10/21/13 16:05	1
4-Chlorotoluene	ND		1.0		ug/L			10/21/13 16:05	1
4-Isopropyltoluene	ND		1.0		ug/L			10/21/13 16:05	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			10/21/13 16:05	1
Acetone	ND		50		ug/L			10/21/13 16:05	1
Benzene	ND		1.0		ug/L			10/21/13 16:05	1
Bromobenzene	ND		1.0		ug/L			10/21/13 16:05	1
Bromoform	ND		1.0		ug/L			10/21/13 16:05	1
Bromomethane	ND		2.0		ug/L			10/21/13 16:05	1

Client Sample ID: MW-263M-201310
Date Collected: 10/16/13 10:15
Date Received: 10/17/13 01:00

Lab Sample ID: 480-48091-3
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	ND		10		ug/L			10/21/13 16:05	1
Carbon tetrachloride	ND		1.0		ug/L			10/21/13 16:05	1
Chlorobenzene	ND		1.0		ug/L			10/21/13 16:05	1
Chlorobromomethane	ND		1.0		ug/L			10/21/13 16:05	1
Chlorodibromomethane	ND		0.50		ug/L			10/21/13 16:05	1
Chloroethane	ND		2.0		ug/L			10/21/13 16:05	1
Chloroform	ND		1.0		ug/L			10/21/13 16:05	1
Chloromethane	ND		2.0		ug/L			10/21/13 16:05	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			10/21/13 16:05	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			10/21/13 16:05	1
Dichlorobromomethane	ND		0.50		ug/L			10/21/13 16:05	1
Dichlorodifluoromethane	ND		1.0		ug/L			10/21/13 16:05	1
Ethyl ether	ND		1.0		ug/L			10/21/13 16:05	1
Ethylbenzene	ND		1.0		ug/L			10/21/13 16:05	1
Ethylene Dibromide	ND		1.0		ug/L			10/21/13 16:05	1
Hexachlorobutadiene	ND		0.40		ug/L			10/21/13 16:05	1
Isopropyl ether	ND		10		ug/L			10/21/13 16:05	1
Isopropylbenzene	ND		1.0		ug/L			10/21/13 16:05	1
Methyl tert-butyl ether	ND		1.0		ug/L			10/21/13 16:05	1
Methylene Chloride	ND		1.0		ug/L			10/21/13 16:05	1
m-Xylene & p-Xylene	ND		2.0		ug/L			10/21/13 16:05	1
Naphthalene	ND		5.0		ug/L			10/21/13 16:05	1
n-Butylbenzene	ND		1.0		ug/L			10/21/13 16:05	1
N-Propylbenzene	ND		1.0		ug/L			10/21/13 16:05	1
o-Xylene	ND		1.0		ug/L			10/21/13 16:05	1
sec-Butylbenzene	ND		1.0		ug/L			10/21/13 16:05	1
Styrene	ND		1.0		ug/L			10/21/13 16:05	1
Tert-amyl methyl ether	ND		5.0		ug/L			10/21/13 16:05	1
Tert-butyl ethyl ether	ND		5.0		ug/L			10/21/13 16:05	1
tert-Butylbenzene	ND		1.0		ug/L			10/21/13 16:05	1
Tetrachloroethene	ND		1.0		ug/L			10/21/13 16:05	1
Tetrahydrofuran	ND		10		ug/L			10/21/13 16:05	1
Toluene	ND		1.0		ug/L			10/21/13 16:05	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			10/21/13 16:05	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			10/21/13 16:05	1
Trichloroethene	ND		1.0		ug/L			10/21/13 16:05	1
Trichlorofluoromethane	ND		1.0		ug/L			10/21/13 16:05	1
Vinyl chloride	ND		1.0		ug/L			10/21/13 16:05	1
Dibromomethane	ND		1.0		ug/L			10/21/13 16:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*98*		*70 - 130*		*10/21/13 16:05*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 130*		*10/21/13 16:05*	*1*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*		*10/21/13 16:05*	*1*

Client Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-48091-1

Client Sample ID: MW-264M-20131015-01

Lab Sample ID: 480-48091-4

Date Collected: 10/15/13 12:15

Matrix: Water

Date Received: 10/17/13 01:00

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			10/21/13 16:29	1
1,1,1-Trichloroethane	ND		1.0		ug/L			10/21/13 16:29	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			10/21/13 16:29	1
1,1,2-Trichloroethane	ND		1.0		ug/L			10/21/13 16:29	1
1,1-Dichloroethane	ND		1.0		ug/L			10/21/13 16:29	1
1,1-Dichloroethene	ND		1.0		ug/L			10/21/13 16:29	1
1,1-Dichloropropene	ND		1.0		ug/L			10/21/13 16:29	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			10/21/13 16:29	1
1,2,3-Trichloropropane	ND		1.0		ug/L			10/21/13 16:29	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			10/21/13 16:29	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			10/21/13 16:29	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			10/21/13 16:29	1
1,2-Dichlorobenzene	ND		1.0		ug/L			10/21/13 16:29	1
1,2-Dichloroethane	ND		1.0		ug/L			10/21/13 16:29	1
1,2-Dichloropropane	ND		1.0		ug/L			10/21/13 16:29	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			10/21/13 16:29	1
1,3-Dichlorobenzene	ND		1.0		ug/L			10/21/13 16:29	1
1,3-Dichloropropane	ND		1.0		ug/L			10/21/13 16:29	1
1,4-Dichlorobenzene	ND		1.0		ug/L			10/21/13 16:29	1
1,4-Dioxane	ND		50		ug/L			10/21/13 16:29	1
2,2-Dichloropropane	ND		1.0		ug/L			10/21/13 16:29	1
2-Butanone (MEK)	ND	*	10		ug/L			10/21/13 16:29	1
2-Chlorotoluene	ND		1.0		ug/L			10/21/13 16:29	1
2-Hexanone	ND		10		ug/L			10/21/13 16:29	1
4-Chlorotoluene	ND		1.0		ug/L			10/21/13 16:29	1
4-Isopropyltoluene	ND		1.0		ug/L			10/21/13 16:29	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			10/21/13 16:29	1
Acetone	ND		50		ug/L			10/21/13 16:29	1
Benzene	ND		1.0		ug/L			10/21/13 16:29	1
Bromobenzene	ND		1.0		ug/L			10/21/13 16:29	1
Bromoform	ND		1.0		ug/L			10/21/13 16:29	1
Bromomethane	ND		2.0		ug/L			10/21/13 16:29	1
Carbon disulfide	ND		10		ug/L			10/21/13 16:29	1
Carbon tetrachloride	ND		1.0		ug/L			10/21/13 16:29	1
Chlorobenzene	ND		1.0		ug/L			10/21/13 16:29	1
Chlorobromomethane	ND		1.0		ug/L			10/21/13 16:29	1
Chlorodibromomethane	ND		0.50		ug/L			10/21/13 16:29	1
Chloroethane	ND		2.0		ug/L			10/21/13 16:29	1
Chloroform	ND		1.0		ug/L			10/21/13 16:29	1
Chloromethane	ND		2.0		ug/L			10/21/13 16:29	1
cis-1,2-Dichloroethene	**4.4**		1.0		ug/L			10/21/13 16:29	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			10/21/13 16:29	1
Dichlorobromomethane	ND		0.50		ug/L			10/21/13 16:29	1
Dichlorodifluoromethane	ND		1.0		ug/L			10/21/13 16:29	1
Ethyl ether	ND		1.0		ug/L			10/21/13 16:29	1
Ethylbenzene	ND		1.0		ug/L			10/21/13 16:29	1
Ethylene Dibromide	ND		1.0		ug/L			10/21/13 16:29	1
Hexachlorobutadiene	ND		0.40		ug/L			10/21/13 16:29	1
Isopropyl ether	ND		10		ug/L			10/21/13 16:29	1

Client Sample ID: MW-264M-20131015-01

Lab Sample ID: 480-48091-4

Date Collected: 10/15/13 12:15

Matrix: Water

Date Received: 10/17/13 01:00

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	ND		1.0		ug/L			10/21/13 16:29	1
Methyl tert-butyl ether	ND		1.0		ug/L			10/21/13 16:29	1
Methylene Chloride	ND		1.0		ug/L			10/21/13 16:29	1
m-Xylene & p-Xylene	ND		2.0		ug/L			10/21/13 16:29	1
Naphthalene	ND		5.0		ug/L			10/21/13 16:29	1
n-Butylbenzene	ND		1.0		ug/L			10/21/13 16:29	1
N-Propylbenzene	ND		1.0		ug/L			10/21/13 16:29	1
o-Xylene	ND		1.0		ug/L			10/21/13 16:29	1
sec-Butylbenzene	ND		1.0		ug/L			10/21/13 16:29	1
Styrene	ND		1.0		ug/L			10/21/13 16:29	1
Tert-amyl methyl ether	ND		5.0		ug/L			10/21/13 16:29	1
Tert-butyl ethyl ether	ND		5.0		ug/L			10/21/13 16:29	1
tert-Butylbenzene	ND		1.0		ug/L			10/21/13 16:29	1
Tetrachloroethene	ND		1.0		ug/L			10/21/13 16:29	1
Tetrahydrofuran	ND		10		ug/L			10/21/13 16:29	1
Toluene	ND		1.0		ug/L			10/21/13 16:29	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			10/21/13 16:29	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			10/21/13 16:29	1
Trichloroethene	**8.1**		1.0		ug/L			10/21/13 16:29	1
Trichlorofluoromethane	ND		1.0		ug/L			10/21/13 16:29	1
Vinyl chloride	ND		1.0		ug/L			10/21/13 16:29	1
Dibromomethane	ND		1.0		ug/L			10/21/13 16:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*97*		*70 - 130*		*10/21/13 16:29*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 130*		*10/21/13 16:29*	*1*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*		*10/21/13 16:29*	*1*

Client Sample ID: MW-265S-20131015-01

Lab Sample ID: 480-48091-5

Date Collected: 10/15/13 11:05

Matrix: Water

Date Received: 10/17/13 01:00

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			10/21/13 16:52	1
1,1,1-Trichloroethane	ND		1.0		ug/L			10/21/13 16:52	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			10/21/13 16:52	1
1,1,2-Trichloroethane	ND		1.0		ug/L			10/21/13 16:52	1
1,1-Dichloroethane	ND		1.0		ug/L			10/21/13 16:52	1
1,1-Dichloroethene	ND		1.0		ug/L			10/21/13 16:52	1
1,1-Dichloropropene	ND		1.0		ug/L			10/21/13 16:52	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			10/21/13 16:52	1
1,2,3-Trichloropropane	ND		1.0		ug/L			10/21/13 16:52	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			10/21/13 16:52	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			10/21/13 16:52	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			10/21/13 16:52	1
1,2-Dichlorobenzene	ND		1.0		ug/L			10/21/13 16:52	1
1,2-Dichloroethane	ND		1.0		ug/L			10/21/13 16:52	1
1,2-Dichloropropane	ND		1.0		ug/L			10/21/13 16:52	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			10/21/13 16:52	1

Client Sample ID: MW-265S-20131015-01
Date Collected: 10/15/13 11:05
Date Received: 10/17/13 01:00

Lab Sample ID: 480-48091-5
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	ND		1.0		ug/L			10/21/13 16:52	1
1,3-Dichloropropane	ND		1.0		ug/L			10/21/13 16:52	1
1,4-Dichlorobenzene	ND		1.0		ug/L			10/21/13 16:52	1
1,4-Dioxane	ND		50		ug/L			10/21/13 16:52	1
2,2-Dichloropropane	ND		1.0		ug/L			10/21/13 16:52	1
2-Butanone (MEK)	ND	*	10		ug/L			10/21/13 16:52	1
2-Chlorotoluene	ND		1.0		ug/L			10/21/13 16:52	1
2-Hexanone	ND		10		ug/L			10/21/13 16:52	1
4-Chlorotoluene	ND		1.0		ug/L			10/21/13 16:52	1
4-Isopropyltoluene	ND		1.0		ug/L			10/21/13 16:52	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			10/21/13 16:52	1
Acetone	ND		50		ug/L			10/21/13 16:52	1
Benzene	ND		1.0		ug/L			10/21/13 16:52	1
Bromobenzene	ND		1.0		ug/L			10/21/13 16:52	1
Bromoform	ND		1.0		ug/L			10/21/13 16:52	1
Bromomethane	ND		2.0		ug/L			10/21/13 16:52	1
Carbon disulfide	ND		10		ug/L			10/21/13 16:52	1
Carbon tetrachloride	ND		1.0		ug/L			10/21/13 16:52	1
Chlorobenzene	ND		1.0		ug/L			10/21/13 16:52	1
Chlorobromomethane	ND		1.0		ug/L			10/21/13 16:52	1
Chlorodibromomethane	ND		0.50		ug/L			10/21/13 16:52	1
Chloroethane	ND		2.0		ug/L			10/21/13 16:52	1
Chloroform	ND		1.0		ug/L			10/21/13 16:52	1
Chloromethane	ND		2.0		ug/L			10/21/13 16:52	1
cis-1,2-Dichloroethene	**5.0**		1.0		ug/L			10/21/13 16:52	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			10/21/13 16:52	1
Dichlorobromomethane	ND		0.50		ug/L			10/21/13 16:52	1
Dichlorodifluoromethane	ND		1.0		ug/L			10/21/13 16:52	1
Ethyl ether	ND		1.0		ug/L			10/21/13 16:52	1
Ethylbenzene	ND		1.0		ug/L			10/21/13 16:52	1
Ethylene Dibromide	ND		1.0		ug/L			10/21/13 16:52	1
Hexachlorobutadiene	ND		0.40		ug/L			10/21/13 16:52	1
Isopropyl ether	ND		10		ug/L			10/21/13 16:52	1
Isopropylbenzene	ND		1.0		ug/L			10/21/13 16:52	1
Methyl tert-butyl ether	ND		1.0		ug/L			10/21/13 16:52	1
Methylene Chloride	ND		1.0		ug/L			10/21/13 16:52	1
m-Xylene & p-Xylene	ND		2.0		ug/L			10/21/13 16:52	1
Naphthalene	ND		5.0		ug/L			10/21/13 16:52	1
n-Butylbenzene	ND		1.0		ug/L			10/21/13 16:52	1
N-Propylbenzene	ND		1.0		ug/L			10/21/13 16:52	1
o-Xylene	ND		1.0		ug/L			10/21/13 16:52	1
sec-Butylbenzene	ND		1.0		ug/L			10/21/13 16:52	1
Styrene	ND		1.0		ug/L			10/21/13 16:52	1
Tert-amyl methyl ether	ND		5.0		ug/L			10/21/13 16:52	1
Tert-butyl ethyl ether	ND		5.0		ug/L			10/21/13 16:52	1
tert-Butylbenzene	ND		1.0		ug/L			10/21/13 16:52	1
Tetrachloroethene	ND		1.0		ug/L			10/21/13 16:52	1
Tetrahydrofuran	ND		10		ug/L			10/21/13 16:52	1
Toluene	ND		1.0		ug/L			10/21/13 16:52	1

Client Sample ID: MW-265S-20131015-01

Lab Sample ID: 480-48091-5

Date Collected: 10/15/13 11:05

Matrix: Water

Date Received: 10/17/13 01:00

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	ND		1.0		ug/L			10/21/13 16:52	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			10/21/13 16:52	1
Trichloroethene	ND		1.0		ug/L			10/21/13 16:52	1
Trichlorofluoromethane	ND		1.0		ug/L			10/21/13 16:52	1
Vinyl chloride	**1.5**		1.0		ug/L			10/21/13 16:52	1
Dibromomethane	ND		1.0		ug/L			10/21/13 16:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*96*		*70 - 130*		*10/21/13 16:52*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 130*		*10/21/13 16:52*	*1*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*		*10/21/13 16:52*	*1*

Client Sample ID: MW-265D-20131015-01

Lab Sample ID: 480-48091-6

Date Collected: 10/15/13 11:35

Matrix: Water

Date Received: 10/17/13 01:00

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			10/21/13 17:16	1
1,1,1-Trichloroethane	ND		1.0		ug/L			10/21/13 17:16	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			10/21/13 17:16	1
1,1,2-Trichloroethane	ND		1.0		ug/L			10/21/13 17:16	1
1,1-Dichloroethane	ND		1.0		ug/L			10/21/13 17:16	1
1,1-Dichloroethene	ND		1.0		ug/L			10/21/13 17:16	1
1,1-Dichloropropene	ND		1.0		ug/L			10/21/13 17:16	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			10/21/13 17:16	1
1,2,3-Trichloropropane	ND		1.0		ug/L			10/21/13 17:16	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			10/21/13 17:16	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			10/21/13 17:16	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			10/21/13 17:16	1
1,2-Dichlorobenzene	ND		1.0		ug/L			10/21/13 17:16	1
1,2-Dichloroethane	ND		1.0		ug/L			10/21/13 17:16	1
1,2-Dichloropropane	ND		1.0		ug/L			10/21/13 17:16	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			10/21/13 17:16	1
1,3-Dichlorobenzene	ND		1.0		ug/L			10/21/13 17:16	1
1,3-Dichloropropane	ND		1.0		ug/L			10/21/13 17:16	1
1,4-Dichlorobenzene	ND		1.0		ug/L			10/21/13 17:16	1
1,4-Dioxane	ND		50		ug/L			10/21/13 17:16	1
2,2-Dichloropropane	ND		1.0		ug/L			10/21/13 17:16	1
2-Butanone (MEK)	ND	*	10		ug/L			10/21/13 17:16	1
2-Chlorotoluene	ND		1.0		ug/L			10/21/13 17:16	1
2-Hexanone	ND		10		ug/L			10/21/13 17:16	1
4-Chlorotoluene	ND		1.0		ug/L			10/21/13 17:16	1
4-Isopropyltoluene	ND		1.0		ug/L			10/21/13 17:16	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			10/21/13 17:16	1
Acetone	ND		50		ug/L			10/21/13 17:16	1
Benzene	ND		1.0		ug/L			10/21/13 17:16	1
Bromobenzene	ND		1.0		ug/L			10/21/13 17:16	1
Bromoform	ND		1.0		ug/L			10/21/13 17:16	1
Bromomethane	ND		2.0		ug/L			10/21/13 17:16	1

Client Sample ID: MW-265D-20131015-01
Date Collected: 10/15/13 11:35
Date Received: 10/17/13 01:00

Lab Sample ID: 480-48091-6
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	ND		10		ug/L			10/21/13 17:16	1
Carbon tetrachloride	ND		1.0		ug/L			10/21/13 17:16	1
Chlorobenzene	ND		1.0		ug/L			10/21/13 17:16	1
Chlorobromomethane	ND		1.0		ug/L			10/21/13 17:16	1
Chlorodibromomethane	ND		0.50		ug/L			10/21/13 17:16	1
Chloroethane	ND		2.0		ug/L			10/21/13 17:16	1
Chloroform	ND		1.0		ug/L			10/21/13 17:16	1
Chloromethane	ND		2.0		ug/L			10/21/13 17:16	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			10/21/13 17:16	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			10/21/13 17:16	1
Dichlorobromomethane	ND		0.50		ug/L			10/21/13 17:16	1
Dichlorodifluoromethane	ND		1.0		ug/L			10/21/13 17:16	1
Ethyl ether	ND		1.0		ug/L			10/21/13 17:16	1
Ethylbenzene	ND		1.0		ug/L			10/21/13 17:16	1
Ethylene Dibromide	ND		1.0		ug/L			10/21/13 17:16	1
Hexachlorobutadiene	ND		0.40		ug/L			10/21/13 17:16	1
Isopropyl ether	ND		10		ug/L			10/21/13 17:16	1
Isopropylbenzene	ND		1.0		ug/L			10/21/13 17:16	1
Methyl tert-butyl ether	ND		1.0		ug/L			10/21/13 17:16	1
Methylene Chloride	ND		1.0		ug/L			10/21/13 17:16	1
m-Xylene & p-Xylene	ND		2.0		ug/L			10/21/13 17:16	1
Naphthalene	ND		5.0		ug/L			10/21/13 17:16	1
n-Butylbenzene	ND		1.0		ug/L			10/21/13 17:16	1
N-Propylbenzene	ND		1.0		ug/L			10/21/13 17:16	1
o-Xylene	ND		1.0		ug/L			10/21/13 17:16	1
sec-Butylbenzene	ND		1.0		ug/L			10/21/13 17:16	1
Styrene	ND		1.0		ug/L			10/21/13 17:16	1
Tert-amyl methyl ether	ND		5.0		ug/L			10/21/13 17:16	1
Tert-butyl ethyl ether	ND		5.0		ug/L			10/21/13 17:16	1
tert-Butylbenzene	ND		1.0		ug/L			10/21/13 17:16	1
Tetrachloroethene	ND		1.0		ug/L			10/21/13 17:16	1
Tetrahydrofuran	ND		10		ug/L			10/21/13 17:16	1
Toluene	ND		1.0		ug/L			10/21/13 17:16	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			10/21/13 17:16	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			10/21/13 17:16	1
Trichloroethene	ND		1.0		ug/L			10/21/13 17:16	1
Trichlorofluoromethane	ND		1.0		ug/L			10/21/13 17:16	1
Vinyl chloride	ND		1.0		ug/L			10/21/13 17:16	1
Dibromomethane	ND		1.0		ug/L			10/21/13 17:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*99*		*70 - 130*		*10/21/13 17:16*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 130*		*10/21/13 17:16*	*1*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*		*10/21/13 17:16*	*1*

Client Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-48091-1

Client Sample ID: MW-266Ma-20131015-01

Lab Sample ID: 480-48091-7

Date Collected: 10/15/13 08:15

Matrix: Water

Date Received: 10/17/13 01:00

Method: 8260B SIM - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	**5.6**		1.6		ug/L			10/22/13 12:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
TBA-d9 (Surr)	*99*		*50 - 150*		*10/22/13 12:00*	*1*
Dibromofluoromethane (Surr)	*110*		*50 - 150*		*10/22/13 12:00*	*1*

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			10/21/13 17:39	1
1,1,1-Trichloroethane	ND		1.0		ug/L			10/21/13 17:39	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			10/21/13 17:39	1
1,1,2-Trichloroethane	ND		1.0		ug/L			10/21/13 17:39	1
1,1-Dichloroethane	ND		1.0		ug/L			10/21/13 17:39	1
1,1-Dichloroethene	ND		1.0		ug/L			10/21/13 17:39	1
1,1-Dichloropropene	ND		1.0		ug/L			10/21/13 17:39	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			10/21/13 17:39	1
1,2,3-Trichloropropane	ND		1.0		ug/L			10/21/13 17:39	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			10/21/13 17:39	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			10/21/13 17:39	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			10/21/13 17:39	1
1,2-Dichlorobenzene	ND		1.0		ug/L			10/21/13 17:39	1
1,2-Dichloroethane	ND		1.0		ug/L			10/21/13 17:39	1
1,2-Dichloropropane	ND		1.0		ug/L			10/21/13 17:39	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			10/21/13 17:39	1
1,3-Dichlorobenzene	ND		1.0		ug/L			10/21/13 17:39	1
1,3-Dichloropropane	ND		1.0		ug/L			10/21/13 17:39	1
1,4-Dichlorobenzene	ND		1.0		ug/L			10/21/13 17:39	1
1,4-Dioxane	ND		50		ug/L			10/21/13 17:39	1
2,2-Dichloropropane	ND		1.0		ug/L			10/21/13 17:39	1
2-Butanone (MEK)	ND	*	10		ug/L			10/21/13 17:39	1
2-Chlorotoluene	ND		1.0		ug/L			10/21/13 17:39	1
2-Hexanone	ND		10		ug/L			10/21/13 17:39	1
4-Chlorotoluene	ND		1.0		ug/L			10/21/13 17:39	1
4-Isopropyltoluene	ND		1.0		ug/L			10/21/13 17:39	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			10/21/13 17:39	1
Acetone	ND		50		ug/L			10/21/13 17:39	1
Benzene	ND		1.0		ug/L			10/21/13 17:39	1
Bromobenzene	ND		1.0		ug/L			10/21/13 17:39	1
Bromoform	ND		1.0		ug/L			10/21/13 17:39	1
Bromomethane	ND		2.0		ug/L			10/21/13 17:39	1
Carbon disulfide	ND		10		ug/L			10/21/13 17:39	1
Carbon tetrachloride	ND		1.0		ug/L			10/21/13 17:39	1
Chlorobenzene	ND		1.0		ug/L			10/21/13 17:39	1
Chlorobromomethane	ND		1.0		ug/L			10/21/13 17:39	1
Chlorodibromomethane	ND		0.50		ug/L			10/21/13 17:39	1
Chloroethane	ND		2.0		ug/L			10/21/13 17:39	1
Chloroform	ND		1.0		ug/L			10/21/13 17:39	1
Chloromethane	ND		2.0		ug/L			10/21/13 17:39	1
cis-1,2-Dichloroethene	**8.7**		1.0		ug/L			10/21/13 17:39	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			10/21/13 17:39	1

Client Sample ID: MW-266Ma-20131015-01

Lab Sample ID: 480-48091-7

Date Collected: 10/15/13 08:15

Matrix: Water

Date Received: 10/17/13 01:00

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorobromomethane	ND		0.50		ug/L			10/21/13 17:39	1
Dichlorodifluoromethane	ND		1.0		ug/L			10/21/13 17:39	1
Ethyl ether	ND		1.0		ug/L			10/21/13 17:39	1
Ethylbenzene	ND		1.0		ug/L			10/21/13 17:39	1
Ethylene Dibromide	ND		1.0		ug/L			10/21/13 17:39	1
Hexachlorobutadiene	ND		0.40		ug/L			10/21/13 17:39	1
Isopropyl ether	ND		10		ug/L			10/21/13 17:39	1
Isopropylbenzene	ND		1.0		ug/L			10/21/13 17:39	1
Methyl tert-butyl ether	ND		1.0		ug/L			10/21/13 17:39	1
Methylene Chloride	ND		1.0		ug/L			10/21/13 17:39	1
m-Xylene & p-Xylene	ND		2.0		ug/L			10/21/13 17:39	1
Naphthalene	ND		5.0		ug/L			10/21/13 17:39	1
n-Butylbenzene	ND		1.0		ug/L			10/21/13 17:39	1
N-Propylbenzene	ND		1.0		ug/L			10/21/13 17:39	1
o-Xylene	ND		1.0		ug/L			10/21/13 17:39	1
sec-Butylbenzene	ND		1.0		ug/L			10/21/13 17:39	1
Styrene	ND		1.0		ug/L			10/21/13 17:39	1
Tert-amyl methyl ether	ND		5.0		ug/L			10/21/13 17:39	1
Tert-butyl ethyl ether	ND		5.0		ug/L			10/21/13 17:39	1
tert-Butylbenzene	ND		1.0		ug/L			10/21/13 17:39	1
Tetrachloroethene	ND		1.0		ug/L			10/21/13 17:39	1
Tetrahydrofuran	ND		10		ug/L			10/21/13 17:39	1
Toluene	ND		1.0		ug/L			10/21/13 17:39	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			10/21/13 17:39	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			10/21/13 17:39	1
Trichloroethene	**22**		1.0		ug/L			10/21/13 17:39	1
Trichlorofluoromethane	ND		1.0		ug/L			10/21/13 17:39	1
Vinyl chloride	ND		1.0		ug/L			10/21/13 17:39	1
Dibromomethane	ND		1.0		ug/L			10/21/13 17:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*97*		*70 - 130*		*10/21/13 17:39*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 130*		*10/21/13 17:39*	*1*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*		*10/21/13 17:39*	*1*

Client Sample ID: MW-266Mb-20131015-01

Lab Sample ID: 480-48091-8

Date Collected: 10/15/13 08:50

Matrix: Water

Date Received: 10/17/13 01:00

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			10/21/13 18:03	1
1,1,1-Trichloroethane	ND		1.0		ug/L			10/21/13 18:03	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			10/21/13 18:03	1
1,1,2-Trichloroethane	ND		1.0		ug/L			10/21/13 18:03	1
1,1-Dichloroethane	ND		1.0		ug/L			10/21/13 18:03	1
1,1-Dichloroethene	ND		1.0		ug/L			10/21/13 18:03	1
1,1-Dichloropropene	ND		1.0		ug/L			10/21/13 18:03	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			10/21/13 18:03	1
1,2,3-Trichloropropane	ND		1.0		ug/L			10/21/13 18:03	1

Client Sample ID: MW-266Mb-20131015-01
Date Collected: 10/15/13 08:50
Date Received: 10/17/13 01:00

Lab Sample ID: 480-48091-8
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		1.0		ug/L			10/21/13 18:03	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			10/21/13 18:03	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			10/21/13 18:03	1
1,2-Dichlorobenzene	ND		1.0		ug/L			10/21/13 18:03	1
1,2-Dichloroethane	ND		1.0		ug/L			10/21/13 18:03	1
1,2-Dichloropropane	ND		1.0		ug/L			10/21/13 18:03	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			10/21/13 18:03	1
1,3-Dichlorobenzene	ND		1.0		ug/L			10/21/13 18:03	1
1,3-Dichloropropane	ND		1.0		ug/L			10/21/13 18:03	1
1,4-Dichlorobenzene	ND		1.0		ug/L			10/21/13 18:03	1
1,4-Dioxane	ND		50		ug/L			10/21/13 18:03	1
2,2-Dichloropropane	ND		1.0		ug/L			10/21/13 18:03	1
2-Butanone (MEK)	ND	*	10		ug/L			10/21/13 18:03	1
2-Chlorotoluene	ND		1.0		ug/L			10/21/13 18:03	1
2-Hexanone	ND		10		ug/L			10/21/13 18:03	1
4-Chlorotoluene	ND		1.0		ug/L			10/21/13 18:03	1
4-Isopropyltoluene	ND		1.0		ug/L			10/21/13 18:03	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			10/21/13 18:03	1
Acetone	ND		50		ug/L			10/21/13 18:03	1
Benzene	ND		1.0		ug/L			10/21/13 18:03	1
Bromobenzene	ND		1.0		ug/L			10/21/13 18:03	1
Bromoform	ND		1.0		ug/L			10/21/13 18:03	1
Bromomethane	ND		2.0		ug/L			10/21/13 18:03	1
Carbon disulfide	ND		10		ug/L			10/21/13 18:03	1
Carbon tetrachloride	ND		1.0		ug/L			10/21/13 18:03	1
Chlorobenzene	ND		1.0		ug/L			10/21/13 18:03	1
Chlorobromomethane	ND		1.0		ug/L			10/21/13 18:03	1
Chlorodibromomethane	ND		0.50		ug/L			10/21/13 18:03	1
Chloroethane	ND		2.0		ug/L			10/21/13 18:03	1
Chloroform	ND		1.0		ug/L			10/21/13 18:03	1
Chloromethane	ND		2.0		ug/L			10/21/13 18:03	1
cis-1,2-Dichloroethene	**58**		1.0		ug/L			10/21/13 18:03	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			10/21/13 18:03	1
Dichlorobromomethane	ND		0.50		ug/L			10/21/13 18:03	1
Dichlorodifluoromethane	ND		1.0		ug/L			10/21/13 18:03	1
Ethyl ether	ND		1.0		ug/L			10/21/13 18:03	1
Ethylbenzene	ND		1.0		ug/L			10/21/13 18:03	1
Ethylene Dibromide	ND		1.0		ug/L			10/21/13 18:03	1
Hexachlorobutadiene	ND		0.40		ug/L			10/21/13 18:03	1
Isopropyl ether	ND		10		ug/L			10/21/13 18:03	1
Isopropylbenzene	ND		1.0		ug/L			10/21/13 18:03	1
Methyl tert-butyl ether	ND		1.0		ug/L			10/21/13 18:03	1
Methylene Chloride	ND		1.0		ug/L			10/21/13 18:03	1
m-Xylene & p-Xylene	ND		2.0		ug/L			10/21/13 18:03	1
Naphthalene	ND		5.0		ug/L			10/21/13 18:03	1
n-Butylbenzene	ND		1.0		ug/L			10/21/13 18:03	1
N-Propylbenzene	ND		1.0		ug/L			10/21/13 18:03	1
o-Xylene	ND		1.0		ug/L			10/21/13 18:03	1
sec-Butylbenzene	ND		1.0		ug/L			10/21/13 18:03	1

Client Sample ID: MW-266Mb-20131015-01

Lab Sample ID: 480-48091-8

Date Collected: 10/15/13 08:50

Matrix: Water

Date Received: 10/17/13 01:00

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	ND		1.0		ug/L			10/21/13 18:03	1
Tert-amyl methyl ether	ND		5.0		ug/L			10/21/13 18:03	1
Tert-butyl ethyl ether	ND		5.0		ug/L			10/21/13 18:03	1
tert-Butylbenzene	ND		1.0		ug/L			10/21/13 18:03	1
Tetrachloroethene	**10**		1.0		ug/L			10/21/13 18:03	1
Tetrahydrofuran	ND		10		ug/L			10/21/13 18:03	1
Toluene	ND		1.0		ug/L			10/21/13 18:03	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			10/21/13 18:03	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			10/21/13 18:03	1
Trichloroethene	**42**		1.0		ug/L			10/21/13 18:03	1
Trichlorofluoromethane	ND		1.0		ug/L			10/21/13 18:03	1
Vinyl chloride	**55**		1.0		ug/L			10/21/13 18:03	1
Dibromomethane	ND		1.0		ug/L			10/21/13 18:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*100*		*70 - 130*		*10/21/13 18:03*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 130*		*10/21/13 18:03*	*1*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*		*10/21/13 18:03*	*1*

Client Sample ID: MW-268D-20131015-01

Lab Sample ID: 480-48091-9

Date Collected: 10/15/13 12:55

Matrix: Water

Date Received: 10/17/13 01:00

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			10/21/13 18:26	1
1,1,1-Trichloroethane	ND		1.0		ug/L			10/21/13 18:26	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			10/21/13 18:26	1
1,1,2-Trichloroethane	ND		1.0		ug/L			10/21/13 18:26	1
1,1-Dichloroethane	ND		1.0		ug/L			10/21/13 18:26	1
1,1-Dichloroethene	ND		1.0		ug/L			10/21/13 18:26	1
1,1-Dichloropropene	ND		1.0		ug/L			10/21/13 18:26	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			10/21/13 18:26	1
1,2,3-Trichloropropane	ND		1.0		ug/L			10/21/13 18:26	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			10/21/13 18:26	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			10/21/13 18:26	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			10/21/13 18:26	1
1,2-Dichlorobenzene	ND		1.0		ug/L			10/21/13 18:26	1
1,2-Dichloroethane	ND		1.0		ug/L			10/21/13 18:26	1
1,2-Dichloropropane	ND		1.0		ug/L			10/21/13 18:26	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			10/21/13 18:26	1
1,3-Dichlorobenzene	ND		1.0		ug/L			10/21/13 18:26	1
1,3-Dichloropropane	ND		1.0		ug/L			10/21/13 18:26	1
1,4-Dichlorobenzene	ND		1.0		ug/L			10/21/13 18:26	1
1,4-Dioxane	ND		50		ug/L			10/21/13 18:26	1
2,2-Dichloropropane	ND		1.0		ug/L			10/21/13 18:26	1
2-Butanone (MEK)	ND	*	10		ug/L			10/21/13 18:26	1
2-Chlorotoluene	ND		1.0		ug/L			10/21/13 18:26	1
2-Hexanone	ND		10		ug/L			10/21/13 18:26	1
4-Chlorotoluene	ND		1.0		ug/L			10/21/13 18:26	1

Client Sample ID: MW-268D-20131015-01
Date Collected: 10/15/13 12:55
Date Received: 10/17/13 01:00

Lab Sample ID: 480-48091-9
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Isopropyltoluene	ND		1.0		ug/L			10/21/13 18:26	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			10/21/13 18:26	1
Acetone	ND		50		ug/L			10/21/13 18:26	1
Benzene	ND		1.0		ug/L			10/21/13 18:26	1
Bromobenzene	ND		1.0		ug/L			10/21/13 18:26	1
Bromoform	ND		1.0		ug/L			10/21/13 18:26	1
Bromomethane	ND		2.0		ug/L			10/21/13 18:26	1
Carbon disulfide	ND		10		ug/L			10/21/13 18:26	1
Carbon tetrachloride	ND		1.0		ug/L			10/21/13 18:26	1
Chlorobenzene	ND		1.0		ug/L			10/21/13 18:26	1
Chlorobromomethane	ND		1.0		ug/L			10/21/13 18:26	1
Chlorodibromomethane	ND		0.50		ug/L			10/21/13 18:26	1
Chloroethane	ND		2.0		ug/L			10/21/13 18:26	1
Chloroform	ND		1.0		ug/L			10/21/13 18:26	1
Chloromethane	ND		2.0		ug/L			10/21/13 18:26	1
cis-1,2-Dichloroethene	**79**		1.0		ug/L			10/21/13 18:26	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			10/21/13 18:26	1
Dichlorobromomethane	ND		0.50		ug/L			10/21/13 18:26	1
Dichlorodifluoromethane	ND		1.0		ug/L			10/21/13 18:26	1
Ethyl ether	ND		1.0		ug/L			10/21/13 18:26	1
Ethylbenzene	ND		1.0		ug/L			10/21/13 18:26	1
Ethylene Dibromide	ND		1.0		ug/L			10/21/13 18:26	1
Hexachlorobutadiene	ND		0.40		ug/L			10/21/13 18:26	1
Isopropyl ether	ND		10		ug/L			10/21/13 18:26	1
Isopropylbenzene	ND		1.0		ug/L			10/21/13 18:26	1
Methyl tert-butyl ether	ND		1.0		ug/L			10/21/13 18:26	1
Methylene Chloride	ND		1.0		ug/L			10/21/13 18:26	1
m-Xylene & p-Xylene	ND		2.0		ug/L			10/21/13 18:26	1
Naphthalene	ND		5.0		ug/L			10/21/13 18:26	1
n-Butylbenzene	ND		1.0		ug/L			10/21/13 18:26	1
N-Propylbenzene	ND		1.0		ug/L			10/21/13 18:26	1
o-Xylene	ND		1.0		ug/L			10/21/13 18:26	1
sec-Butylbenzene	ND		1.0		ug/L			10/21/13 18:26	1
Styrene	ND		1.0		ug/L			10/21/13 18:26	1
Tert-amyl methyl ether	ND		5.0		ug/L			10/21/13 18:26	1
Tert-butyl ethyl ether	ND		5.0		ug/L			10/21/13 18:26	1
tert-Butylbenzene	ND		1.0		ug/L			10/21/13 18:26	1
Tetrachloroethene	ND		1.0		ug/L			10/21/13 18:26	1
Tetrahydrofuran	ND		10		ug/L			10/21/13 18:26	1
Toluene	ND		1.0		ug/L			10/21/13 18:26	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			10/21/13 18:26	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			10/21/13 18:26	1
Trichloroethene	**2.3**		1.0		ug/L			10/21/13 18:26	1
Trichlorofluoromethane	ND		1.0		ug/L			10/21/13 18:26	1
Vinyl chloride	**7.8**		1.0		ug/L			10/21/13 18:26	1
Dibromomethane	ND		1.0		ug/L			10/21/13 18:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*100*		*70 - 130*		*10/21/13 18:26*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 130*		*10/21/13 18:26*	*1*

Client Sample ID: MW-268D-20131015-01

Lab Sample ID: 480-48091-9

Date Collected: 10/15/13 12:55

Matrix: Water

Date Received: 10/17/13 01:00

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*		*10/21/13 18:26*	*1*

Client Sample ID: MW-269Ma-201310

Lab Sample ID: 480-48091-10

Date Collected: 10/16/13 11:15

Matrix: Water

Date Received: 10/17/13 01:00

Method: 8260B SIM - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	**1.6**		1.6		ug/L			10/22/13 12:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
TBA-d9 (Surr)	*103*		*50 - 150*		*10/22/13 12:24*	*1*
Dibromofluoromethane (Surr)	*110*		*50 - 150*		*10/22/13 12:24*	*1*

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			10/21/13 18:49	1
1,1,1-Trichloroethane	ND		1.0		ug/L			10/21/13 18:49	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			10/21/13 18:49	1
1,1,2-Trichloroethane	ND		1.0		ug/L			10/21/13 18:49	1
1,1-Dichloroethane	ND		1.0		ug/L			10/21/13 18:49	1
1,1-Dichloroethene	ND		1.0		ug/L			10/21/13 18:49	1
1,1-Dichloropropene	ND		1.0		ug/L			10/21/13 18:49	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			10/21/13 18:49	1
1,2,3-Trichloropropane	ND		1.0		ug/L			10/21/13 18:49	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			10/21/13 18:49	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			10/21/13 18:49	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			10/21/13 18:49	1
1,2-Dichlorobenzene	ND		1.0		ug/L			10/21/13 18:49	1
1,2-Dichloroethane	ND		1.0		ug/L			10/21/13 18:49	1
1,2-Dichloropropane	ND		1.0		ug/L			10/21/13 18:49	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			10/21/13 18:49	1
1,3-Dichlorobenzene	ND		1.0		ug/L			10/21/13 18:49	1
1,3-Dichloropropane	ND		1.0		ug/L			10/21/13 18:49	1
1,4-Dichlorobenzene	ND		1.0		ug/L			10/21/13 18:49	1
1,4-Dioxane	ND		50		ug/L			10/21/13 18:49	1
2,2-Dichloropropane	ND		1.0		ug/L			10/21/13 18:49	1
2-Butanone (MEK)	ND	*	10		ug/L			10/21/13 18:49	1
2-Chlorotoluene	ND		1.0		ug/L			10/21/13 18:49	1
2-Hexanone	ND		10		ug/L			10/21/13 18:49	1
4-Chlorotoluene	ND		1.0		ug/L			10/21/13 18:49	1
4-Isopropyltoluene	ND		1.0		ug/L			10/21/13 18:49	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			10/21/13 18:49	1
Acetone	ND		50		ug/L			10/21/13 18:49	1
Benzene	ND		1.0		ug/L			10/21/13 18:49	1
Bromobenzene	ND		1.0		ug/L			10/21/13 18:49	1
Bromoform	ND		1.0		ug/L			10/21/13 18:49	1
Bromomethane	ND		2.0		ug/L			10/21/13 18:49	1
Carbon disulfide	ND		10		ug/L			10/21/13 18:49	1
Carbon tetrachloride	ND		1.0		ug/L			10/21/13 18:49	1

Client Sample ID: MW-269Ma-201310

Lab Sample ID: 480-48091-10

Date Collected: 10/16/13 11:15

Matrix: Water

Date Received: 10/17/13 01:00

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	ND		1.0		ug/L			10/21/13 18:49	1
Chlorobromomethane	ND		1.0		ug/L			10/21/13 18:49	1
Chlorodibromomethane	ND		0.50		ug/L			10/21/13 18:49	1
Chloroethane	ND		2.0		ug/L			10/21/13 18:49	1
Chloroform	ND		1.0		ug/L			10/21/13 18:49	1
Chloromethane	ND		2.0		ug/L			10/21/13 18:49	1
cis-1,2-Dichloroethene	**2.3**		1.0		ug/L			10/21/13 18:49	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			10/21/13 18:49	1
Dichlorobromomethane	ND		0.50		ug/L			10/21/13 18:49	1
Dichlorodifluoromethane	ND		1.0		ug/L			10/21/13 18:49	1
Ethyl ether	ND		1.0		ug/L			10/21/13 18:49	1
Ethylbenzene	ND		1.0		ug/L			10/21/13 18:49	1
Ethylene Dibromide	ND		1.0		ug/L			10/21/13 18:49	1
Hexachlorobutadiene	ND		0.40		ug/L			10/21/13 18:49	1
Isopropyl ether	ND		10		ug/L			10/21/13 18:49	1
Isopropylbenzene	ND		1.0		ug/L			10/21/13 18:49	1
Methyl tert-butyl ether	ND		1.0		ug/L			10/21/13 18:49	1
Methylene Chloride	ND		1.0		ug/L			10/21/13 18:49	1
m-Xylene & p-Xylene	ND		2.0		ug/L			10/21/13 18:49	1
Naphthalene	ND		5.0		ug/L			10/21/13 18:49	1
n-Butylbenzene	ND		1.0		ug/L			10/21/13 18:49	1
N-Propylbenzene	ND		1.0		ug/L			10/21/13 18:49	1
o-Xylene	ND		1.0		ug/L			10/21/13 18:49	1
sec-Butylbenzene	ND		1.0		ug/L			10/21/13 18:49	1
Styrene	ND		1.0		ug/L			10/21/13 18:49	1
Tert-amyl methyl ether	ND		5.0		ug/L			10/21/13 18:49	1
Tert-butyl ethyl ether	ND		5.0		ug/L			10/21/13 18:49	1
tert-Butylbenzene	ND		1.0		ug/L			10/21/13 18:49	1
Tetrachloroethene	ND		1.0		ug/L			10/21/13 18:49	1
Tetrahydrofuran	ND		10		ug/L			10/21/13 18:49	1
Toluene	ND		1.0		ug/L			10/21/13 18:49	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			10/21/13 18:49	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			10/21/13 18:49	1
Trichloroethene	**1.2**		1.0		ug/L			10/21/13 18:49	1
Trichlorofluoromethane	ND		1.0		ug/L			10/21/13 18:49	1
Vinyl chloride	ND		1.0		ug/L			10/21/13 18:49	1
Dibromomethane	ND		1.0		ug/L			10/21/13 18:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*96*		*70 - 130*		*10/21/13 18:49*	*1*
1,2-Dichloroethane-d4 (Surr)	*104*		*70 - 130*		*10/21/13 18:49*	*1*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*10/21/13 18:49*	*1*

Client Sample ID: MW-554D-201310

Lab Sample ID: 480-48091-11

Date Collected: 10/15/13 13:40

Matrix: Water

Date Received: 10/17/13 01:00

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			10/21/13 19:13	1

Client Sample ID: MW-554D-201310
Date Collected: 10/15/13 13:40
Date Received: 10/17/13 01:00

Lab Sample ID: 480-48091-11
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0		ug/L			10/21/13 19:13	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			10/21/13 19:13	1
1,1,2-Trichloroethane	ND		1.0		ug/L			10/21/13 19:13	1
1,1-Dichloroethane	ND		1.0		ug/L			10/21/13 19:13	1
1,1-Dichloroethene	ND		1.0		ug/L			10/21/13 19:13	1
1,1-Dichloropropene	ND		1.0		ug/L			10/21/13 19:13	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			10/21/13 19:13	1
1,2,3-Trichloropropane	ND		1.0		ug/L			10/21/13 19:13	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			10/21/13 19:13	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			10/21/13 19:13	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			10/21/13 19:13	1
1,2-Dichlorobenzene	ND		1.0		ug/L			10/21/13 19:13	1
1,2-Dichloroethane	ND		1.0		ug/L			10/21/13 19:13	1
1,2-Dichloropropane	ND		1.0		ug/L			10/21/13 19:13	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			10/21/13 19:13	1
1,3-Dichlorobenzene	ND		1.0		ug/L			10/21/13 19:13	1
1,3-Dichloropropane	ND		1.0		ug/L			10/21/13 19:13	1
1,4-Dichlorobenzene	ND		1.0		ug/L			10/21/13 19:13	1
1,4-Dioxane	ND		50		ug/L			10/21/13 19:13	1
2,2-Dichloropropane	ND		1.0		ug/L			10/21/13 19:13	1
2-Butanone (MEK)	ND	*	10		ug/L			10/21/13 19:13	1
2-Chlorotoluene	ND		1.0		ug/L			10/21/13 19:13	1
2-Hexanone	ND		10		ug/L			10/21/13 19:13	1
4-Chlorotoluene	ND		1.0		ug/L			10/21/13 19:13	1
4-Isopropyltoluene	ND		1.0		ug/L			10/21/13 19:13	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			10/21/13 19:13	1
Acetone	ND		50		ug/L			10/21/13 19:13	1
Benzene	ND		1.0		ug/L			10/21/13 19:13	1
Bromobenzene	ND		1.0		ug/L			10/21/13 19:13	1
Bromoform	ND		1.0		ug/L			10/21/13 19:13	1
Bromomethane	ND		2.0		ug/L			10/21/13 19:13	1
Carbon disulfide	ND		10		ug/L			10/21/13 19:13	1
Carbon tetrachloride	ND		1.0		ug/L			10/21/13 19:13	1
Chlorobenzene	ND		1.0		ug/L			10/21/13 19:13	1
Chlorobromomethane	ND		1.0		ug/L			10/21/13 19:13	1
Chlorodibromomethane	ND		0.50		ug/L			10/21/13 19:13	1
Chloroethane	ND		2.0		ug/L			10/21/13 19:13	1
Chloroform	ND		1.0		ug/L			10/21/13 19:13	1
Chloromethane	ND		2.0		ug/L			10/21/13 19:13	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			10/21/13 19:13	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			10/21/13 19:13	1
Dichlorobromomethane	ND		0.50		ug/L			10/21/13 19:13	1
Dichlorodifluoromethane	ND		1.0		ug/L			10/21/13 19:13	1
Ethyl ether	ND		1.0		ug/L			10/21/13 19:13	1
Ethylbenzene	ND		1.0		ug/L			10/21/13 19:13	1
Ethylene Dibromide	ND		1.0		ug/L			10/21/13 19:13	1
Hexachlorobutadiene	ND		0.40		ug/L			10/21/13 19:13	1
Isopropyl ether	ND		10		ug/L			10/21/13 19:13	1
Isopropylbenzene	ND		1.0		ug/L			10/21/13 19:13	1

Client Sample ID: MW-554D-201310

Lab Sample ID: 480-48091-11

Date Collected: 10/15/13 13:40

Matrix: Water

Date Received: 10/17/13 01:00

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		1.0		ug/L			10/21/13 19:13	1
Methylene Chloride	ND		1.0		ug/L			10/21/13 19:13	1
m-Xylene & p-Xylene	ND		2.0		ug/L			10/21/13 19:13	1
Naphthalene	ND		5.0		ug/L			10/21/13 19:13	1
n-Butylbenzene	ND		1.0		ug/L			10/21/13 19:13	1
N-Propylbenzene	ND		1.0		ug/L			10/21/13 19:13	1
o-Xylene	ND		1.0		ug/L			10/21/13 19:13	1
sec-Butylbenzene	ND		1.0		ug/L			10/21/13 19:13	1
Styrene	ND		1.0		ug/L			10/21/13 19:13	1
Tert-amyl methyl ether	ND		5.0		ug/L			10/21/13 19:13	1
Tert-butyl ethyl ether	ND		5.0		ug/L			10/21/13 19:13	1
tert-Butylbenzene	ND		1.0		ug/L			10/21/13 19:13	1
Tetrachloroethene	ND		1.0		ug/L			10/21/13 19:13	1
Tetrahydrofuran	ND		10		ug/L			10/21/13 19:13	1
Toluene	ND		1.0		ug/L			10/21/13 19:13	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			10/21/13 19:13	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			10/21/13 19:13	1
Trichloroethene	ND		1.0		ug/L			10/21/13 19:13	1
Trichlorofluoromethane	ND		1.0		ug/L			10/21/13 19:13	1
Vinyl chloride	ND		1.0		ug/L			10/21/13 19:13	1
Dibromomethane	ND		1.0		ug/L			10/21/13 19:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*98*		*70 - 130*		*10/21/13 19:13*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 130*		*10/21/13 19:13*	*1*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*		*10/21/13 19:13*	*1*

Client Sample ID: MW-553D-201310

Lab Sample ID: 480-48091-12

Date Collected: 10/15/13 11:55

Matrix: Water

Date Received: 10/17/13 01:00

Method: 8260B SIM - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		1.6		ug/L			10/22/13 12:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
TBA-d9 (Surr)	*107*		*50 - 150*		*10/22/13 12:48*	*1*
Dibromofluoromethane (Surr)	*110*		*50 - 150*		*10/22/13 12:48*	*1*

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			10/21/13 19:37	1
1,1,1-Trichloroethane	ND		1.0		ug/L			10/21/13 19:37	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			10/21/13 19:37	1
1,1,2-Trichloroethane	ND		1.0		ug/L			10/21/13 19:37	1
1,1-Dichloroethane	ND		1.0		ug/L			10/21/13 19:37	1
1,1-Dichloroethene	ND		1.0		ug/L			10/21/13 19:37	1
1,1-Dichloropropene	ND		1.0		ug/L			10/21/13 19:37	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			10/21/13 19:37	1
1,2,3-Trichloropropane	ND		1.0		ug/L			10/21/13 19:37	1

Client Sample ID: MW-553D-201310
Date Collected: 10/15/13 11:55
Date Received: 10/17/13 01:00

Lab Sample ID: 480-48091-12
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		1.0		ug/L			10/21/13 19:37	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			10/21/13 19:37	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			10/21/13 19:37	1
1,2-Dichlorobenzene	ND		1.0		ug/L			10/21/13 19:37	1
1,2-Dichloroethane	ND		1.0		ug/L			10/21/13 19:37	1
1,2-Dichloropropane	ND		1.0		ug/L			10/21/13 19:37	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			10/21/13 19:37	1
1,3-Dichlorobenzene	ND		1.0		ug/L			10/21/13 19:37	1
1,3-Dichloropropane	ND		1.0		ug/L			10/21/13 19:37	1
1,4-Dichlorobenzene	ND		1.0		ug/L			10/21/13 19:37	1
1,4-Dioxane	ND		50		ug/L			10/21/13 19:37	1
2,2-Dichloropropane	ND		1.0		ug/L			10/21/13 19:37	1
2-Butanone (MEK)	ND	*	10		ug/L			10/21/13 19:37	1
2-Chlorotoluene	ND		1.0		ug/L			10/21/13 19:37	1
2-Hexanone	ND		10		ug/L			10/21/13 19:37	1
4-Chlorotoluene	ND		1.0		ug/L			10/21/13 19:37	1
4-Isopropyltoluene	ND		1.0		ug/L			10/21/13 19:37	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			10/21/13 19:37	1
Acetone	ND		50		ug/L			10/21/13 19:37	1
Benzene	ND		1.0		ug/L			10/21/13 19:37	1
Bromobenzene	ND		1.0		ug/L			10/21/13 19:37	1
Bromoform	ND		1.0		ug/L			10/21/13 19:37	1
Bromomethane	ND		2.0		ug/L			10/21/13 19:37	1
Carbon disulfide	ND		10		ug/L			10/21/13 19:37	1
Carbon tetrachloride	ND		1.0		ug/L			10/21/13 19:37	1
Chlorobenzene	ND		1.0		ug/L			10/21/13 19:37	1
Chlorobromomethane	ND		1.0		ug/L			10/21/13 19:37	1
Chlorodibromomethane	ND		0.50		ug/L			10/21/13 19:37	1
Chloroethane	ND		2.0		ug/L			10/21/13 19:37	1
Chloroform	ND		1.0		ug/L			10/21/13 19:37	1
Chloromethane	ND		2.0		ug/L			10/21/13 19:37	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			10/21/13 19:37	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			10/21/13 19:37	1
Dichlorobromomethane	ND		0.50		ug/L			10/21/13 19:37	1
Dichlorodifluoromethane	ND		1.0		ug/L			10/21/13 19:37	1
Ethyl ether	ND		1.0		ug/L			10/21/13 19:37	1
Ethylbenzene	ND		1.0		ug/L			10/21/13 19:37	1
Ethylene Dibromide	ND		1.0		ug/L			10/21/13 19:37	1
Hexachlorobutadiene	ND		0.40		ug/L			10/21/13 19:37	1
Isopropyl ether	ND		10		ug/L			10/21/13 19:37	1
Isopropylbenzene	ND		1.0		ug/L			10/21/13 19:37	1
Methyl tert-butyl ether	ND		1.0		ug/L			10/21/13 19:37	1
Methylene Chloride	ND		1.0		ug/L			10/21/13 19:37	1
m-Xylene & p-Xylene	ND		2.0		ug/L			10/21/13 19:37	1
Naphthalene	ND		5.0		ug/L			10/21/13 19:37	1
n-Butylbenzene	ND		1.0		ug/L			10/21/13 19:37	1
N-Propylbenzene	ND		1.0		ug/L			10/21/13 19:37	1
o-Xylene	ND		1.0		ug/L			10/21/13 19:37	1
sec-Butylbenzene	ND		1.0		ug/L			10/21/13 19:37	1

Client Sample ID: MW-553D-201310

Lab Sample ID: 480-48091-12

Date Collected: 10/15/13 11:55

Matrix: Water

Date Received: 10/17/13 01:00

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	ND		1.0		ug/L			10/21/13 19:37	1
Tert-amyl methyl ether	ND		5.0		ug/L			10/21/13 19:37	1
Tert-butyl ethyl ether	ND		5.0		ug/L			10/21/13 19:37	1
tert-Butylbenzene	ND		1.0		ug/L			10/21/13 19:37	1
Tetrachloroethene	ND		1.0		ug/L			10/21/13 19:37	1
Tetrahydrofuran	ND		10		ug/L			10/21/13 19:37	1
Toluene	ND		1.0		ug/L			10/21/13 19:37	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			10/21/13 19:37	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			10/21/13 19:37	1
Trichloroethene	ND		1.0		ug/L			10/21/13 19:37	1
Trichlorofluoromethane	ND		1.0		ug/L			10/21/13 19:37	1
Vinyl chloride	ND		1.0		ug/L			10/21/13 19:37	1
Dibromomethane	ND		1.0		ug/L			10/21/13 19:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*99*		*70 - 130*		*10/21/13 19:37*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 130*		*10/21/13 19:37*	*1*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*		*10/21/13 19:37*	*1*

Client Sample ID: MW-556D-201310

Lab Sample ID: 480-48091-13

Date Collected: 10/15/13 13:05

Matrix: Water

Date Received: 10/17/13 01:00

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			10/21/13 20:00	1
1,1,1-Trichloroethane	ND		1.0		ug/L			10/21/13 20:00	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			10/21/13 20:00	1
1,1,2-Trichloroethane	ND		1.0		ug/L			10/21/13 20:00	1
1,1-Dichloroethane	ND		1.0		ug/L			10/21/13 20:00	1
1,1-Dichloroethene	ND		1.0		ug/L			10/21/13 20:00	1
1,1-Dichloropropene	ND		1.0		ug/L			10/21/13 20:00	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			10/21/13 20:00	1
1,2,3-Trichloropropane	ND		1.0		ug/L			10/21/13 20:00	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			10/21/13 20:00	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			10/21/13 20:00	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			10/21/13 20:00	1
1,2-Dichlorobenzene	ND		1.0		ug/L			10/21/13 20:00	1
1,2-Dichloroethane	ND		1.0		ug/L			10/21/13 20:00	1
1,2-Dichloropropane	ND		1.0		ug/L			10/21/13 20:00	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			10/21/13 20:00	1
1,3-Dichlorobenzene	ND		1.0		ug/L			10/21/13 20:00	1
1,3-Dichloropropane	ND		1.0		ug/L			10/21/13 20:00	1
1,4-Dichlorobenzene	ND		1.0		ug/L			10/21/13 20:00	1
1,4-Dioxane	ND		50		ug/L			10/21/13 20:00	1
2,2-Dichloropropane	ND		1.0		ug/L			10/21/13 20:00	1
2-Butanone (MEK)	ND	*	10		ug/L			10/21/13 20:00	1
2-Chlorotoluene	ND		1.0		ug/L			10/21/13 20:00	1
2-Hexanone	ND		10		ug/L			10/21/13 20:00	1
4-Chlorotoluene	ND		1.0		ug/L			10/21/13 20:00	1

Client Sample ID: MW-556D-201310

Lab Sample ID: 480-48091-13

Date Collected: 10/15/13 13:05

Matrix: Water

Date Received: 10/17/13 01:00

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Isopropyltoluene	ND		1.0		ug/L			10/21/13 20:00	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			10/21/13 20:00	1
Acetone	ND		50		ug/L			10/21/13 20:00	1
Benzene	ND		1.0		ug/L			10/21/13 20:00	1
Bromobenzene	ND		1.0		ug/L			10/21/13 20:00	1
Bromoform	ND		1.0		ug/L			10/21/13 20:00	1
Bromomethane	ND		2.0		ug/L			10/21/13 20:00	1
Carbon disulfide	ND		10		ug/L			10/21/13 20:00	1
Carbon tetrachloride	ND		1.0		ug/L			10/21/13 20:00	1
Chlorobenzene	ND		1.0		ug/L			10/21/13 20:00	1
Chlorobromomethane	ND		1.0		ug/L			10/21/13 20:00	1
Chlorodibromomethane	ND		0.50		ug/L			10/21/13 20:00	1
Chloroethane	ND		2.0		ug/L			10/21/13 20:00	1
Chloroform	ND		1.0		ug/L			10/21/13 20:00	1
Chloromethane	ND		2.0		ug/L			10/21/13 20:00	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			10/21/13 20:00	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			10/21/13 20:00	1
Dichlorobromomethane	ND		0.50		ug/L			10/21/13 20:00	1
Dichlorodifluoromethane	ND		1.0		ug/L			10/21/13 20:00	1
Ethyl ether	ND		1.0		ug/L			10/21/13 20:00	1
Ethylbenzene	ND		1.0		ug/L			10/21/13 20:00	1
Ethylene Dibromide	ND		1.0		ug/L			10/21/13 20:00	1
Hexachlorobutadiene	ND		0.40		ug/L			10/21/13 20:00	1
Isopropyl ether	ND		10		ug/L			10/21/13 20:00	1
Isopropylbenzene	ND		1.0		ug/L			10/21/13 20:00	1
Methyl tert-butyl ether	ND		1.0		ug/L			10/21/13 20:00	1
Methylene Chloride	ND		1.0		ug/L			10/21/13 20:00	1
m-Xylene & p-Xylene	ND		2.0		ug/L			10/21/13 20:00	1
Naphthalene	ND		5.0		ug/L			10/21/13 20:00	1
n-Butylbenzene	ND		1.0		ug/L			10/21/13 20:00	1
N-Propylbenzene	ND		1.0		ug/L			10/21/13 20:00	1
o-Xylene	ND		1.0		ug/L			10/21/13 20:00	1
sec-Butylbenzene	ND		1.0		ug/L			10/21/13 20:00	1
Styrene	ND		1.0		ug/L			10/21/13 20:00	1
Tert-amyl methyl ether	ND		5.0		ug/L			10/21/13 20:00	1
Tert-butyl ethyl ether	ND		5.0		ug/L			10/21/13 20:00	1
tert-Butylbenzene	ND		1.0		ug/L			10/21/13 20:00	1
Tetrachloroethene	ND		1.0		ug/L			10/21/13 20:00	1
Tetrahydrofuran	ND		10		ug/L			10/21/13 20:00	1
Toluene	ND		1.0		ug/L			10/21/13 20:00	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			10/21/13 20:00	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			10/21/13 20:00	1
Trichloroethene	ND		1.0		ug/L			10/21/13 20:00	1
Trichlorofluoromethane	ND		1.0		ug/L			10/21/13 20:00	1
Vinyl chloride	ND		1.0		ug/L			10/21/13 20:00	1
Dibromomethane	ND		1.0		ug/L			10/21/13 20:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*98*		*70 - 130*		*10/21/13 20:00*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 130*		*10/21/13 20:00*	*1*

Client Sample ID: MW-556D-201310

Lab Sample ID: 480-48091-13

Date Collected: 10/15/13 13:05

Matrix: Water

Date Received: 10/17/13 01:00

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*		*10/21/13 20:00*	*1*

Client Sample ID: DupX4-20131015-01

Lab Sample ID: 480-48091-14

Date Collected: 10/15/13 00:00

Matrix: Water

Date Received: 10/17/13 01:00

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			10/22/13 00:16	1
1,1,1-Trichloroethane	ND		1.0		ug/L			10/22/13 00:16	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			10/22/13 00:16	1
1,1,2-Trichloroethane	ND		1.0		ug/L			10/22/13 00:16	1
1,1-Dichloroethane	ND		1.0		ug/L			10/22/13 00:16	1
1,1-Dichloroethene	ND		1.0		ug/L			10/22/13 00:16	1
1,1-Dichloropropene	ND		1.0		ug/L			10/22/13 00:16	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			10/22/13 00:16	1
1,2,3-Trichloropropane	ND		1.0		ug/L			10/22/13 00:16	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			10/22/13 00:16	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			10/22/13 00:16	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			10/22/13 00:16	1
1,2-Dichlorobenzene	ND		1.0		ug/L			10/22/13 00:16	1
1,2-Dichloroethane	ND		1.0		ug/L			10/22/13 00:16	1
1,2-Dichloropropane	ND		1.0		ug/L			10/22/13 00:16	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			10/22/13 00:16	1
1,3-Dichlorobenzene	ND		1.0		ug/L			10/22/13 00:16	1
1,3-Dichloropropane	ND		1.0		ug/L			10/22/13 00:16	1
1,4-Dichlorobenzene	ND		1.0		ug/L			10/22/13 00:16	1
1,4-Dioxane	ND		50		ug/L			10/22/13 00:16	1
2,2-Dichloropropane	ND		1.0		ug/L			10/22/13 00:16	1
2-Butanone (MEK)	ND	*	10		ug/L			10/22/13 00:16	1
2-Chlorotoluene	ND		1.0		ug/L			10/22/13 00:16	1
2-Hexanone	ND		10		ug/L			10/22/13 00:16	1
4-Chlorotoluene	ND		1.0		ug/L			10/22/13 00:16	1
4-Isopropyltoluene	ND		1.0		ug/L			10/22/13 00:16	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			10/22/13 00:16	1
Acetone	ND		50		ug/L			10/22/13 00:16	1
Benzene	ND		1.0		ug/L			10/22/13 00:16	1
Bromobenzene	ND		1.0		ug/L			10/22/13 00:16	1
Bromoform	ND		1.0		ug/L			10/22/13 00:16	1
Bromomethane	ND		2.0		ug/L			10/22/13 00:16	1
Carbon disulfide	ND		10		ug/L			10/22/13 00:16	1
Carbon tetrachloride	ND		1.0		ug/L			10/22/13 00:16	1
Chlorobenzene	ND		1.0		ug/L			10/22/13 00:16	1
Chlorobromomethane	ND		1.0		ug/L			10/22/13 00:16	1
Chlorodibromomethane	ND		0.50		ug/L			10/22/13 00:16	1
Chloroethane	ND		2.0		ug/L			10/22/13 00:16	1
Chloroform	ND		1.0		ug/L			10/22/13 00:16	1
Chloromethane	ND		2.0		ug/L			10/22/13 00:16	1
cis-1,2-Dichloroethene	**58**		1.0		ug/L			10/22/13 00:16	1

Client Sample ID: DupX4-20131015-01

Lab Sample ID: 480-48091-14

Date Collected: 10/15/13 00:00

Matrix: Water

Date Received: 10/17/13 01:00

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND		0.40		ug/L			10/22/13 00:16	1
Dichlorobromomethane	ND		0.50		ug/L			10/22/13 00:16	1
Dichlorodifluoromethane	ND		1.0		ug/L			10/22/13 00:16	1
Ethyl ether	ND		1.0		ug/L			10/22/13 00:16	1
Ethylbenzene	ND		1.0		ug/L			10/22/13 00:16	1
Ethylene Dibromide	ND		1.0		ug/L			10/22/13 00:16	1
Hexachlorobutadiene	ND		0.40		ug/L			10/22/13 00:16	1
Isopropyl ether	ND		10		ug/L			10/22/13 00:16	1
Isopropylbenzene	ND		1.0		ug/L			10/22/13 00:16	1
Methyl tert-butyl ether	ND		1.0		ug/L			10/22/13 00:16	1
Methylene Chloride	ND		1.0		ug/L			10/22/13 00:16	1
m-Xylene & p-Xylene	ND		2.0		ug/L			10/22/13 00:16	1
Naphthalene	ND		5.0		ug/L			10/22/13 00:16	1
n-Butylbenzene	ND		1.0		ug/L			10/22/13 00:16	1
N-Propylbenzene	ND		1.0		ug/L			10/22/13 00:16	1
o-Xylene	ND		1.0		ug/L			10/22/13 00:16	1
sec-Butylbenzene	ND		1.0		ug/L			10/22/13 00:16	1
Styrene	ND		1.0		ug/L			10/22/13 00:16	1
Tert-amyl methyl ether	ND		5.0		ug/L			10/22/13 00:16	1
Tert-butyl ethyl ether	ND		5.0		ug/L			10/22/13 00:16	1
tert-Butylbenzene	ND		1.0		ug/L			10/22/13 00:16	1
Tetrachloroethene	**11**		1.0		ug/L			10/22/13 00:16	1
Tetrahydrofuran	ND		10		ug/L			10/22/13 00:16	1
Toluene	ND		1.0		ug/L			10/22/13 00:16	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			10/22/13 00:16	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			10/22/13 00:16	1
Trichloroethene	**42**		1.0		ug/L			10/22/13 00:16	1
Trichlorofluoromethane	ND		1.0		ug/L			10/22/13 00:16	1
Vinyl chloride	**54**		1.0		ug/L			10/22/13 00:16	1
Dibromomethane	ND		1.0		ug/L			10/22/13 00:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*98*		*70 - 130*		*10/22/13 00:16*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 130*		*10/22/13 00:16*	*1*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*10/22/13 00:16*	*1*

Client Sample ID: Trip Blank

Lab Sample ID: 480-48091-15

Date Collected: 10/15/13 00:00

Matrix: Water

Date Received: 10/17/13 01:00

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			10/22/13 00:39	1
1,1,1-Trichloroethane	ND		1.0		ug/L			10/22/13 00:39	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			10/22/13 00:39	1
1,1,2-Trichloroethane	ND		1.0		ug/L			10/22/13 00:39	1
1,1-Dichloroethane	ND		1.0		ug/L			10/22/13 00:39	1
1,1-Dichloroethene	ND		1.0		ug/L			10/22/13 00:39	1
1,1-Dichloropropene	ND		1.0		ug/L			10/22/13 00:39	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			10/22/13 00:39	1

Client Sample ID: Trip Blank

Lab Sample ID: 480-48091-15

Date Collected: 10/15/13 00:00

Matrix: Water

Date Received: 10/17/13 01:00

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		1.0		ug/L			10/22/13 00:39	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			10/22/13 00:39	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			10/22/13 00:39	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			10/22/13 00:39	1
1,2-Dichlorobenzene	ND		1.0		ug/L			10/22/13 00:39	1
1,2-Dichloroethane	ND		1.0		ug/L			10/22/13 00:39	1
1,2-Dichloropropane	ND		1.0		ug/L			10/22/13 00:39	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			10/22/13 00:39	1
1,3-Dichlorobenzene	ND		1.0		ug/L			10/22/13 00:39	1
1,3-Dichloropropane	ND		1.0		ug/L			10/22/13 00:39	1
1,4-Dichlorobenzene	ND		1.0		ug/L			10/22/13 00:39	1
1,4-Dioxane	ND		50		ug/L			10/22/13 00:39	1
2,2-Dichloropropane	ND		1.0		ug/L			10/22/13 00:39	1
2-Butanone (MEK)	ND	*	10		ug/L			10/22/13 00:39	1
2-Chlorotoluene	ND		1.0		ug/L			10/22/13 00:39	1
2-Hexanone	ND		10		ug/L			10/22/13 00:39	1
4-Chlorotoluene	ND		1.0		ug/L			10/22/13 00:39	1
4-Isopropyltoluene	ND		1.0		ug/L			10/22/13 00:39	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			10/22/13 00:39	1
Acetone	ND		50		ug/L			10/22/13 00:39	1
Benzene	ND		1.0		ug/L			10/22/13 00:39	1
Bromobenzene	ND		1.0		ug/L			10/22/13 00:39	1
Bromoform	ND		1.0		ug/L			10/22/13 00:39	1
Bromomethane	ND		2.0		ug/L			10/22/13 00:39	1
Carbon disulfide	ND		10		ug/L			10/22/13 00:39	1
Carbon tetrachloride	ND		1.0		ug/L			10/22/13 00:39	1
Chlorobenzene	ND		1.0		ug/L			10/22/13 00:39	1
Chlorobromomethane	ND		1.0		ug/L			10/22/13 00:39	1
Chlorodibromomethane	ND		0.50		ug/L			10/22/13 00:39	1
Chloroethane	ND		2.0		ug/L			10/22/13 00:39	1
Chloroform	ND		1.0		ug/L			10/22/13 00:39	1
Chloromethane	ND		2.0		ug/L			10/22/13 00:39	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			10/22/13 00:39	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			10/22/13 00:39	1
Dichlorobromomethane	ND		0.50		ug/L			10/22/13 00:39	1
Dichlorodifluoromethane	ND		1.0		ug/L			10/22/13 00:39	1
Ethyl ether	ND		1.0		ug/L			10/22/13 00:39	1
Ethylbenzene	ND		1.0		ug/L			10/22/13 00:39	1
Ethylene Dibromide	ND		1.0		ug/L			10/22/13 00:39	1
Hexachlorobutadiene	ND		0.40		ug/L			10/22/13 00:39	1
Isopropyl ether	ND		10		ug/L			10/22/13 00:39	1
Isopropylbenzene	ND		1.0		ug/L			10/22/13 00:39	1
Methyl tert-butyl ether	ND		1.0		ug/L			10/22/13 00:39	1
Methylene Chloride	ND		1.0		ug/L			10/22/13 00:39	1
m-Xylene & p-Xylene	ND		2.0		ug/L			10/22/13 00:39	1
Naphthalene	ND		5.0		ug/L			10/22/13 00:39	1
n-Butylbenzene	ND		1.0		ug/L			10/22/13 00:39	1
N-Propylbenzene	ND		1.0		ug/L			10/22/13 00:39	1
o-Xylene	ND		1.0		ug/L			10/22/13 00:39	1

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-48091-1

Client Sample ID: Trip Blank

Lab Sample ID: 480-48091-15

Date Collected: 10/15/13 00:00

Matrix: Water

Date Received: 10/17/13 01:00

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		1.0		ug/L			10/22/13 00:39	1
Styrene	ND		1.0		ug/L			10/22/13 00:39	1
Tert-amyl methyl ether	ND		5.0		ug/L			10/22/13 00:39	1
Tert-butyl ethyl ether	ND		5.0		ug/L			10/22/13 00:39	1
tert-Butylbenzene	ND		1.0		ug/L			10/22/13 00:39	1
Tetrachloroethene	ND		1.0		ug/L			10/22/13 00:39	1
Tetrahydrofuran	ND		10		ug/L			10/22/13 00:39	1
Toluene	ND		1.0		ug/L			10/22/13 00:39	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			10/22/13 00:39	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			10/22/13 00:39	1
Trichloroethene	ND		1.0		ug/L			10/22/13 00:39	1
Trichlorofluoromethane	ND		1.0		ug/L			10/22/13 00:39	1
Vinyl chloride	ND		1.0		ug/L			10/22/13 00:39	1
Dibromomethane	ND		1.0		ug/L			10/22/13 00:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*97*		*70 - 130*		*10/22/13 00:39*	*1*
1,2-Dichloroethane-d4 (Surr)	*97*		*70 - 130*		*10/22/13 00:39*	*1*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*		*10/22/13 00:39*	*1*

Surrogate Summary

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-48091-1

Method: 8260B SIM - Volatile Organic Compounds (GC/MS)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	BA-d9 (Sur (50-150)	DBFM (50-150)						
480-48091-7	MW-266Ma-20131015-01	99	110						
480-48091-10	MW-269Ma-201310	103	110						
480-48091-12	MW-553D-201310	107	110						
LCS 480-146550/5	Lab Control Sample	111	109						
LCSD 480-146550/6	Lab Control Sample Dup	111	108						
MB 480-146550/7	Method Blank	107	106						

Surrogate Legend

TBA-d9 (Surr) = TBA-d9 (Surr)

DBFM = Dibromofluoromethane (Surr)

Method: 8260C - Volatile Organic Compounds (GC/MS)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	TOL (70-130)	12DCE (70-130)	BFB (70-130)					
480-48091-1	DEP-19M-201310	96	102	97					
480-48091-2	DEP-21-201310	97	102	99					
480-48091-3	MW-263M-201310	98	101	98					
480-48091-4	MW-264M-20131015-01	97	101	97					
480-48091-5	MW-265S-20131015-01	96	100	97					
480-48091-6	MW-265D-20131015-01	99	100	100					
480-48091-7	MW-266Ma-20131015-01	97	100	95					
480-48091-8	MW-266Mb-20131015-01	100	102	97					
480-48091-9	MW-268D-20131015-01	100	100	98					
480-48091-10	MW-269Ma-201310	96	104	99					
480-48091-11	MW-554D-201310	98	102	97					
480-48091-12	MW-553D-201310	99	103	96					
480-48091-13	MW-556D-201310	98	102	96					
480-48091-14	DupX4-20131015-01	98	101	99					
480-48091-15	Trip Blank	97	97	97					
LCS 480-146250/5	Lab Control Sample	102	99	105					
LCS 480-146450/4	Lab Control Sample	100	104	100					
LCSD 480-146250/6	Lab Control Sample Dup	99	100	101					
LCSD 480-146450/5	Lab Control Sample Dup	98	100	98					
MB 480-146250/8	Method Blank	97	102	95					
MB 480-146450/7	Method Blank	98	102	99					

Surrogate Legend

TOL = Toluene-d8 (Surr)

12DCE = 1,2-Dichloroethane-d4 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

Method: 8260B SIM - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-146550/7 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 146550

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		1.6		ug/L			10/22/13 11:27	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
TBA-d9 (Surr)	*107*		*50 - 150*		*10/22/13 11:27*	*1*
Dibromofluoromethane (Surr)	*106*		*50 - 150*		*10/22/13 11:27*	*1*

Lab Sample ID: LCS 480-146550/5 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 146550

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dioxane	16.0	15.3		ug/L		96	50 - 150

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
TBA-d9 (Surr)	*111*		*50 - 150*
Dibromofluoromethane (Surr)	*109*		*50 - 150*

Lab Sample ID: LCSD 480-146550/6 — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 146550

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,4-Dioxane	16.0	15.5		ug/L		97	50 - 150	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
TBA-d9 (Surr)	*111*		*50 - 150*
Dibromofluoromethane (Surr)	*108*		*50 - 150*

Method: 8260C - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-146250/8 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 146250

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			10/21/13 11:54	1
1,1,1-Trichloroethane	ND		1.0		ug/L			10/21/13 11:54	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			10/21/13 11:54	1
1,1,2-Trichloroethane	ND		1.0		ug/L			10/21/13 11:54	1
1,1-Dichloroethane	ND		1.0		ug/L			10/21/13 11:54	1
1,1-Dichloroethene	ND		1.0		ug/L			10/21/13 11:54	1
1,1-Dichloropropene	ND		1.0		ug/L			10/21/13 11:54	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			10/21/13 11:54	1
1,2,3-Trichloropropane	ND		1.0		ug/L			10/21/13 11:54	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			10/21/13 11:54	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			10/21/13 11:54	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			10/21/13 11:54	1

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-146250/8
Matrix: Water
Analysis Batch: 146250

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	ND		1.0		ug/L			10/21/13 11:54	1
1,2-Dichloroethane	ND		1.0		ug/L			10/21/13 11:54	1
1,2-Dichloropropane	ND		1.0		ug/L			10/21/13 11:54	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			10/21/13 11:54	1
1,3-Dichlorobenzene	ND		1.0		ug/L			10/21/13 11:54	1
1,3-Dichloropropane	ND		1.0		ug/L			10/21/13 11:54	1
1,4-Dichlorobenzene	ND		1.0		ug/L			10/21/13 11:54	1
1,4-Dioxane	ND		50		ug/L			10/21/13 11:54	1
2,2-Dichloropropane	ND		1.0		ug/L			10/21/13 11:54	1
2-Butanone (MEK)	ND		10		ug/L			10/21/13 11:54	1
2-Chlorotoluene	ND		1.0		ug/L			10/21/13 11:54	1
2-Hexanone	ND		10		ug/L			10/21/13 11:54	1
4-Chlorotoluene	ND		1.0		ug/L			10/21/13 11:54	1
4-Isopropyltoluene	ND		1.0		ug/L			10/21/13 11:54	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			10/21/13 11:54	1
Acetone	ND		50		ug/L			10/21/13 11:54	1
Benzene	ND		1.0		ug/L			10/21/13 11:54	1
Bromobenzene	ND		1.0		ug/L			10/21/13 11:54	1
Bromoform	ND		1.0		ug/L			10/21/13 11:54	1
Bromomethane	ND		2.0		ug/L			10/21/13 11:54	1
Carbon disulfide	ND		10		ug/L			10/21/13 11:54	1
Carbon tetrachloride	ND		1.0		ug/L			10/21/13 11:54	1
Chlorobenzene	ND		1.0		ug/L			10/21/13 11:54	1
Chlorobromomethane	ND		1.0		ug/L			10/21/13 11:54	1
Chlorodibromomethane	ND		0.50		ug/L			10/21/13 11:54	1
Chloroethane	ND		2.0		ug/L			10/21/13 11:54	1
Chloroform	ND		1.0		ug/L			10/21/13 11:54	1
Chloromethane	ND		2.0		ug/L			10/21/13 11:54	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			10/21/13 11:54	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			10/21/13 11:54	1
Dichlorobromomethane	ND		0.50		ug/L			10/21/13 11:54	1
Dichlorodifluoromethane	ND		1.0		ug/L			10/21/13 11:54	1
Ethyl ether	ND		1.0		ug/L			10/21/13 11:54	1
Ethylbenzene	ND		1.0		ug/L			10/21/13 11:54	1
Ethylene Dibromide	ND		1.0		ug/L			10/21/13 11:54	1
Hexachlorobutadiene	ND		0.40		ug/L			10/21/13 11:54	1
Isopropyl ether	ND		10		ug/L			10/21/13 11:54	1
Isopropylbenzene	ND		1.0		ug/L			10/21/13 11:54	1
Methyl tert-butyl ether	ND		1.0		ug/L			10/21/13 11:54	1
Methylene Chloride	ND		1.0		ug/L			10/21/13 11:54	1
m-Xylene & p-Xylene	ND		2.0		ug/L			10/21/13 11:54	1
Naphthalene	ND		5.0		ug/L			10/21/13 11:54	1
n-Butylbenzene	ND		1.0		ug/L			10/21/13 11:54	1
N-Propylbenzene	ND		1.0		ug/L			10/21/13 11:54	1
o-Xylene	ND		1.0		ug/L			10/21/13 11:54	1
sec-Butylbenzene	ND		1.0		ug/L			10/21/13 11:54	1
Styrene	ND		1.0		ug/L			10/21/13 11:54	1
Tert-amyl methyl ether	ND		5.0		ug/L			10/21/13 11:54	1

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-146250/8
Matrix: Water
Analysis Batch: 146250

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tert-butyl ethyl ether	ND		5.0		ug/L			10/21/13 11:54	1
tert-Butylbenzene	ND		1.0		ug/L			10/21/13 11:54	1
Tetrachloroethene	ND		1.0		ug/L			10/21/13 11:54	1
Tetrahydrofuran	ND		10		ug/L			10/21/13 11:54	1
Toluene	ND		1.0		ug/L			10/21/13 11:54	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			10/21/13 11:54	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			10/21/13 11:54	1
Trichloroethene	ND		1.0		ug/L			10/21/13 11:54	1
Trichlorofluoromethane	ND		1.0		ug/L			10/21/13 11:54	1
Vinyl chloride	ND		1.0		ug/L			10/21/13 11:54	1
Dibromomethane	ND		1.0		ug/L			10/21/13 11:54	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*97*		*70 - 130*		*10/21/13 11:54*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 130*		*10/21/13 11:54*	*1*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*		*10/21/13 11:54*	*1*

Lab Sample ID: LCS 480-146250/5
Matrix: Water
Analysis Batch: 146250

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	25.0	27.5		ug/L		110	70 - 130
1,1,1-Trichloroethane	25.0	25.0		ug/L		100	70 - 130
1,1,2,2-Tetrachloroethane	25.0	24.2		ug/L		97	70 - 130
1,1,2-Trichloroethane	25.0	24.6		ug/L		98	70 - 130
1,1-Dichloroethane	25.0	24.2		ug/L		97	70 - 130
1,1-Dichloroethene	25.0	22.6		ug/L		90	70 - 130
1,1-Dichloropropene	25.0	25.3		ug/L		101	70 - 130
1,2,3-Trichlorobenzene	25.0	25.5		ug/L		102	70 - 130
1,2,3-Trichloropropane	25.0	24.1		ug/L		97	70 - 130
1,2,4-Trichlorobenzene	25.0	25.5		ug/L		102	70 - 130
1,2,4-Trimethylbenzene	25.0	25.2		ug/L		101	70 - 130
1,2-Dibromo-3-Chloropropane	25.0	25.3		ug/L		101	70 - 130
1,2-Dichlorobenzene	25.0	24.9		ug/L		100	70 - 130
1,2-Dichloroethane	25.0	24.9		ug/L		100	70 - 130
1,2-Dichloropropane	25.0	24.1		ug/L		96	70 - 130
1,3,5-Trimethylbenzene	25.0	25.1		ug/L		100	70 - 130
1,3-Dichlorobenzene	25.0	25.4		ug/L		102	70 - 130
1,3-Dichloropropane	25.0	24.9		ug/L		99	70 - 130
1,4-Dichlorobenzene	25.0	24.9		ug/L		99	70 - 130
1,4-Dioxane	1000	833		ug/L		83	70 - 130
2,2-Dichloropropane	25.0	24.6		ug/L		99	70 - 130
2-Butanone (MEK)	125	165	*	ug/L		132	70 - 130
2-Chlorotoluene	25.0	25.6		ug/L		102	70 - 130
2-Hexanone	125	125		ug/L		100	70 - 130
4-Chlorotoluene	25.0	24.5		ug/L		98	70 - 130
4-Isopropyltoluene	25.0	25.0		ug/L		100	70 - 130

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-146250/5
Matrix: Water
Analysis Batch: 146250

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Methyl-2-pentanone (MIBK)	125	123		ug/L		99	70 - 130
Acetone	125	122		ug/L		98	70 - 130
Benzene	25.0	24.3		ug/L		97	70 - 130
Bromobenzene	25.0	25.0		ug/L		100	70 - 130
Bromoform	25.0	25.1		ug/L		101	70 - 130
Bromomethane	25.0	27.0		ug/L		108	70 - 130
Carbon disulfide	25.0	23.4		ug/L		94	70 - 130
Carbon tetrachloride	25.0	25.3		ug/L		101	70 - 130
Chlorobenzene	25.0	26.2		ug/L		105	70 - 130
Chlorobromomethane	25.0	25.1		ug/L		100	70 - 130
Chlorodibromomethane	25.0	26.2		ug/L		105	70 - 130
Chloroethane	25.0	25.8		ug/L		103	70 - 130
Chloroform	25.0	25.0		ug/L		100	70 - 130
Chloromethane	25.0	22.4		ug/L		90	70 - 130
cis-1,2-Dichloroethene	25.0	24.5		ug/L		98	70 - 130
cis-1,3-Dichloropropene	25.0	25.0		ug/L		100	70 - 130
Dichlorobromomethane	25.0	25.6		ug/L		102	70 - 130
Dichlorodifluoromethane	50.0	52.4		ug/L		105	70 - 130
Ethyl ether	25.0	24.3		ug/L		97	70 - 130
Ethylbenzene	25.0	25.7		ug/L		103	70 - 130
Ethylene Dibromide	25.0	25.6		ug/L		102	70 - 130
Hexachlorobutadiene	25.0	27.6		ug/L		110	70 - 130
Isopropyl ether	25.0	25.4		ug/L		101	70 - 130
Isopropylbenzene	25.0	24.7		ug/L		99	70 - 130
Methyl tert-butyl ether	25.0	24.6		ug/L		98	70 - 130
Methylene Chloride	25.0	24.6		ug/L		98	70 - 130
m-Xylene & p-Xylene	50.0	52.5		ug/L		105	70 - 130
Naphthalene	25.0	25.4		ug/L		102	70 - 130
n-Butylbenzene	25.0	25.5		ug/L		102	70 - 130
N-Propylbenzene	25.0	24.7		ug/L		99	70 - 130
o-Xylene	25.0	26.0		ug/L		104	70 - 130
sec-Butylbenzene	25.0	25.4		ug/L		102	70 - 130
Styrene	25.0	26.0		ug/L		104	70 - 130
Tert-amyl methyl ether	25.0	24.1		ug/L		97	70 - 130
Tert-butyl ethyl ether	25.0	24.3		ug/L		97	70 - 130
tert-Butylbenzene	25.0	25.0		ug/L		100	70 - 130
Tetrachloroethene	25.0	26.9		ug/L		108	70 - 130
Tetrahydrofuran	125	114		ug/L		91	70 - 130
Toluene	25.0	25.7		ug/L		103	70 - 130
trans-1,2-Dichloroethene	25.0	25.1		ug/L		101	70 - 130
trans-1,3-Dichloropropene	25.0	25.6		ug/L		103	70 - 130
Trichloroethene	25.0	25.7		ug/L		103	70 - 130
Trichlorofluoromethane	25.0	27.0		ug/L		108	70 - 130
Vinyl chloride	25.0	24.8		ug/L		99	70 - 130
Dibromomethane	25.0	25.2		ug/L		101	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*102*		*70 - 130*

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-146250/5
Matrix: Water
Analysis Batch: 146250

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*

Lab Sample ID: LCSD 480-146250/6
Matrix: Water
Analysis Batch: 146250

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	25.0	26.3		ug/L		105	70 - 130	4	20
1,1,1-Trichloroethane	25.0	24.3		ug/L		97	70 - 130	3	20
1,1,2,2-Tetrachloroethane	25.0	23.9		ug/L		96	70 - 130	1	20
1,1,2-Trichloroethane	25.0	24.2		ug/L		97	70 - 130	2	20
1,1-Dichloroethane	25.0	24.2		ug/L		97	70 - 130	0	20
1,1-Dichloroethene	25.0	23.2		ug/L		93	70 - 130	2	20
1,1-Dichloropropene	25.0	24.2		ug/L		97	70 - 130	4	20
1,2,3-Trichlorobenzene	25.0	25.1		ug/L		100	70 - 130	1	20
1,2,3-Trichloropropane	25.0	24.0		ug/L		96	70 - 130	1	20
1,2,4-Trichlorobenzene	25.0	25.1		ug/L		101	70 - 130	1	20
1,2,4-Trimethylbenzene	25.0	24.4		ug/L		97	70 - 130	3	20
1,2-Dibromo-3-Chloropropane	25.0	25.2		ug/L		101	70 - 130	0	20
1,2-Dichlorobenzene	25.0	24.1		ug/L		97	70 - 130	3	20
1,2-Dichloroethane	25.0	23.8		ug/L		95	70 - 130	4	20
1,2-Dichloropropane	25.0	23.4		ug/L		94	70 - 130	3	20
1,3,5-Trimethylbenzene	25.0	24.2		ug/L		97	70 - 130	4	20
1,3-Dichlorobenzene	25.0	23.9		ug/L		95	70 - 130	6	20
1,3-Dichloropropane	25.0	23.3		ug/L		93	70 - 130	7	20
1,4-Dichlorobenzene	25.0	24.5		ug/L		98	70 - 130	2	20
1,4-Dioxane	1000	901		ug/L		90	70 - 130	8	20
2,2-Dichloropropane	25.0	23.2		ug/L		93	70 - 130	6	20
2-Butanone (MEK)	125	163		ug/L		130	70 - 130	1	20
2-Chlorotoluene	25.0	24.0		ug/L		96	70 - 130	7	20
2-Hexanone	125	121		ug/L		97	70 - 130	4	20
4-Chlorotoluene	25.0	24.0		ug/L		96	70 - 130	2	20
4-Isopropyltoluene	25.0	24.3		ug/L		97	70 - 130	3	20
4-Methyl-2-pentanone (MIBK)	125	118		ug/L		94	70 - 130	5	20
Acetone	125	121		ug/L		97	70 - 130	1	20
Benzene	25.0	23.8		ug/L		95	70 - 130	2	20
Bromobenzene	25.0	24.3		ug/L		97	70 - 130	3	20
Bromoform	25.0	23.2		ug/L		93	70 - 130	8	20
Bromomethane	25.0	25.1		ug/L		100	70 - 130	7	20
Carbon disulfide	25.0	22.5		ug/L		90	70 - 130	4	20
Carbon tetrachloride	25.0	24.5		ug/L		98	70 - 130	3	20
Chlorobenzene	25.0	24.5		ug/L		98	70 - 130	7	20
Chlorobromomethane	25.0	24.6		ug/L		98	70 - 130	2	20
Chlorodibromomethane	25.0	25.1		ug/L		100	70 - 130	4	20
Chloroethane	25.0	23.9		ug/L		96	70 - 130	8	20
Chloroform	25.0	23.8		ug/L		95	70 - 130	5	20
Chloromethane	25.0	22.0		ug/L		88	70 - 130	2	20

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 480-146250/6
Matrix: Water
Analysis Batch: 146250

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
cis-1,2-Dichloroethene	25.0	23.9		ug/L		95	70 - 130	3	20
cis-1,3-Dichloropropene	25.0	24.3		ug/L		97	70 - 130	3	20
Dichlorobromomethane	25.0	25.0		ug/L		100	70 - 130	2	20
Dichlorodifluoromethane	50.0	51.6		ug/L		103	70 - 130	2	20
Ethyl ether	25.0	23.8		ug/L		95	70 - 130	2	20
Ethylbenzene	25.0	24.2		ug/L		97	70 - 130	6	20
Ethylene Dibromide	25.0	23.5		ug/L		94	70 - 130	8	20
Hexachlorobutadiene	25.0	25.9		ug/L		104	70 - 130	6	20
Isopropyl ether	25.0	24.6		ug/L		99	70 - 130	3	20
Isopropylbenzene	25.0	24.2		ug/L		97	70 - 130	2	20
Methyl tert-butyl ether	25.0	24.6		ug/L		99	70 - 130	0	20
Methylene Chloride	25.0	24.8		ug/L		99	70 - 130	1	20
m-Xylene & p-Xylene	50.0	49.2		ug/L		98	70 - 130	7	20
Naphthalene	25.0	24.8		ug/L		99	70 - 130	2	20
n-Butylbenzene	25.0	24.4		ug/L		98	70 - 130	5	20
N-Propylbenzene	25.0	24.2		ug/L		97	70 - 130	2	20
o-Xylene	25.0	24.2		ug/L		97	70 - 130	7	20
sec-Butylbenzene	25.0	24.1		ug/L		97	70 - 130	5	20
Styrene	25.0	24.3		ug/L		97	70 - 130	7	20
Tert-amyl methyl ether	25.0	24.0		ug/L		96	70 - 130	1	20
Tert-butyl ethyl ether	25.0	24.3		ug/L		97	70 - 130	0	20
tert-Butylbenzene	25.0	24.5		ug/L		98	70 - 130	2	20
Tetrachloroethene	25.0	26.0		ug/L		104	70 - 130	3	20
Tetrahydrofuran	125	114		ug/L		91	70 - 130	1	20
Toluene	25.0	23.7		ug/L		95	70 - 130	8	20
trans-1,2-Dichloroethene	25.0	24.4		ug/L		98	70 - 130	3	20
trans-1,3-Dichloropropene	25.0	24.4		ug/L		98	70 - 130	5	20
Trichloroethene	25.0	24.1		ug/L		96	70 - 130	7	20
Trichlorofluoromethane	25.0	26.2		ug/L		105	70 - 130	3	20
Vinyl chloride	25.0	23.7		ug/L		95	70 - 130	5	20
Dibromomethane	25.0	24.6		ug/L		98	70 - 130	2	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*99*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 130*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*

Lab Sample ID: MB 480-146450/7
Matrix: Water
Analysis Batch: 146450

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			10/21/13 23:41	1
1,1,1-Trichloroethane	ND		1.0		ug/L			10/21/13 23:41	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			10/21/13 23:41	1
1,1,2-Trichloroethane	ND		1.0		ug/L			10/21/13 23:41	1
1,1-Dichloroethane	ND		1.0		ug/L			10/21/13 23:41	1
1,1-Dichloroethene	ND		1.0		ug/L			10/21/13 23:41	1

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-146450/7
Matrix: Water
Analysis Batch: 146450

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloropropene	ND		1.0		ug/L			10/21/13 23:41	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			10/21/13 23:41	1
1,2,3-Trichloropropane	ND		1.0		ug/L			10/21/13 23:41	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			10/21/13 23:41	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			10/21/13 23:41	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			10/21/13 23:41	1
1,2-Dichlorobenzene	ND		1.0		ug/L			10/21/13 23:41	1
1,2-Dichloroethane	ND		1.0		ug/L			10/21/13 23:41	1
1,2-Dichloropropane	ND		1.0		ug/L			10/21/13 23:41	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			10/21/13 23:41	1
1,3-Dichlorobenzene	ND		1.0		ug/L			10/21/13 23:41	1
1,3-Dichloropropane	ND		1.0		ug/L			10/21/13 23:41	1
1,4-Dichlorobenzene	ND		1.0		ug/L			10/21/13 23:41	1
1,4-Dioxane	ND		50		ug/L			10/21/13 23:41	1
2,2-Dichloropropane	ND		1.0		ug/L			10/21/13 23:41	1
2-Butanone (MEK)	ND		10		ug/L			10/21/13 23:41	1
2-Chlorotoluene	ND		1.0		ug/L			10/21/13 23:41	1
2-Hexanone	ND		10		ug/L			10/21/13 23:41	1
4-Chlorotoluene	ND		1.0		ug/L			10/21/13 23:41	1
4-Isopropyltoluene	ND		1.0		ug/L			10/21/13 23:41	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			10/21/13 23:41	1
Acetone	ND		50		ug/L			10/21/13 23:41	1
Benzene	ND		1.0		ug/L			10/21/13 23:41	1
Bromobenzene	ND		1.0		ug/L			10/21/13 23:41	1
Bromoform	ND		1.0		ug/L			10/21/13 23:41	1
Bromomethane	ND		2.0		ug/L			10/21/13 23:41	1
Carbon disulfide	ND		10		ug/L			10/21/13 23:41	1
Carbon tetrachloride	ND		1.0		ug/L			10/21/13 23:41	1
Chlorobenzene	ND		1.0		ug/L			10/21/13 23:41	1
Chlorobromomethane	ND		1.0		ug/L			10/21/13 23:41	1
Chlorodibromomethane	ND		0.50		ug/L			10/21/13 23:41	1
Chloroethane	ND		2.0		ug/L			10/21/13 23:41	1
Chloroform	ND		1.0		ug/L			10/21/13 23:41	1
Chloromethane	ND		2.0		ug/L			10/21/13 23:41	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			10/21/13 23:41	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			10/21/13 23:41	1
Dichlorobromomethane	ND		0.50		ug/L			10/21/13 23:41	1
Dichlorodifluoromethane	ND		1.0		ug/L			10/21/13 23:41	1
Ethyl ether	ND		1.0		ug/L			10/21/13 23:41	1
Ethylbenzene	ND		1.0		ug/L			10/21/13 23:41	1
Ethylene Dibromide	ND		1.0		ug/L			10/21/13 23:41	1
Hexachlorobutadiene	ND		0.40		ug/L			10/21/13 23:41	1
Isopropyl ether	ND		10		ug/L			10/21/13 23:41	1
Isopropylbenzene	ND		1.0		ug/L			10/21/13 23:41	1
Methyl tert-butyl ether	ND		1.0		ug/L			10/21/13 23:41	1
Methylene Chloride	ND		1.0		ug/L			10/21/13 23:41	1
m-Xylene & p-Xylene	ND		2.0		ug/L			10/21/13 23:41	1
Naphthalene	ND		5.0		ug/L			10/21/13 23:41	1

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-146450/7
Matrix: Water
Analysis Batch: 146450

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
n-Butylbenzene	ND		1.0		ug/L			10/21/13 23:41	1
N-Propylbenzene	ND		1.0		ug/L			10/21/13 23:41	1
o-Xylene	ND		1.0		ug/L			10/21/13 23:41	1
sec-Butylbenzene	ND		1.0		ug/L			10/21/13 23:41	1
Styrene	ND		1.0		ug/L			10/21/13 23:41	1
Tert-amyl methyl ether	ND		5.0		ug/L			10/21/13 23:41	1
Tert-butyl ethyl ether	ND		5.0		ug/L			10/21/13 23:41	1
tert-Butylbenzene	ND		1.0		ug/L			10/21/13 23:41	1
Tetrachloroethene	ND		1.0		ug/L			10/21/13 23:41	1
Tetrahydrofuran	ND		10		ug/L			10/21/13 23:41	1
Toluene	ND		1.0		ug/L			10/21/13 23:41	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			10/21/13 23:41	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			10/21/13 23:41	1
Trichloroethene	ND		1.0		ug/L			10/21/13 23:41	1
Trichlorofluoromethane	ND		1.0		ug/L			10/21/13 23:41	1
Vinyl chloride	ND		1.0		ug/L			10/21/13 23:41	1
Dibromomethane	ND		1.0		ug/L			10/21/13 23:41	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*98*		*70 - 130*		*10/21/13 23:41*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 130*		*10/21/13 23:41*	*1*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*10/21/13 23:41*	*1*

Lab Sample ID: LCS 480-146450/4
Matrix: Water
Analysis Batch: 146450

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	25.0	25.5		ug/L		102	70 - 130
1,1,1-Trichloroethane	25.0	25.5		ug/L		102	70 - 130
1,1,2,2-Tetrachloroethane	25.0	24.7		ug/L		99	70 - 130
1,1,2-Trichloroethane	25.0	24.3		ug/L		97	70 - 130
1,1-Dichloroethane	25.0	24.7		ug/L		99	70 - 130
1,1-Dichloroethene	25.0	23.3		ug/L		93	70 - 130
1,1-Dichloropropene	25.0	25.7		ug/L		103	70 - 130
1,2,3-Trichlorobenzene	25.0	25.4		ug/L		101	70 - 130
1,2,3-Trichloropropane	25.0	24.4		ug/L		97	70 - 130
1,2,4-Trichlorobenzene	25.0	25.8		ug/L		103	70 - 130
1,2,4-Trimethylbenzene	25.0	24.6		ug/L		98	70 - 130
1,2-Dibromo-3-Chloropropane	25.0	25.2		ug/L		101	70 - 130
1,2-Dichlorobenzene	25.0	24.3		ug/L		97	70 - 130
1,2-Dichloroethane	25.0	24.8		ug/L		99	70 - 130
1,2-Dichloropropane	25.0	24.3		ug/L		97	70 - 130
1,3,5-Trimethylbenzene	25.0	24.7		ug/L		99	70 - 130
1,3-Dichlorobenzene	25.0	24.3		ug/L		97	70 - 130
1,3-Dichloropropane	25.0	23.9		ug/L		96	70 - 130
1,4-Dichlorobenzene	25.0	24.4		ug/L		98	70 - 130
1,4-Dioxane	1000	958		ug/L		96	70 - 130

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-146450/4
Matrix: Water
Analysis Batch: 146450

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2,2-Dichloropropane	25.0	23.7		ug/L		95	70 - 130
2-Butanone (MEK)	125	171	*	ug/L		136	70 - 130
2-Chlorotoluene	25.0	24.6		ug/L		98	70 - 130
2-Hexanone	125	120		ug/L		96	70 - 130
4-Chlorotoluene	25.0	24.3		ug/L		97	70 - 130
4-Isopropyltoluene	25.0	25.0		ug/L		100	70 - 130
4-Methyl-2-pentanone (MIBK)	125	118		ug/L		94	70 - 130
Acetone	125	125		ug/L		100	70 - 130
Benzene	25.0	24.7		ug/L		99	70 - 130
Bromobenzene	25.0	25.1		ug/L		100	70 - 130
Bromoform	25.0	22.8		ug/L		91	70 - 130
Bromomethane	25.0	28.2		ug/L		113	70 - 130
Carbon disulfide	25.0	25.7		ug/L		103	70 - 130
Carbon tetrachloride	25.0	24.6		ug/L		98	70 - 130
Chlorobenzene	25.0	24.3		ug/L		97	70 - 130
Chlorobromomethane	25.0	25.6		ug/L		103	70 - 130
Chlorodibromomethane	25.0	24.9		ug/L		100	70 - 130
Chloroethane	25.0	25.2		ug/L		101	70 - 130
Chloroform	25.0	25.0		ug/L		100	70 - 130
Chloromethane	25.0	21.2		ug/L		85	70 - 130
cis-1,2-Dichloroethene	25.0	25.3		ug/L		101	70 - 130
cis-1,3-Dichloropropene	25.0	25.1		ug/L		100	70 - 130
Dichlorobromomethane	25.0	25.5		ug/L		102	70 - 130
Dichlorodifluoromethane	50.0	52.1		ug/L		104	70 - 130
Ethyl ether	25.0	24.0		ug/L		96	70 - 130
Ethylbenzene	25.0	24.3		ug/L		97	70 - 130
Ethylene Dibromide	25.0	24.4		ug/L		97	70 - 130
Hexachlorobutadiene	25.0	27.1		ug/L		109	70 - 130
Isopropyl ether	25.0	25.6		ug/L		102	70 - 130
Isopropylbenzene	25.0	24.7		ug/L		99	70 - 130
Methyl tert-butyl ether	25.0	25.1		ug/L		100	70 - 130
Methylene Chloride	25.0	25.4		ug/L		102	70 - 130
m-Xylene & p-Xylene	50.0	49.8		ug/L		100	70 - 130
Naphthalene	25.0	25.8		ug/L		103	70 - 130
n-Butylbenzene	25.0	25.2		ug/L		101	70 - 130
N-Propylbenzene	25.0	24.2		ug/L		97	70 - 130
o-Xylene	25.0	25.0		ug/L		100	70 - 130
sec-Butylbenzene	25.0	25.1		ug/L		100	70 - 130
Styrene	25.0	24.5		ug/L		98	70 - 130
Tert-amyl methyl ether	25.0	24.8		ug/L		99	70 - 130
Tert-butyl ethyl ether	25.0	24.6		ug/L		99	70 - 130
tert-Butylbenzene	25.0	25.6		ug/L		102	70 - 130
Tetrachloroethene	25.0	27.0		ug/L		108	70 - 130
Tetrahydrofuran	125	117		ug/L		94	70 - 130
Toluene	25.0	23.8		ug/L		95	70 - 130
trans-1,2-Dichloroethene	25.0	24.9		ug/L		99	70 - 130
trans-1,3-Dichloropropene	25.0	24.7		ug/L		99	70 - 130
Trichloroethene	25.0	25.6		ug/L		103	70 - 130

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-146450/4
Matrix: Water
Analysis Batch: 146450

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Trichlorofluoromethane	25.0	27.0		ug/L		108	70 - 130
Vinyl chloride	25.0	24.4		ug/L		98	70 - 130
Dibromomethane	25.0	25.2		ug/L		101	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*100*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*104*		*70 - 130*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*

Lab Sample ID: LCSD 480-146450/5
Matrix: Water
Analysis Batch: 146450

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	25.0	24.6		ug/L		99	70 - 130	3	20
1,1,1-Trichloroethane	25.0	23.7		ug/L		95	70 - 130	7	20
1,1,2,2-Tetrachloroethane	25.0	23.4		ug/L		94	70 - 130	5	20
1,1,2-Trichloroethane	25.0	23.9		ug/L		96	70 - 130	1	20
1,1-Dichloroethane	25.0	23.2		ug/L		93	70 - 130	6	20
1,1-Dichloroethene	25.0	22.0		ug/L		88	70 - 130	6	20
1,1-Dichloropropene	25.0	23.6		ug/L		94	70 - 130	9	20
1,2,3-Trichlorobenzene	25.0	25.7		ug/L		103	70 - 130	1	20
1,2,3-Trichloropropane	25.0	24.1		ug/L		96	70 - 130	1	20
1,2,4-Trichlorobenzene	25.0	25.7		ug/L		103	70 - 130	0	20
1,2,4-Trimethylbenzene	25.0	23.6		ug/L		94	70 - 130	4	20
1,2-Dibromo-3-Chloropropane	25.0	26.1		ug/L		104	70 - 130	3	20
1,2-Dichlorobenzene	25.0	23.5		ug/L		94	70 - 130	3	20
1,2-Dichloroethane	25.0	23.8		ug/L		95	70 - 130	4	20
1,2-Dichloropropane	25.0	22.6		ug/L		90	70 - 130	7	20
1,3,5-Trimethylbenzene	25.0	23.4		ug/L		93	70 - 130	6	20
1,3-Dichlorobenzene	25.0	23.0		ug/L		92	70 - 130	6	20
1,3-Dichloropropane	25.0	22.9		ug/L		92	70 - 130	4	20
1,4-Dichlorobenzene	25.0	23.7		ug/L		95	70 - 130	3	20
1,4-Dioxane	1000	1010		ug/L		101	70 - 130	5	20
2,2-Dichloropropane	25.0	22.0		ug/L		88	70 - 130	8	20
2-Butanone (MEK)	125	169	*	ug/L		135	70 - 130	1	20
2-Chlorotoluene	25.0	23.7		ug/L		95	70 - 130	4	20
2-Hexanone	125	119		ug/L		95	70 - 130	1	20
4-Chlorotoluene	25.0	23.7		ug/L		95	70 - 130	2	20
4-Isopropyltoluene	25.0	23.2		ug/L		93	70 - 130	7	20
4-Methyl-2-pentanone (MIBK)	125	118		ug/L		94	70 - 130	0	20
Acetone	125	125		ug/L		100	70 - 130	1	20
Benzene	25.0	23.6		ug/L		94	70 - 130	5	20
Bromobenzene	25.0	24.4		ug/L		98	70 - 130	3	20
Bromoform	25.0	22.7		ug/L		91	70 - 130	1	20
Bromomethane	25.0	24.7		ug/L		99	70 - 130	13	20
Carbon disulfide	25.0	24.0		ug/L		96	70 - 130	7	20
Carbon tetrachloride	25.0	22.7		ug/L		91	70 - 130	8	20

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 480-146450/5
Matrix: Water
Analysis Batch: 146450

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chlorobenzene	25.0	23.5		ug/L		94	70 - 130	3	20
Chlorobromomethane	25.0	24.5		ug/L		98	70 - 130	4	20
Chlorodibromomethane	25.0	24.3		ug/L		97	70 - 130	2	20
Chloroethane	25.0	23.2		ug/L		93	70 - 130	8	20
Chloroform	25.0	23.7		ug/L		95	70 - 130	5	20
Chloromethane	25.0	19.9		ug/L		80	70 - 130	6	20
cis-1,2-Dichloroethene	25.0	23.4		ug/L		94	70 - 130	8	20
cis-1,3-Dichloropropene	25.0	23.9		ug/L		95	70 - 130	5	20
Dichlorobromomethane	25.0	24.5		ug/L		98	70 - 130	4	20
Dichlorodifluoromethane	50.0	47.1		ug/L		94	70 - 130	10	20
Ethyl ether	25.0	23.2		ug/L		93	70 - 130	3	20
Ethylbenzene	25.0	22.9		ug/L		92	70 - 130	6	20
Ethylene Dibromide	25.0	23.7		ug/L		95	70 - 130	3	20
Hexachlorobutadiene	25.0	25.2		ug/L		101	70 - 130	8	20
Isopropyl ether	25.0	24.4		ug/L		98	70 - 130	4	20
Isopropylbenzene	25.0	23.5		ug/L		94	70 - 130	5	20
Methyl tert-butyl ether	25.0	24.2		ug/L		97	70 - 130	4	20
Methylene Chloride	25.0	24.3		ug/L		97	70 - 130	5	20
m-Xylene & p-Xylene	50.0	46.7		ug/L		93	70 - 130	6	20
Naphthalene	25.0	26.1		ug/L		104	70 - 130	1	20
n-Butylbenzene	25.0	24.0		ug/L		96	70 - 130	5	20
N-Propylbenzene	25.0	22.7		ug/L		91	70 - 130	6	20
o-Xylene	25.0	22.8		ug/L		91	70 - 130	9	20
sec-Butylbenzene	25.0	24.2		ug/L		97	70 - 130	3	20
Styrene	25.0	23.9		ug/L		96	70 - 130	3	20
Tert-amyl methyl ether	25.0	23.8		ug/L		95	70 - 130	4	20
Tert-butyl ethyl ether	25.0	23.9		ug/L		96	70 - 130	3	20
tert-Butylbenzene	25.0	24.3		ug/L		97	70 - 130	5	20
Tetrachloroethene	25.0	25.8		ug/L		103	70 - 130	5	20
Tetrahydrofuran	125	115		ug/L		92	70 - 130	2	20
Toluene	25.0	22.9		ug/L		91	70 - 130	4	20
trans-1,2-Dichloroethene	25.0	23.2		ug/L		93	70 - 130	7	20
trans-1,3-Dichloropropene	25.0	23.2		ug/L		93	70 - 130	6	20
Trichloroethene	25.0	24.5		ug/L		98	70 - 130	5	20
Trichlorofluoromethane	25.0	25.8		ug/L		103	70 - 130	5	20
Vinyl chloride	25.0	22.4		ug/L		90	70 - 130	9	20
Dibromomethane	25.0	24.5		ug/L		98	70 - 130	3	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*98*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 130*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*

QC Association Summary

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-48091-1

GC/MS VOA

Analysis Batch: 146250

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-48091-1	DEP-19M-201310	Total/NA	Water	8260C	
480-48091-2	DEP-21-201310	Total/NA	Water	8260C	
480-48091-3	MW-263M-201310	Total/NA	Water	8260C	
480-48091-4	MW-264M-20131015-01	Total/NA	Water	8260C	
480-48091-5	MW-265S-20131015-01	Total/NA	Water	8260C	
480-48091-6	MW-265D-20131015-01	Total/NA	Water	8260C	
480-48091-7	MW-266Ma-20131015-01	Total/NA	Water	8260C	
480-48091-8	MW-266Mb-20131015-01	Total/NA	Water	8260C	
480-48091-9	MW-268D-20131015-01	Total/NA	Water	8260C	
480-48091-10	MW-269Ma-201310	Total/NA	Water	8260C	
480-48091-11	MW-554D-201310	Total/NA	Water	8260C	
480-48091-12	MW-553D-201310	Total/NA	Water	8260C	
480-48091-13	MW-556D-201310	Total/NA	Water	8260C	
LCS 480-146250/5	Lab Control Sample	Total/NA	Water	8260C	
LCSD 480-146250/6	Lab Control Sample Dup	Total/NA	Water	8260C	
MB 480-146250/8	Method Blank	Total/NA	Water	8260C	

Analysis Batch: 146450

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-48091-14	DupX4-20131015-01	Total/NA	Water	8260C	
480-48091-15	Trip Blank	Total/NA	Water	8260C	
LCS 480-146450/4	Lab Control Sample	Total/NA	Water	8260C	
LCSD 480-146450/5	Lab Control Sample Dup	Total/NA	Water	8260C	
MB 480-146450/7	Method Blank	Total/NA	Water	8260C	

Analysis Batch: 146550

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-48091-7	MW-266Ma-20131015-01	Total/NA	Water	8260B SIM	
480-48091-10	MW-269Ma-201310	Total/NA	Water	8260B SIM	
480-48091-12	MW-553D-201310	Total/NA	Water	8260B SIM	
LCS 480-146550/5	Lab Control Sample	Total/NA	Water	8260B SIM	
LCSD 480-146550/6	Lab Control Sample Dup	Total/NA	Water	8260B SIM	
MB 480-146550/7	Method Blank	Total/NA	Water	8260B SIM	

Lab Chronicle

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-48091-1

Client Sample ID: DEP-19M-201310 — Lab Sample ID: 480-48091-1

Date Collected: 10/16/13 09:20 — **Matrix: Water**
Date Received: 10/17/13 01:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	146250	10/21/13 15:17	RAL	TAL BUF

Client Sample ID: DEP-21-201310 — Lab Sample ID: 480-48091-2

Date Collected: 10/16/13 08:30 — **Matrix: Water**
Date Received: 10/17/13 01:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	146250	10/21/13 15:41	RAL	TAL BUF

Client Sample ID: MW-263M-201310 — Lab Sample ID: 480-48091-3

Date Collected: 10/16/13 10:15 — **Matrix: Water**
Date Received: 10/17/13 01:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	146250	10/21/13 16:05	RAL	TAL BUF

Client Sample ID: MW-264M-20131015-01 — Lab Sample ID: 480-48091-4

Date Collected: 10/15/13 12:15 — **Matrix: Water**
Date Received: 10/17/13 01:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	146250	10/21/13 16:29	RAL	TAL BUF

Client Sample ID: MW-265S-20131015-01 — Lab Sample ID: 480-48091-5

Date Collected: 10/15/13 11:05 — **Matrix: Water**
Date Received: 10/17/13 01:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	146250	10/21/13 16:52	RAL	TAL BUF

Client Sample ID: MW-265D-20131015-01 — Lab Sample ID: 480-48091-6

Date Collected: 10/15/13 11:35 — **Matrix: Water**
Date Received: 10/17/13 01:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	146250	10/21/13 17:16	RAL	TAL BUF

Lab Chronicle

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-48091-1

Client Sample ID: MW-266Ma-20131015-01 — Lab Sample ID: 480-48091-7

Date Collected: 10/15/13 08:15 — **Matrix: Water**
Date Received: 10/17/13 01:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	146250	10/21/13 17:39	RAL	TAL BUF
Total/NA	Analysis	8260B SIM		1	146550	10/22/13 12:00	TRB	TAL BUF

Client Sample ID: MW-266Mb-20131015-01 — Lab Sample ID: 480-48091-8

Date Collected: 10/15/13 08:50 — **Matrix: Water**
Date Received: 10/17/13 01:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	146250	10/21/13 18:03	RAL	TAL BUF

Client Sample ID: MW-268D-20131015-01 — Lab Sample ID: 480-48091-9

Date Collected: 10/15/13 12:55 — **Matrix: Water**
Date Received: 10/17/13 01:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	146250	10/21/13 18:26	RAL	TAL BUF

Client Sample ID: MW-269Ma-201310 — Lab Sample ID: 480-48091-10

Date Collected: 10/16/13 11:15 — **Matrix: Water**
Date Received: 10/17/13 01:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	146250	10/21/13 18:49	RAL	TAL BUF
Total/NA	Analysis	8260B SIM		1	146550	10/22/13 12:24	TRB	TAL BUF

Client Sample ID: MW-554D-201310 — Lab Sample ID: 480-48091-11

Date Collected: 10/15/13 13:40 — **Matrix: Water**
Date Received: 10/17/13 01:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	146250	10/21/13 19:13	RAL	TAL BUF

Client Sample ID: MW-553D-201310 — Lab Sample ID: 480-48091-12

Date Collected: 10/15/13 11:55 — **Matrix: Water**
Date Received: 10/17/13 01:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	146250	10/21/13 19:37	RAL	TAL BUF
Total/NA	Analysis	8260B SIM		1	146550	10/22/13 12:48	TRB	TAL BUF

Lab Chronicle

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-48091-1

Client Sample ID: MW-556D-201310

Lab Sample ID: 480-48091-13

Date Collected: 10/15/13 13:05
Matrix: Water
Date Received: 10/17/13 01:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	146250	10/21/13 20:00	RAL	TAL BUF

Client Sample ID: DupX4-20131015-01

Lab Sample ID: 480-48091-14

Date Collected: 10/15/13 00:00
Matrix: Water
Date Received: 10/17/13 01:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	146450	10/22/13 00:16	RAL	TAL BUF

Client Sample ID: Trip Blank

Lab Sample ID: 480-48091-15

Date Collected: 10/15/13 00:00
Matrix: Water
Date Received: 10/17/13 01:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	146450	10/22/13 00:39	RAL	TAL BUF

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Certification Summary

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-48091-1

Laboratory: TestAmerica Buffalo

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Arkansas DEQ	State Program	6	88-0686	07-06-13 *
California	NELAP	9	1169CA	09-30-14
Connecticut	State Program	1	PH-0568	09-30-14
Florida	NELAP	4	E87672	06-30-14
Georgia	State Program	4	N/A	03-31-14
Iowa	State Program	7	374	03-15-15
Kansas	NELAP	7	E-10187	01-31-14
Kentucky	State Program	4	90029	12-31-13
Kentucky (UST)	State Program	4	30	04-01-14
Louisiana	NELAP	6	02031	06-30-14
Maine	State Program	1	NY00044	12-04-14
Maryland	State Program	3	294	03-31-14
Massachusetts	State Program	1	M-NY044	06-30-14
Michigan	State Program	5	9937	04-01-14
Minnesota	NELAP	5	036-999-337	12-31-13
New Hampshire	NELAP	1	2973	09-11-14
New Jersey	NELAP	2	NY455	06-30-14
New York	NELAP	2	10026	04-01-14
North Dakota	State Program	8	R-176	03-31-14
Oklahoma	State Program	6	9421	08-31-14
Oregon	NELAP	10	NY200003	06-09-14
Pennsylvania	NELAP	3	68-00281	07-31-14
Rhode Island	State Program	1	LAO00328	12-31-13
Tennessee	State Program	4	TN02970	04-01-14
Texas	NELAP	6	T104704412-11-2	07-31-14
USDA	Federal		P330-11-00386	11-22-14
Virginia	NELAP	3	460185	09-14-14
Washington	State Program	10	C784	02-10-14
West Virginia DEP	State Program	3	252	12-31-13
Wisconsin	State Program	5	998310390	08-31-14

* Expired certification is currently pending renewal and is considered valid.

Method Summary

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-48091-1

Method	Method Description	Protocol	Laboratory
8260B SIM	Volatile Organic Compounds (GC/MS)	SW846	TAL BUF
8260C	Volatile Organic Compounds (GC/MS)	MA DEP	TAL BUF

Protocol References:

MA DEP = Massachusetts Department Of Environmental Protection

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Sample Summary

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-48091-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-48091-1	DEP-19M-201310	Water	10/16/13 09:20	10/17/13 01:00
480-48091-2	DEP-21-201310	Water	10/16/13 08:30	10/17/13 01:00
480-48091-3	MW-263M-201310	Water	10/16/13 10:15	10/17/13 01:00
480-48091-4	MW-264M-20131015-01	Water	10/15/13 12:15	10/17/13 01:00
480-48091-5	MW-265S-20131015-01	Water	10/15/13 11:05	10/17/13 01:00
480-48091-6	MW-265D-20131015-01	Water	10/15/13 11:35	10/17/13 01:00
480-48091-7	MW-266Ma-20131015-01	Water	10/15/13 08:15	10/17/13 01:00
480-48091-8	MW-266Mb-20131015-01	Water	10/15/13 08:50	10/17/13 01:00
480-48091-9	MW-268D-20131015-01	Water	10/15/13 12:55	10/17/13 01:00
480-48091-10	MW-269Ma-201310	Water	10/16/13 11:15	10/17/13 01:00
480-48091-11	MW-554D-201310	Water	10/15/13 13:40	10/17/13 01:00
480-48091-12	MW-553D-201310	Water	10/15/13 11:55	10/17/13 01:00
480-48091-13	MW-556D-201310	Water	10/15/13 13:05	10/17/13 01:00
480-48091-14	DupX4-20131015-01	Water	10/15/13 00:00	10/17/13 01:00
480-48091-15	Trip Blank	Water	10/15/13 00:00	10/17/13 01:00

Login Sample Receipt Checklist

Client: Innovative Engineering Solutions, Inc

Job Number: 480-48091-1

Login Number: 48091

List Source: TestAmerica Buffalo

List Number: 1

Creator: Wienke, Robert K

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

[redacted]

Chain of Custody Record

Temperature on Receipt _____

Drinking Water? Yes ☐ No ☒

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TAL-4124 (1007)

Client	Project Manager	Date	Chain of Custody Number
Innovation Engineering Solutions Inc	Vicki Pearson	10/16/13	255533
Address	**Telephone Number (Area Code)/Fax Number**	**Lab Number**	**Page 1 of 2**
25 Spring St	508-663-0033 / 508-663-5175		
City / State / Zip Code	**Site Contact / Lab Contact**		
Walpole / MA / 02081	Doug Jones		
Project Name and Location (State)	**Carrier/Waybill Number**		
Raytheon Wayland, MA			
Contract/Purchase Order/Quote No.			
RA-008			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Analysis (Attach list if more space is needed): 8260B	8260-SIM	Special Instructions/ Conditions of Receipt
DEP-19M-201310	10/16/13	0730		X						3			X		
DEP-21-201310	10/16/13	0830		X						3			X		
MW-363M-201310	10/16/13	1015		X						3			X		
MW-364M-20131015-01	10/15/13	1215		X						3			X		
MW-365S-20131015-01	10/15/13	1105		X						3			X		
MW-365D-20131015-01	10/15/13	1133		X						3			X		
MW-366Ma-20131015-01	10/15/13	0815		X						5			X	X	
MW-366Mb-20131015-01	10/15/13	0830		X						3			X		
MW-368D-20131015-01	10/15/13	1255		X						3			X		
MW-368Ma-201310	10/16/13	1115		X						5			X	X	
MW-554D-201310	10/15/13	1340		X						3			X		
MW-553D-201310	10/15/13	1155		X						5			X	X	

Possible Hazard Identification: ☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal: ☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required: ☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☒ Other 5 days

QC Requirements (Specify)

Relinquished By	Date	Time	Received By	Date	Time
1. [signature]	10/16/13	1135	1. [signature]	10/16/13	1135
2. [signature]	10/16/13	1205	2. [signature]	10/16/13	1205
3. [signature]	10/16/13	1630	3. [signature] TA	10/17/13	0100

Comments

2.7#1

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

Chain of Custody Record

Temperature on Receipt _____

Drinking Water? Yes ☐ No ☒

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TAL-4124 (1007)

Client	Project Manager	Date	Chain of Custody Number
Innovative Engineering Solutions Inc			255534
Address	**Telephone Number (Area Code)/Fax Number**	**Lab Number**	**Page _____ of _____**
25 Spring St			
City / State / Zip Code	**Site Contact / Lab Contact**		
Wilpole / MA / 02351	Dave Jones		
Project Name and Location (State)	**Carrier/Waybill Number**		
Raytheon Wayland, MA			
Contract/Purchase Order/Quote No.			
RA-008			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Air	Aqueous	Sed.	Soil	Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	VOC 8260B	MS - Cl/Br	Special Instructions/ Conditions of Receipt
MW-336D-201310	10/15/13	1303		X					3				X		
DupX4-20131015-0	10/15/13	—		X					3				X		
Trip Blank	—	—		X					3						

Possible Hazard Identification: ☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal: ☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required: ☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☒ Other 5 day

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By	10/16/13	1135	1. Received By	10/16/13	1135
2. Relinquished By	10/16/13	1205	2. Received By	10/16/13	1205
3. Relinquished By	10/16/13	1630	3. Received By (TA)	10/17/13	0100

Comments: 2.7H1

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

Raytheon, Wayland, MA
Analytical Report

Well Samples

Prepared By:
BTC
25 Spring Street,
Walpole, MA 02081-4301
Phone (508) 668-0191 • Fax (508) 668-5175

Sampled: 10/12/13-10/14/13
Analyzed: 10/14/13-10/16/13

Bioremediation & Treatability Center

25 Spring Street • Walpole, MA 02081-4301 •phone (508) 668-0191 • fax (508) 668-5175

October 17, 2013

IESI
Sami Fam
Innovative Engineering Solutions, Inc.
25 Spring St.
Walpole, MA 02081-4301

RE: Analytical Data Report
Raytheon
Wayland, MA

Dear Mr. Fam,

Enclosed are the results of the sample(s) submitted to our laboratory on October 14-15, 2013.

All analyses were performed to our laboratory's quality assurance program. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please call if you have any questions. You may also contact me via email at S.Davis@Biotreatcenter.com

Respectfully submitted,
Bioremediation Treatability Center

Susan Davis

Susan Davis
Lab Director

---Dissolved Gasses---

Project Identification:	Raytheon, Wayland, MA
Sample ID	MW-261 S
Sampler	dj
Sample Date	10/12/13
Sample Time	9:40 AM
Sample Received	10/14/13
Method	Modified EPA 5021 A

Compound	**Test Value**	**Units**	**Detection Limit**	**Analysis Date**	**Tech**
Dissolved Gasses					
Methane	19748	µg/L	0.3 µg/L	10/14/2013	swd
Ethylene	<0.3	µg/L	0.3 µg/L	10/14/2013	swd
Ethane	<0.3	µg/L	0.3 µg/L	10/14/2013	swd
Acetylene	<2	µg/L	2µg/L	10/14/2013	swd

Project Identification:	Raytheon, Wayland, MA
Sample ID	MW-265 M
Sampler	dj
Sample Date	10/14/13
Sample Time	1:25 PM
Sample Received	10/15/13
Method	Modified EPA 5021 A

Compound	**Test Value**	**Units**	**Detection Limit**	**Analysis Date**	**Tech**
Dissolved Gasses					
Methane	19465	µg/L	0.3 µg/L	10/15/2013	swd
Ethylene	<0.3	µg/L	0.3 µg/L	10/15/2013	swd
Ethane	<0.3	µg/L	0.3 µg/L	10/15/2013	swd
Acetylene	<2	µg/L	2µg/L	10/15/2013	swd

---Dissolved Gasses---

Project Identification:	Raytheon, Wayland, MA
Sample ID	MW-267 M
Sampler	dj
Sample Date	10/14/13
Sample Time	10:05 AM
Sample Received	10/15/13
Method	Modified EPA 5021 A

Compound	**Test Value**	**Units**	**Detection Limit**	**Analysis Date**	**Tech**
Dissolved Gasses					
Methane	21042	µg/L	0.3 µg/L	10/15/2013	swd
Ethylene	<0.3	µg/L	0.3 µg/L	10/15/2013	swd
Ethane	<0.3	µg/L	0.3 µg/L	10/15/2013	swd
Acetylene	<2	µg/L	2µg/L	10/15/2013	swd

Project Identification:	Raytheon, Wayland, MA
Sample ID	MW-267 S
Sampler	dj
Sample Date	10/14/13
Sample Time	9:30 AM
Sample Received	10/15/13
Method	Modified EPA 5021 A

Compound	**Test Value**	**Units**	**Detection Limit**	**Analysis Date**	**Tech**
Dissolved Gasses					
Methane	130	µg/L	0.3 µg/L	10/15/2013	swd
Ethylene	2.5	µg/L	0.3 µg/L	10/15/2013	swd
Ethane	<0.3	µg/L	0.3 µg/L	10/15/2013	swd
Acetylene	<2	µg/L	2µg/L	10/15/2013	swd

---Dissolved Gasses---

Project Identification:	Raytheon, Wayland, MA
Sample ID	MW-268 M
Sampler	dj
Sample Date	10/14/13
Sample Time	8:40 AM
Sample Received	10/15/13
Method	Modified EPA 5021 A

Compound	**Test Value**	**Units**	**Detection Limit**	**Analysis Date**	**Tech**
Dissoved Gasses					
Methane	26.7	µg/L	0.3 µg/L	10/15/2013	swd
Ethylene	7.5	µg/L	0.3 µg/L	10/15/2013	swd
Ethane	2.4	µg/L	0.3 µg/L	10/15/2013	swd
Acetylene	<2	µg/L	2µg/L	10/15/2013	swd

Project Identification:	Raytheon, Wayland, MA
Sample ID	MW-551
Sampler	dj
Sample Date	10/12/13
Sample Time	10:30 AM
Sample Received	10/14/13
Method	Modified EPA 5021 A

Compound	**Test Value**	**Units**	**Detection Limit**	**Analysis Date**	**Tech**
Dissolved Gasses					
Methane	23791	µg/L	0.3 µg/L	10/14/2013	swd
Ethylene	<0.3	µg/L	0.3 µg/L	10/14/2013	swd
Ethane	<0.3	µg/L	0.3 µg/L	10/14/2013	swd
Acetylene	<2	µg/L	2µg/L	10/14/2013	swd

---Dissolved Gasses---

Project Identification:	Raytheon, Wayland, MA
Sample ID	MW-552
Sampler	dj
Sample Date	10/12/13
Sample Time	8:55 AM
Sample Received	10/14/13
Method	Modified EPA 5021 A

Compound	**Test Value**	**Units**	**Detection Limit**	**Analysis Date**	**Tech**
Dissolved Gasses					
Methane	27572	µg/L	0.3 µg/L	10/14/2013	swd
Ethylene	<0.3	µg/L	0.3 µg/L	10/14/2013	swd
Ethane	<0.3	µg/L	0.3 µg/L	10/14/2013	swd
Acetylene	<2	µg/L	2µg/L	10/14/2013	swd

Project Identification:	Raytheon, Wayland, MA
Sample ID	MW-553
Sampler	dj
Sample Date	10/12/13
Sample Time	8:15 AM
Sample Received	10/14/13
Method	Modified EPA 5021 A

Compound	**Test Value**	**Units**	**Detection Limit**	**Analysis Date**	**Tech**
Dissolved Gasses					
Methane	22604	µg/L	0.3 µg/L	10/14/2013	swd
Ethylene	<0.3	µg/L	0.3 µg/L	10/14/2013	swd
Ethane	<0.3	µg/L	0.3 µg/L	10/14/2013	swd
Acetylene	<2	µg/L	2µg/L	10/14/2013	swd

---Dissolved Gasses---

Project Identification:	Raytheon, Wayland, MA

Sample ID	MW-560
Sampler	dj
Sample Date	10/14/13
Sample Time	11:25 AM
Sample Received	10/15/13

Method Modified EPA 5021 A

Compound	Test Value	Units	Detection Limit	Analysis Date	Tech
Dissolved Gasses					
Methane	3073	µg/L	0.3 µg/L	10/15/2013	swd
Ethylene	<0.3	µg/L	0.3 µg/L	10/15/2013	swd
Ethane	<0.3	µg/L	0.3 µg/L	10/15/2013	swd
Acetylene	<2	µg/L	2µg/L	10/15/2013	swd

Project Identification:	Raytheon, Wayland, MA

Sample ID	MW-561
Sampler	dj
Sample Date	10/14/13
Sample Time	12:50 PM
Sample Received	10/15/13

Method Modified EPA 5021 A

Compound	Test Value	Units	Detection Limit	Analysis Date	Tech
Dissolved Gasses					
Methane	3327	µg/L	0.3 µg/L	10/15/2013	swd
Ethylene	10.6	µg/L	0.3 µg/L	10/15/2013	swd
Ethane	<0.3	µg/L	0.3 µg/L	10/15/2013	swd
Acetylene	<2	µg/L	2µg/L	10/15/2013	swd

---Dissolved Gasses---

Project Identification:	Raytheon, Wayland, MA
Sample ID	MW-562
Sampler	dj
Sample Date	10/12/13
Sample Time	11:10 AM
Sample Received	10/14/13
Method	Modified EPA 5021 A

Compound	**Test Value**	**Units**	**Detection Limit**	**Analysis Date**	**Tech**
Dissolved Gasses					
Methane	34012	µg/L	0.3 µg/L	10/14/2013	swd
Ethylene	<0.3	µg/L	0.3 µg/L	10/14/2013	swd
Ethane	<0.3	µg/L	0.3 µg/L	10/14/2013	swd
Acetylene	<2	µg/L	2µg/L	10/14/2013	swd

Project Identification:	Raytheon, Wayland, MA
Sample ID	MW-563
Sampler	dj
Sample Date	10/14/13
Sample Time	12:05 PM
Sample Received	10/15/13
Method	Modified EPA 5021 A

Compound	**Test Value**	**Units**	**Detection Limit**	**Analysis Date**	**Tech**
Dissolved Gasses					
Methane	32932	µg/L	0.3 µg/L	10/15/2013	swd
Ethylene	<0.3	µg/L	0.3 µg/L	10/15/2013	swd
Ethane	<0.3	µg/L	0.3 µg/L	10/15/2013	swd
Acetylene	<2	µg/L	2µg/L	10/15/2013	swd

---Dissolved Gasses---

Project Identification:	Raytheon, Wayland, MA

Sample ID	REW-1
Sampler	dj
Sample Date	10/12/13
Sample Time	12:05 PM
Sample Received	10/14/13
Method	Modified EPA 5021 A

Compound	**Test Value**	**Units**	**Detection Limit**	**Analysis Date**	**Tech**
Dissolved Gasses					
Methane	29351	µg/L	0.3 µg/L	10/14/2013	swd
Ethylene	<0.3	µg/L	0.3 µg/L	10/14/2013	swd
Ethane	<0.3	µg/L	0.3 µg/L	10/14/2013	swd
Acetylene	<2	µg/L	2µg/L	10/14/2013	swd

Project Identification:	Raytheon, Wayland, MA

Sample ID	REW-4
Sampler	dj
Sample Date	10/12/13
Sample Time	1:45 PM
Sample Received	10/14/13
Method	Modified EPA 5021 A

Compound	**Test Value**	**Units**	**Detection Limit**	**Analysis Date**	**Tech**
Dissolved Gasses					
Methane	35768	µg/L	0.3 µg/L	10/14/2013	swd
Ethylene	<0.3	µg/L	0.3 µg/L	10/14/2013	swd
Ethane	<0.3	µg/L	0.3 µg/L	10/14/2013	swd
Acetylene	<2	µg/L	2µg/L	10/14/2013	swd

---Dissolved Gasses---

Project Identification:	Raytheon, Wayland, MA

Sample ID	REW-5
Sampler	dj
Sample Date	10/12/13
Sample Time	12:50 PM
Sample Received	10/14/13

Method Modified EPA 5021 A

Compound	Test Value	Units	Detection Limit	Analysis Date	Tech
Dissolved Gasses					
Methane	14794	µg/L	0.3 µg/L	10/14/2013	swd
Ethylene	<0.3	µg/L	0.3 µg/L	10/14/2013	swd
Ethane	138	µg/L	0.3 µg/L	10/14/2013	swd
Acetylene	<2	µg/L	2µg/L	10/14/2013	swd

Project Identification:	Raytheon, Wayland, MA

Sample ID	REW-6
Sampler	dj
Sample Date	10/13/13
Sample Time	7:35 AM
Sample Received	10/14/13

Method Modified EPA 5021 A

Compound	Test Value	Units	Detection Limit	Analysis Date	Tech
Dissolved Gasses					
Methane	1945	µg/L	0.3 µg/L	10/14/2013	swd
Ethylene	<0.3	µg/L	0.3 µg/L	10/14/2013	swd
Ethane	<0.3	µg/L	0.3 µg/L	10/14/2013	swd
Acetylene	<2	µg/L	2µg/L	10/14/2013	swd

---Dissolved Gasses---

Project Identification:	Raytheon, Wayland, MA

Sample ID	REW-7
Sampler	dj
Sample Date	10/13/13
Sample Time	9:25 AM
Sample Received	10/14/13
Method	Modified EPA 5021 A

Compound	**Test Value**	**Units**	**Detection Limit**	**Analysis Date**	**Tech**
Dissolved Gasses					
Methane	2530	µg/L	0.3 µg/L	10/14/2013	swd
Ethylene	85.8	µg/L	0.3 µg/L	10/14/2013	swd
Ethane	<0.3	µg/L	0.3 µg/L	10/14/2013	swd
Acetylene	<2	µg/L	2µg/L	10/14/2013	swd

Project Identification:	Raytheon, Wayland, MA

Sample ID	REW-8
Sampler	dj
Sample Date	10/13/13
Sample Time	8:15 AM
Sample Received	10/14/13
Method	Modified EPA 5021 A

Compound	**Test Value**	**Units**	**Detection Limit**	**Analysis Date**	**Tech**
Dissolved Gasses					
Methane	12006	µg/L	0.3 µg/L	10/14/2013	swd
Ethylene	<0.3	µg/L	0.3 µg/L	10/14/2013	swd
Ethane	<0.3	µg/L	0.3 µg/L	10/14/2013	swd
Acetylene	<2	µg/L	2µg/L	10/14/2013	swd

---Dissolved Gasses---

Project Identification:	Raytheon, Wayland, MA

Sample ID REW-9

Sampler dj
Sample Date 10/13/13
Sample Time 10:25 AM
Sample Received 10/14/13

Method Modified EPA 5021 A

Compound	Test Value	Units	Detection Limit	Analysis Date	Tech
Dissolved Gasses					
Methane	9989	µg/L	0.3 µg/L	10/14/2013	swd
Ethylene	<0.3	µg/L	0.3 µg/L	10/14/2013	swd
Ethane	<0.3	µg/L	0.3 µg/L	10/14/2013	swd
Acetylene	<2	µg/L	2µg/L	10/14/2013	swd

Project Identification:	Raytheon, Wayland, MA

Sample ID REW-10

Sampler dj
Sample Date 10/13/13
Sample Time 11:30 AM
Sample Received 10/14/13

Method Modified EPA 5021 A

Compound	Test Value	Units	Detection Limit	Analysis Date	Tech
Dissolved Gasses					
Methane	25337	µg/L	0.3 µg/L	10/14/2013	swd
Ethylene	<0.3	µg/L	0.3 µg/L	10/14/2013	swd
Ethane	<0.3	µg/L	0.3 µg/L	10/14/2013	swd
Acetylene	<2	µg/L	2µg/L	10/14/2013	swd

---Dissolved Gasses---

Project Identification:	Raytheon, Wayland, MA
Sample ID	REW-12
Sampler	dj
Sample Date	10/13/13
Sample Time	12:15 PM
Sample Received	10/14/13
Method	Modified EPA 5021 A

Compound	**Test Value**	**Units**	**Detection Limit**	**Analysis Date**	**Tech**
Dissolved Gasses					
Methane	1116	µg/L	0.3 µg/L	10/14/2013	swd
Ethylene	6.0	µg/L	0.3 µg/L	10/14/2013	swd
Ethane	<0.3	µg/L	0.3 µg/L	10/14/2013	swd
Acetylene	<2	µg/L	2µg/L	10/14/2013	swd

Project Identification:	Raytheon, Wayland, MA
Sample ID	Trip Blank
Sampler	na
Sample Date	na
Sample Time	na
Sample Received	10/14/13
Method	Modified EPA 5021 A

Compound	**Test Value**	**Units**	**Detection Limit**	**Analysis Date**	**Tech**
Dissolved Gasses					
Methane	<0.3	µg/L	0.3 µg/L	10/14/2013	swd
Ethylene	<0.3	µg/L	0.3 µg/L	10/14/2013	swd
Ethane	<0.3	µg/L	0.3 µg/L	10/14/2013	swd
Acetylene	<2	µg/L	2µg/L	10/14/2013	swd

---Anions---

Project Identification:	Raytheon, Wayland, MA

Sample ID	MW-261 S
Sampler	dj
Sample Date	10/12/2013
Sample Time	9:40 AM
Sample Received	10/14/2013

Method Modified EPA 300

Compound	Test Value	Units	Detection Limit	Analysis Date	Tech
Anions					
Chloride	29	mg/L	1 mg/L	10/14/2013	swd
Nitrate	<1	mg/L	1 mg/L	10/14/2013	swd
Sulfate	<1	mg/L	1 mg/L	10/14/2013	swd

Project Identification:	Raytheon, Wayland, MA

Sample ID	MW-265 M
Sampler	dj
Sample Date	10/14/2013
Sample Time	1:25 PM
Sample Received	10/15/2013

Method Modified EPA 300

Compound	Test Value	Units	Detection Limit	Analysis Date	Tech
Anions					
Chloride	82	mg/L	1 mg/L	10/15/2013	swd
Nitrate	<1	mg/L	1 mg/L	10/15/2013	swd
Sulfate	<1	mg/L	1 mg/L	10/15/2013	swd

Project Identification:	Raytheon, Wayland, MA

Sample ID	MW-267 M
Sampler	dj
Sample Date	10/14/2013
Sample Time	10:05 AM
Sample Received	10/15/2013

Method Modified EPA 300

Compound	Test Value	Units	Detection Limit	Analysis Date	Tech
Anions					
Chloride	31	mg/L	1 mg/L	10/15/2013	swd
Nitrate	<1	mg/L	1 mg/L	10/15/2013	swd
Sulfate	<1	mg/L	1 mg/L	10/15/2013	swd

---Anions---

Bioremediation & Treatability Center

Project Identification:	Raytheon, Wayland, MA

Sample ID	MW-267 S
Sampler	dj
Sample Date	10/14/2013
Sample Time	9:30 AM
Sample Received	10/15/2013

Method Modified EPA 300

Compound	Test Value	Units	Detection Limit	Analysis Date	Tech
Anions					
Chloride	58	mg/L	1 mg/L	10/15/2013	swd
Nitrate	<1	mg/L	1 mg/L	10/15/2013	swd
Sulfate	<1	mg/L	1 mg/L	10/15/2013	swd

Project Identification:	Raytheon, Wayland, MA

Sample ID	MW-268 M
Sampler	dj
Sample Date	10/14/2013
Sample Time	8:40 AM
Sample Received	10/15/2013

Method Modified EPA 300

Compound	Test Value	Units	Detection Limit	Analysis Date	Tech
Anions					
Chloride	19	mg/L	1 mg/L	10/15/2013	swd
Nitrate	<1	mg/L	1 mg/L	10/15/2013	swd
Sulfate	39	mg/L	1 mg/L	10/15/2013	swd

Project Identification:	Raytheon, Wayland, MA

Sample ID	MW-551
Sampler	dj
Sample Date	10/12/2013
Sample Time	10:30 AM
Sample Received	10/14/2013

Method Modified EPA 300

Compound	Test Value	Units	Detection Limit	Analysis Date	Tech
Anions					
Chloride	17	mg/L	1 mg/L	10/14/2013	swd
Nitrate	<1	mg/L	1 mg/L	10/14/2013	swd
Sulfate	<1	mg/L	1 mg/L	10/14/2013	swd

Bioremediation & Treatability Center

Project Identification:	Raytheon, Wayland, MA

Sample ID	MW-552
Sampler	dj
Sample Date	10/12/2013
Sample Time	8:55 AM
Sample Received	10/14/2013

Method Modified EPA 300

Compound	Test Value	Units	Detection Limit	Analysis Date	Tech
Anions					
Chloride	20	mg/L	1 mg/L	10/14/2013	swd
Nitrate	<1	mg/L	1 mg/L	10/14/2013	swd
Sulfate	<1	mg/L	1 mg/L	10/14/2013	swd

Project Identification:	Raytheon, Wayland, MA

Sample ID	MW-553
Sampler	dj
Sample Date	10/12/2013
Sample Time	8:15 AM
Sample Received	10/14/2013

Method Modified EPA 300

Compound	Test Value	Units	Detection Limit	Analysis Date	Tech
Anions					
Chloride	16	mg/L	1 mg/L	10/14/2013	swd
Nitrate	<1	mg/L	1 mg/L	10/14/2013	swd
Sulfate	<1	mg/L	1 mg/L	10/14/2013	swd

Project Identification:	Raytheon, Wayland, MA

Sample ID	MW-560
Sampler	dj
Sample Date	10/14/2013
Sample Time	11:25 AM
Sample Received	10/15/2013

Method Modified EPA 300

Compound	Test Value	Units	Detection Limit	Analysis Date	Tech
Anions					
Chloride	22	mg/L	1 mg/L	10/15/2013	swd
Nitrate	<1	mg/L	1 mg/L	10/15/2013	swd
Sulfate	5	mg/L	1 mg/L	10/15/2013	swd

---Anions---

Project Identification:	Raytheon, Wayland, MA

Sample ID	MW-561
Sampler	dj
Sample Date	10/14/2013
Sample Time	12:50 PM
Sample Received	10/15/2013

Method Modified EPA 300

Compound	Test Value	Units	Detection Limit	Analysis Date	Tech
Anions					
Chloride	25	mg/L	1 mg/L	10/15/2013	swd
Nitrate	<1	mg/L	1 mg/L	10/15/2013	swd
Sulfate	<1	mg/L	1 mg/L	10/15/2013	swd

Project Identification:	Raytheon, Wayland, MA

Sample ID	MW-562
Sampler	dj
Sample Date	10/12/2013
Sample Time	11:10 AM
Sample Received	10/14/2013

Method Modified EPA 300

Compound	Test Value	Units	Detection Limit	Analysis Date	Tech
Anions					
Chloride	31	mg/L	1 mg/L	10/14/2013	swd
Nitrate	<1	mg/L	1 mg/L	10/14/2013	swd
Sulfate	<1	mg/L	1 mg/L	10/14/2013	swd

Project Identification:	Raytheon, Wayland, MA

Sample ID	MW-563
Sampler	dj
Sample Date	10/14/2013
Sample Time	12:05 PM
Sample Received	10/15/2013

Method Modified EPA 300

Compound	Test Value	Units	Detection Limit	Analysis Date	Tech
Anions					
Chloride	34	mg/L	1 mg/L	10/15/2013	swd
Nitrate	<1	mg/L	1 mg/L	10/15/2013	swd
Sulfate	<1	mg/L	1 mg/L	10/15/2013	swd

---Anions---

Project Identification:	Raytheon, Wayland, MA

Sample ID	REW-1
Sampler	dj
Sample Date	10/12/2013
Sample Time	12:05 PM
Sample Received	10/14/2013

Method Modified EPA 300

Compound	Test Value	Units	Detection Limit	Analysis Date	Tech
Anions					
Chloride	17	mg/L	1 mg/L	10/14/2013	swd
Nitrate	<1	mg/L	1 mg/L	10/14/2013	swd
Sulfate	<1	mg/L	1 mg/L	10/14/2013	swd

Project Identification:	Raytheon, Wayland, MA

Sample ID	REW-4
Sampler	dj
Sample Date	10/12/2013
Sample Time	1:45 PM
Sample Received	10/14/2013

Method Modified EPA 300

Compound	Test Value	Units	Detection Limit	Analysis Date	Tech
Anions					
Chloride	14	mg/L	1 mg/L	10/14/2013	swd
Nitrate	<1	mg/L	1 mg/L	10/14/2013	swd
Sulfate	<1	mg/L	1 mg/L	10/14/2013	swd

Project Identification:	Raytheon, Wayland, MA

Sample ID	REW-5
Sampler	dj
Sample Date	10/12/2013
Sample Time	12:50 PM
Sample Received	10/14/2013

Method Modified EPA 300

Compound	Test Value	Units	Detection Limit	Analysis Date	Tech
Anions					
Chloride	25	mg/L	1 mg/L	10/14/2013	swd
Nitrate	<1	mg/L	1 mg/L	10/14/2013	swd
Sulfate	27	mg/L	1 mg/L	10/14/2013	swd

Bioremediation & Treatability Center

Project Identification:	Raytheon, Wayland, MA

Sample ID	REW-6
Sampler	dj
Sample Date	10/13/2013
Sample Time	7:35 AM
Sample Received	10/14/2013

Method Modified EPA 300

Compound	Test Value	Units	Detection Limit	Analysis Date	Tech
Anions					
Chloride	38	mg/L	1 mg/L	10/14/2013	swd
Nitrate	<1	mg/L	1 mg/L	10/14/2013	swd
Sulfate	26	mg/L	1 mg/L	10/14/2013	swd

Project Identification:	Raytheon, Wayland, MA

Sample ID	REW-7
Sampler	dj
Sample Date	10/13/2013
Sample Time	9:25 AM
Sample Received	10/14/2013

Method Modified EPA 300

Compound	Test Value	Units	Detection Limit	Analysis Date	Tech
Anions					
Chloride	21	mg/L	1 mg/L	10/14/2013	swd
Nitrate	<1	mg/L	1 mg/L	10/14/2013	swd
Sulfate	17	mg/L	1 mg/L	10/14/2013	swd

Project Identification:	Raytheon, Wayland, MA

Sample ID	REW-8
Sampler	dj
Sample Date	10/13/2013
Sample Time	8:15 AM
Sample Received	10/14/2013

Method Modified EPA 300

Compound	Test Value	Units	Detection Limit	Analysis Date	Tech
Anions					
Chloride	32	mg/L	1 mg/L	10/14/2013	swd
Nitrate	<1	mg/L	1 mg/L	10/14/2013	swd
Sulfate	11	mg/L	1 mg/L	10/14/2013	swd

Bioremediation & Treatability Center

Project Identification:	Raytheon, Wayland, MA

Sample ID	REW-9
Sampler	dj
Sample Date	10/13/2013
Sample Time	10:25 AM
Sample Received	10/14/2013

Method Modified EPA 300

Compound	Test Value	Units	Detection Limit	Analysis Date	Tech
Anions					
Chloride	29	mg/L	1 mg/L	10/14/2013	swd
Nitrate	<1	mg/L	1 mg/L	10/14/2013	swd
Sulfate	11	mg/L	1 mg/L	10/14/2013	swd

Project Identification:	Raytheon, Wayland, MA

Sample ID	REW-10
Sampler	dj
Sample Date	10/13/2013
Sample Time	11:30 AM
Sample Received	10/14/2013

Method Modified EPA 300

Compound	Test Value	Units	Detection Limit	Analysis Date	Tech
Anions					
Chloride	62	mg/L	1 mg/L	10/14/2013	swd
Nitrate	<1	mg/L	1 mg/L	10/14/2013	swd
Sulfate	31	mg/L	1 mg/L	10/14/2013	swd

Project Identification:	Raytheon, Wayland, MA

Sample ID	REW-12
Sampler	dj
Sample Date	10/13/2013
Sample Time	12:15 PM
Sample Received	10/14/2013

Method Modified EPA 300

Compound	Test Value	Units	Detection Limit	Analysis Date	Tech
Anions					
Chloride	33	mg/L	1 mg/L	10/14/2013	swd
Nitrate	<1	mg/L	1 mg/L	10/14/2013	swd
Sulfate	42	mg/L	1 mg/L	10/14/2013	swd

---Anions---

Project Identification:	Raytheon, Wayland, MA

Sample ID	Trip Blank
Sampler	na
Sample Date	na
Sample Time	na
Sample Received	10/14/2013

Method Modified EPA 300

Compound	**Test Value**	**Units**	**Detection Limit**	**Analysis Date**	**Tech**
Anions					
Chloride	<1	mg/L	1 mg/L	10/14/2013	swd
Nitrate	<1	mg/L	1 mg/L	10/14/2013	swd
Sulfate	<1	mg/L	1 mg/L	10/14/2013	swd

---Organic Acids---

Project Identification:	Raytheon, Wayland, MA
Sample ID	MW-261 S
Sampler	dj
Sample Date	10/12/2013
Sample Time	9:40 AM
Sample Received	10/14/2013
Method	HPLC / Organic Acid Method

Compound	**Test Value**	**Units**	**Detection Limit**	**Analysis Date**	**Tech**
Organic Acids					
Lactate	<1	mg/L	1 mg/L	10/14/2013	swd
Acetate	158	mg/L	1 mg/L	10/14/2013	swd
Propionate	<1	mg/L	1 mg/L	10/14/2013	swd
Butyrate	<1	mg/L	1 mg/L	10/14/2013	swd

Project Identification:	Raytheon, Wayland, MA
Sample ID	MW-265 M
Sampler	dj
Sample Date	10/14/13
Sample Time	1:25 PM
Sample Received	10/15/13
Method	HPLC / Organic Acid Method

Compound	**Test Value**	**Units**	**Detection Limit**	**Analysis Date**	**Tech**
Organic Acids					
Lactate	<1	mg/L	1 mg/L	10/15/2013	swd
Acetate	1004	mg/L	1 mg/L	10/15/2013	swd
Propionate	<1	mg/L	1 mg/L	10/15/2013	swd
Butyrate	39	mg/L	1 mg/L	10/15/2013	swd

Project Identification:	Raytheon, Wayland, MA
Sample ID	MW-267 M
Sampler	dj
Sample Date	10/14/13
Sample Time	10:05 AM
Sample Received	10/15/13
Method	HPLC / Organic Acid Method

Compound	**Test Value**	**Units**	**Detection Limit**	**Analysis Date**	**Tech**
Organic Acids					
Lactate	<1	mg/L	1 mg/L	10/15/2013	swd
Acetate	413	mg/L	1 mg/L	10/15/2013	swd
Propionate	12	mg/L	1 mg/L	10/15/2013	swd
Butyrate	<1	mg/L	1 mg/L	10/15/2013	swd

Bioremediation & Treatability Center

Project Identification: Raytheon, Wayland, MA

Sample ID MW-267 S

Sampler dj
Sample Date 10/14/13
Sample Time 9:30 AM
Sample Received 10/15/13

Method HPLC / Organic Acid Method

Compound	Test Value	Units	Detection Limit	Analysis Date	Tech
Organic Acids					
Lactate	<1	mg/L	1 mg/L	10/15/2013	swd
Acetate	237	mg/L	1 mg/L	10/15/2013	swd
Propionate	<1	mg/L	1 mg/L	10/15/2013	swd
Butyrate	<1	mg/L	1 mg/L	10/15/2013	swd

Project Identification: Raytheon, Wayland, MA

Sample ID MW-268 M

Sampler dj
Sample Date 10/14/13
Sample Time 8:40 AM
Sample Received 10/15/13

Method HPLC / Organic Acid Method

Compound	Test Value	Units	Detection Limit	Analysis Date	Tech
Organic Acids					
Lactate	<1	mg/L	1 mg/L	10/15/2013	swd
Acetate	<1	mg/L	1 mg/L	10/15/2013	swd
Propionate	<1	mg/L	1 mg/L	10/15/2013	swd
Butyrate	<1	mg/L	1 mg/L	10/15/2013	swd

Project Identification: Raytheon, Wayland, MA

Sample ID MW-551

Sampler dj
Sample Date 10/12/13
Sample Time 10:30 AM
Sample Received 10/14/13

Method HPLC / Organic Acid Method

Compound	Test Value	Units	Detection Limit	Analysis Date	Tech
Organic Acids					
Lactate	<1	mg/L	1 mg/L	10/14/2013	swd
Acetate	197	mg/L	1 mg/L	10/14/2013	swd
Propionate	<1	mg/L	1 mg/L	10/14/2013	swd
Butyrate	<1	mg/L	1 mg/L	10/14/2013	swd

---Organic Acids---

Project Identification:	Raytheon, Wayland, MA
Sample ID	MW-552
Sampler	dj
Sample Date	10/12/13
Sample Time	8:55 AM
Sample Received	10/14/13
Method	HPLC / Organic Acid Method

Compound	**Test Value**	**Units**	**Detection Limit**	**Analysis Date**	**Tech**
Organic Acids					
Lactate	<1	mg/L	1 mg/L	10/14/2013	swd
Acetate	109	mg/L	1 mg/L	10/14/2013	swd
Propionate	<1	mg/L	1 mg/L	10/14/2013	swd
Butyrate	<1	mg/L	1 mg/L	10/14/2013	swd

Project Identification:	Raytheon, Wayland, MA
Sample ID	MW-553
Sampler	dj
Sample Date	10/12/13
Sample Time	8:15 AM
Sample Received	10/14/13
Method	HPLC / Organic Acid Method

Compound	**Test Value**	**Units**	**Detection Limit**	**Analysis Date**	**Tech**
Organic Acids					
Lactate	<1	mg/L	1 mg/L	10/14/2013	swd
Acetate	19	mg/L	1 mg/L	10/14/2013	swd
Propionate	<1	mg/L	1 mg/L	10/14/2013	swd
Butyrate	<1	mg/L	1 mg/L	10/14/2013	swd

Project Identification:	Raytheon, Wayland, MA
Sample ID	MW-560
Sampler	dj
Sample Date	10/14/13
Sample Time	11:25:00 AM
Sample Received	10/15/13
Method	HPLC / Organic Acid Method

Compound	**Test Value**	**Units**	**Detection Limit**	**Analysis Date**	**Tech**
Organic Acids					
Lactate	<1	mg/L	1 mg/L	10/15/2013	swd
Acetate	126	mg/L	1 mg/L	10/15/2013	swd
Propionate	<1	mg/L	1 mg/L	10/15/2013	swd
Butyrate	<1	mg/L	1 mg/L	10/15/2013	swd

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Project Identification:	Raytheon, Wayland, MA
Sample ID	MW-561
Sampler	dj
Sample Date	10/14/13
Sample Time	12:50 PM
Sample Received	10/15/13
Method	HPLC / Organic Acid Method

Compound	**Test Value**	**Units**	**Detection Limit**	**Analysis Date**	**Tech**
Organic Acids					
Lactate	<1	mg/L	1 mg/L	10/15/2013	swd
Acetate	255	mg/L	1 mg/L	10/15/2013	swd
Propionate	<1	mg/L	1 mg/L	10/15/2013	swd
Butyrate	<1	mg/L	1 mg/L	10/15/2013	swd

Project Identification:	Raytheon, Wayland, MA
Sample ID	MW-562
Sampler	dj
Sample Date	10/12/13
Sample Time	11:10 AM
Sample Received	10/14/13
Method	HPLC / Organic Acid Method

Compound	**Test Value**	**Units**	**Detection Limit**	**Analysis Date**	**Tech**
Organic Acids					
Lactate	<1	mg/L	1 mg/L	10/14/2013	swd
Acetate	72	mg/L	1 mg/L	10/14/2013	swd
Propionate	<1	mg/L	1 mg/L	10/14/2013	swd
Butyrate	<1	mg/L	1 mg/L	10/14/2013	swd

Project Identification:	Raytheon, Wayland, MA
Sample ID	MW-563
Sampler	dj
Sample Date	10/14/13
Sample Time	12:05 PM
Sample Received	10/15/13
Method	HPLC / Organic Acid Method

Compound	**Test Value**	**Units**	**Detection Limit**	**Analysis Date**	**Tech**
Organic Acids					
Lactate	<1	mg/L	1 mg/L	10/15/2013	swd
Acetate	661	mg/L	1 mg/L	10/15/2013	swd
Propionate	12	mg/L	1 mg/L	10/15/2013	swd
Butyrate	8	mg/L	1 mg/L	10/15/2013	swd

---Organic Acids---

Project Identification:	Raytheon, Wayland, MA
Sample ID	REW-1
Sampler	dj
Sample Date	10/12/13
Sample Time	12:05 PM
Sample Received	10/14/13

Method HPLC / Organic Acid Method

Compound	Test Value	Units	Detection Limit	Analysis Date	Tech
Organic Acids					
Lactate	<1	mg/L	1 mg/L	10/14/2013	swd
Acetate	17	mg/L	1 mg/L	10/14/2013	swd
Propionate	<1	mg/L	1 mg/L	10/14/2013	swd
Butyrate	<1	mg/L	1 mg/L	10/14/2013	swd

Project Identification:	Raytheon, Wayland, MA
Sample ID	REW-4
Sampler	dj
Sample Date	10/12/13
Sample Time	1:45 PM
Sample Received	10/14/13

Method HPLC / Organic Acid Method

Compound	Test Value	Units	Detection Limit	Analysis Date	Tech
Organic Acids					
Lactate	<1	mg/L	1 mg/L	10/14/2013	swd
Acetate	39	mg/L	1 mg/L	10/14/2013	swd
Propionate	<1	mg/L	1 mg/L	10/14/2013	swd
Butyrate	<1	mg/L	1 mg/L	10/14/2013	swd

Project Identification:	Raytheon, Wayland, MA
Sample ID	REW-5
Sampler	dj
Sample Date	10/12/13
Sample Time	12:50 PM
Sample Received	10/14/13

Method HPLC / Organic Acid Method

Compound	Test Value	Units	Detection Limit	Analysis Date	Tech
Organic Acids					
Lactate	<1	mg/L	1 mg/L	10/14/2013	swd
Acetate	<1	mg/L	1 mg/L	10/14/2013	swd
Propionate	<1	mg/L	1 mg/L	10/14/2013	swd
Butyrate	<1	mg/L	1 mg/L	10/14/2013	swd

Bioremediation & Treatability Center

Project Identification:	Raytheon, Wayland, MA
Sample ID	REW-6
Sampler	dj
Sample Date	10/13/13
Sample Time	7:35 AM
Sample Received	10/14/13
Method	HPLC / Organic Acid Method

Compound	**Test Value**	**Units**	**Detection Limit**	**Analysis Date**	**Tech**
Organic Acids					
Lactate	<1	mg/L	1 mg/L	10/14/2013	swd
Acetate	150	mg/L	1 mg/L	10/14/2013	swd
Propionate	<1	mg/L	1 mg/L	10/14/2013	swd
Butyrate	<1	mg/L	1 mg/L	10/14/2013	swd

Project Identification:	Raytheon, Wayland, MA
Sample ID	REW-7
Sampler	dj
Sample Date	10/13/13
Sample Time	9:25 AM
Sample Received	10/14/13
Method	HPLC / Organic Acid Method

Compound	**Test Value**	**Units**	**Detection Limit**	**Analysis Date**	**Tech**
Organic Acids					
Lactate	<1	mg/L	1 mg/L	10/14/2013	swd
Acetate	139	mg/L	1 mg/L	10/14/2013	swd
Propionate	<1	mg/L	1 mg/L	10/14/2013	swd
Butyrate	<1	mg/L	1 mg/L	10/14/2013	swd

Project Identification:	Raytheon, Wayland, MA
Sample ID	REW-8
Sampler	dj
Sample Date	10/13/13
Sample Time	8:15 AM
Sample Received	10/14/13
Method	HPLC / Organic Acid Method

Compound	**Test Value**	**Units**	**Detection Limit**	**Analysis Date**	**Tech**
Organic Acids					
Lactate	<1	mg/L	1 mg/L	10/14/2013	swd
Acetate	195	mg/L	1 mg/L	10/14/2013	swd
Propionate	11	mg/L	1 mg/L	10/14/2013	swd
Butyrate	5	mg/L	1 mg/L	10/14/2013	swd

Bioremediation & Treatability Center

Project Identification:	Raytheon, Wayland, MA
Sample ID	REW-9
Sampler	dj
Sample Date	10/13/13
Sample Time	10:25 AM
Sample Received	10/14/13
Method	HPLC / Organic Acid Method

Compound	**Test Value**	**Units**	**Detection Limit**	**Analysis Date**	**Tech**
Organic Acids					
Lactate	<1	mg/L	1 mg/L	10/14/2013	swd
Acetate	177	mg/L	1 mg/L	10/14/2013	swd
Propionate	11	mg/L	1 mg/L	10/14/2013	swd
Butyrate	<1	mg/L	1 mg/L	10/14/2013	swd

Project Identification:	Raytheon, Wayland, MA
Sample ID	REW-10
Sampler	dj
Sample Date	10/13/13
Sample Time	11:30 AM
Sample Received	10/14/13
Method	HPLC / Organic Acid Method

Compound	**Test Value**	**Units**	**Detection Limit**	**Analysis Date**	**Tech**
Organic Acids					
Lactate	<1	mg/L	1 mg/L	10/14/2013	swd
Acetate	41	mg/L	1 mg/L	10/14/2013	swd
Propionate	<1	mg/L	1 mg/L	10/14/2013	swd
Butyrate	5	mg/L	1 mg/L	10/14/2013	swd

Project Identification:	Raytheon, Wayland, MA
Sample ID	REW-12
Sampler	dj
Sample Date	10/13/13
Sample Time	12:15 PM
Sample Received	10/14/13
Method	HPLC / Organic Acid Method

Compound	**Test Value**	**Units**	**Detection Limit**	**Analysis Date**	**Tech**
Organic Acids					
Lactate	<1	mg/L	1 mg/L	10/14/2013	swd
Acetate	46	mg/L	1 mg/L	10/14/2013	swd
Propionate	<1	mg/L	1 mg/L	10/14/2013	swd
Butyrate	<1	mg/L	1 mg/L	10/14/2013	swd

---Organic Acids---

Project Identification:	Raytheon, Wayland, MA

Sample ID	Trip Blank
Sampler	na
Sample Date	na
Sample Time	na
Sample Received	10/14/13
Method	HPLC / Organic Acid Method

Compound	**Test Value**	**Units**	**Detection Limit**	**Analysis Date**	**Tech**
Organic Acids					
Lactate	<1	mg/L	1 mg/L	10/14/2013	swd
Acetate	<1	mg/L	1 mg/L	10/14/2013	swd
Propionate	<1	mg/L	1 mg/L	10/14/2013	swd
Butyrate	<1	mg/L	1 mg/L	10/14/2013	swd

---Chemistries---

Project Identification:	Raytheon, Wayland, MA

Sample ID	MW-261 S
Sampler	dj
Sample Date	10/12/2013
Sample Time	9:40 AM
Sample Received	10/14/2013

Chemical Tests	**Test Value**	**Units**	**Method**	**Detection Limit**	**Analysis Date**	**Tech**
Alkalinity	605	mg/L	HACH 8203	5 mg/L	10/14/2013	rdr
Manganese	na	mg/L	HACH 8034	0.12 mg/L	na	na
NH_3-N	0.57	mg/L	HACH 8155	0.02 mg/L	10/14/2013	rdr
PO_4	0.11	mg/L	HACH 8048	0.05 mg/L	10/15/2013	rdr
Sulfide	na	mg/L	HACH 8131	0.01 mg/L	na	na
Total Iron	89.5	mg/L	HACH 8008	0.03 mg/L	10/16/2013	rdr
COD	na	mg/L	HACH 8000	<2 mg/L	na	na
TOC	119	mg/L	EPA 9060A	<0.3 mg/L	10/15/2013	swd
pH	7.05	pH units	pH probe	<0.01 pH units	10/14/2013	rdr

Project Identification:	Raytheon, Wayland, MA

Sample ID	MW-265 M
Sampler	dj
Sample Date	10/14/2013
Sample Time	1:25 PM
Sample Received	10/15/2013

Chemical Tests	**Test Value**	**Units**	**Method**	**Detection Limit**	**Analysis Date**	**Tech**
Alkalinity	565	mg/L	HACH 8203	5 mg/L	10/15/2013	rdr
Manganese	na	mg/L	HACH 8034	0.12 mg/L	na	na
NH_3-N	0.17	mg/L	HACH 8155	0.02 mg/L	10/15/2013	rdr
PO_4	0.73	mg/L	HACH 8048	0.05 mg/L	10/15/2013	rdr
Sulfide	na	mg/L	HACH 8131	0.01 mg/L	na	na
Total Iron	88.5	mg/L	HACH 8008	0.03 mg/L	10/16/2013	rdr
COD	na	mg/L	HACH 8000	<2 mg/L	na	na
TOC	649	mg/L	EPA 9060A	<0.3 mg/L	10/16/2013	swd
pH	5.51	pH units	pH probe	<0.01 pH units	10/15/2013	rdr

---Chemistries---

Bioremediation & Treatability Center

Project Identification: Raytheon, Wayland, MA

Sample ID MW-267 M

Sampler dj
Sample Date 10/14/2013
Sample Time 10:05 AM
Sample Received 10/15/2013

Chemical Tests	Test Value	Units	Method	Detection Limit	Analysis Date	Tech
Alkalinity	320	mg/L	HACH 8203	5 mg/L	10/15/2013	rdr
Manganese	na	mg/L	HACH 8034	0.12 mg/L	na	na
NH_3-N	0.25	mg/L	HACH 8155	0.02 mg/L	10/15/2013	rdr
PO_4	0.35	mg/L	HACH 8048	0.05 mg/L	10/15/2013	rdr
Sulfide	na	mg/L	HACH 8131	0.01 mg/L	na	na
Total Iron	78.5	mg/L	HACH 8008	0.03 mg/L	10/16/2013	rdr
COD	na	mg/L	HACH 8000	<2 mg/L	na	na
TOC	749	mg/L	EPA 9060A	<0.3 mg/L	10/16/2013	swd
pH	6.42	pH units	pH probe	<0.01 pH units	10/15/2013	rdr

Project Identification: Raytheon, Wayland, MA

Sample ID MW-267 S

Sampler dj
Sample Date 10/14/2013
Sample Time 9:30 AM
Sample Received 10/15/2013

Chemical Tests	Test Value	Units	Method	Detection Limit	Analysis Date	Tech
Alkalinity	220	mg/L	HACH 8203	5 mg/L	10/15/2013	rdr
Manganese	na	mg/L	HACH 8034	0.12 mg/L	na	na
NH_3-N	0.16	mg/L	HACH 8155	0.02 mg/L	10/15/2013	rdr
PO_4	0.45	mg/L	HACH 8048	0.05 mg/L	10/15/2013	rdr
Sulfide	na	mg/L	HACH 8131	0.01 mg/L	na	na
Total Iron	15.5	mg/L	HACH 8008	0.03 mg/L	10/16/2013	rdr
COD	na	mg/L	HACH 8000	<2 mg/L	na	na
TOC	485	mg/L	EPA 9060A	<0.3 mg/L	10/16/2013	swd
pH	5.86	pH units	pH probe	<0.01 pH units	10/15/2013	rdr

---Chemistries---

Project Identification:	Raytheon, Wayland, MA

Sample ID	MW-268 M
Sampler	dj
Sample Date	10/14/2013
Sample Time	8:40 AM
Sample Received	10/15/2013

Chemical Tests	Test Value	Units	Method	Detection Limit	Analysis Date	Tech
Alkalinity	180	mg/L	HACH 8203	5 mg/L	10/15/2013	rdr
Manganese	na	mg/L	HACH 8034	0.12 mg/L	na	na
NH_3-N	0.07	mg/L	HACH 8155	0.02 mg/L	10/15/2013	rdr
PO_4	0.23	mg/L	HACH 8048	0.05 mg/L	10/15/2013	rdr
Sulfide	na	mg/L	HACH 8131	0.01 mg/L	na	na
Total Iron	21.3	mg/L	HACH 8008	0.03 mg/L	10/16/2013	rdr
COD	na	mg/L	HACH 8000	<2 mg/L	na	na
TOC	2.2	mg/L	EPA 9060A	<0.3 mg/L	10/16/2013	swd
pH	6.53	pH units	pH probe	<0.01 pH units	10/15/2013	rdr

Project Identification:	Raytheon, Wayland, MA

Sample ID	MW-551
Sampler	dj
Sample Date	10/12/2013
Sample Time	10:30 AM
Sample Received	10/14/2013

Chemical Tests	Test Value	Units	Method	Detection Limit	Analysis Date	Tech
Alkalinity	240	mg/L	HACH 8203	5 mg/L	10/14/2013	rdr
Manganese	na	mg/L	HACH 8034	0.12 mg/L	na	na
NH_3-N	0.07	mg/L	HACH 8155	0.02 mg/L	10/14/2013	rdr
PO_4	0.25	mg/L	HACH 8048	0.05 mg/L	10/15/2013	rdr
Sulfide	na	mg/L	HACH 8131	0.01 mg/L	na	na
Total Iron	43.5	mg/L	HACH 8008	0.03 mg/L	10/16/2013	rdr
COD	na	mg/L	HACH 8000	<2 mg/L	na	na
TOC	266	mg/L	EPA 9060A	<0.3 mg/L	10/15/2013	swd
pH	6.73	pH units	pH probe	<0.01 pH units	10/14/2013	rdr

---Chemistries---

Project Identification:	Raytheon, Wayland, MA

Sample ID	MW-552
Sampler	dj
Sample Date	10/12/2013
Sample Time	8:55 AM
Sample Received	10/14/2013

Chemical Tests	Test Value	Units	Method	Detection Limit	Analysis Date	Tech
Alkalinity	540	mg/L	HACH 8203	5 mg/L	10/14/2013	rdr
Manganese	na	mg/L	HACH 8034	0.12 mg/L	na	na
NH_3-N	0.42	mg/L	HACH 8155	0.02 mg/L	10/14/2013	rdr
PO_4	0.12	mg/L	HACH 8048	0.05 mg/L	10/15/2013	rdr
Sulfide	na	mg/L	HACH 8131	0.01 mg/L	na	na
Total Iron	50.5	mg/L	HACH 8008	0.03 mg/L	10/16/2013	rdr
COD	na	mg/L	HACH 8000	<2 mg/L	na	na
TOC	76.5	mg/L	EPA 9060A	<0.3 mg/L	10/15/2013	swd
pH	6.89	pH units	pH probe	<0.01 pH units	10/14/2013	rdr

Project Identification:	Raytheon, Wayland, MA

Sample ID	MW-553
Sampler	dj
Sample Date	10/12/2013
Sample Time	8:15 AM
Sample Received	10/14/2013

Chemical Tests	Test Value	Units	Method	Detection Limit	Analysis Date	Tech
Alkalinity	510	mg/L	HACH 8203	5 mg/L	10/14/2013	rdr
Manganese	na	mg/L	HACH 8034	0.12 mg/L	na	na
NH_3-N	0.08	mg/L	HACH 8155	0.02 mg/L	10/14/2013	rdr
PO_4	0.05	mg/L	HACH 8048	0.05 mg/L	10/15/2013	rdr
Sulfide	na	mg/L	HACH 8131	0.01 mg/L	na	na
Total Iron	10.2	mg/L	HACH 8008	0.03 mg/L	10/16/2013	rdr
COD	na	mg/L	HACH 8000	<2 mg/L	na	na
TOC	15.0	mg/L	EPA 9060A	<0.3 mg/L	10/15/2013	swd
pH	7.16	pH units	pH probe	<0.01 pH units	10/14/2013	rdr

---Chemistries---

Project Identification:	Raytheon, Wayland, MA

Sample ID	MW-560
Sampler	dj
Sample Date	10/14/2013
Sample Time	11:25 AM
Sample Received	10/15/2013

Chemical Tests	**Test Value**	**Units**	**Method**	**Detection Limit**	**Analysis Date**	**Tech**
Alkalinity	160	mg/L	HACH 8203	5 mg/L	10/15/2013	rdr
Manganese	na	mg/L	HACH 8034	0.12 mg/L	na	na
NH_3-N	0.43	mg/L	HACH 8155	0.02 mg/L	10/15/2013	rdr
PO_4	0.18	mg/L	HACH 8048	0.05 mg/L	10/15/2013	rdr
Sulfide	na	mg/L	HACH 8131	0.01 mg/L	na	na
Total Iron	0.26	mg/L	HACH 8008	0.03 mg/L	10/16/2013	rdr
COD	na	mg/L	HACH 8000	<2 mg/L	na	na
TOC	790	mg/L	EPA 9060A	<0.3 mg/L	10/16/2013	swd
pH	8.17	pH units	pH probe	<0.01 pH units	10/15/2013	rdr

Project Identification:	Raytheon, Wayland, MA

Sample ID	MW-561
Sampler	dj
Sample Date	10/14/2013
Sample Time	12:50 PM
Sample Received	10/15/2013

Chemical Tests	**Test Value**	**Units**	**Method**	**Detection Limit**	**Analysis Date**	**Tech**
Alkalinity	240	mg/L	HACH 8203	5 mg/L	10/15/2013	rdr
Manganese	na	mg/L	HACH 8034	0.12 mg/L	na	na
NH_3-N	0.05	mg/L	HACH 8155	0.02 mg/L	10/15/2013	rdr
PO_4	0.24	mg/L	HACH 8048	0.05 mg/L	10/15/2013	rdr
Sulfide	na	mg/L	HACH 8131	0.01 mg/L	na	na
Total Iron	19.9	mg/L	HACH 8008	0.03 mg/L	10/16/2013	rdr
COD	na	mg/L	HACH 8000	<2 mg/L	na	na
TOC	1007	mg/L	EPA 9060A	<0.3 mg/L	10/16/2013	swd
pH	6.99	pH units	pH probe	<0.01 pH units	10/15/2013	rdr

---Chemistries---

Project Identification:	Raytheon, Wayland, MA

Sample ID	MW-562
Sampler	dj
Sample Date	10/12/2013
Sample Time	11:10 AM
Sample Received	10/14/2013

Chemical Tests	**Test Value**	**Units**	**Method**	**Detection Limit**	**Analysis Date**	**Tech**
Alkalinity	360	mg/L	HACH 8203	5 mg/L	10/14/2013	rdr
Manganese	na	mg/L	HACH 8034	0.12 mg/L	na	na
NH_3-N	4.00	mg/L	HACH 8155	0.02 mg/L	10/14/2013	rdr
PO_4	0.74	mg/L	HACH 8048	0.05 mg/L	10/15/2013	rdr
Sulfide	na	mg/L	HACH 8131	0.01 mg/L	na	na
Total Iron	68.0	mg/L	HACH 8008	0.03 mg/L	10/16/2013	rdr
COD	na	mg/L	HACH 8000	<2 mg/L	na	na
TOC	52.9	mg/L	EPA 9060A	<0.3 mg/L	10/15/2013	swd
pH	6.69	pH units	pH probe	<0.01 pH units	10/14/2013	rdr

Project Identification:	Raytheon, Wayland, MA

Sample ID	MW-563
Sampler	dj
Sample Date	10/14/2013
Sample Time	12:05 PM
Sample Received	10/15/2013

Chemical Tests	**Test Value**	**Units**	**Method**	**Detection Limit**	**Analysis Date**	**Tech**
Alkalinity	340	mg/L	HACH 8203	5 mg/L	10/15/2013	rdr
Manganese	na	mg/L	HACH 8034	0.12 mg/L	na	na
NH_3-N	0.14	mg/L	HACH 8155	0.02 mg/L	10/15/2013	rdr
PO_4	0.27	mg/L	HACH 8048	0.05 mg/L	10/15/2013	rdr
Sulfide	na	mg/L	HACH 8131	0.01 mg/L	na	na
Total Iron	65.5	mg/L	HACH 8008	0.03 mg/L	10/16/2013	rdr
COD	na	mg/L	HACH 8000	<2 mg/L	na	na
TOC	1136	mg/L	EPA 9060A	<0.3 mg/L	10/16/2013	swd
pH	6.41	pH units	pH probe	<0.01 pH units	10/15/2013	rdr

---Chemistries---

Project Identification:	Raytheon, Wayland, MA

Sample ID	REW-1
Sampler	dj
Sample Date	10/12/2013
Sample Time	12:05 PM
Sample Received	10/14/2013

Chemical Tests	**Test Value**	**Units**	**Method**	**Detection Limit**	**Analysis Date**	**Tech**
Alkalinity	380	mg/L	HACH 8203	5 mg/L	10/14/2013	rdr
Manganese	na	mg/L	HACH 8034	0.12 mg/L	na	na
NH_3-N	3.00	mg/L	HACH 8155	0.02 mg/L	10/14/2013	rdr
PO_4	0.56	mg/L	HACH 8048	0.05 mg/L	10/15/2013	rdr
Sulfide	na	mg/L	HACH 8131	0.01 mg/L	na	na
Total Iron	38.5	mg/L	HACH 8008	0.03 mg/L	10/16/2013	rdr
COD	na	mg/L	HACH 8000	<2 mg/L	na	na
TOC	16.3	mg/L	EPA 9060A	<0.3 mg/L	10/15/2013	swd
pH	6.87	pH units	pH probe	<0.01 pH units	10/14/2013	rdr

Project Identification:	Raytheon, Wayland, MA

Sample ID	REW-4
Sampler	dj
Sample Date	10/12/2013
Sample Time	1:45 PM
Sample Received	10/14/2013

Chemical Tests	**Test Value**	**Units**	**Method**	**Detection Limit**	**Analysis Date**	**Tech**
Alkalinity	380	mg/L	HACH 8203	5 mg/L	10/14/2013	rdr
Manganese	na	mg/L	HACH 8034	0.12 mg/L	na	na
NH_3-N	11.0	mg/L	HACH 8155	0.02 mg/L	10/14/2013	rdr
PO_4	3.34	mg/L	HACH 8048	0.05 mg/L	10/15/2013	rdr
Sulfide	na	mg/L	HACH 8131	0.01 mg/L	na	na
Total Iron	9.70	mg/L	HACH 8008	0.03 mg/L	10/16/2013	rdr
COD	na	mg/L	HACH 8000	<2 mg/L	na	na
TOC	453	mg/L	EPA 9060A	<0.3 mg/L	10/15/2013	swd
pH	6.80	pH units	pH probe	<0.01 pH units	10/14/2013	rdr

---Chemistries---

Project Identification:	Raytheon, Wayland, MA

Sample ID	REW-5
Sampler	dj
Sample Date	10/12/2013
Sample Time	12:50 PM
Sample Received	10/14/2013

Chemical Tests	Test Value	Units	Method	Detection Limit	Analysis Date	Tech
Alkalinity	120	mg/L	HACH 8203	5 mg/L	10/14/2013	rdr
Manganese	na	mg/L	HACH 8034	0.12 mg/L	na	na
NH_3-N	0.39	mg/L	HACH 8155	0.02 mg/L	10/14/2013	rdr
PO_4	0.55	mg/L	HACH 8048	0.05 mg/L	10/15/2013	rdr
Sulfide	na	mg/L	HACH 8131	0.01 mg/L	na	na
Total Iron	0.52	mg/L	HACH 8008	0.03 mg/L	10/16/2013	rdr
COD	na	mg/L	HACH 8000	<2 mg/L	na	na
TOC	8.1	mg/L	EPA 9060A	<0.3 mg/L	10/15/2013	swd
pH	7.10	pH units	pH probe	<0.01 pH units	10/14/2013	rdr

Project Identification:	Raytheon, Wayland, MA

Sample ID	REW-6
Sampler	dj
Sample Date	10/13/2013
Sample Time	7:35 AM
Sample Received	10/14/2013

Chemical Tests	Test Value	Units	Method	Detection Limit	Analysis Date	Tech
Alkalinity	180	mg/L	HACH 8203	5 mg/L	10/14/2013	rdr
Manganese	na	mg/L	HACH 8034	0.12 mg/L	na	na
NH_3-N	0.11	mg/L	HACH 8155	0.02 mg/L	10/14/2013	rdr
PO_4	0.07	mg/L	HACH 8048	0.05 mg/L	10/15/2013	rdr
Sulfide	na	mg/L	HACH 8131	0.01 mg/L	na	na
Total Iron	35.5	mg/L	HACH 8008	0.03 mg/L	10/16/2013	rdr
COD	na	mg/L	HACH 8000	<2 mg/L	na	na
TOC	479	mg/L	EPA 9060A	<0.3 mg/L	10/15/2013	swd
pH	6.70	pH units	pH probe	<0.01 pH units	10/14/2013	rdr

---Chemistries---

Project Identification:	Raytheon, Wayland, MA

Sample ID	REW-7
Sampler	dj
Sample Date	10/13/2013
Sample Time	9:25 AM
Sample Received	10/14/2013

Chemical Tests	Test Value	Units	Method	Detection Limit	Analysis Date	Tech
Alkalinity	160	mg/L	HACH 8203	5 mg/L	10/14/2013	rdr
Manganese	na	mg/L	HACH 8034	0.12 mg/L	na	na
NH_3-N	0.16	mg/L	HACH 8155	0.02 mg/L	10/14/2013	rdr
PO_4	0.51	mg/L	HACH 8048	0.05 mg/L	10/15/2013	rdr
Sulfide	na	mg/L	HACH 8131	0.01 mg/L	na	na
Total Iron	25.0	mg/L	HACH 8008	0.03 mg/L	10/16/2013	rdr
COD	na	mg/L	HACH 8000	<2 mg/L	na	na
TOC	98.6	mg/L	EPA 9060A	<0.3 mg/L	10/15/2013	swd
pH	6.68	pH units	pH probe	<0.01 pH units	10/14/2013	rdr

Project Identification:	Raytheon, Wayland, MA

Sample ID	REW-8
Sampler	dj
Sample Date	10/13/2013
Sample Time	8:15 AM
Sample Received	10/14/2013

Chemical Tests	Test Value	Units	Method	Detection Limit	Analysis Date	Tech
Alkalinity	200	mg/L	HACH 8203	5 mg/L	10/14/2013	rdr
Manganese	na	mg/L	HACH 8034	0.12 mg/L	na	na
NH_3-N	0.18	mg/L	HACH 8155	0.02 mg/L	10/14/2013	rdr
PO_4	0.25	mg/L	HACH 8048	0.05 mg/L	10/15/2013	rdr
Sulfide	na	mg/L	HACH 8131	0.01 mg/L	na	na
Total Iron	31.7	mg/L	HACH 8008	0.03 mg/L	10/16/2013	rdr
COD	na	mg/L	HACH 8000	<2 mg/L	na	na
TOC	250	mg/L	EPA 9060A	<0.3 mg/L	10/15/2013	swd
pH	6.67	pH units	pH probe	<0.01 pH units	10/14/2013	rdr

---Chemistries---

Project Identification:	Raytheon, Wayland, MA

Sample ID	REW-9
Sampler	dj
Sample Date	10/13/2013
Sample Time	10:25 AM
Sample Received	10/14/2013

Chemical Tests	Test Value	Units	Method	Detection Limit	Analysis Date	Tech
Alkalinity	180	mg/L	HACH 8203	5 mg/L	10/14/2013	rdr
Manganese	na	mg/L	HACH 8034	0.12 mg/L	na	na
NH_3-N	0.19	mg/L	HACH 8155	0.02 mg/L	10/14/2013	rdr
PO_4	0.21	mg/L	HACH 8048	0.05 mg/L	10/15/2013	rdr
Sulfide	na	mg/L	HACH 8131	0.01 mg/L	na	na
Total Iron	8.40	mg/L	HACH 8008	0.03 mg/L	10/16/2013	rdr
COD	na	mg/L	HACH 8000	<2 mg/L	na	na
TOC	587	mg/L	EPA 9060A	<0.3 mg/L	10/15/2013	swd
pH	6.74	pH units	pH probe	<0.01 pH units	10/14/2013	rdr

Project Identification:	Raytheon, Wayland, MA

Sample ID	REW-10
Sampler	dj
Sample Date	10/13/2013
Sample Time	11:30 AM
Sample Received	10/14/2013

Chemical Tests	Test Value	Units	Method	Detection Limit	Analysis Date	Tech
Alkalinity	120	mg/L	HACH 8203	5 mg/L	10/14/2013	rdr
Manganese	na	mg/L	HACH 8034	0.12 mg/L	na	na
NH_3-N	0.31	mg/L	HACH 8155	0.02 mg/L	10/14/2013	rdr
PO_4	0.13	mg/L	HACH 8048	0.05 mg/L	10/15/2013	rdr
Sulfide	na	mg/L	HACH 8131	0.01 mg/L	na	na
Total Iron	11.5	mg/L	HACH 8008	0.03 mg/L	10/16/2013	rdr
COD	na	mg/L	HACH 8000	<2 mg/L	na	na
TOC	95.2	mg/L	EPA 9060A	<0.3 mg/L	10/15/2013	swd
pH	6.65	pH units	pH probe	<0.01 pH units	10/14/2013	rdr

---Chemistries---

Project Identification:	Raytheon, Wayland, MA

Sample ID	REW-12
Sampler	dj
Sample Date	10/13/2013
Sample Time	12:15 PM
Sample Received	10/14/2013

Chemical Tests	Test Value	Units	Method	Detection Limit	Analysis Date	Tech
Alkalinity	120	mg/L	HACH 8203	5 mg/L	10/14/2013	rdr
Manganese	na	mg/L	HACH 8034	0.12 mg/L	na	na
NH_3-N	0.10	mg/L	HACH 8155	0.02 mg/L	10/14/2013	rdr
PO_4	0.32	mg/L	HACH 8048	0.05 mg/L	10/15/2013	rdr
Sulfide	na	mg/L	HACH 8131	0.01 mg/L	na	na
Total Iron	26.8	mg/L	HACH 8008	0.03 mg/L	10/16/2013	rdr
COD	na	mg/L	HACH 8000	<2 mg/L	na	na
TOC	49.9	mg/L	EPA 9060A	<0.3 mg/L	10/15/2013	swd
pH	6.60	pH units	pH probe	<0.01 pH units	10/14/2013	rdr

Project Identification:	Raytheon, Wayland, MA

Sample ID	Trip Blank
Sampler	na
Sample Date	na
Sample Time	na
Sample Received	10/14/2013

Chemical Tests	Test Value	Units	Method	Detection Limit	Analysis Date	Tech
Alkalinity	10	mg/L	HACH 8203	5 mg/L	10/14/2013	rdr
Manganese	na	mg/L	HACH 8034	0.12 mg/L	na	na
NH_3-N	<0.02	mg/L	HACH 8155	0.02 mg/L	10/14/2013	rdr
PO_4	<0.05	mg/L	HACH 8048	0.05 mg/L	10/15/2013	rdr
Sulfide	na	mg/L	HACH 8131	0.01 mg/L	na	na
Total Iron	<0.03	mg/L	HACH 8008	0.03 mg/L	10/16/2013	rdr
COD	na	mg/L	HACH 8000	<2 mg/L	na	na
TOC	<0.3	mg/L	EPA 9060A	<0.3 mg/L	10/15/2013	swd
pH	7.05	pH units	pH probe	<0.01 pH units	10/14/2013	rdr

---Table-Summary of Analytical Report---

Project	Raytheon, Wayland, MA						
Date Received		10/14/13	10/15/13	10/15/13	10/15/13	10/15/13	10/14/13
Sample ID		MW-261 S	MW-265 M	MW-267 M	MW-267 S	MW-268 M	MW-551
Date Sampled		10/12/13	10/14/13	10/14/13	10/14/13	10/14/13	10/12/13

Dissolved Gasses							
Date Analyzed		10/14/13	10/15/13	10/15/13	10/15/13	10/15/13	10/14/13
Sample ID	Units	MW-261 S	MW-265 M	MW-267 M	MW-267 S	MW-268 M	MW-551
Methane	µg/L	19748	19465	21042	130	26.7	23791
Ethylene	µg/L	<0.3	<0.3	<0.3	2.5	7.5	<0.3
Ethane	µg/L	<0.3	<0.3	<0.3	<0.3	2.4	<0.3
Acetylene	µg/L	<2	<2	<2	<2	<2	<2

Anions							
Date Analyzed		10/14/13	10/15/13	10/15/13	10/15/13	10/15/13	10/14/13
Sample ID	Units	MW-261 S	MW-265 M	MW-267 M	MW-267 S	MW-268 M	MW-551
Chloride	mg/L	29	82	31	58	19	17
Nitrate	mg/L	<1	<1	<1	<1	<1	<1
Sulfate	mg/L	<1	<1	<1	<1	39	<1
Organic Acids							
Date Analyzed		10/14/13	10/15/13	10/15/13	10/15/13	10/15/13	10/14/13
Lactate	mg/L	<1	<1	<1	<1	<1	<1
Acetate	mg/L	158	1004	413	237	<1	197
Propionate	mg/L	<1	<1	12	<1	<1	<1
Butyrate	mg/L	<1	39	<1	<1	<1	<1

Chemistries							
Date Analyzed	10/14/13-10/16/13						
Sample ID	Units	MW-261 S	MW-265 M	MW-267 M	MW-267 S	MW-268 M	MW-551
Alkalinity	mg/L	605	565	320	220	180	240
Manganese	mg/L	na	na	na	na	na	na
NH_3-N	mg/L	0.57	0.17	0.25	0.16	0.07	0.07
PO_4	mg/L	0.11	0.73	0.35	0.45	0.23	0.25
Sulfide	mg/L	na	na	na	na	na	na
Total Iron	mg/L	89.5	88.5	78.5	15.5	21.3	43.5
COD	mg/L	na	na	na	na	na	na
TOC	mg/L	119	649	749	485	2.2	266
pH	pH units	7.05	5.51	6.42	5.86	6.53	6.73

H2/CO2 by TCD analysis							
Date Analyzed		na	na	na	na	na	na
Sample ID	Units	MW-261 S	MW-265 M	MW-267 M	MW-267 S	MW-268 M	MW-551
H2	µM	na	na	na	na	na	na
CO2	mg/L	na	na	na	na	na	na

---Table-Summary of Analytical Report---

Project	Raytheon, Wayland, MA						
Date Received		10/14/13	10/14/13	10/15/13	10/15/13	10/14/13	10/15/13
Sample ID		MW-552	MW-553	MW-560	MW-561	MW-562	MW-563
Date Sampled		10/12/13	10/12/13	10/14/13	10/14/13	10/12/13	10/14/13
Dissolved Gasses							
Date Analyzed		10/14/13	10/14/13	10/15/13	10/15/13	10/14/13	10/15/13
Sample ID	Units	MW-552	MW-553	MW-560	MW-561	MW-562	MW-563
Methane	µg/L	27572	22604	3073	3327	34012	32932
Ethylene	µg/L	<0.3	<0.3	<0.3	10.6	<0.3	<0.3
Ethane	µg/L	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Acetylene	µg/L	<2	<2	<2	<2	<2	<2
Anions							
Date Analyzed		10/14/13	10/14/13	10/15/13	10/15/13	10/14/13	10/15/13
Sample ID	Units	MW-552	MW-553	MW-560	MW-561	MW-562	MW-563
Chloride	mg/L	20	16	22	25	31	34
Nitrate	mg/L	<1	<1	<1	<1	<1	<1
Sulfate	mg/L	<1	<1	5	<1	<1	<1
Organic Acids							
Date Analyzed		10/14/13	10/14/13	10/15/13	10/15/13	10/14/13	10/15/13
Lactate	mg/L	<1	<1	<1	<1	<1	<1
Acetate	mg/L	109	19	126	255	72	661
Propionate	mg/L	<1	<1	<1	<1	<1	12
Butyrate	mg/L	<1	<1	<1	<1	<1	8
Chemistries							
Date Analyzed	10/14/13-10/16/13						
Sample ID	Units	MW-552	MW-553	MW-560	MW-561	MW-562	MW-563
Alkalinity	mg/L	540	510	160	240	360	340
Manganese	mg/L	na	na	na	na	na	na
NH_3-N	mg/L	0.42	0.08	0.43	0.05	4.00	0.14
PO_4	mg/L	0.12	0.05	0.18	0.24	0.74	0.27
Sulfide	mg/L	na	na	na	na	na	na
Total Iron	mg/L	50.5	10.2	0.26	19.9	68.0	65.5
COD	mg/L	na	na	na	na	na	na
TOC	mg/L	76.5	15.0	790	1007	52.9	1136
pH	pH units	6.89	7.16	8.17	6.99	6.69	6.41
H2/CO2 by TCD analysis							
Date Analyzed		na	na	na	na	na	na
Sample ID	Units	MW-552	MW-553	MW-560	MW-561	MW-562	MW-563
H_2	µM	na	na	na	na	na	na
CO_2	mg/L	na	na	na	na	na	na

Project	Raytheon, Wayland, MA						
Date Received		10/14/13	10/14/13	10/14/13	10/14/13	10/14/13	10/14/13
Sample ID		REW-1	REW-4	REW-5	REW-6	REW-7	REW-8
Date Sampled		10/12/13	10/12/13	10/12/13	10/13/13	10/13/13	10/13/13

Dissolved Gasses							
Date Analyzed		10/14/13	10/14/13	10/14/13	10/14/13	10/14/13	10/14/13
Sample ID	Units	REW-1	REW-4	REW-5	REW-6	REW-7	REW-8
Methane	µg/L	29351	35768	14794	1945	2530	12006
Ethylene	µg/L	<0.3	<0.3	<0.3	<0.3	85.8	<0.3
Ethane	µg/L	<0.3	<0.3	138	<0.3	<0.3	<0.3
Acetylene	µg/L	<2	<2	<2	<2	<2	<2

Anions							
Date Analyzed		10/14/13	10/14/13	10/14/13	10/14/13	10/14/13	10/14/13
Sample ID	Units	REW-1	REW-4	REW-5	REW-6	REW-7	REW-8
Chloride	mg/L	17	14	25	38	21	32
Nitrate	mg/L	<1	<1	<1	<1	<1	<1
Sulfate	mg/L	<1	<1	27	26	17	11
Organic Acids							
Date Analyzed		10/14/13	10/14/13	10/14/13	10/14/13	10/14/13	10/14/13
Lactate	mg/L	<1	<1	<1	<1	<1	<1
Acetate	mg/L	17	39	<1	150	139	195
Propionate	mg/L	<1	<1	<1	<1	<1	11
Butyrate	mg/L	<1	<1	<1	<1	<1	5

Chemistries							
Date Analyzed	10/14/13-10/16/13						
Sample ID	Units	REW-1	REW-4	REW-5	REW-6	REW-7	REW-8
Alkalinity	mg/L	380	380	120	180	160	200
Manganese	mg/L	na	na	na	na	na	na
NH_3-N	mg/L	3.00	11.0	0.39	0.11	0.16	0.18
PO_4	mg/L	0.56	3.34	0.55	0.07	0.51	0.25
Sulfide	mg/L	na	na	na	na	na	na
Total Iron	mg/L	38.5	9.70	0.52	35.5	25.0	31.7
COD	mg/L	na	na	na	na	na	na
TOC	mg/L	16.3	453	8.1	479	98.6	250
pH	pH units	6.87	6.80	7.10	6.70	6.68	6.67

H2/CO2 by TCD analysis							
Date Analyzed		na	na	na	na	na	na
Sample ID	Units	REW-1	REW-4	REW-5	REW-6	REW-7	REW-8
H_2	µM	na	na	na	na	na	na
CO_2	mg/L	na	na	na	na	na	na

Project	Raytheon, Wayland, MA				
Date Received		10/14/13	10/14/13	10/14/13	10/14/13
Sample ID		REW-9	REW-10	REW-12	Trip Blank
Date Sampled		10/13/13	10/13/13	10/13/13	na

Dissolved Gasses					
Date Analyzed		10/14/13	10/14/13	10/14/13	10/14/13
Sample ID	Units	REW-9	REW-10	REW-12	Trip Blank
Methane	µg/L	9989	25337	1116	<0.3
Ethylene	µg/L	<0.3	<0.3	6.0	<0.3
Ethane	µg/L	<0.3	<0.3	<0.3	<0.3
Acetylene	µg/L	<2	<2	<2	<2

Anions					
Date Analyzed		10/14/13	10/14/13	10/14/13	10/14/13
Sample ID	Units	REW-9	REW-10	REW-12	Trip Blank
Chloride	mg/L	29	62	33	<1
Nitrate	mg/L	<1	<1	<1	<1
Sulfate	mg/L	11	31	42	<1
Organic Acids					
Date Analyzed		10/14/13	10/14/13	10/14/13	10/14/13
Lactate	mg/L	<1	<1	<1	<1
Acetate	mg/L	177	41	46	<1
Propionate	mg/L	11	<1	<1	<1
Butyrate	mg/L	<1	5	<1	<1

Chemistries					
Date Analyzed	10/14/13-10/16/13				
Sample ID	Units	REW-9	REW-10	REW-12	Trip Blank
Alkalinity	mg/L	180	120	120	10
Manganese	mg/L	na	na	na	na
NH_3-N	mg/L	0.19	0.31	0.10	<0.02
PO_4	mg/L	0.21	0.13	0.32	<0.05
Sulfide	mg/L	na	na	na	na
Total Iron	mg/L	8.40	11.5	26.8	<0.03
COD	mg/L	na	na	na	na
TOC	mg/L	587	95.2	49.9	<0.3
pH	pH units	6.74	6.65	6.60	7.05

H2/CO2 by TCD analysis					
Date Analyzed		na	na	na	na
Sample ID	Units	REW-9	REW-10	REW-12	Trip Blank
H_2	µM	na	na	na	na
CO_2	mg/L	na	na	na	na

TESTING METHODS

Ion Analysis

Inorganic anions are analyzed on a Metrohm 761 IC system according to modified EPA Method 300. Organic acids are analyzed by HPLC method with an organic acid column for lactate, acetate, propionate, and butyrate. A sample to be analyzed for anions is diluted with ultra pure water as necessary to obtain the analytes in the working range of the method, and is placed into the instrument, where the sample is introduced by an automated sampling device. All samples are placed sequentially in the auto sampler and the samples are injected sequentially into the ion-exchange column. Flows from the column are directed to a conductivity detector and the peak responses were processed for quantification. Identification of analytes are based on retention times for individual analytes, and quantification is based on analysis of prepared standards.

Gas Chromatography

Dissolved gasses are analyzed according to modified EPA Method 5021A. 10ml of the sample is transferred from the 40 ml VOA vials to a 20 ml sampling vial for a 1 to 1, headspace to liquid ratio. The headspace sample is analyzed by a HP 7694 Headspace Sampler, injected to a HP 5890 gas chromatograph. Gasses are detected by PID detector and followed by Flame Ionization Detector. Standards are prepared and analyzed in the same manner as samples.

Total Organic Carbon Analyzer

Organic carbon is measured according to a modified EPA Method 9060A using a Shimadzu TOC-5050A carbonaceous analyzer. This instrument converts the organic carbon in a sample to carbon dioxide (CO_2) by catalytic combustion. The CO_2 formed is then measured directly by an infrared detector. The amount of CO_2 in a sample is directly proportional to the concentration of carbonaceous material in the sample.

HACH Colorimeter

Chemical Tests for, Iron (Total), Manganese, Nitrogen (Ammonia), Phosphorous (Orthophosphate), and Sulfide are analyzed with a DR/ 890 Colorimeter. Alkalinity is analyzed with a HACH Alkalinity Digital Titrator. VOA vials for the analysis of these chemical tests have no preservative. The methods used are EPA approved and are as follows:

Alkalinity	Hach Titration
Ammonia Nitrogen	Hach 8155
COD	Hach 8000
Manganese	Hach 8034
Orthophosphate Phosphorous	Hach 8048
Sulfide	Hach 8131
Total Iron	Hach 8008

pH

The pH of samples is determined using a Corning 313 ATC electrode.

1 of 2

CHAIN OF CUSTODY RECORD

B T C **Bioremediation Treatability Center** • 25 Spring Street • Walpole, MA 02081-4301 • phone (508) 668-0191 • fax (508) 668-5175

Project Name & Project Number: RA-008

Project Manager: Vicki Perkins

Company / Address: Innovative Engineering Solutions Inc, 25 Spring St Walpole MA 02081

Phone #: 508-668-0033 Fax #: 508-668-5175

Sampler's Signature:

Sampler's Printed Name: Danny Jones

Client Sample ID	Sampling Date	Sampling Time	No. of Sample Bottles per Well	Alkalinity	Ammonia	Anions (Cl^-, NO_3^-, SO_4^-)	Biotank	Bromide	COD	Dissolved Gas	H2 / CO2	Organic Acid	Orthophosphate	pH	Sulfide	TOC	Total Iron	Total Manganese	VOC Screen	
MW-261S-20131012-01	10/12/13	0940	6	X	X	X				X		X	X	X		X	X			
MW-551-20131012-01	10/12/13	1030	6	X	X	X				X		X	X	X		X	X			
MW-552-20131012-01	10/12/13	0855	6	X	X	X				X		X	X	X		X	X			
MW-553-20131012-01	10/12/13	0815	6	X	X	X				X		X	X	X		X	X			
MW-512-20131012-01	10/12/13	1110	6	X	X	X				X		X	X	X		X	X			
REW-1-20131012-01	10/12/13	1205	6	X	X	X				X		X	X	X		X	X			
REW-4-20131012-01	10/12/13	1345	6	X	X	X				X		X	X	X		X	X			
REW-5-20131012-01	10/12/13	1250	6	X	X	X				X		X	X	X		X	X			
REW-6-20131013-01	10/13/13	0735	6	X	X	X				X		X	X	X		X	X			
REW-7-20131013-01	10/13/13	0925	6	X	X	X				X		X	X	X		X	X			
REW-8-20131013-01	10/13/13	0815	6	X	X	X				X		X	X	X		X	X			
REW-9-20131013-01	10/13/13	1025	6	X	X	X				X		X	X	X		X	X			

Special Instructions / Comments

Relinquished By	Received By	Relinquished By	Received By
	Susan Davis		
Printed Name: Danny Jones	Printed Name: Susan Davis	Printed Name	Printed Name
Firm: IESI	Firm: BTC	Firm	Firm
Date/Time: 10/14/13 0600	Date/Time: 10/14/13 0630	Date/Time	Date/Time

CHAIN OF CUSTODY RECORD

B T C **Bioremediation Treatability Center** • 25 Spring Street • Walpole, MA 02081-4301 • phone (508) 668-0191 • fax (508) 668-5175

Project Name & Project Number: RA-008

Project Manager: Vicki Pinnigar

Company / Address: Innovative Engineering Solutions Inc
25 Spring St Walpole MA 02081

Phone #: 508-668-0033 Fax #: 508-668-5175

Sampler's Signature:

Sampler's Printed Name: Dany Sotes

Client Sample ID	Sampling Date	Sampling Time	No. of Sample Bottles per Well	Alkalinity	Ammonia	Anions (Cl^-, NO_3^-, SO_4^-)	Biotank	Bromide	COD	Dissolved Gas	H2 / CO2	Organic Acid	Orthophosphate	pH	Sulfide	TOC	Total Iron	Total Manganese	VOC Screen	
REW-10-20131013-01	10/13/13	1130	6	X	X	X				X		X	X	X		X	X			
REW-12-20131013-01	10/13/13	1215	6	X	X	X				X		X	X	X		X	X			
Trip Blanks	—	—	4																	

Special Instructions / Comments

Relinquished By	Received By	Relinquished By	Received By
	Susan Davis		
Printed Name: Dany Sotes	Printed Name: Susan Davis	Printed Name	Printed Name
Firm: IESI	Firm: BTC	Firm	Firm
Date/Time: 10/14/13 0600	Date/Time: 10/14/13 0630	Date/Time	Date/Time

CHAIN OF CUSTODY RECORD

B T C **Bioremediation Treatability Center** • 25 Spring Street • Walpole, MA 02081-4301 • phone (508) 668-0191 • fax (508) 668-5175

Project Name & Project Number: RA-008

Project Manager: Vidyi Paniyan

Company / Address: Innovative Engineering Solutions Inc
25 Spring St Walpole MA 02081

Phone #: 508-668-0033 Fax #: 508-668-5175

Sampler's Signature: [signature]

Sampler's Printed Name: Dany Torres

Client Sample ID	Sampling Date	Sampling Time	No. of Sample Bottles per Well	Alkalinity	Ammonia	Anions (Cl^-, NO_3^-, SO_4^-)	Biotank	Bromide	COD	Dissolved Gas	H2 / CO2	Organic Acid	Orthophosphate	pH	Sulfide	TOC	Total Iron	Total Manganese	VOC Screen	
MW-265M-20131014-01	10/14/13	1325	6	X	X	X				X		X	X	X		X	X			
MW-267S-20131014-01	10/14/13	0930	6	X	X	X				X		X	X	X		X	X			
MW-267M-20131014-01	10/14/13	1005	6	X	X	X				X		X	X	X		X	X			
MW-268M-20131014-01	10/14/13	0840	6	X	X	X				X		X	X	X		X	X			
MW-560-20131014-01	10/14/13	1125	6	X	X	X				X		X	X	X		X	X			
MW-561-20131014-01	10/14/13	1250	6	X	X	X				X		X	X	X		X	X			
MW-563-20131014-01	10/14/13	1205	6	X	X	X				X		X	X	X		X	X			

Special Instructions / Comments

Relinquished By	Received By	Relinquished By	Received By
[signature]	Susan Davis		
Printed Name: Dany Torres	Printed Name: Susan Davis	Printed Name	Printed Name
Firm: IESI	Firm: BTC	Firm	Firm
Date/Time: 10/15/13 0610	Date/Time: 10/15/13	Date/Time	Date/Time

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT	RA-008	JOB NUMBER	N/A
WELL ID	MW-261S-20130717-01	DATE	17-Jul-13
TIME	START 0710 END 0745		

Innovative Engineering Solutions, Inc.
25 Spring Street
Walpole Massachusetts 02081

WATER LEVEL/PUMP SETTINGS

MEASUREMENT POINT
- [x] TOP OF WELL RISER
- [ ] TOP OF PROTECTIVE CASING
- [ ] OTHER _____

PROTECTIVE CASING STICKUP (FROM GROUND): FT

PROTECTIVE CASING/WELL DIFFERENCE: FT

INITIAL DEPTH TO WATER	9.81 FT	WELL DEPTH	24.13 FT	WELL DIAMETER	2 IN
FINAL DEPTH TO WATER	11.38 FT	SCREEN LENGTH	FT	PID AMBIENT AIR	NA PPM
DRAWDOWN VOLUME	0.26 GAL			PID WELL MOUTH	NA PPM
TOTAL VOLUME PURGED	1.82 GAL				

(initial - final x 0.163 {2-inch} or x 0.654 {4-inch})

(purge rate (milliliters per minute) x time duration (minutes) x 0.00026 gal/millilter)

WELL INTEGRITY	YES	NO	N/A
CAP	[x]	[ ]	[ ]
CASING	[x]	[ ]	[ ]
LOCKED	[ ]	[x]	[ ]
COLLAR	[ ]	[ ]	[x]

PURGE DATA

TIME	DEPTH TO WATER (ft)	PURGE RATE (ml/min)	TEMP (deg C)	SPECIFIC CONDUCTANCE (mg/cm)	pH (units)	DISS. O_2 (mg/L)	TURBIDITY (ntu)	REDOX (mv)	COMMENTS
0720	11.51	200	14.64	843	6.88	0.17	N/A	-164.3	
0725	11.48	200	14.26	835	6.83	0.12	N/A	-166.5	
0730	11.40	200	14.07	833	6.82	0.13	N/A	-166.3	
0735	11.38	200	14.27	837	6.81	0.14	N/A	-166	
									sampled @ 0735

EQUIPMENT DOCUMENTATION

TYPE OF PUMP	TYPE OF TUBING	TYPE OF PUMP MATERIAL
GEO 2	SILICON/ POLY	Peristaltic

ANALYTICAL PARAMETERS

	METHOD NUMBER	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	SAMPLE RESULTS
[x] TA	8260B	HCL/4 DEG C	3 x 40 ml	[x]	
[x] BTC		HCL/4 DEG C	1 x 40 ml	[x]	
[x] BTC		4 DEG C	4 x 40 ml	[x]	
[x] BTC		4 DEG C	1 x 500 ml	[x]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	

PURGE WATER DESCRIPTION: clear, no odor

PURGE WATER CONTAINERIZED: Pour back into well

NUMBER OF BUCKETS GENERATED:

NOTES

SIGNATURE: **DAJ**

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT	**RA-008**	JOB NUMBER	N/A
WELL ID	**MW-265M-20130717-01**	DATE	17-Jul-13
TIME	START 1255 END 1330		

Innovative Engineering Solutions, Inc.
25 Spring Street
Walpole Massachusetts 02081

WATER LEVEL/PUMP SETTINGS

MEASUREMENT POINT
- [x] TOP OF WELL RISER
- [ ] TOP OF PROTECTIVE CASING
- [ ] OTHER _____

PROTECTIVE CASING STICKUP (FROM GROUND): FT

PROTECTIVE CASING/WELL DIFFERENCE: FT

INITIAL DEPTH TO WATER	9.86 FT	WELL DEPTH	48.40 FT	WELL DIAMETER	2 IN
FINAL DEPTH TO WATER	10.35 FT	SCREEN LENGTH	FT	PID AMBIENT AIR	NA PPM
DRAWDOWN VOLUME	0.08 GAL			PID WELL MOUTH	NA PPM
TOTAL VOLUME PURGED	1.82 GAL				

(initial - final x 0.163 {2-inch} or x 0.654 {4-inch})

(purge rate (milliliters per minute) x time duration (minutes) x 0.00026 gal/millilter)

WELL INTEGRITY	YES	NO	N/A
CAP	[x]	[ ]	[ ]
CASING	[x]	[ ]	[ ]
LOCKED	[ ]	[x]	[ ]
COLLAR	[ ]	[ ]	[x]

PURGE DATA

TIME	DEPTH TO WATER (ft)	PURGE RATE (ml/min)	TEMP (deg C)	SPECIFIC CONDUCTANCE (mg/cm)	pH (units)	DISS. O_2 (mg/L)	TURBIDITY (ntu)	REDOX (mv)	COMMENTS
1305	10.35	200	17.31	945	4.98	0.30	N/A	33.2	
1310	10.35	200	17.28	944	4.90	0.22	N/A	34.5	
1315	10.35	200	17.06	939	4.88	0.22	N/A	34.8	
1320	10.35	200	16.79	934	4.86	0.21	N/A	35.2	
									sampled @ 1320

EQUIPMENT DOCUMENTATION

TYPE OF PUMP	TYPE OF TUBING	TYPE OF PUMP MATERIAL
GEO 2	SILICON/ POLY	Peristaltic

ANALYTICAL PARAMETERS

	METHOD NUMBER	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	SAMPLE RESULTS
[x] TA	8260B	HCL/4 DEG C	3 x 40 ml	[x]	
[x] BTC		HCL/4 DEG C	1 x 40 ml	[x]	
[x] BTC		4 DEG C	4 x 40 ml	[x]	
[x] BTC		4 DEG C	1 x 500 ml	[x]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	

PURGE WATER DESCRIPTION: clear, slight bio odor

PURGE WATER CONTAINERIZED: Pour back into well

NUMBER OF BUCKETS GENERATED:

NOTES

SIGNATURE: **DAJ**

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT	**RA-008**	JOB NUMBER	N/A
WELL ID	**MW-267M-20130718-01**	DATE	18-Jul-13
TIME	START 1100 END 1130		

Innovative Engineering Solutions, Inc.
25 Spring Street
Walpole Massachusetts 02081

WATER LEVEL/PUMP SETTINGS

MEASUREMENT POINT
- [x] TOP OF WELL RISER
- [ ] TOP OF PROTECTIVE CASING
- [ ] OTHER _____

PROTECTIVE CASING STICKUP (FROM GROUND): FT

PROTECTIVE CASING/WELL DIFFERENCE: FT

INITIAL DEPTH TO WATER	9.31 FT	WELL DEPTH	97.91 FT	WELL DIAMETER	2 IN
FINAL DEPTH TO WATER	10.2 FT	SCREEN LENGTH	FT	PID AMBIENT AIR	NA PPM
DRAWDOWN VOLUME	0.13 GAL			PID WELL MOUTH	NA PPM
TOTAL VOLUME PURGED	1.56 GAL				

(initial - final x 0.163 {2-inch} or x 0.654 {4-inch})

(purge rate (milliliters per minute) x time duration (minutes) x 0.00026 gal/millilter)

WELL INTEGRITY	YES	NO	N/A
CAP	[x]	[ ]	[ ]
CASING	[x]	[ ]	[ ]
LOCKED	[ ]	[x]	[ ]
COLLAR	[ ]	[ ]	[x]

PURGE DATA

TIME	DEPTH TO WATER (ft)	PURGE RATE (ml/min)	TEMP (deg C)	SPECIFIC CONDUCTANCE (mg/cm)	pH (units)	DISS. O_2 (mg/L)	TURBIDITY (ntu)	REDOX (mv)	COMMENTS
1110	10.18	200	14.34	472	6.12	0.33	N/A	-102.6	
1115	10.20	200	14.42	482	6.07	0.15	N/A	-101.1	
1120	10.20	200	14.42	487	6.08	0.14	N/A	-103.7	
1125	10.20	200	14.37	494	6.09	0.12	N/A	-106.9	
									sampled @ 1125

EQUIPMENT DOCUMENTATION

TYPE OF PUMP	TYPE OF TUBING	TYPE OF PUMP MATERIAL
GEO 2	SILICON/ POLY	Peristaltic

ANALYTICAL PARAMETERS

	METHOD NUMBER	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	SAMPLE RESULTS
[x] TA	8260B	HCL/4 DEG C	3 x 40 ml	[x]	
[x] BTC		HCL/4 DEG C	1 x 40 ml	[x]	
[x] BTC		4 DEG C	4 x 40 ml	[x]	
[x] BTC		4 DEG C	1 x 500 ml	[x]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	

PURGE WATER DESCRIPTION: clear, slight bio odor

PURGE WATER CONTAINERIZED: Pour back into well

NUMBER OF BUCKETS GENERATED:

NOTES

SIGNATURE: **DAJ**

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT	RA-008	JOB NUMBER	N/A
WELL ID	MW-268M-20130718-01	DATE	18-Jul-13
TIME	START 0925 END 1000		

Innovative Engineering Solutions, Inc.
25 Spring Street
Walpole Massachusetts 02081

WATER LEVEL/PUMP SETTINGS

MEASUREMENT POINT
- [x] TOP OF WELL RISER
- [ ] TOP OF PROTECTIVE CASING
- [ ] OTHER _____

PROTECTIVE CASING STICKUP (FROM GROUND): FT

PROTECTIVE CASING/WELL DIFFERENCE: FT

INITIAL DEPTH TO WATER	8.08 FT	WELL DEPTH	85.32 FT	WELL DIAMETER	2 IN
FINAL DEPTH TO WATER	8.6 FT	SCREEN LENGTH	FT	PID AMBIENT AIR	NA PPM
DRAWDOWN VOLUME	0.08 GAL			PID WELL MOUTH	NA PPM
TOTAL VOLUME PURGED	1.82 GAL				

(initial - final x 0.163 {2-inch} or x 0.654 {4-inch})

(purge rate (milliliters per minute) x time duration (minutes) x 0.00026 gal/millilter)

WELL INTEGRITY	YES	NO	N/A
CAP	☑	☐	☐
CASING	☑	☐	☐
LOCKED	☐	☑	☐
COLLAR	☐	☐	☑

PURGE DATA

TIME	DEPTH TO WATER (ft)	PURGE RATE (ml/min)	TEMP (deg C)	SPECIFIC CONDUCTANCE (mg/cm)	pH (units)	DISS. O_2 (mg/L)	TURBIDITY (ntu)	REDOX (mv)	COMMENTS
0935	8.60	200	15.88	264	6.88	0.47	N/A	-140.6	
0940	8.60	200	15.74	263	6.95	0.20	N/A	-156.9	
0945	8.60	200	15.95	261	6.94	0.18	N/A	-155.7	
0950	8.60	200	15.11	266	6.92	0.16	N/A	-155.1	
									sampled @ 0950

EQUIPMENT DOCUMENTATION

TYPE OF PUMP	TYPE OF TUBING	TYPE OF PUMP MATERIAL
GEO 2	SILICON/ POLY	Peristaltic

ANALYTICAL PARAMETERS

	METHOD NUMBER	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	SAMPLE RESULTS
☑ TA	8260B	HCL/4 DEG C	3 x 40 ml	☑	
☑ BTC		HCL/4 DEG C	1 x 40 ml	☑	
☑ BTC		4 DEG C	4 x 40 ml	☑	
☑ BTC		4 DEG C	1 x 500 ml	☑	
☐				☐	
☐				☐	
☐				☐	
☐				☐	
☐				☐	
☐				☐	
☐				☐	

PURGE WATER DESCRIPTION: clear, no odor

PURGE WATER CONTAINERIZED: Pour back into well

NUMBER OF BUCKETS GENERATED:

NOTES

SIGNATURE: **DAJ**

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT	RA-008	JOB NUMBER	N/A
WELL ID	MW-552-20130717-01	DATE	17-Jul-13
TIME	START 0755 END 0835		

Innovative Engineering Solutions, Inc.
25 Spring Street
Walpole Massachusetts 02081

WATER LEVEL/PUMP SETTINGS

MEASUREMENT POINT
- [x] TOP OF WELL RISER
- [ ] TOP OF PROTECTIVE CASING
- [ ] OTHER _____

PROTECTIVE CASING STICKUP (FROM GROUND): FT

PROTECTIVE CASING/WELL DIFFERENCE: FT

INITIAL DEPTH TO WATER	9.08 FT	WELL DEPTH	26.89 FT	WELL DIAMETER	2 IN
FINAL DEPTH TO WATER	9.61 FT	SCREEN LENGTH	FT	PID AMBIENT AIR	NA PPM
DRAWDOWN VOLUME	0.09 GAL			PID WELL MOUTH	NA PPM
TOTAL VOLUME PURGED	2.08 GAL				

(initial - final x 0.163 {2-inch} or x 0.654 {4-inch})

(purge rate (milliliters per minute) x time duration (minutes) x 0.00026 gal/millilter)

WELL INTEGRITY	YES	NO	N/A
CAP	[x]	[ ]	[ ]
CASING	[x]	[ ]	[ ]
LOCKED	[ ]	[x]	[ ]
COLLAR	[ ]	[ ]	[x]

PURGE DATA

TIME	DEPTH TO WATER (ft)	PURGE RATE (ml/min)	TEMP (deg C)	SPECIFIC CONDUCTANCE (mg/cm)	pH (units)	DISS. O_2 (mg/L)	TURBIDITY (ntu)	REDOX (mv)	COMMENTS
0805	9.57	200	14.75	694	6.78	0.27	N/A	-175.3	
0810	9.61	200	14.46	702	6.67	0.13	N/A	-177.1	
0815	9.61	200	14.37	721	6.66	0.12	N/A	-174.3	
0820	9.61	200	14.54	741	6.65	0.11	N/A	-171.7	
									sampled @ 0820

EQUIPMENT DOCUMENTATION

TYPE OF PUMP	TYPE OF TUBING	TYPE OF PUMP MATERIAL
GEO 2	SILICON/ POLY	Peristaltic

ANALYTICAL PARAMETERS

	METHOD NUMBER	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	SAMPLE RESULTS
[x] TA	8260B	HCL/4 DEG C	3 x 40 ml	[x]	
[x] BTC		HCL/4 DEG C	1 x 40 ml	[x]	
[x] BTC		4 DEG C	4 x 40 ml	[x]	
[x] BTC		4 DEG C	1 x 500 ml	[x]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	

PURGE WATER DESCRIPTION: clear, no odor

PURGE WATER CONTAINERIZED: Pour back into well

NUMBER OF BUCKETS GENERATED:

NOTES

SIGNATURE: **DAJ**

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT	RA-008	JOB NUMBER	N/A
WELL ID	MW-561-20130718-01	DATE	18-Jul-13
TIME	START 0650 END 0725		

Innovative Engineering Solutions, Inc.
25 Spring Street
Walpole Massachusetts 02081

WATER LEVEL/PUMP SETTINGS

MEASUREMENT POINT
- [x] TOP OF WELL RISER
- [ ] TOP OF PROTECTIVE CASING
- [ ] OTHER _____

PROTECTIVE CASING STICKUP (FROM GROUND): FT

PROTECTIVE CASING/WELL DIFFERENCE: FT

INITIAL DEPTH TO WATER	8.59 FT	WELL DEPTH	53.44 FT	WELL DIAMETER	2 IN
FINAL DEPTH TO WATER	8.78 FT	SCREEN LENGTH	FT	PID AMBIENT AIR	NA PPM
DRAWDOWN VOLUME	0.03 GAL			PID WELL MOUTH	NA PPM

(initial - final x 0.163 {2-inch} or x 0.654 {4-inch})

WELL INTEGRITY	YES	NO	N/A
CAP	[x]	[ ]	[ ]
CASING	[x]	[ ]	[ ]
LOCKED	[ ]	[x]	[ ]
COLLAR	[ ]	[ ]	[x]

TOTAL VOLUME PURGED: 1.86 GAL

(purge rate (milliliters per minute) x time duration (minutes) x 0.00026 gal/millilter)

PURGE DATA

TIME	DEPTH TO WATER (ft)	PURGE RATE (ml/min)	TEMP (deg C)	SPECIFIC CONDUCTANCE (mg/cm)	pH (units)	DISS. O_2 (mg/L)	TURBIDITY (ntu)	REDOX (mv)	COMMENTS
0700	8.77	200	15.43	466	6.74	0.40	N/A	-105.4	
0705	8.78	200	15.13	461	6.75	0.19	N/A	-111.3	
0710	8.78	200	15.08	460	6.74	0.18	N/A	-111.5	
0715	8.78	200	14.84	459	6.75	0.17	N/A	-112.4	
									sampled @ 0715

EQUIPMENT DOCUMENTATION

TYPE OF PUMP	TYPE OF TUBING	TYPE OF PUMP MATERIAL
GEO 2	SILICON/ POLY	Peristaltic

ANALYTICAL PARAMETERS

	METHOD NUMBER	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	SAMPLE RESULTS
[x] TA	8260B	HCL/4 DEG C	3 x 40 ml	[x]	
[x] BTC		HCL/4 DEG C	1 x 40 ml	[x]	
[x] BTC		4 DEG C	4 x 40 ml	[x]	
[x] BTC		4 DEG C	1 x 500 ml	[x]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	

PURGE WATER DESCRIPTION: clear, slight odor

PURGE WATER CONTAINERIZED: Pour back into well

NUMBER OF BUCKETS GENERATED:

NOTES

SIGNATURE: **DAJ**

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT	RA-008	JOB NUMBER	N/A
WELL ID	MW-562-20130718-01	DATE	18-Jul-13
TIME	START 0735 END 0815		

Innovative Engineering Solutions, Inc.
25 Spring Street
Walpole Massachusetts 02081

WATER LEVEL/PUMP SETTINGS

MEASUREMENT POINT
- [x] TOP OF WELL RISER
- [ ] TOP OF PROTECTIVE CASING
- [ ] OTHER _____

PROTECTIVE CASING STICKUP (FROM GROUND): FT

PROTECTIVE CASING/WELL DIFFERENCE: FT

INITIAL DEPTH TO WATER	6.9 FT	WELL DEPTH	63.31 FT	WELL DIAMETER	2 IN
FINAL DEPTH TO WATER	8.83 FT	SCREEN LENGTH	FT	PID AMBIENT AIR	NA PPM
DRAWDOWN VOLUME	0.31 GAL			PID WELL MOUTH	NA PPM
TOTAL VOLUME PURGED	2.08 GAL				

(initial - final x 0.163 {2-inch} or x 0.654 {4-inch})

(purge rate (milliliters per minute) x time duration (minutes) x 0.00026 gal/millilter)

WELL INTEGRITY	YES	NO	N/A
CAP	[x]	[ ]	[ ]
CASING	[x]	[ ]	[ ]
LOCKED	[ ]	[x]	[ ]
COLLAR	[ ]	[ ]	[x]

PURGE DATA

TIME	DEPTH TO WATER (ft)	PURGE RATE (ml/min)	TEMP (deg C)	SPECIFIC CONDUCTANCE (mg/cm)	pH (units)	DISS. O_2 (mg/L)	TURBIDITY (ntu)	REDOX (mv)	COMMENTS
0745	8.36	200	16.57	552	6.36	0.27	N/A	-78.5	DupX2-20130718-01
0750	8.65	200	16.60	550	6.34	0.12	N/A	-88.1	
0755	8.78	200	16.48	550	6.33	0.12	N/A	-91.7	
0800	8.83	200	16.42	551	6.32	0.12	N/A	-92.9	
									sampled @ 0800

EQUIPMENT DOCUMENTATION

TYPE OF PUMP	TYPE OF TUBING	TYPE OF PUMP MATERIAL
GEO 2	SILICON/ POLY	Peristaltic

ANALYTICAL PARAMETERS

	METHOD NUMBER	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	SAMPLE RESULTS
[x] TA	8260B	HCL/4 DEG C	3 x 40 ml	[x]	
[x] BTC		HCL/4 DEG C	1 x 40 ml	[x]	
[x] BTC		4 DEG C	4 x 40 ml	[x]	
[x] BTC		4 DEG C	1 x 500 ml	[x]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	

PURGE WATER DESCRIPTION: clear, slight bio odor

PURGE WATER CONTAINERIZED: Pour back into well

NUMBER OF BUCKETS GENERATED:

NOTES

DupX2-20130718-01

SIGNATURE: **DAJ**

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT	**RA-008**	JOB NUMBER	N/A
WELL ID	**MW-563-20130717-01**	DATE	17-Jul-13
TIME	START 0850 END 0930		

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25 Spring Street
Walpole Massachusetts 02081

WATER LEVEL/PUMP SETTINGS

MEASUREMENT POINT
- [x] TOP OF WELL RISER
- [ ] TOP OF PROTECTIVE CASING
- [ ] OTHER _____

PROTECTIVE CASING STICKUP (FROM GROUND): FT

PROTECTIVE CASING/WELL DIFFERENCE: FT

INITIAL DEPTH TO WATER	7.07 FT	WELL DEPTH	65.20 FT	WELL DIAMETER	2 IN
FINAL DEPTH TO WATER	7.9 FT	SCREEN LENGTH	FT	PID AMBIENT AIR	NA PPM
DRAWDOWN VOLUME	0.14 GAL			PID WELL MOUTH	NA PPM
TOTAL VOLUME PURGED	2.08 GAL				

(initial - final x 0.163 {2-inch} or x 0.654 {4-inch})

(purge rate (milliliters per minute) x time duration (minutes) x 0.00026 gal/millilter)

WELL INTEGRITY	YES	NO	N/A
CAP	[x]	[ ]	[ ]
CASING	[x]	[ ]	[ ]
LOCKED	[ ]	[x]	[ ]
COLLAR	[ ]	[ ]	[x]

PURGE DATA

TIME	DEPTH TO WATER (ft)	PURGE RATE (ml/min)	TEMP (deg C)	SPECIFIC CONDUCTANCE (mg/cm)	pH (units)	DISS. O_2 (mg/L)	TURBIDITY (ntu)	REDOX (mv)	COMMENTS
0900	7.85	200	17.32	807	5.85	0.19	N/A	-184	DupX1-20130717-01
0905	7.88	200	17.29	783	5.55	0.14	N/A	-174.9	
0910	7.90	200	17.28	772	5.53	0.14	N/A	-170.3	
0915	7.90	200	17.18	751	5.51	0.13	N/A	-164.5	
									sampled @ 0915

EQUIPMENT DOCUMENTATION

TYPE OF PUMP	TYPE OF TUBING	TYPE OF PUMP MATERIAL
GEO 2	SILICON/ POLY	Peristaltic

ANALYTICAL PARAMETERS

	METHOD NUMBER	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	SAMPLE RESULTS
[x] TA	8260B	HCL/4 DEG C	3 x 40 ml	[x]	
[x] BTC		HCL/4 DEG C	1 x 40 ml	[x]	
[x] BTC		4 DEG C	4 x 40 ml	[x]	
[x] BTC		4 DEG C	1 x 500 ml	[x]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	

PURGE WATER DESCRIPTION: clear, slight bio odor

PURGE WATER CONTAINERIZED: Pour back into well

NUMBER OF BUCKETS GENERATED:

NOTES

DupX1-20130717-01

SIGNATURE **DAJ**

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT	**RA-008**	JOB NUMBER	N/A
WELL ID	**REW-1-20130717-01**	DATE	17-Jul-13
TIME	START 1035 END 1140		

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WATER LEVEL/PUMP SETTINGS

MEASUREMENT POINT
- [x] TOP OF WELL RISER
- [ ] TOP OF PROTECTIVE CASING
- [ ] OTHER _____

PROTECTIVE CASING STICKUP (FROM GROUND): FT

PROTECTIVE CASING/WELL DIFFERENCE: FT

INITIAL DEPTH TO WATER	4.52 FT	WELL DEPTH	34.29 FT	WELL DIAMETER	4 IN
FINAL DEPTH TO WATER	5.54 FT	SCREEN LENGTH	FT	PID AMBIENT AIR	NA PPM
DRAWDOWN VOLUME	0.17 GAL			PID WELL MOUTH	NA PPM
TOTAL VOLUME PURGED	3.38 GAL				

(initial - final x 0.163 {2-inch} or x 0.654 {4-inch})

(purge rate (milliliters per minute) x time duration (minutes) x 0.00026 gal/millilter)

WELL INTEGRITY	YES	NO	N/A
CAP	[x]	[ ]	[ ]
CASING	[x]	[ ]	[ ]
LOCKED	[ ]	[x]	[ ]
COLLAR	[ ]	[ ]	[x]

PURGE DATA

TIME	DEPTH TO WATER (ft)	PURGE RATE (ml/min)	TEMP (deg C)	SPECIFIC CONDUCTANCE (mg/cm)	pH (units)	DISS. O_2 (mg/L)	TURBIDITY (ntu)	REDOX (mv)	COMMENTS
1045	5.20	200	17.23	706	5.05	0.22	N/A	-161.3	
1050	5.44	200	17.50	711	5.12	0.15	N/A	-162.7	
1055	5.51	200	17.60	713	5.10	0.16	N/A	-162.8	
1100	5.54	200	17.41	710	5.10	0.15	N/A	-162.8	
									sampled @ 1100

EQUIPMENT DOCUMENTATION

TYPE OF PUMP	TYPE OF TUBING	TYPE OF PUMP MATERIAL
GEO 2	SILICON/ POLY	Peristaltic

ANALYTICAL PARAMETERS

	METHOD NUMBER	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	SAMPLE RESULTS
[x] TA	8260B	HCL/4 DEG C	3 x 40 ml	[x]	
[x] BTC		HCL/4 DEG C	1 x 40 ml	[x]	
[x] BTC		4 DEG C	4 x 40 ml	[x]	
[x] BTC		4 DEG C	1 x 500 ml	[x]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	

PURGE WATER DESCRIPTION: clear, slight bio odor

PURGE WATER CONTAINERIZED: Pour back into well

NUMBER OF BUCKETS GENERATED:

NOTES

SIGNATURE: **DAJ**

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT	RA-008	JOB NUMBER	N/A
WELL ID	REW-6-20130718-01	DATE	18-Jul-13
TIME	START 1020 END 1055		

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WATER LEVEL/PUMP SETTINGS

MEASUREMENT POINT
- [x] TOP OF WELL RISER
- [ ] TOP OF PROTECTIVE CASING
- [ ] OTHER _____

PROTECTIVE CASING STICKUP (FROM GROUND): FT

PROTECTIVE CASING/WELL DIFFERENCE: FT

INITIAL DEPTH TO WATER	Note 1 FT	WELL DEPTH	Note 1 FT	WELL DIAMETER	4 IN
FINAL DEPTH TO WATER	Note 1 FT	SCREEN LENGTH	FT	PID AMBIENT AIR	NA PPM
DRAWDOWN VOLUME	Note 1 GAL			PID WELL MOUTH	NA PPM
TOTAL VOLUME PURGED	1.82 GAL				

(initial - final x 0.163 {2-inch} or x 0.654 {4-inch})

(purge rate (milliliters per minute) x time duration (minutes) x 0.00026 gal/millilter)

WELL INTEGRITY	YES	NO	N/A
CAP	[x]	[ ]	[ ]
CASING	[x]	[ ]	[ ]
LOCKED	[ ]	[x]	[ ]
COLLAR	[ ]	[ ]	[x]

PURGE DATA

TIME	DEPTH TO WATER (ft)	PURGE RATE (ml/min)	TEMP (deg C)	SPECIFIC CONDUCTANCE (mg/cm)	pH (units)	DISS. O_2 (mg/L)	TURBIDITY (ntu)	REDOX (mv)	COMMENTS
1030	Note 1	200	12.48	320	6.43	0.54	N/A	-101.1	
1035	Note 1	200	12.80	322	6.42	0.20	N/A	-109.2	
1040	Note 1	200	13.14	323	6.43	0.18	N/A	-114	
1045	Note 1	200	12.75	322	6.42	0.16	N/A	-116.9	
									sampled @ 1045

EQUIPMENT DOCUMENTATION

TYPE OF PUMP	TYPE OF TUBING	TYPE OF PUMP MATERIAL
System Pump	SILICON/ POLY	Peristaltic

ANALYTICAL PARAMETERS

	METHOD NUMBER	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	SAMPLE RESULTS
[x] TA	8260B	HCL/4 DEG C	3 x 40 ml	[x]	
[x] BTC		HCL/4 DEG C	1 x 40 ml	[x]	
[x] BTC		4 DEG C	4 x 40 ml	[x]	
[x] BTC		4 DEG C	1 x 500 ml	[x]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	

PURGE WATER DESCRIPTION: clear, slight bio odor

PURGE WATER CONTAINERIZED: Pour back into well

NUMBER OF BUCKETS GENERATED:

NOTES

Note 1: Pump in well and operating

SIGNATURE: **DAJ**

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT	RA-008	JOB NUMBER	N/A
WELL ID	REW-7-20130718-01	DATE	18-Jul-13
TIME	START 1215 END 1245		

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Walpole Massachusetts 02081

WATER LEVEL/PUMP SETTINGS

MEASUREMENT POINT
- [x] TOP OF WELL RISER
- [ ] TOP OF PROTECTIVE CASING
- [ ] OTHER _____

PROTECTIVE CASING STICKUP (FROM GROUND): FT

PROTECTIVE CASING/WELL DIFFERENCE: FT

INITIAL DEPTH TO WATER	Note 1 FT	WELL DEPTH	Note 1 FT	WELL DIAMETER	4 IN
FINAL DEPTH TO WATER	Note 1 FT	SCREEN LENGTH	FT	PID AMBIENT AIR	NA PPM
DRAWDOWN VOLUME	Note 1 GAL			PID WELL MOUTH	NA PPM
TOTAL VOLUME PURGED	1.56 GAL				

(initial - final x 0.163 {2-inch} or x 0.654 {4-inch})

(purge rate (milliliters per minute) x time duration (minutes) x 0.00026 gal/millilter)

WELL INTEGRITY	YES	NO	N/A
CAP	[x]	[ ]	[ ]
CASING	[x]	[ ]	[ ]
LOCKED	[ ]	[x]	[ ]
COLLAR	[ ]	[ ]	[x]

PURGE DATA

TIME	DEPTH TO WATER (ft)	PURGE RATE (ml/min)	TEMP (deg C)	SPECIFIC CONDUCTANCE (mg/cm)	pH (units)	DISS. O_2 (mg/L)	TURBIDITY (ntu)	REDOX (mv)	COMMENTS
1225	Note 1	200	15.94	322	6.01	2.34	N/A	-79.3	
1230	Note 1	200	15.56	294	5.90	0.44	N/A	-101.3	
1235	Note 1	200	15.61	323	5.86	0.42	N/A	-112.5	
1240	Note 1	200	15.75	308	5.87	0.40	N/A	-114.5	
									sampled @ 1240

EQUIPMENT DOCUMENTATION

TYPE OF PUMP	TYPE OF TUBING	TYPE OF PUMP MATERIAL
System Pump	SILICON/ POLY	Peristaltic

ANALYTICAL PARAMETERS

	METHOD NUMBER	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	SAMPLE RESULTS
[x] TA	8260B	HCL/4 DEG C	3 x 40 ml	[x]	
[x] BTC		HCL/4 DEG C	1 x 40 ml	[x]	
[x] BTC		4 DEG C	4 x 40 ml	[x]	
[x] BTC		4 DEG C	1 x 500 ml	[x]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	

PURGE WATER DESCRIPTION: clear, slight bio odor

PURGE WATER CONTAINERIZED: Pour back into well

NUMBER OF BUCKETS GENERATED:

NOTES

Note 1: Pump in well and operating

SIGNATURE: **DAJ**

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT	RA-008	JOB NUMBER	N/A
WELL ID	REW-8-20130718-01	DATE	18-Jul-13
TIME	START 1140 END 1210		

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25 Spring Street
Walpole Massachusetts 02081

WATER LEVEL/PUMP SETTINGS

MEASUREMENT POINT
- [x] TOP OF WELL RISER
- [ ] TOP OF PROTECTIVE CASING
- [ ] OTHER _____

PROTECTIVE CASING STICKUP (FROM GROUND): FT

PROTECTIVE CASING/WELL DIFFERENCE: FT

INITIAL DEPTH TO WATER: Note 1 FT

WELL DEPTH: Note 1 FT

WELL DIAMETER: 4 IN

FINAL DEPTH TO WATER: Note 1 FT

SCREEN LENGTH: FT

PID AMBIENT AIR: NA PPM

DRAWDOWN VOLUME: Note 1 GAL
(initial - final x 0.163 {2-inch} or x 0.654 {4-inch})

PID WELL MOUTH: NA PPM

WELL INTEGRITY	YES	NO	N/A
CAP	[x]	[ ]	[ ]
CASING	[x]	[ ]	[ ]
LOCKED	[ ]	[x]	[ ]
COLLAR	[ ]	[ ]	[x]

TOTAL VOLUME PURGED: 1.56 GAL
(purge rate (milliliters per minute) x time duration (minutes) x 0.00026 gal/millilter)

PURGE DATA

TIME	DEPTH TO WATER (ft)	PURGE RATE (ml/min)	TEMP (deg C)	SPECIFIC CONDUCTANCE (mg/cm)	pH (units)	DISS. O_2 (mg/L)	TURBIDITY (ntu)	REDOX (mv)	COMMENTS
1150	Note 1	200	17.72	320	6.45	0.46	N/A	-127.2	
1155	Note 1	200	22.87	359	6.63	0.17	N/A	-139.4	
1200	Note 1	200	22.67	367	6.64	0.18	N/A	-142.3	
1205	Note 1	200	19.90	370	6.62	0.16	N/A	-145.4	
									sampled @ 1205

EQUIPMENT DOCUMENTATION

TYPE OF PUMP	TYPE OF TUBING	TYPE OF PUMP MATERIAL
System Pump	SILICON/ POLY	Peristaltic

ANALYTICAL PARAMETERS

	METHOD NUMBER	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	SAMPLE RESULTS
[x] TA	8260B	HCL/4 DEG C	3 x 40 ml	[x]	
[x] BTC		HCL/4 DEG C	1 x 40 ml	[x]	
[x] BTC		4 DEG C	4 x 40 ml	[x]	
[x] BTC		4 DEG C	1 x 500 ml	[x]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	

PURGE WATER DESCRIPTION: clear, slight bio odor

PURGE WATER CONTAINERIZED: Pour back into well

NUMBER OF BUCKETS GENERATED:

NOTES

Note 1: Pump in well and operating

SIGNATURE: **DAJ**

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT	RA-008	JOB NUMBER	N/A
WELL ID	REW-12-20130718-01	DATE	18-Jul-13
TIME	START 0840 END 0910		

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25 Spring Street
Walpole Massachusetts 02081

WATER LEVEL/PUMP SETTINGS

MEASUREMENT POINT
- [x] TOP OF WELL RISER
- [ ] TOP OF PROTECTIVE CASING
- [ ] OTHER _____

PROTECTIVE CASING STICKUP (FROM GROUND): FT

PROTECTIVE CASING/WELL DIFFERENCE: FT

INITIAL DEPTH TO WATER	Note 1 FT	WELL DEPTH	Note 1 FT	WELL DIAMETER	4 IN
FINAL DEPTH TO WATER	Note 1 FT	SCREEN LENGTH	FT	PID AMBIENT AIR	NA PPM
DRAWDOWN VOLUME	Note 1 GAL			PID WELL MOUTH	NA PPM
TOTAL VOLUME PURGED	1.56 GAL				

(initial - final x 0.163 {2-inch} or x 0.654 {4-inch})

(purge rate (milliliters per minute) x time duration (minutes) x 0.00026 gal/millilter)

WELL INTEGRITY	YES	NO	N/A
CAP	[x]	[ ]	[ ]
CASING	[x]	[ ]	[ ]
LOCKED	[ ]	[x]	[ ]
COLLAR	[ ]	[ ]	[x]

PURGE DATA

TIME	DEPTH TO WATER (ft)	PURGE RATE (ml/min)	TEMP (deg C)	SPECIFIC CONDUCTANCE (mg/cm)	pH (units)	DISS. O_2 (mg/L)	TURBIDITY (ntu)	REDOX (mv)	COMMENTS
0850	Note 1	200	12.93	289	6.30	0.44	N/A	-88.1	
0855	Note 1	200	12.60	287	6.38	0.20	N/A	-97.5	
0900	Note 1	200	13.04	291	6.39	0.18	N/A	-101.2	
0905	Note 1	200	12.80	289	6.40	0.16	N/A	-104.5	
									sampled @ 0905

EQUIPMENT DOCUMENTATION

TYPE OF PUMP	TYPE OF TUBING	TYPE OF PUMP MATERIAL
System Pump	SILICON/ POLY	Peristaltic

ANALYTICAL PARAMETERS

	METHOD NUMBER	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	SAMPLE RESULTS
[x] TA	8260B	HCL/4 DEG C	3 x 40 ml	[x]	
[x] BTC		HCL/4 DEG C	1 x 40 ml	[x]	
[x] BTC		4 DEG C	4 x 40 ml	[x]	
[x] BTC		4 DEG C	1 x 500 ml	[x]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	

PURGE WATER DESCRIPTION: clear, slight bio odor

PURGE WATER CONTAINERIZED: Pour back into well

NUMBER OF BUCKETS GENERATED:

NOTES

Note 1: Pump in well and operating

SIGNATURE: **DAJ**

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT	**RA-008**	JOB NUMBER	N/A
WELL ID	**DEP-19M-20131016-01**	DATE	16-Oct-13
TIME	START 0855 END 0940		

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25 Spring Street
Walpole Massachusetts 02081

WATER LEVEL/PUMP SETTINGS

MEASUREMENT POINT
- [x] TOP OF WELL RISER
- [ ] TOP OF PROTECTIVE CASING
- [ ] OTHER _____

PROTECTIVE CASING STICKUP (FROM GROUND): FT

PROTECTIVE CASING/WELL DIFFERENCE: FT

INITIAL DEPTH TO WATER	3.36 FT	WELL DEPTH	39.80 FT	WELL DIAMETER	1/2 IN
FINAL DEPTH TO WATER	Note 1 FT	SCREEN LENGTH	FT	PID AMBIENT AIR	NA PPM
DRAWDOWN VOLUME	Note 1 GAL			PID WELL MOUTH	NA PPM
TOTAL VOLUME PURGED	2.34 GAL				

(initial - final x 0.163 {2-inch} or x 0.654 {4-inch})

(purge rate (milliliters per minute) x time duration (minutes) x 0.00026 gal/millilter)

WELL INTEGRITY	YES	NO	N/A
CAP	[x]	[ ]	[ ]
CASING	[x]	[ ]	[ ]
LOCKED	[ ]	[x]	[ ]
COLLAR	[ ]	[ ]	[x]

PURGE DATA

TIME	DEPTH TO WATER (ft)	PURGE RATE (ml/min)	TEMP (deg C)	SPECIFIC CONDUCTANCE (mg/cm)	pH (units)	DISS. O_2 (mg/L)	TURBIDITY (ntu)	REDOX (mv)	COMMENTS
0905	Note 1	200	11.80	84	9.63	0.35	N/A	-84.6	
0910	Note 1	200	11.81	79	9.81	0.30	N/A	-84.9	
0915	Note 1	200	11.80	75	9.82	0.28	N/A	-82.8	
0920	Note 1	200	11.83	82	9.80	0.26	N/A	-80.8	
									sampled @ 0920

EQUIPMENT DOCUMENTATION

TYPE OF PUMP	TYPE OF TUBING	TYPE OF PUMP MATERIAL
GEO 2	SILICON/ POLY	Peristaltic

ANALYTICAL PARAMETERS

	METHOD NUMBER	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	SAMPLE RESULTS
[x] TA	8260B	HCL/4 DEG C	3 x 40 ml	[x]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	

PURGE WATER DESCRIPTION: cloudy, gray, slight bio odor

PURGE WATER CONTAINERIZED: Pour back into well

NUMBER OF BUCKETS GENERATED:

NOTES

Note 1: could not fit level probe and tubing in well at same time.

SIGNATURE **DAJ**

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT	**RA-008**	JOB NUMBER	N/A
WELL ID	**DEP-21-20131016-01**	DATE	16-Oct-13
TIME	START 0805 END 0835		

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25 Spring Street
Walpole Massachusetts 02081

WATER LEVEL/PUMP SETTINGS

MEASUREMENT POINT
- [x] TOP OF WELL RISER
- [ ] TOP OF PROTECTIVE CASING
- [ ] OTHER _____

PROTECTIVE CASING STICKUP (FROM GROUND): FT

PROTECTIVE CASING/WELL DIFFERENCE: FT

INITIAL DEPTH TO WATER	3 FT	WELL DEPTH	49.61 FT	WELL DIAMETER	1/2 IN
FINAL DEPTH TO WATER	Note 1 FT	SCREEN LENGTH	FT	PID AMBIENT AIR	NA PPM
DRAWDOWN VOLUME	Note 1 GAL			PID WELL MOUTH	NA PPM
TOTAL VOLUME PURGED	1.56 GAL				

(initial - final x 0.163 {2-inch} or x 0.654 {4-inch})

(purge rate (milliliters per minute) x time duration (minutes) x 0.00026 gal/millilter)

WELL INTEGRITY	YES	NO	N/A
CAP	[x]	[ ]	[ ]
CASING	[x]	[ ]	[ ]
LOCKED	[ ]	[x]	[ ]
COLLAR	[ ]	[ ]	[x]

PURGE DATA

TIME	DEPTH TO WATER (ft)	PURGE RATE (ml/min)	TEMP (deg C)	SPECIFIC CONDUCTANCE (mg/cm)	pH (units)	DISS. O_2 (mg/L)	TURBIDITY (ntu)	REDOX (mv)	COMMENTS
0815	Note 1	200	11.64	63	9.10	0.26	N/A	-29.3	
0820	Note 1	200	11.59	76	8.48	0.18	N/A	-98.3	
0825	Note 1	200	11.99	82	8.43	0.18	N/A	-100.6	
0830	Note 1	200	11.95	83	8.41	0.18	N/A	-103.7	
									sampled @ 0830

EQUIPMENT DOCUMENTATION

TYPE OF PUMP	TYPE OF TUBING	TYPE OF PUMP MATERIAL
GEO 2	SILICON/ POLY	Peristaltic

ANALYTICAL PARAMETERS

	METHOD NUMBER	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	SAMPLE RESULTS
[x] TA	8260B	HCL/4 DEG C	3 x 40 ml	[x]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	

PURGE WATER DESCRIPTION: cloudy, gray, slight bio odor

PURGE WATER CONTAINERIZED: Pour back into well

NUMBER OF BUCKETS GENERATED:

NOTES

Note 1: could not fit level probe and tubing in well at same time.

SIGNATURE **DAJ**

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT	RA-008	JOB NUMBER	N/A
WELL ID	MW-261S-20131012-01	DATE	12-Oct-13
TIME	START 0915 END 0955		

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25 Spring Street
Walpole Massachusetts 02081

WATER LEVEL/PUMP SETTINGS

MEASUREMENT POINT
- [x] TOP OF WELL RISER
- [ ] TOP OF PROTECTIVE CASING
- [ ] OTHER _____

PROTECTIVE CASING STICKUP (FROM GROUND): FT

PROTECTIVE CASING/WELL DIFFERENCE: FT

INITIAL DEPTH TO WATER	12.51 FT	WELL DEPTH	24.40 FT	WELL DIAMETER	2 IN
FINAL DEPTH TO WATER	13.75 FT	SCREEN LENGTH	FT	PID AMBIENT AIR	NA PPM
DRAWDOWN VOLUME	0.2 GAL			PID WELL MOUTH	NA PPM
TOTAL VOLUME PURGED	2.08 GAL				

(initial - final x 0.163 {2-inch} or x 0.654 {4-inch})

(purge rate (milliliters per minute) x time duration (minutes) x 0.00026 gal/millilter)

WELL INTEGRITY	YES	NO	N/A
CAP	[x]	[ ]	[ ]
CASING	[x]	[ ]	[ ]
LOCKED	[ ]	[x]	[ ]
COLLAR	[ ]	[ ]	[x]

PURGE DATA

TIME	DEPTH TO WATER (ft)	PURGE RATE (ml/min)	TEMP (deg C)	SPECIFIC CONDUCTANCE (mg/cm)	pH (units)	DISS. O_2 (mg/L)	TURBIDITY (ntu)	REDOX (mv)	COMMENTS
0925	13.76	200	13.15	1103	7.06	0.29	N/A	-176.2	DupX1-20131012-01
0930	13.75	200	13.21	1103	7.06	0.28	N/A	-176.7	
0935	13.75	200	13.24	1101	7.06	0.27	N/A	-176.7	
0940	13.75	200	13.23	1099	7.07	0.27	N/A	-176.7	
									sampled @ 0940

EQUIPMENT DOCUMENTATION

TYPE OF PUMP	TYPE OF TUBING	TYPE OF PUMP MATERIAL
GEO 2	SILICON/ POLY	Peristaltic

ANALYTICAL PARAMETERS

	METHOD NUMBER	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	SAMPLE RESULTS
[x] TA	8260B	HCL/4 DEG C	3 x 40 ml	[x]	
[x] TA	8260-SIM	HCL/4 DEG C	2 x 40 ml	[x]	
[x] BTC		HCL/4 DEG C	1 x 40 ml	[x]	
[x] BTC		4 DEG C	4 x 40 ml	[x]	
[x] BTC		4 DEG C	1 x 250 ml	[x]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	

PURGE WATER DESCRIPTION: clear, no odor

PURGE WATER CONTAINERIZED: Pour back into well

NUMBER OF BUCKETS GENERATED:

NOTES

DupX1-20131012-01

SIGNATURE: **DAJ**

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT	**RA-008**	JOB NUMBER	N/A
WELL ID	**MW-263M-20131016-01**	DATE	16-Oct-13
TIME	START 0930 END 1020		

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25 Spring Street
Walpole Massachusetts 02081

WATER LEVEL/PUMP SETTINGS

MEASUREMENT POINT
- [x] TOP OF WELL RISER
- [ ] TOP OF PROTECTIVE CASING
- [ ] OTHER _____

PROTECTIVE CASING STICKUP (FROM GROUND): FT

PROTECTIVE CASING/WELL DIFFERENCE: FT

INITIAL DEPTH TO WATER	10.77 FT	WELL DEPTH	52.40 FT	WELL DIAMETER	2 IN
FINAL DEPTH TO WATER	10.81 FT	SCREEN LENGTH	FT	PID AMBIENT AIR	NA PPM
DRAWDOWN VOLUME	0.007 GAL			PID WELL MOUTH	NA PPM
TOTAL VOLUME PURGED	2.6 GAL				

(initial - final x 0.163 {2-inch} or x 0.654 {4-inch})

(purge rate (milliliters per minute) x time duration (minutes) x 0.00026 gal/millilter)

WELL INTEGRITY	YES	NO	N/A
CAP	[x]	[ ]	[ ]
CASING	[x]	[ ]	[ ]
LOCKED	[ ]	[x]	[ ]
COLLAR	[ ]	[ ]	[x]

PURGE DATA

TIME	DEPTH TO WATER (ft)	PURGE RATE (ml/min)	TEMP (deg C)	SPECIFIC CONDUCTANCE (mg/cm)	pH (units)	DISS. O_2 (mg/L)	TURBIDITY (ntu)	REDOX (mv)	COMMENTS
0950	10.78	200	11.29	327	6.95	0.43	N/A	-14.5	
1000	10.80	200	11.26	362	7.10	0.25	N/A	-94.5	
1005	10.81	200	11.33	364	7.11	0.25	N/A	-97.3	
1010	10.81	200	11.33	365	7.12	0.25	N/A	98.9	
									sampled @ 1015

EQUIPMENT DOCUMENTATION

TYPE OF PUMP	TYPE OF TUBING	TYPE OF PUMP MATERIAL
GEO 2	SILICON/ POLY	Peristaltic

ANALYTICAL PARAMETERS

	METHOD NUMBER	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	SAMPLE RESULTS
[x] TA	8260B	HCL/4 DEG C	3 x 40 ml	[x]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	

PURGE WATER DESCRIPTION: clear

PURGE WATER CONTAINERIZED: Pour back into well

NUMBER OF BUCKETS GENERATED:

NOTES

SIGNATURE: **GH**

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT	RA-008	JOB NUMBER	N/A
WELL ID	MW-264M-20131015-01	DATE	15-Oct-13
TIME	START 1150 END 1220		

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25 Spring Street
Walpole Massachusetts 02081

WATER LEVEL/PUMP SETTINGS

MEASUREMENT POINT
- [x] TOP OF WELL RISER
- [ ] TOP OF PROTECTIVE CASING
- [ ] OTHER _____

PROTECTIVE CASING STICKUP (FROM GROUND): FT

PROTECTIVE CASING/WELL DIFFERENCE: FT

INITIAL DEPTH TO WATER	8.86 FT	WELL DEPTH	47.18 FT	WELL DIAMETER	2 IN
FINAL DEPTH TO WATER	9.02 FT	SCREEN LENGTH	FT	PID AMBIENT AIR	NA PPM
DRAWDOWN VOLUME	0.03 GAL			PID WELL MOUTH	NA PPM
TOTAL VOLUME PURGED	1.56 GAL				

(initial - final x 0.163 {2-inch} or x 0.654 {4-inch})

(purge rate (milliliters per minute) x time duration (minutes) x 0.00026 gal/millilter)

WELL INTEGRITY	YES	NO	N/A
CAP	[x]	[ ]	[ ]
CASING	[x]	[ ]	[ ]
LOCKED	[ ]	[x]	[ ]
COLLAR	[ ]	[ ]	[x]

PURGE DATA

TIME	DEPTH TO WATER (ft)	PURGE RATE (ml/min)	TEMP (deg C)	SPECIFIC CONDUCTANCE (mg/cm)	pH (units)	DISS. O_2 (mg/L)	TURBIDITY (ntu)	REDOX (mv)	COMMENTS
1200	9.02	200	12.28	149	6.59	2.78	N/A	47.9	
1205	9.02	200	12.64	150	6.49	2.82	N/A	53.5	
1210	9.02	200	12.65	150	6.47	2.84	N/A	56.5	
1215	9.02	200	12.56	150	6.45	2.83	N/A	59.3	
									sampled @ 1215

EQUIPMENT DOCUMENTATION

TYPE OF PUMP	TYPE OF TUBING	TYPE OF PUMP MATERIAL
GEO 2	SILICON/ POLY	Peristaltic

ANALYTICAL PARAMETERS

	METHOD NUMBER	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	SAMPLE RESULTS
[x] TA	8260B	HCL/4 DEG C	3 x 40 ml	[x]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	

PURGE WATER DESCRIPTION: clear, no odor

PURGE WATER CONTAINERIZED: Pour back into well

NUMBER OF BUCKETS GENERATED:

NOTES

SIGNATURE: **DAJ**

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT	**RA-008**	JOB NUMBER	N/A
WELL ID	**MW-265S-20131015-01**	DATE	15-Oct-13
TIME	START 1035 END 1110		

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Walpole Massachusetts 02081

WATER LEVEL/PUMP SETTINGS

MEASUREMENT POINT
- [x] TOP OF WELL RISER
- [ ] TOP OF PROTECTIVE CASING
- [ ] OTHER _____

PROTECTIVE CASING STICKUP (FROM GROUND): FT

PROTECTIVE CASING/WELL DIFFERENCE: FT

INITIAL DEPTH TO WATER	13.13 FT	WELL DEPTH	21.85 FT	WELL DIAMETER	2 IN
FINAL DEPTH TO WATER	13.24 FT	SCREEN LENGTH	FT	PID AMBIENT AIR	NA PPM
DRAWDOWN VOLUME	0.02 GAL			PID WELL MOUTH	NA PPM

(initial - final x 0.163 {2-inch} or x 0.654 {4-inch})

WELL INTEGRITY	YES	NO	N/A
CAP	[x]	[ ]	[ ]
CASING	[x]	[ ]	[ ]
LOCKED	[ ]	[x]	[ ]
COLLAR	[ ]	[ ]	[x]

TOTAL VOLUME PURGED: 1.82 GAL

(purge rate (milliliters per minute) x time duration (minutes) x 0.00026 gal/millilter)

PURGE DATA

TIME	DEPTH TO WATER (ft)	PURGE RATE (ml/min)	TEMP (deg C)	SPECIFIC CONDUCTANCE (mg/cm)	pH (units)	DISS. O_2 (mg/L)	TURBIDITY (ntu)	REDOX (mv)	COMMENTS
1045	13.24	200	15.11	342	6.31	0.31	N/A	-62	
1050	13.24	200	15.09	344	6.34	0.32	N/A	-64.9	
1055	13.24	200	15.11	357	6.36	0.34	N/A	-73.8	
1100	13.24	200	15.14	364	6.37	0.33	N/A	-74.7	
1105	13.24	200	15.20	383	6.38	0.33	N/A	-79	
									sampled @ 1105

EQUIPMENT DOCUMENTATION

TYPE OF PUMP	TYPE OF TUBING	TYPE OF PUMP MATERIAL
GEO 2	SILICON/ POLY	Peristaltic

ANALYTICAL PARAMETERS

	METHOD NUMBER	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	SAMPLE RESULTS
[x] TA	8260B	HCL/4 DEG C	3 x 40 ml	[x]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	

PURGE WATER DESCRIPTION: clear, slight bio odor

PURGE WATER CONTAINERIZED: Pour back into well

NUMBER OF BUCKETS GENERATED:

NOTES

SIGNATURE: **DAJ**

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT	RA-008	JOB NUMBER	N/A
WELL ID	MW-265M-20131014-01	DATE	14-Oct-13
TIME	START 1300 END 1335		

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25 Spring Street
Walpole Massachusetts 02081

WATER LEVEL/PUMP SETTINGS

MEASUREMENT POINT
- [x] TOP OF WELL RISER
- [ ] TOP OF PROTECTIVE CASING
- [ ] OTHER _____

PROTECTIVE CASING STICKUP (FROM GROUND): FT

PROTECTIVE CASING/WELL DIFFERENCE: FT

INITIAL DEPTH TO WATER	12.02 FT	WELL DEPTH	48.24 FT	WELL DIAMETER	2 IN
FINAL DEPTH TO WATER	12.58 FT	SCREEN LENGTH	FT	PID AMBIENT AIR	NA PPM
DRAWDOWN VOLUME	0.09 GAL			PID WELL MOUTH	NA PPM
TOTAL VOLUME PURGED	1.56 GAL				

(initial - final x 0.163 {2-inch} or x 0.654 {4-inch})

(purge rate (milliliters per minute) x time duration (minutes) x 0.00026 gal/millilter)

WELL INTEGRITY	YES	NO	N/A
CAP	[x]	[ ]	[ ]
CASING	[x]	[ ]	[ ]
LOCKED	[ ]	[x]	[ ]
COLLAR	[ ]	[ ]	[x]

PURGE DATA

TIME	DEPTH TO WATER (ft)	PURGE RATE (ml/min)	TEMP (deg C)	SPECIFIC CONDUCTANCE (mg/cm)	pH (units)	DISS. O_2 (mg/L)	TURBIDITY (ntu)	REDOX (mv)	COMMENTS
1310	12.26	200	13.90	971	5.24	0.38	N/A	59.2	
1315	12.58	200	14.01	974	5.24	0.30	N/A	58.6	
1320	12.58	200	13.89	971	5.23	0.28	N/A	58.4	
1325	12.58	200	13.83	972	5.23	0.26	N/A	57.8	
									sampled @ 1325

EQUIPMENT DOCUMENTATION

TYPE OF PUMP	TYPE OF TUBING	TYPE OF PUMP MATERIAL
GEO 2	SILICON/ POLY	Peristaltic

ANALYTICAL PARAMETERS

	METHOD NUMBER	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	SAMPLE RESULTS
[x] TA	8260B	HCL/4 DEG C	3 x 40 ml	[x]	
[x] TA	8260-SIM	HCL/4 DEG C	2 x 40 ml	[x]	
[x] BTC		HCL/4 DEG C	1 x 40 ml	[x]	
[x] BTC		4 DEG C	4 x 40 ml	[x]	
[x] BTC		4 DEG C	1 x 250 ml	[x]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	

PURGE WATER DESCRIPTION: clear, moderate bio odor

PURGE WATER CONTAINERIZED: Pour back into well

NUMBER OF BUCKETS GENERATED:

NOTES

SIGNATURE: **DAJ**

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT	RA-008	JOB NUMBER	N/A
WELL ID	MW-265D-20131015-01	DATE	15-Oct-13
TIME	START 1110 END 1140		

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25 Spring Street
Walpole Massachusetts 02081

WATER LEVEL/PUMP SETTINGS

MEASUREMENT POINT
- [x] TOP OF WELL RISER
- [ ] TOP OF PROTECTIVE CASING
- [ ] OTHER _____

PROTECTIVE CASING STICKUP (FROM GROUND): _____ FT

PROTECTIVE CASING/WELL DIFFERENCE: _____ FT

INITIAL DEPTH TO WATER	14.82 FT	WELL DEPTH	91.31 FT	WELL DIAMETER	2 IN
FINAL DEPTH TO WATER	16.68 FT	SCREEN LENGTH	FT	PID AMBIENT AIR	NA PPM
DRAWDOWN VOLUME	0.3 GAL			PID WELL MOUTH	NA PPM
TOTAL VOLUME PURGED	1.56 GAL				

(initial - final x 0.163 {2-inch} or x 0.654 {4-inch})

(purge rate (milliliters per minute) x time duration (minutes) x 0.00026 gal/millilter)

WELL INTEGRITY	YES	NO	N/A
CAP	[x]	[ ]	[ ]
CASING	[x]	[ ]	[ ]
LOCKED	[ ]	[x]	[ ]
COLLAR	[ ]	[ ]	[x]

PURGE DATA

TIME	DEPTH TO WATER (ft)	PURGE RATE (ml/min)	TEMP (deg C)	SPECIFIC CONDUCTANCE (mg/cm)	pH (units)	DISS. O_2 (mg/L)	TURBIDITY (ntu)	REDOX (mv)	COMMENTS
1120	16.58	200	13.43	299	7.14	1.25	N/A	-61.3	
1125	16.62	200	13.51	299	7.22	1.22	N/A	-61.5	
1130	16.65	200	13.41	298	7.24	1.20	N/A	-61	
1135	16.65	200	13.41	299	7.26	1.18	N/A	-60.7	
									sampled @ 1135

EQUIPMENT DOCUMENTATION

TYPE OF PUMP	TYPE OF TUBING	TYPE OF PUMP MATERIAL
GEO 2	SILICON/ POLY	Peristaltic

ANALYTICAL PARAMETERS

	METHOD NUMBER	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	SAMPLE RESULTS
[x] TA	8260B	HCL/4 DEG C	3 x 40 ml	[x]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	

PURGE WATER DESCRIPTION: clear, slight bio odor

PURGE WATER CONTAINERIZED: Pour back into well

NUMBER OF BUCKETS GENERATED:

NOTES

SIGNATURE: **DAJ**

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT	RA-008	JOB NUMBER	N/A
WELL ID	MW-266Ma-20131015-01	DATE	15-Oct-13
TIME	START 0750 END 0820		

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25 Spring Street
Walpole Massachusetts 02081

WATER LEVEL/PUMP SETTINGS

MEASUREMENT POINT
- [x] TOP OF WELL RISER
- [ ] TOP OF PROTECTIVE CASING
- [ ] OTHER _____

PROTECTIVE CASING STICKUP (FROM GROUND)	FT	PROTECTIVE CASING/WELL DIFFERENCE	FT		
INITIAL DEPTH TO WATER	11.66 FT	WELL DEPTH	55.03 FT	WELL DIAMETER	2 IN
FINAL DEPTH TO WATER	12.93 FT	SCREEN LENGTH	FT	PID AMBIENT AIR	NA PPM
DRAWDOWN VOLUME	0.21 GAL			PID WELL MOUTH	NA PPM
TOTAL VOLUME PURGED	1.56 GAL				

(initial - final x 0.163 {2-inch} or x 0.654 {4-inch})

(purge rate (milliliters per minute) x time duration (minutes) x 0.00026 gal/millilter)

WELL INTEGRITY	YES	NO	N/A
CAP	[x]	[ ]	[ ]
CASING	[x]	[ ]	[ ]
LOCKED	[ ]	[x]	[ ]
COLLAR	[ ]	[ ]	[x]

PURGE DATA

TIME	DEPTH TO WATER (ft)	PURGE RATE (ml/min)	TEMP (deg C)	SPECIFIC CONDUCTANCE (mg/cm)	pH (units)	DISS. O_2 (mg/L)	TURBIDITY (ntu)	REDOX (mv)	COMMENTS
0800	12.71	200	11.22	565	6.39	0.95	N/A	-40.6	
0805	12.93	200	11.09	495	6.46	1.02	N/A	-46.4	
0810	12.93	200	11.26	497	6.46	1.04	N/A	-47	
0815	12.93	200	11.27	498	6.47	1.05	N/A	-48.6	
									sampled @ 0815

EQUIPMENT DOCUMENTATION

TYPE OF PUMP	TYPE OF TUBING	TYPE OF PUMP MATERIAL
GEO 2	SILICON/ POLY	Peristaltic

ANALYTICAL PARAMETERS

	METHOD NUMBER	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	SAMPLE RESULTS
[x] TA	8260B	HCL/4 DEG C	3 x 40 ml	[x]	
[ ] TA	8260-SIM	HCL/4 DEG C	2 x 40 ml	[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	

PURGE WATER DESCRIPTION: cloudy, slight bio odor

PURGE WATER CONTAINERIZED: Pour back into well

NUMBER OF BUCKETS GENERATED:

NOTES

SIGNATURE: **DAJ**

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT	**RA-008**	JOB NUMBER	N/A
WELL ID	**MW-266Mb-20131015-01**	DATE	15-Oct-13
TIME	START 0825 END 0905		

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25 Spring Street
Walpole Massachusetts 02081

WATER LEVEL/PUMP SETTINGS

MEASUREMENT POINT
- [x] TOP OF WELL RISER
- [ ] TOP OF PROTECTIVE CASING
- [ ] OTHER _____

PROTECTIVE CASING STICKUP (FROM GROUND): FT

PROTECTIVE CASING/WELL DIFFERENCE: FT

INITIAL DEPTH TO WATER	11.24 FT	WELL DEPTH	69.98 FT	WELL DIAMETER	2 IN
FINAL DEPTH TO WATER	11.42 FT	SCREEN LENGTH	FT	PID AMBIENT AIR	NA PPM
DRAWDOWN VOLUME	0.03 GAL			PID WELL MOUTH	NA PPM
TOTAL VOLUME PURGED	2.08 GAL				

(initial - final x 0.163 {2-inch} or x 0.654 {4-inch})

(purge rate (milliliters per minute) x time duration (minutes) x 0.00026 gal/millilter)

WELL INTEGRITY	YES	NO	N/A
CAP	[x]	[ ]	[ ]
CASING	[x]	[ ]	[ ]
LOCKED	[ ]	[x]	[ ]
COLLAR	[ ]	[ ]	[x]

PURGE DATA

TIME	DEPTH TO WATER (ft)	PURGE RATE (ml/min)	TEMP (deg C)	SPECIFIC CONDUCTANCE (mg/cm)	pH (units)	DISS. O_2 (mg/L)	TURBIDITY (ntu)	REDOX (mv)	COMMENTS
0825	11.42	200	11.38	160	6.77	2.88	N/A	2.1	DupX4-20131015-01
0835	11.42	200	11.25	186	6.52	0.75	N/A	-50.2	
0840	11.42	200	11.37	187	6.53	0.46	N/A	-55.5	
0845	11.42	200	11.38	187	6.54	0.44	N/A	-58.1	
0850	11.42	200	11.34	187	6.54	0.42	N/A	-59.4	
									sampled @ 0850

EQUIPMENT DOCUMENTATION

TYPE OF PUMP	TYPE OF TUBING	TYPE OF PUMP MATERIAL
GEO 2	SILICON/ POLY	Peristaltic

ANALYTICAL PARAMETERS

	METHOD NUMBER	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	SAMPLE RESULTS
[x] TA	8260B	HCL/4 DEG C	3 x 40 ml	[x]	
[ ] TA	8260-SIM	HCL/4 DEG C	2 x 40 ml	[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	

PURGE WATER DESCRIPTION: cloudy, slight bio odor

PURGE WATER CONTAINERIZED: Pour back into well

NUMBER OF BUCKETS GENERATED:

NOTES

DupX4-20131015-01

SIGNATURE: **DAJ**

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT	**RA-008**	JOB NUMBER	N/A
WELL ID	**MW-267S-20131014-01**	DATE	14-Oct-13
TIME	START 0905 END 0940		

Innovative Engineering Solutions, Inc.
25 Spring Street
Walpole Massachusetts 02081

WATER LEVEL/PUMP SETTINGS

MEASUREMENT POINT
- [x] TOP OF WELL RISER
- [ ] TOP OF PROTECTIVE CASING
- [ ] OTHER _____

PROTECTIVE CASING STICKUP (FROM GROUND): FT

PROTECTIVE CASING/WELL DIFFERENCE: FT

INITIAL DEPTH TO WATER	13.2 FT	WELL DEPTH	76.66 FT	WELL DIAMETER	2 IN
FINAL DEPTH TO WATER	14.78 FT	SCREEN LENGTH	FT	PID AMBIENT AIR	NA PPM
DRAWDOWN VOLUME	0.26 GAL			PID WELL MOUTH	NA PPM
TOTAL VOLUME PURGED	1.82 GAL				

(initial - final x 0.163 {2-inch} or x 0.654 {4-inch})

(purge rate (milliliters per minute) x time duration (minutes) x 0.00026 gal/millilter)

WELL INTEGRITY	YES	NO	N/A
CAP	[x]	[ ]	[ ]
CASING	[x]	[ ]	[ ]
LOCKED	[ ]	[x]	[ ]
COLLAR	[ ]	[ ]	[x]

PURGE DATA

TIME	DEPTH TO WATER (ft)	PURGE RATE (ml/min)	TEMP (deg C)	SPECIFIC CONDUCTANCE (mg/cm)	pH (units)	DISS. O_2 (mg/L)	TURBIDITY (ntu)	REDOX (mv)	COMMENTS
0915	14.43	200	10.57	370	5.99	0.09	N/A	-7.8	
0920	14.57	200	10.52	369	5.90	0.02	N/A	-6.7	
0925	14.66	200	10.60	370	5.88	0.01	N/A	-6.1	
0930	14.78	200	10.65	370	5.86	0.01	N/A	-6	
									sampled @ 0930

EQUIPMENT DOCUMENTATION

TYPE OF PUMP	TYPE OF TUBING	TYPE OF PUMP MATERIAL
GEO 2	SILICON/ POLY	Peristaltic

ANALYTICAL PARAMETERS

	METHOD NUMBER	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	SAMPLE RESULTS
[x] TA	8260B	HCL/4 DEG C	3 x 40 ml	[x]	
[x] TA	8260-SIM	HCL/4 DEG C	2 x 40 ml	[x]	
[x] BTC		HCL/4 DEG C	1 x 40 ml	[x]	
[x] BTC		4 DEG C	4 x 40 ml	[x]	
[x] BTC		4 DEG C	1 x 250 ml	[x]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	

PURGE WATER DESCRIPTION: clear, strong bio odor

PURGE WATER CONTAINERIZED: Pour back into well

NUMBER OF BUCKETS GENERATED:

NOTES

SIGNATURE: **DAJ**

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT	**RA-008**	JOB NUMBER	N/A
WELL ID	**MW-267M-20131014-01**	DATE	14-Oct-13
TIME	START 0940 END 1015		

Innovative Engineering Solutions, Inc.
25 Spring Street
Walpole Massachusetts 02081

WATER LEVEL/PUMP SETTINGS

MEASUREMENT POINT
- [x] TOP OF WELL RISER
- [ ] TOP OF PROTECTIVE CASING
- [ ] OTHER _____

PROTECTIVE CASING STICKUP (FROM GROUND): FT

PROTECTIVE CASING/WELL DIFFERENCE: FT

INITIAL DEPTH TO WATER	10.96 FT	WELL DEPTH	98.06 FT	WELL DIAMETER	2 IN
FINAL DEPTH TO WATER	11.54 FT	SCREEN LENGTH	FT	PID AMBIENT AIR	NA PPM
DRAWDOWN VOLUME	0.09 GAL			PID WELL MOUTH	NA PPM
TOTAL VOLUME PURGED	1.82 GAL				

(initial - final x 0.163 {2-inch} or x 0.654 {4-inch})

(purge rate (milliliters per minute) x time duration (minutes) x 0.00026 gal/millilter)

WELL INTEGRITY	YES	NO	N/A
CAP	[x]	[ ]	[ ]
CASING	[x]	[ ]	[ ]
LOCKED	[ ]	[x]	[ ]
COLLAR	[ ]	[ ]	[x]

PURGE DATA

TIME	DEPTH TO WATER (ft)	PURGE RATE (ml/min)	TEMP (deg C)	SPECIFIC CONDUCTANCE (mg/cm)	pH (units)	DISS. O_2 (mg/L)	TURBIDITY (ntu)	REDOX (mv)	COMMENTS
0950	11.52	200	11.38	466	6.53	0.19	N/A	-103.6	
0955	11.52	200	11.40	466	6.51	0.13	N/A	-102.3	
1000	11.54	200	11.37	466	6.52	0.12	N/A	-101.1	
1005	11.54	200	11.34	466	6.52	0.10	N/A	-103.8	
									sampled @ 1005

EQUIPMENT DOCUMENTATION

TYPE OF PUMP	TYPE OF TUBING	TYPE OF PUMP MATERIAL
GEO 2	SILICON/ POLY	Peristaltic

ANALYTICAL PARAMETERS

	METHOD NUMBER	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	SAMPLE RESULTS
[x] TA	8260B	HCL/4 DEG C	3 x 40 ml	[x]	
[x] TA	8260-SIM	HCL/4 DEG C	2 x 40 ml	[x]	
[x] BTC		HCL/4 DEG C	1 x 40 ml	[x]	
[x] BTC		4 DEG C	4 x 40 ml	[x]	
[x] BTC		4 DEG C	1 x 250 ml	[x]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	

PURGE WATER DESCRIPTION: clear, strong bio odor

PURGE WATER CONTAINERIZED: Pour back into well

NUMBER OF BUCKETS GENERATED:

NOTES

SIGNATURE: **DAJ**

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT	RA-008	JOB NUMBER	N/A
WELL ID	MW-268M-20131014-01	DATE	14-Oct-13
TIME	START 0810 END 0855		

Innovative Engineering Solutions, Inc.
25 Spring Street
Walpole Massachusetts 02081

WATER LEVEL/PUMP SETTINGS

MEASUREMENT POINT
- [x] TOP OF WELL RISER
- [ ] TOP OF PROTECTIVE CASING
- [ ] OTHER _____

PROTECTIVE CASING STICKUP (FROM GROUND): FT

PROTECTIVE CASING/WELL DIFFERENCE: FT

INITIAL DEPTH TO WATER	9.48 FT	WELL DEPTH	93.80 FT	WELL DIAMETER	2 IN
FINAL DEPTH TO WATER	10.19 FT	SCREEN LENGTH	FT	PID AMBIENT AIR	NA PPM
DRAWDOWN VOLUME	0.12 GAL			PID WELL MOUTH	NA PPM
TOTAL VOLUME PURGED	2.34 GAL				

(initial - final x 0.163 {2-inch} or x 0.654 {4-inch})

(purge rate (milliliters per minute) x time duration (minutes) x 0.00026 gal/millilter)

WELL INTEGRITY	YES	NO	N/A
CAP	☑	☐	☐
CASING	☑	☐	☐
LOCKED	☐	☑	☐
COLLAR	☐	☐	☑

PURGE DATA

TIME	DEPTH TO WATER (ft)	PURGE RATE (ml/min)	TEMP (deg C)	SPECIFIC CONDUCTANCE (mg/cm)	pH (units)	DISS. O_2 (mg/L)	TURBIDITY (ntu)	REDOX (mv)	COMMENTS
0820	10.03	200	9.80	222	7.06	0.36	N/A	-111.2	
0825	10.07	200	9.80	223	7.17	0.38	N/A	-137.3	
0830	10.13	200	9.85	238	7.00	0.28	N/A	-125.3	
0835	10.16	200	9.93	240	6.98	0.27	N/A	-119.5	
0840	10.19	200	9.94	239	6.97	0.27	N/A	-118	
									sampled @ 0840

EQUIPMENT DOCUMENTATION

TYPE OF PUMP	TYPE OF TUBING	TYPE OF PUMP MATERIAL
GEO 2	SILICON/ POLY	Peristaltic

ANALYTICAL PARAMETERS

	METHOD NUMBER	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	SAMPLE RESULTS
☑ TA	8260B	HCL/4 DEG C	3 x 40 ml	☑	
☑ TA	8260-SIM	HCL/4 DEG C	2 x 40 ml	☑	
☐				☐	
☐				☐	
☐				☐	
☐				☐	
☐				☐	
☐				☐	
☐				☐	
☐				☐	
☐				☐	

PURGE WATER DESCRIPTION: clear, no odor

PURGE WATER CONTAINERIZED: Pour back into well

NUMBER OF BUCKETS GENERATED:

NOTES

SIGNATURE: **DAJ**

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT	**RA-008**	JOB NUMBER	N/A
WELL ID	**MW-268D-20131015-01**	DATE	15-Oct-13
TIME	START 1230 END 1300		

Innovative Engineering Solutions, Inc.
25 Spring Street
Walpole Massachusetts 02081

WATER LEVEL/PUMP SETTINGS

MEASUREMENT POINT
- [x] TOP OF WELL RISER
- [ ] TOP OF PROTECTIVE CASING
- [ ] OTHER _____

PROTECTIVE CASING STICKUP (FROM GROUND): _____ FT

PROTECTIVE CASING/WELL DIFFERENCE: _____ FT

INITIAL DEPTH TO WATER	10.66 FT	WELL DEPTH	130.33 FT	WELL DIAMETER	2 IN
FINAL DEPTH TO WATER	10.73 FT	SCREEN LENGTH	FT	PID AMBIENT AIR	NA PPM
DRAWDOWN VOLUME	0.01 GAL			PID WELL MOUTH	NA PPM
TOTAL VOLUME PURGED	1.56 GAL				

(initial - final x 0.163 {2-inch} or x 0.654 {4-inch})

(purge rate (milliliters per minute) x time duration (minutes) x 0.00026 gal/millilter)

WELL INTEGRITY	YES	NO	N/A
CAP	[x]	[ ]	[ ]
CASING	[x]	[ ]	[ ]
LOCKED	[ ]	[x]	[ ]
COLLAR	[ ]	[ ]	[x]

PURGE DATA

TIME	DEPTH TO WATER (ft)	PURGE RATE (ml/min)	TEMP (deg C)	SPECIFIC CONDUCTANCE (mg/cm)	pH (units)	DISS. O_2 (mg/L)	TURBIDITY (ntu)	REDOX (mv)	COMMENTS
1240	10.73	200	12.09	254	7.93	0.44	N/A	-179.4	
1245	10.73	200	12.39	259	7.95	0.44	N/A	-185.5	
1250	10.73	200	12.62	260	7.96	0.43	N/A	-187.4	
1255	10.73	200	12.55	260	7.98	0.43	N/A	-189.8	
									sampled @ 1255

EQUIPMENT DOCUMENTATION

TYPE OF PUMP	TYPE OF TUBING	TYPE OF PUMP MATERIAL
GEO 2	SILICON/ POLY	Peristaltic

ANALYTICAL PARAMETERS

	METHOD NUMBER	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	SAMPLE RESULTS
[x] TA	8260B	HCL/4 DEG C	3 x 40 ml	[x]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	

PURGE WATER DESCRIPTION: clear, slight bio odor

PURGE WATER CONTAINERIZED: Pour back into well

NUMBER OF BUCKETS GENERATED:

NOTES

SIGNATURE: **DAJ**

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT	**RA-008**	JOB NUMBER	N/A
WELL ID	**MW-269Ma-20131016-01**	DATE	16-Oct-13
TIME	START 1025 END 1120		

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25 Spring Street
Walpole Massachusetts 02081

WATER LEVEL/PUMP SETTINGS

MEASUREMENT POINT
- [x] TOP OF WELL RISER
- [ ] TOP OF PROTECTIVE CASING
- [ ] OTHER _____

PROTECTIVE CASING STICKUP (FROM GROUND): FT

PROTECTIVE CASING/WELL DIFFERENCE: FT

INITIAL DEPTH TO WATER	11.71 FT	WELL DEPTH	33.55 FT	WELL DIAMETER	2 IN
FINAL DEPTH TO WATER	12.9 FT	SCREEN LENGTH	FT	PID AMBIENT AIR	NA PPM
DRAWDOWN VOLUME	0.03 GAL			PID WELL MOUTH	NA PPM
TOTAL VOLUME PURGED	2.86 GAL				

(initial - final x 0.163 {2-inch} or x 0.654 {4-inch})

(purge rate (milliliters per minute) x time duration (minutes) x 0.00026 gal/millilter)

WELL INTEGRITY	YES	NO	N/A
CAP	[x]	[ ]	[ ]
CASING	[x]	[ ]	[ ]
LOCKED	[ ]	[x]	[ ]
COLLAR	[ ]	[ ]	[x]

PURGE DATA

TIME	DEPTH TO WATER (ft)	PURGE RATE (ml/min)	TEMP (deg C)	SPECIFIC CONDUCTANCE (mg/cm)	pH (units)	DISS. O_2 (mg/L)	TURBIDITY (ntu)	REDOX (mv)	COMMENTS
1040	12.96	200	11.55	300	6.90	0.30	N/A	-79.2	
1055	12.90	150	11.91	298	6.87	0.24	N/A	-87.6	
1100	12.93	150	11.99	298	6.87	0.22	N/A	-89.8	
1105	12.91	150	12.10	299	6.87	0.22	N/A	-91	
1110	12.90	150	12.16	300	6.87	0.22	N/A	-91.4	
									sampled @ 1115

EQUIPMENT DOCUMENTATION

TYPE OF PUMP	TYPE OF TUBING	TYPE OF PUMP MATERIAL
GEO 2	SILICON/ POLY	Peristaltic

ANALYTICAL PARAMETERS

	METHOD NUMBER	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	SAMPLE RESULTS
[x] TA	8260B	HCL/4 DEG C	3 x 40 ml	[x]	
[x] TA	8260-SIM	HCL/4 DEG C	2 x 40 ml	[x]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	

PURGE WATER DESCRIPTION: some iron then clear, brackish

PURGE WATER CONTAINERIZED: Pour back into well

NUMBER OF BUCKETS GENERATED:

NOTES

SIGNATURE: **GH**

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT	RA-008	JOB NUMBER	N/A
WELL ID	MW-551-20131012-01	DATE	12-Oct-13
TIME	START 1005 END 1035		

Innovative Engineering Solutions, Inc.
25 Spring Street
Walpole Massachusetts 02081

WATER LEVEL/PUMP SETTINGS

MEASUREMENT POINT
- [x] TOP OF WELL RISER
- [ ] TOP OF PROTECTIVE CASING
- [ ] OTHER _____

PROTECTIVE CASING STICKUP (FROM GROUND): _____ FT

PROTECTIVE CASING/WELL DIFFERENCE: _____ FT

INITIAL DEPTH TO WATER	10.25 FT	WELL DEPTH	25.95 FT	WELL DIAMETER	2 IN
FINAL DEPTH TO WATER	13.03 FT	SCREEN LENGTH	FT	PID AMBIENT AIR	NA PPM
DRAWDOWN VOLUME	0.45 GAL			PID WELL MOUTH	NA PPM

(initial - final x 0.163 {2-inch} or x 0.654 {4-inch})

WELL INTEGRITY	YES	NO	N/A
CAP	[x]	[ ]	[ ]
CASING	[x]	[ ]	[ ]
LOCKED	[ ]	[x]	[ ]
COLLAR	[ ]	[ ]	[x]

TOTAL VOLUME PURGED: 2.08 GAL

(purge rate (milliliters per minute) x time duration (minutes) x 0.00026 gal/millilter)

PURGE DATA

TIME	DEPTH TO WATER (ft)	PURGE RATE (ml/min)	TEMP (deg C)	SPECIFIC CONDUCTANCE (mg/cm)	pH (units)	DISS. O_2 (mg/L)	TURBIDITY (ntu)	REDOX (mv)	COMMENTS
1015	12.32	200	12.34	396	6.73	0.16	N/A	-93.6	
1020	12.63	200	12.37	396	6.70	0.13	N/A	-94.8	
1025	12.82	200	12.38	396	6.69	0.14	N/A	-94.6	
1030	13.03	200	12.30	395	6.68	0.14	N/A	-94.9	
									sampled @ 1030

EQUIPMENT DOCUMENTATION

TYPE OF PUMP	TYPE OF TUBING	TYPE OF PUMP MATERIAL
GEO 2	SILICON/ POLY	Peristaltic

ANALYTICAL PARAMETERS

	METHOD NUMBER	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	SAMPLE RESULTS
[x] TA	8260B	HCL/4 DEG C	3 x 40 ml	[x]	
[x] BTC		HCL/4 DEG C	1 x 40 ml	[x]	
[x] BTC		4 DEG C	4 x 40 ml	[x]	
[x] BTC		4 DEG C	1 x 250 ml	[x]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	

PURGE WATER DESCRIPTION: clear, slioght bio odor

PURGE WATER CONTAINERIZED: Pour back into well

NUMBER OF BUCKETS GENERATED:

NOTES

SIGNATURE: **DAJ**

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT	RA-008	JOB NUMBER	N/A
WELL ID	MW-552-20131012-01	DATE	12-Oct-13
TIME	START 0830 END 0905		

Innovative Engineering Solutions, Inc.
25 Spring Street
Walpole Massachusetts 02081

WATER LEVEL/PUMP SETTINGS

MEASUREMENT POINT
- [x] TOP OF WELL RISER
- [ ] TOP OF PROTECTIVE CASING
- [ ] OTHER _____

PROTECTIVE CASING STICKUP (FROM GROUND): FT

PROTECTIVE CASING/WELL DIFFERENCE: FT

INITIAL DEPTH TO WATER	11.39 FT	WELL DEPTH	26.96 FT	WELL DIAMETER	2 IN
FINAL DEPTH TO WATER	12.03 FT	SCREEN LENGTH	FT	PID AMBIENT AIR	NA PPM
DRAWDOWN VOLUME	0.1 GAL			PID WELL MOUTH	NA PPM

(initial - final x 0.163 {2-inch} or x 0.654 {4-inch})

WELL INTEGRITY	YES	NO	N/A
CAP	☑	☐	☐
CASING	☑	☐	☐
LOCKED	☐	☑	☐
COLLAR	☐	☐	☑

TOTAL VOLUME PURGED: 1.82 GAL

(purge rate (milliliters per minute) x time duration (minutes) x 0.00026 gal/millilter)

PURGE DATA

TIME	DEPTH TO WATER (ft)	PURGE RATE (ml/min)	TEMP (deg C)	SPECIFIC CONDUCTANCE (mg/cm)	pH (units)	DISS. O_2 (mg/L)	TURBIDITY (ntu)	REDOX (mv)	COMMENTS
0840	12.01	200	12.93	753	7.31	0.28	N/A	-163	
0845	12.03	200	12.87	789	7.20	0.20	N/A	-165.6	
0850	12.03	200	12.83	826	7.19	0.18	N/A	-166.9	
0855	12.03	200	12.77	856	7.17	0.17	N/A	-167	
									sampled @ 0855

EQUIPMENT DOCUMENTATION

TYPE OF PUMP	TYPE OF TUBING	TYPE OF PUMP MATERIAL
GEO 2	SILICON/ POLY	Peristaltic

ANALYTICAL PARAMETERS

	METHOD NUMBER	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	SAMPLE RESULTS
☑ TA	8260B	HCL/4 DEG C	3 x 40 ml	☑	
☑ TA	8260-SIM	HCL/4 DEG C	2 x 40 ml	☑	
☑ BTC		HCL/4 DEG C	1 x 40 ml	☑	
☑ BTC		4 DEG C	4 x 40 ml	☑	
☑ BTC		4 DEG C	1 x 250 ml	☑	
☐				☐	
☐				☐	
☐				☐	
☐				☐	
☐				☐	
☐				☐	

PURGE WATER DESCRIPTION: clear, no odor

PURGE WATER CONTAINERIZED: Pour back into well

NUMBER OF BUCKETS GENERATED:

NOTES

SIGNATURE: **DAJ**

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT	**RA-008**	JOB NUMBER	N/A
WELL ID	**MW-553-20131012-01**	DATE	12-Oct-13
TIME	START 0750 END 0825		

Innovative Engineering Solutions, Inc.
25 Spring Street
Walpole Massachusetts 02081

WATER LEVEL/PUMP SETTINGS

MEASUREMENT POINT
- [x] TOP OF WELL RISER
- [ ] TOP OF PROTECTIVE CASING
- [ ] OTHER _____

PROTECTIVE CASING STICKUP (FROM GROUND): FT

PROTECTIVE CASING/WELL DIFFERENCE: FT

INITIAL DEPTH TO WATER	11.43 FT	WELL DEPTH	21.42 FT	WELL DIAMETER	2 IN
FINAL DEPTH TO WATER	16.12 FT	SCREEN LENGTH	FT	PID AMBIENT AIR	NA PPM
DRAWDOWN VOLUME	0.76 GAL			PID WELL MOUTH	NA PPM

(initial - final x 0.163 {2-inch} or x 0.654 {4-inch})

WELL INTEGRITY	YES	NO	N/A
CAP	[x]	[ ]	[ ]
CASING	[x]	[ ]	[ ]
LOCKED	[ ]	[x]	[ ]
COLLAR	[ ]	[ ]	[x]

TOTAL VOLUME PURGED: 1.82 GAL

(purge rate (milliliters per minute) x time duration (minutes) x 0.00026 gal/millilter)

PURGE DATA

TIME	DEPTH TO WATER (ft)	PURGE RATE (ml/min)	TEMP (deg C)	SPECIFIC CONDUCTANCE (mg/cm)	pH (units)	DISS. O_2 (mg/L)	TURBIDITY (ntu)	REDOX (mv)	COMMENTS
0800	14.36	200	13.80	727	7.32	0.25	N/A	-147	
0805	14.97	200	13.81	727	7.34	0.21	N/A	-151.7	
0810	15.52	200	13.81	726	7.35	0.21	N/A	-154.2	
0815	16.12	200	13.80	725	7.36	0.21	N/A	-156.5	
									sampled @ 0815

EQUIPMENT DOCUMENTATION

TYPE OF PUMP	TYPE OF TUBING	TYPE OF PUMP MATERIAL
GEO 2	SILICON/ POLY	Peristaltic

ANALYTICAL PARAMETERS

	METHOD NUMBER	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	SAMPLE RESULTS
[x] TA	8260B	HCL/4 DEG C	3 x 40 ml	[x]	
[x] BTC		HCL/4 DEG C	1 x 40 ml	[x]	
[x] BTC		4 DEG C	4 x 40 ml	[x]	
[x] BTC		4 DEG C	1 x 250 ml	[x]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	

PURGE WATER DESCRIPTION: clear, no odor

PURGE WATER CONTAINERIZED: Pour back into well

NUMBER OF BUCKETS GENERATED:

NOTES

SIGNATURE: **DAJ**

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT	**RA-008**	JOB NUMBER	N/A
WELL ID	**MW-554D-20131016-01**	DATE	16-Oct-13
TIME	START 1320 END 1350		

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25 Spring Street
Walpole Massachusetts 02081

WATER LEVEL/PUMP SETTINGS

MEASUREMENT POINT
- [x] TOP OF WELL RISER
- [ ] TOP OF PROTECTIVE CASING
- [ ] OTHER _____

PROTECTIVE CASING STICKUP (FROM GROUND): FT

PROTECTIVE CASING/WELL DIFFERENCE: FT

INITIAL DEPTH TO WATER	8.01 FT	WELL DEPTH	>200 FT	WELL DIAMETER	2 IN
FINAL DEPTH TO WATER	8.03 FT	SCREEN LENGTH	FT	PID AMBIENT AIR	NA PPM
DRAWDOWN VOLUME	0.003 GAL			PID WELL MOUTH	NA PPM
TOTAL VOLUME PURGED	1.56 GAL				

(initial - final x 0.163 {2-inch} or x 0.654 {4-inch})

(purge rate (milliliters per minute) x time duration (minutes) x 0.00026 gal/millilter)

WELL INTEGRITY	YES	NO	N/A
CAP	[x]	[ ]	[ ]
CASING	[x]	[ ]	[ ]
LOCKED	[ ]	[x]	[ ]
COLLAR	[ ]	[ ]	[x]

PURGE DATA

TIME	DEPTH TO WATER (ft)	PURGE RATE (ml/min)	TEMP (deg C)	SPECIFIC CONDUCTANCE (mg/cm)	pH (units)	DISS. O_2 (mg/L)	TURBIDITY (ntu)	REDOX (mv)	COMMENTS
1325	8.02	200	15.07	178	7.92	8.22	N/A	172	
1330	8.03	200	14.64	176	7.82	6.70	N/A	176.8	
1335	8.03	200	13.95	174	7.56	7.55	N/A	169	
1340	8.03	200	14.09	176	7.47	7.48	N/A	167	
									sampled @ 1340

EQUIPMENT DOCUMENTATION

TYPE OF PUMP	TYPE OF TUBING	TYPE OF PUMP MATERIAL
GEO 2	SILICON/ POLY	Peristaltic

ANALYTICAL PARAMETERS

	METHOD NUMBER	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	SAMPLE RESULTS
[x] TA	8260B	HCL/4 DEG C	3 x 40 ml	[x]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	

PURGE WATER DESCRIPTION: clear

PURGE WATER CONTAINERIZED: Pour back into well

NUMBER OF BUCKETS GENERATED:

NOTES

SIGNATURE: **DHR**

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT	**RA-008**	JOB NUMBER	N/A
WELL ID	**MW-555D-20131016-01**	DATE	16-Oct-13
TIME	START 1120 END 1350		

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25 Spring Street
Walpole Massachusetts 02081

WATER LEVEL/PUMP SETTINGS

MEASUREMENT POINT
- [x] TOP OF WELL RISER
- [ ] TOP OF PROTECTIVE CASING
- [ ] OTHER _____

PROTECTIVE CASING STICKUP (FROM GROUND): FT

PROTECTIVE CASING/WELL DIFFERENCE: FT

INITIAL DEPTH TO WATER	8.34 FT	WELL DEPTH	FT	WELL DIAMETER	2 IN
FINAL DEPTH TO WATER	8.41 FT	SCREEN LENGTH	FT	PID AMBIENT AIR	NA PPM
DRAWDOWN VOLUME	0.01 GAL			PID WELL MOUTH	NA PPM
TOTAL VOLUME PURGED	2.34 GAL				

(initial - final x 0.163 {2-inch} or x 0.654 {4-inch})

(purge rate (milliliters per minute) x time duration (minutes) x 0.00026 gal/millilter)

WELL INTEGRITY	YES	NO	N/A
CAP	☑	☐	☐
CASING	☑	☐	☐
LOCKED	☐	☑	☐
COLLAR	☐	☐	☑

PURGE DATA

TIME	DEPTH TO WATER (ft)	PURGE RATE (ml/min)	TEMP (deg C)	SPECIFIC CONDUCTANCE (mg/cm)	pH (units)	DISS. O_2 (mg/L)	TURBIDITY (ntu)	REDOX (mv)	COMMENTS
1123	8.40	200	14.04	280	7.87	5.48	N/A	168.9	
1133	8.41	200	13.84	276	7.58	5.10	N/A	181.2	
1140	8.41	200	13.76	276	7.58	5.01	N/A	179.2	
1145	8.41	200	13.85	276	7.59	4.93	N/A	177.8	
1150	8.41	200	13.90	277	7.59	4.95	N/A	177.6	
									sampled @ 1155

EQUIPMENT DOCUMENTATION

TYPE OF PUMP	TYPE OF TUBING	TYPE OF PUMP MATERIAL
GEO 2	SILICON/ POLY	Peristaltic

ANALYTICAL PARAMETERS

	METHOD NUMBER	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	SAMPLE RESULTS
☑ TA	8260B	HCL/4 DEG C	3 x 40 ml	☑	
☑ TA	8260-SIM	HCL/4 DEG C	2 x 40 ml	☐	
☐				☐	
☐				☐	
☐				☐	
☐				☐	
☐				☐	
☐				☐	
☐				☐	
☐				☐	
☐				☐	

PURGE WATER DESCRIPTION: clear

PURGE WATER CONTAINERIZED: Pour back into well

NUMBER OF BUCKETS GENERATED:

NOTES

SIGNATURE: **DHR**

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT	**RA-008**	JOB NUMBER	N/A
WELL ID	**MW-556D-20131016-01**	DATE	16-Oct-13
TIME	START 1230 END 1310		

Innovative Engineering Solutions, Inc.
25 Spring Street
Walpole Massachusetts 02081

WATER LEVEL/PUMP SETTINGS

MEASUREMENT POINT
- [x] TOP OF WELL RISER
- [ ] TOP OF PROTECTIVE CASING
- [ ] OTHER _____

PROTECTIVE CASING STICKUP (FROM GROUND): FT

PROTECTIVE CASING/WELL DIFFERENCE: FT

INITIAL DEPTH TO WATER	7.95 FT	WELL DEPTH	160.76 FT	WELL DIAMETER	2 IN
FINAL DEPTH TO WATER	8.06 FT	SCREEN LENGTH	FT	PID AMBIENT AIR	NA PPM
DRAWDOWN VOLUME	0.02 GAL			PID WELL MOUTH	NA PPM
TOTAL VOLUME PURGED	2.08 GAL				

(initial - final x 0.163 {2-inch} or x 0.654 {4-inch})

(purge rate (milliliters per minute) x time duration (minutes) x 0.00026 gal/millilter)

WELL INTEGRITY	YES	NO	N/A
CAP	[x]	[ ]	[ ]
CASING	[x]	[ ]	[ ]
LOCKED	[ ]	[x]	[ ]
COLLAR	[ ]	[ ]	[x]

PURGE DATA

TIME	DEPTH TO WATER (ft)	PURGE RATE (ml/min)	TEMP (deg C)	SPECIFIC CONDUCTANCE (mg/cm)	pH (units)	DISS. O_2 (mg/L)	TURBIDITY (ntu)	REDOX (mv)	COMMENTS
1245	8.05	200	15.26	161	7.82	6.11	N/A	168.3	
1250	8.06	200	14.65	158	7.81	5.44	N/A	170.7	
1255	8.06	200	14.46	157	7.78	5.39	N/A	171.8	
1300	8.06	200	14.44	157	7.77	5.35	N/A	172.3	
									sampled @ 1305

EQUIPMENT DOCUMENTATION

TYPE OF PUMP	TYPE OF TUBING	TYPE OF PUMP MATERIAL
GEO 2	SILICON/ POLY	Peristaltic

ANALYTICAL PARAMETERS

	METHOD NUMBER	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	SAMPLE RESULTS
[x] TA	8260B	HCL/4 DEG C	3 x 40 ml	[x]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	

PURGE WATER DESCRIPTION: clear

PURGE WATER CONTAINERIZED: Pour back into well

NUMBER OF BUCKETS GENERATED:

NOTES

SIGNATURE: **DHR**

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT	**RA-008**	JOB NUMBER	N/A
WELL ID	**MW-560-20131014-01**	DATE	14-Oct-13
TIME	START 1030 END 1135		

Innovative Engineering Solutions, Inc.
25 Spring Street
Walpole Massachusetts 02081

WATER LEVEL/PUMP SETTINGS

MEASUREMENT POINT
- [x] TOP OF WELL RISER
- [ ] TOP OF PROTECTIVE CASING
- [ ] OTHER _____

PROTECTIVE CASING STICKUP (FROM GROUND): FT

PROTECTIVE CASING/WELL DIFFERENCE: FT

INITIAL DEPTH TO WATER	11.23 FT	WELL DEPTH	65.16 FT	WELL DIAMETER	2 IN
FINAL DEPTH TO WATER	12.38 FT	SCREEN LENGTH	FT	PID AMBIENT AIR	NA PPM
DRAWDOWN VOLUME	0.19 GAL			PID WELL MOUTH	NA PPM

(initial - final x 0.163 {2-inch} or x 0.654 {4-inch})

WELL INTEGRITY	YES	NO	N/A
CAP	[x]	[ ]	[ ]
CASING	[x]	[ ]	[ ]
LOCKED	[ ]	[x]	[ ]
COLLAR	[ ]	[ ]	[x]

TOTAL VOLUME PURGED: 3.38 GAL

(purge rate (milliliters per minute) x time duration (minutes) x 0.00026 gal/millilter)

PURGE DATA

TIME	DEPTH TO WATER (ft)	PURGE RATE (ml/min)	TEMP (deg C)	SPECIFIC CONDUCTANCE (mg/cm)	pH (units)	DISS. O_2 (mg/L)	TURBIDITY (ntu)	REDOX (mv)	COMMENTS
1040	12.11	200	13.34	247	7.77	0.24	N/A	-216.2	
1045	12.14	200	13.35	246	8.00	0.20	N/A	-227.6	
1050	12.21	200	13.23	245	8.12	0.20	N/A	-233.4	
1100	12.31	200	12.91	242	8.48	0.16	N/A	-244.2	
1110	12.38	200	12.72	241	8.63	0.14	N/A	-249.5	
1115	12.38	200	12.77	241	8.65	0.12	N/A	-252.3	
1120	12.38	200	12.74	240	8.67	0.13	N/A	-253.3	
1125	12.38	200	12.76	240	8.68	0.13	N/A	-254.1	
									sampled @ 1125

EQUIPMENT DOCUMENTATION

TYPE OF PUMP	TYPE OF TUBING	TYPE OF PUMP MATERIAL
GEO 2	SILICON/ POLY	Peristaltic

ANALYTICAL PARAMETERS

	METHOD NUMBER	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	SAMPLE RESULTS
[x] TA	8260B	HCL/4 DEG C	3 x 40 ml	[x]	
[x] BTC		HCL/4 DEG C	1 x 40 ml	[x]	
[x] BTC		4 DEG C	4 x 40 ml	[x]	
[x] BTC		4 DEG C	1 x 250 ml	[x]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	

PURGE WATER DESCRIPTION: clear, moderate odor

PURGE WATER CONTAINERIZED: Pour back into well

NUMBER OF BUCKETS GENERATED:

NOTES

SIGNATURE: **DAJ**

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT	RA-008	JOB NUMBER	N/A
WELL ID	MW-561-20131014-01	DATE	14-Oct-13
TIME	START 1225 END 1300		

Innovative Engineering Solutions, Inc.
25 Spring Street
Walpole Massachusetts 02081

WATER LEVEL/PUMP SETTINGS

MEASUREMENT POINT
- [x] TOP OF WELL RISER
- [ ] TOP OF PROTECTIVE CASING
- [ ] OTHER _____

PROTECTIVE CASING STICKUP (FROM GROUND): _____ FT

PROTECTIVE CASING/WELL DIFFERENCE: _____ FT

INITIAL DEPTH TO WATER	10.28 FT	WELL DEPTH	53.65 FT	WELL DIAMETER	2 IN
FINAL DEPTH TO WATER	10.6 FT	SCREEN LENGTH	FT	PID AMBIENT AIR	NA PPM
DRAWDOWN VOLUME	0.05 GAL			PID WELL MOUTH	NA PPM
TOTAL VOLUME PURGED	1.82 GAL				

(initial - final x 0.163 {2-inch} or x 0.654 {4-inch})

(purge rate (milliliters per minute) x time duration (minutes) x 0.00026 gal/millilter)

WELL INTEGRITY	YES	NO	N/A
CAP	[x]	[ ]	[ ]
CASING	[x]	[ ]	[ ]
LOCKED	[ ]	[x]	[ ]
COLLAR	[ ]	[ ]	[x]

PURGE DATA

TIME	DEPTH TO WATER (ft)	PURGE RATE (ml/min)	TEMP (deg C)	SPECIFIC CONDUCTANCE (mg/cm)	pH (units)	DISS. O_2 (mg/L)	TURBIDITY (ntu)	REDOX (mv)	COMMENTS
1235	10.60	200	13.51	360	6.71	0.24	N/A	-110.8	
1240	10.60	200	13.51	360	6.75	0.20	N/A	-118.3	
1245	10.60	200	13.52	361	6.77	0.21	N/A	-120.5	
1250	10.60	200	13.56	362	6.79	0.20	N/A	-123.9	
									sampled @ 1250

EQUIPMENT DOCUMENTATION

TYPE OF PUMP	TYPE OF TUBING	TYPE OF PUMP MATERIAL
GEO 2	SILICON/ POLY	Peristaltic

ANALYTICAL PARAMETERS

	METHOD NUMBER	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	SAMPLE RESULTS
[x] TA	8260B	HCL/4 DEG C	3 x 40 ml	[x]	
[x] BTC		HCL/4 DEG C	1 x 40 ml	[x]	
[x] BTC		4 DEG C	4 x 40 ml	[x]	
[x] BTC		4 DEG C	1 x 250 ml	[x]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	

PURGE WATER DESCRIPTION: clear, slight bio odor

PURGE WATER CONTAINERIZED: Pour back into well

NUMBER OF BUCKETS GENERATED:

NOTES

SIGNATURE: **DAJ**

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT	RA-008	JOB NUMBER	N/A
WELL ID	MW-562-20131012-01	DATE	12-Oct-13
TIME	START 1225 END 1300		

Innovative Engineering Solutions, Inc.
25 Spring Street
Walpole Massachusetts 02081

WATER LEVEL/PUMP SETTINGS

MEASUREMENT POINT
- [x] TOP OF WELL RISER
- [ ] TOP OF PROTECTIVE CASING
- [ ] OTHER _____

PROTECTIVE CASING STICKUP (FROM GROUND): _____ FT

PROTECTIVE CASING/WELL DIFFERENCE: _____ FT

INITIAL DEPTH TO WATER	9.34 FT	WELL DEPTH	41.51 FT	WELL DIAMETER	2 IN
FINAL DEPTH TO WATER	10.22 FT	SCREEN LENGTH	FT	PID AMBIENT AIR	NA PPM
DRAWDOWN VOLUME	0.14 GAL			PID WELL MOUTH	NA PPM

(initial - final x 0.163 {2-inch} or x 0.654 {4-inch})

TOTAL VOLUME PURGED: 1.82 GAL

(purge rate (milliliters per minute) x time duration (minutes) x 0.00026 gal/millilter)

WELL INTEGRITY	YES	NO	N/A
CAP	[x]	[ ]	[ ]
CASING	[x]	[ ]	[ ]
LOCKED	[ ]	[x]	[ ]
COLLAR	[ ]	[ ]	[x]

PURGE DATA

TIME	DEPTH TO WATER (ft)	PURGE RATE (ml/min)	TEMP (deg C)	SPECIFIC CONDUCTANCE (mg/cm)	pH (units)	DISS. O_2 (mg/L)	TURBIDITY (ntu)	REDOX (mv)	COMMENTS
1055	10.11	200	14.16	631	6.76	0.28	N/A	-148.5	
1100	10.18	200	13.96	641	6.76	0.22	N/A	-148.1	
1105	10.22	200	13.90	645	6.75	0.20	N/A	-147.5	
1110	10.22	200	13.84	647	6.74	0.18	N/A	-148.4	
									sampled @ 1110

EQUIPMENT DOCUMENTATION

TYPE OF PUMP	TYPE OF TUBING	TYPE OF PUMP MATERIAL
GEO 2	SILICON/ POLY	Peristaltic

ANALYTICAL PARAMETERS

	METHOD NUMBER	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	SAMPLE RESULTS
[x] TA	8260B	HCL/4 DEG C	3 x 40 ml	[x]	
[x] BTC		HCL/4 DEG C	1 x 40 ml	[x]	
[x] BTC		4 DEG C	4 x 40 ml	[x]	
[x] BTC		4 DEG C	1 x 250 ml	[x]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	

PURGE WATER DESCRIPTION: clear, slight bio odor

PURGE WATER CONTAINERIZED: Pour back into well

NUMBER OF BUCKETS GENERATED:

NOTES

SIGNATURE: **DAJ**

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT	RA-008	JOB NUMBER	N/A
WELL ID	MW-563-20131014-01	DATE	14-Oct-13
TIME	START 1140 END 1220		

Innovative Engineering Solutions, Inc.
25 Spring Street
Walpole Massachusetts 02081

WATER LEVEL/PUMP SETTINGS

MEASUREMENT POINT
- [x] TOP OF WELL RISER
- [ ] TOP OF PROTECTIVE CASING
- [ ] OTHER _____

PROTECTIVE CASING STICKUP (FROM GROUND): FT

PROTECTIVE CASING/WELL DIFFERENCE: FT

INITIAL DEPTH TO WATER	8.76 FT	WELL DEPTH	65.03 FT	WELL DIAMETER	2 IN
FINAL DEPTH TO WATER	10.68 FT	SCREEN LENGTH	FT	PID AMBIENT AIR	NA PPM
DRAWDOWN VOLUME	0.31 GAL			PID WELL MOUTH	NA PPM
TOTAL VOLUME PURGED	2.08 GAL				

(initial - final x 0.163 {2-inch} or x 0.654 {4-inch})

(purge rate (milliliters per minute) x time duration (minutes) x 0.00026 gal/millilter)

WELL INTEGRITY	YES	NO	N/A
CAP	[x]	[ ]	[ ]
CASING	[x]	[ ]	[ ]
LOCKED	[ ]	[x]	[ ]
COLLAR	[ ]	[ ]	[x]

PURGE DATA

TIME	DEPTH TO WATER (ft)	PURGE RATE (ml/min)	TEMP (deg C)	SPECIFIC CONDUCTANCE (mg/cm)	pH (units)	DISS. O_2 (mg/L)	TURBIDITY (ntu)	REDOX (mv)	COMMENTS
1150	10.25	200	13.37	512	6.25	0.13	N/A	-45.3	DupX3-20131014-01
1155	10.39	200	13.48	517	6.20	0.12	N/A	-48.1	
1200	10.54	200	13.43	518	6.18	0.11	N/A	-49.3	
1205	10.68	200	13.31	516	6.16	0.10	N/A	-49.5	
									sampled @ 1205

EQUIPMENT DOCUMENTATION

TYPE OF PUMP	TYPE OF TUBING	TYPE OF PUMP MATERIAL
GEO 2	SILICON/ POLY	Peristaltic

ANALYTICAL PARAMETERS

	METHOD NUMBER	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	SAMPLE RESULTS
[x] TA	8260B	HCL/4 DEG C	3 x 40 ml	[x]	
[x] BTC		HCL/4 DEG C	1 x 40 ml	[x]	
[x] BTC		4 DEG C	4 x 40 ml	[x]	
[x] BTC		4 DEG C	1 x 250 ml	[x]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	

PURGE WATER DESCRIPTION: clear, moderate bio odor

PURGE WATER CONTAINERIZED: Pour back into well

NUMBER OF BUCKETS GENERATED:

NOTES

DupX3-20131014-01

SIGNATURE: **DAJ**

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT	RA-008	JOB NUMBER	N/A
WELL ID	REW-1-20131012-01	DATE	12-Oct-13
TIME	START 1140 END 1215		

Innovative Engineering Solutions, Inc.
25 Spring Street
Walpole Massachusetts 02081

WATER LEVEL/PUMP SETTINGS

MEASUREMENT POINT
- [x] TOP OF WELL RISER
- [ ] TOP OF PROTECTIVE CASING
- [ ] OTHER _____

PROTECTIVE CASING STICKUP (FROM GROUND): FT

PROTECTIVE CASING/WELL DIFFERENCE: FT

INITIAL DEPTH TO WATER	7.36 FT	WELL DEPTH	39.11 FT	WELL DIAMETER	2 IN
FINAL DEPTH TO WATER	8.17 FT	SCREEN LENGTH	FT	PID AMBIENT AIR	NA PPM
DRAWDOWN VOLUME	0.13 GAL			PID WELL MOUTH	NA PPM

(initial - final x 0.163 {2-inch} or x 0.654 {4-inch})

WELL INTEGRITY	YES	NO	N/A
CAP	[x]	[ ]	[ ]
CASING	[x]	[ ]	[ ]
LOCKED	[ ]	[x]	[ ]
COLLAR	[ ]	[ ]	[x]

TOTAL VOLUME PURGED: 1.82 GAL

(purge rate (milliliters per minute) x time duration (minutes) x 0.00026 gal/millilter)

PURGE DATA

TIME	DEPTH TO WATER (ft)	PURGE RATE (ml/min)	TEMP (deg C)	SPECIFIC CONDUCTANCE (mg/cm)	pH (units)	DISS. O_2 (mg/L)	TURBIDITY (ntu)	REDOX (mv)	COMMENTS
1150	7.96	200	13.91	627	6.97	0.34	N/A	-152.6	
1155	8.08	200	14.02	629	6.99	0.29	N/A	-156.6	
1200	8.14	200	13.85	626	7.00	0.28	N/A	-158	
1205	8.17	200	13.95	629	7.01	0.27	N/A	-160.5	
									sampled @ 1205

EQUIPMENT DOCUMENTATION

TYPE OF PUMP	TYPE OF TUBING	TYPE OF PUMP MATERIAL
GEO 2	SILICON/ POLY	Peristaltic

ANALYTICAL PARAMETERS

	METHOD NUMBER	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	SAMPLE RESULTS
[x] TA	8260B	HCL/4 DEG C	3 x 40 ml	[x]	
[x] BTC		HCL/4 DEG C	1 x 40 ml	[x]	
[x] BTC		4 DEG C	4 x 40 ml	[x]	
[x] BTC		4 DEG C	1 x 250 ml	[x]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	

PURGE WATER DESCRIPTION: gray, slight bio odor

PURGE WATER CONTAINERIZED: Pour back into well

NUMBER OF BUCKETS GENERATED:

NOTES

SIGNATURE: **DAJ**

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT	**RA-008**	JOB NUMBER	N/A
WELL ID	**REW-4-20131012-01**	DATE	12-Oct-13
TIME	START 1320 END 1355		

Innovative Engineering Solutions, Inc.
25 Spring Street
Walpole Massachusetts 02081

WATER LEVEL/PUMP SETTINGS

MEASUREMENT POINT
- [x] TOP OF WELL RISER
- [ ] TOP OF PROTECTIVE CASING
- [ ] OTHER _____

PROTECTIVE CASING STICKUP (FROM GROUND): FT

PROTECTIVE CASING/WELL DIFFERENCE: FT

INITIAL DEPTH TO WATER	Note 1 FT	WELL DEPTH	Note 1 FT	WELL DIAMETER	2 IN
FINAL DEPTH TO WATER	Note 1 FT	SCREEN LENGTH	FT	PID AMBIENT AIR	NA PPM
DRAWDOWN VOLUME	Note 1 GAL			PID WELL MOUTH	NA PPM
TOTAL VOLUME PURGED	1.82 GAL				

(initial - final x 0.163 {2-inch} or x 0.654 {4-inch})

(purge rate (milliliters per minute) x time duration (minutes) x 0.00026 gal/millilter)

WELL INTEGRITY	YES	NO	N/A
CAP	[x]	[ ]	[ ]
CASING	[x]	[ ]	[ ]
LOCKED	[ ]	[x]	[ ]
COLLAR	[ ]	[ ]	[x]

PURGE DATA

TIME	DEPTH TO WATER (ft)	PURGE RATE (ml/min)	TEMP (deg C)	SPECIFIC CONDUCTANCE (mg/cm)	pH (units)	DISS. O_2 (mg/L)	TURBIDITY (ntu)	REDOX (mv)	COMMENTS
1330	Note 1	200	13.23	569	6.85	0.31	N/A	-115.3	
1335	Note 1	200	13.10	569	6.85	0.26	N/A	-118.4	
1340	Note 1	200	12.95	564	6.84	0.24	N/A	-120.5	
1345	Note 1	200	12.91	564	6.84	0.22	N/A	-121.5	
									sampled @ 1345

EQUIPMENT DOCUMENTATION

TYPE OF PUMP	TYPE OF TUBING	TYPE OF PUMP MATERIAL
GEO 2	SILICON/ POLY	Peristaltic

ANALYTICAL PARAMETERS

	METHOD NUMBER	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	SAMPLE RESULTS
[x] TA	8260B	HCL/4 DEG C	3 x 40 ml	[x]	
[x] BTC		HCL/4 DEG C	1 x 40 ml	[x]	
[x] BTC		4 DEG C	4 x 40 ml	[x]	
[x] BTC		4 DEG C	1 x 250 ml	[x]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	

PURGE WATER DESCRIPTION: gray, strong bio odor

PURGE WATER CONTAINERIZED: Pour back into well

NUMBER OF BUCKETS GENERATED:

NOTES

Note 1: pump in well and running

SIGNATURE **DAJ**

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT	RA-008	JOB NUMBER	N/A
WELL ID	REW-5-20131012-01	DATE	12-Oct-13
TIME	START 1225 END 1300		

Innovative Engineering Solutions, Inc.
25 Spring Street
Walpole Massachusetts 02081

WATER LEVEL/PUMP SETTINGS

MEASUREMENT POINT
- [x] TOP OF WELL RISER
- [ ] TOP OF PROTECTIVE CASING
- [ ] OTHER _____

PROTECTIVE CASING STICKUP (FROM GROUND): FT

PROTECTIVE CASING/WELL DIFFERENCE: FT

INITIAL DEPTH TO WATER	Note 1 FT	WELL DEPTH	Note 1 FT	WELL DIAMETER	2 IN
FINAL DEPTH TO WATER	Note 1 FT	SCREEN LENGTH	FT	PID AMBIENT AIR	NA PPM
DRAWDOWN VOLUME	Note 1 GAL			PID WELL MOUTH	NA PPM
TOTAL VOLUME PURGED	1.82 GAL				

(initial - final x 0.163 {2-inch} or x 0.654 {4-inch})

(purge rate (milliliters per minute) x time duration (minutes) x 0.00026 gal/millilter)

WELL INTEGRITY	YES	NO	N/A
CAP	[x]	[ ]	[ ]
CASING	[x]	[ ]	[ ]
LOCKED	[ ]	[x]	[ ]
COLLAR	[ ]	[ ]	[x]

PURGE DATA

TIME	DEPTH TO WATER (ft)	PURGE RATE (ml/min)	TEMP (deg C)	SPECIFIC CONDUCTANCE (mg/cm)	pH (units)	DISS. O_2 (mg/L)	TURBIDITY (ntu)	REDOX (mv)	COMMENTS
1235	Note 1	200	13.28	274	7.47	0.45	N/A	-190	
1240	Note 1	200	13.31	275	7.51	0.35	N/A	-200.3	
1245	Note 1	200	13.30	275	7.52	0.33	N/A	-207.4	
1250	Note 1	200	13.31	276	7.51	0.31	N/A	-210.1	
									sampled @ 1250

EQUIPMENT DOCUMENTATION

TYPE OF PUMP	TYPE OF TUBING	TYPE OF PUMP MATERIAL
GEO 2	SILICON/ POLY	Peristaltic

ANALYTICAL PARAMETERS

	METHOD NUMBER	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	SAMPLE RESULTS
[x] TA	8260B	HCL/4 DEG C	3 x 40 ml	[x]	
[x] BTC		HCL/4 DEG C	1 x 40 ml	[x]	
[x] BTC		4 DEG C	4 x 40 ml	[x]	
[x] BTC		4 DEG C	1 x 250 ml	[x]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	

PURGE WATER DESCRIPTION: gray, strong bio odor

PURGE WATER CONTAINERIZED: Pour back into well

NUMBER OF BUCKETS GENERATED:

NOTES

Note 1: pump in well and running

SIGNATURE: **DAJ**

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT	RA-008	JOB NUMBER	N/A
WELL ID	REW-6-20131013-01	DATE	13-Oct-13
TIME	START 0710 END 0745		

Innovative Engineering Solutions, Inc.
25 Spring Street
Walpole Massachusetts 02081

WATER LEVEL/PUMP SETTINGS

MEASUREMENT POINT
- [x] TOP OF WELL RISER
- [ ] TOP OF PROTECTIVE CASING
- [ ] OTHER _____

PROTECTIVE CASING STICKUP (FROM GROUND): FT

PROTECTIVE CASING/WELL DIFFERENCE: FT

INITIAL DEPTH TO WATER	Note 1 FT	WELL DEPTH	Note 1 FT	WELL DIAMETER	2 IN
FINAL DEPTH TO WATER	Note 1 FT	SCREEN LENGTH	FT	PID AMBIENT AIR	NA PPM
DRAWDOWN VOLUME	Note 1 GAL			PID WELL MOUTH	NA PPM
TOTAL VOLUME PURGED	1.82 GAL				

(initial - final x 0.163 {2-inch} or x 0.654 {4-inch})

(purge rate (milliliters per minute) x time duration (minutes) x 0.00026 gal/millilter)

WELL INTEGRITY	YES	NO	N/A
CAP	[x]	[ ]	[ ]
CASING	[x]	[ ]	[ ]
LOCKED	[ ]	[x]	[ ]
COLLAR	[ ]	[ ]	[x]

PURGE DATA

TIME	DEPTH TO WATER (ft)	PURGE RATE (ml/min)	TEMP (deg C)	SPECIFIC CONDUCTANCE (mg/cm)	pH (units)	DISS. O_2 (mg/L)	TURBIDITY (ntu)	REDOX (mv)	COMMENTS
0720	Note 1	200	10.03	334	6.79	0.13	N/A	-95.5	DupX2-20131013-01
0725	Note 1	200	10.06	335	6.78	0.11	N/A	-100.1	
0730	Note 1	200	10.04	335	6.78	0.11	N/A	-101.2	
0735	Note 1	200	9.94	334	6.79	0.10	N/A	-102.8	
									sampled @ 0735

EQUIPMENT DOCUMENTATION

TYPE OF PUMP	TYPE OF TUBING	TYPE OF PUMP MATERIAL
GEO 2	SILICON/ POLY	Peristaltic

ANALYTICAL PARAMETERS

	METHOD NUMBER	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	SAMPLE RESULTS
[x] TA	8260B	HCL/4 DEG C	3 x 40 ml	[x]	
[x] BTC		HCL/4 DEG C	1 x 40 ml	[x]	
[x] BTC		4 DEG C	4 x 40 ml	[x]	
[x] BTC		4 DEG C	1 x 250 ml	[x]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	

PURGE WATER DESCRIPTION: gray, moderate bio odor

PURGE WATER CONTAINERIZED: Pour back into well

NUMBER OF BUCKETS GENERATED:

NOTES

DupX2-20131013-01

Note 1: pump in well and running

SIGNATURE **DAJ**

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT	**RA-008**	JOB NUMBER	N/A
WELL ID	**REW-7-20131013-01**	DATE	13-Oct-13
TIME	START 0900 END 0935		

Innovative Engineering Solutions, Inc.
25 Spring Street
Walpole Massachusetts 02081

WATER LEVEL/PUMP SETTINGS

MEASUREMENT POINT
- [x] TOP OF WELL RISER
- [ ] TOP OF PROTECTIVE CASING
- [ ] OTHER _____

PROTECTIVE CASING STICKUP (FROM GROUND): FT

PROTECTIVE CASING/WELL DIFFERENCE: FT

INITIAL DEPTH TO WATER	Note 1 FT	WELL DEPTH	Note 1 FT	WELL DIAMETER	2 IN
FINAL DEPTH TO WATER	Note 1 FT	SCREEN LENGTH	FT	PID AMBIENT AIR	NA PPM
DRAWDOWN VOLUME	Note 1 GAL			PID WELL MOUTH	NA PPM
TOTAL VOLUME PURGED	1.82 GAL				

(initial - final x 0.163 {2-inch} or x 0.654 {4-inch})

(purge rate (milliliters per minute) x time duration (minutes) x 0.00026 gal/millilter)

WELL INTEGRITY	YES	NO	N/A
CAP	[x]	[ ]	[ ]
CASING	[x]	[ ]	[ ]
LOCKED	[ ]	[x]	[ ]
COLLAR	[ ]	[ ]	[x]

PURGE DATA

TIME	DEPTH TO WATER (ft)	PURGE RATE (ml/min)	TEMP (deg C)	SPECIFIC CONDUCTANCE (mg/cm)	pH (units)	DISS. O_2 (mg/L)	TURBIDITY (ntu)	REDOX (mv)	COMMENTS
0910	Note 1	200	10.62	299	6.80	0.06	N/A	-99.5	
0915	Note 1	200	10.73	296	6.82	0.04	N/A	-105.9	
0920	Note 1	200	10.76	294	6.83	0.03	N/A	-109.3	
0925	Note 1	200	10.81	294	6.83	0.03	N/A	-110.2	
									sampled @ 0925

EQUIPMENT DOCUMENTATION

TYPE OF PUMP	TYPE OF TUBING	TYPE OF PUMP MATERIAL
GEO 2	SILICON/ POLY	Peristaltic

ANALYTICAL PARAMETERS

	METHOD NUMBER	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	SAMPLE RESULTS
[x] TA	8260B	HCL/4 DEG C	3 x 40 ml	[x]	
[x] BTC		HCL/4 DEG C	1 x 40 ml	[x]	
[x] BTC		4 DEG C	4 x 40 ml	[x]	
[x] BTC		4 DEG C	1 x 250 ml	[x]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	

PURGE WATER DESCRIPTION: gray, moderate bio odor

PURGE WATER CONTAINERIZED: Pour back into well

NUMBER OF BUCKETS GENERATED:

NOTES

Note 1: pump in well and running

SIGNATURE: **DAJ**

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT	**RA-008**	JOB NUMBER	N/A
WELL ID	**REW-8-20131013-01**	DATE	13-Oct-13
TIME	START 0750 END 0825		

Innovative Engineering Solutions, Inc.
25 Spring Street
Walpole Massachusetts 02081

WATER LEVEL/PUMP SETTINGS

MEASUREMENT POINT
- [x] TOP OF WELL RISER
- [ ] TOP OF PROTECTIVE CASING
- [ ] OTHER _____

PROTECTIVE CASING STICKUP (FROM GROUND): FT

PROTECTIVE CASING/WELL DIFFERENCE: FT

INITIAL DEPTH TO WATER	Note 1 FT	WELL DEPTH	Note 1 FT	WELL DIAMETER	2 IN
FINAL DEPTH TO WATER	Note 1 FT	SCREEN LENGTH	FT	PID AMBIENT AIR	NA PPM
DRAWDOWN VOLUME	Note 1 GAL			PID WELL MOUTH	NA PPM
TOTAL VOLUME PURGED	1.82 GAL				

(initial - final x 0.163 {2-inch} or x 0.654 {4-inch})

(purge rate (milliliters per minute) x time duration (minutes) x 0.00026 gal/millilter)

WELL INTEGRITY	YES	NO	N/A
CAP	[x]	[ ]	[ ]
CASING	[x]	[ ]	[ ]
LOCKED	[ ]	[x]	[ ]
COLLAR	[ ]	[ ]	[x]

PURGE DATA

TIME	DEPTH TO WATER (ft)	PURGE RATE (ml/min)	TEMP (deg C)	SPECIFIC CONDUCTANCE (mg/cm)	pH (units)	DISS. O_2 (mg/L)	TURBIDITY (ntu)	REDOX (mv)	COMMENTS
0800	Note 1	200	9.73	335	6.84	0.17	N/A	-104.5	
0805	Note 1	200	9.84	336	6.86	0.13	N/A	-110.4	
0810	Note 1	200	9.94	341	6.87	0.12	N/A	-113.4	
0815	Note 1	200	10.36	346	6.88	0.11	N/A	-115.3	
									sampled @ 0815

EQUIPMENT DOCUMENTATION

TYPE OF PUMP	TYPE OF TUBING	TYPE OF PUMP MATERIAL
GEO 2	SILICON/ POLY	Peristaltic

ANALYTICAL PARAMETERS

	METHOD NUMBER	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	SAMPLE RESULTS
[x] TA	8260B	HCL/4 DEG C	3 x 40 ml	[x]	
[x] BTC		HCL/4 DEG C	1 x 40 ml	[x]	
[x] BTC		4 DEG C	4 x 40 ml	[x]	
[x] BTC		4 DEG C	1 x 250 ml	[x]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	

PURGE WATER DESCRIPTION: gray, moderate bio odor

PURGE WATER CONTAINERIZED: Pour back into well

NUMBER OF BUCKETS GENERATED:

NOTES

Note 1: pump in well and running

SIGNATURE: **DAJ**

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT	**RA-008**	JOB NUMBER	N/A
WELL ID	**REW-9-20131013-01**	DATE	13-Oct-13
TIME	START 1000 END 1100		

Innovative Engineering Solutions, Inc.
25 Spring Street
Walpole Massachusetts 02081

WATER LEVEL/PUMP SETTINGS

MEASUREMENT POINT
- [x] TOP OF WELL RISER
- [ ] TOP OF PROTECTIVE CASING
- [ ] OTHER _____

PROTECTIVE CASING STICKUP (FROM GROUND): FT

PROTECTIVE CASING/WELL DIFFERENCE: FT

INITIAL DEPTH TO WATER	Note 1 FT	WELL DEPTH	Note 1 FT	WELL DIAMETER	2 IN
FINAL DEPTH TO WATER	Note 1 FT	SCREEN LENGTH	FT	PID AMBIENT AIR	NA PPM
DRAWDOWN VOLUME	Note 1 GAL			PID WELL MOUTH	NA PPM
TOTAL VOLUME PURGED	1.82 GAL				

(initial - final x 0.163 {2-inch} or x 0.654 {4-inch})

(purge rate (milliliters per minute) x time duration (minutes) x 0.00026 gal/millilter)

WELL INTEGRITY	YES	NO	N/A
CAP	[x]	[ ]	[ ]
CASING	[x]	[ ]	[ ]
LOCKED	[ ]	[x]	[ ]
COLLAR	[ ]	[ ]	[x]

PURGE DATA

TIME	DEPTH TO WATER (ft)	PURGE RATE (ml/min)	TEMP (deg C)	SPECIFIC CONDUCTANCE (mg/cm)	pH (units)	DISS. O_2 (mg/L)	TURBIDITY (ntu)	REDOX (mv)	COMMENTS
1010	Note 1	200	10.59	331	6.84	0.06	N/A	-103.7	
1015	Note 1	200	10.70	324	6.87	0.04	N/A	-108.4	
1020	Note 1	200	10.77	312	6.89	0.03	N/A	-114	
1025	Note 1	200	10.84	306	6.90	0.03	N/A	-116.8	
									sampled @ 1025

EQUIPMENT DOCUMENTATION

TYPE OF PUMP	TYPE OF TUBING	TYPE OF PUMP MATERIAL
GEO 2	SILICON/ POLY	Peristaltic

ANALYTICAL PARAMETERS

	METHOD NUMBER	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	SAMPLE RESULTS
[x] TA	8260B	HCL/4 DEG C	3 x 40 ml	[x]	
[x] BTC		HCL/4 DEG C	1 x 40 ml	[x]	
[x] BTC		4 DEG C	4 x 40 ml	[x]	
[x] BTC		4 DEG C	1 x 250 ml	[x]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	

PURGE WATER DESCRIPTION: gray, moderate bio odor

PURGE WATER CONTAINERIZED: Pour back into well

NUMBER OF BUCKETS GENERATED:

NOTES

Note 1: pump in well and running

SIGNATURE: **DAJ**

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT	**RA-008**	JOB NUMBER	N/A
WELL ID	**REW-10-20131013-01**	DATE	13-Oct-13
TIME	START 1105 END 1140		

Innovative Engineering Solutions, Inc.
25 Spring Street
Walpole Massachusetts 02081

WATER LEVEL/PUMP SETTINGS

MEASUREMENT POINT
- [x] TOP OF WELL RISER
- [ ] TOP OF PROTECTIVE CASING
- [ ] OTHER _____

PROTECTIVE CASING STICKUP (FROM GROUND): FT

PROTECTIVE CASING/WELL DIFFERENCE: FT

INITIAL DEPTH TO WATER	Note 1 FT	WELL DEPTH	Note 1 FT	WELL DIAMETER	2 IN
FINAL DEPTH TO WATER	Note 1 FT	SCREEN LENGTH	FT	PID AMBIENT AIR	NA PPM
DRAWDOWN VOLUME	Note 1 GAL			PID WELL MOUTH	NA PPM
TOTAL VOLUME PURGED	1.82 GAL				

(initial - final x 0.163 {2-inch} or x 0.654 {4-inch})

(purge rate (milliliters per minute) x time duration (minutes) x 0.00026 gal/millilter)

WELL INTEGRITY	YES	NO	N/A
CAP	[x]	[ ]	[ ]
CASING	[x]	[ ]	[ ]
LOCKED	[ ]	[x]	[ ]
COLLAR	[ ]	[ ]	[x]

PURGE DATA

TIME	DEPTH TO WATER (ft)	PURGE RATE (ml/min)	TEMP (deg C)	SPECIFIC CONDUCTANCE (mg/cm)	pH (units)	DISS. O_2 (mg/L)	TURBIDITY (ntu)	REDOX (mv)	COMMENTS
1115	Note 1	200	10.91	342	6.93	0.09	N/A	-103.6	
1120	Note 1	200	11.04	343	6.96	0.07	N/A	-109.2	
1125	Note 1	200	10.99	342	6.98	0.06	N/A	-112.9	
1130	Note 1	200	11.01	341	6.99	0.04	N/A	-115.1	
									sampled @ 1130

EQUIPMENT DOCUMENTATION

TYPE OF PUMP	TYPE OF TUBING	TYPE OF PUMP MATERIAL
GEO 2	SILICON/ POLY	Peristaltic

ANALYTICAL PARAMETERS

	METHOD NUMBER	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	SAMPLE RESULTS
[x] TA	8260B	HCL/4 DEG C	3 x 40 ml	[x]	
[x] BTC		HCL/4 DEG C	1 x 40 ml	[x]	
[x] BTC		4 DEG C	4 x 40 ml	[x]	
[x] BTC		4 DEG C	1 x 250 ml	[x]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	

PURGE WATER DESCRIPTION: gray, slight bio odor

PURGE WATER CONTAINERIZED: Pour back into well

NUMBER OF BUCKETS GENERATED:

NOTES

Note 1: pump in well and running

SIGNATURE **DAJ**

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT	RA-008	JOB NUMBER	N/A
WELL ID	REW-12-20131013-01	DATE	13-Oct-13
TIME	START 1150 END 1225		

Innovative Engineering Solutions, Inc.
25 Spring Street
Walpole Massachusetts 02081

WATER LEVEL/PUMP SETTINGS

MEASUREMENT POINT
- [x] TOP OF WELL RISER
- [ ] TOP OF PROTECTIVE CASING
- [ ] OTHER _____

PROTECTIVE CASING STICKUP (FROM GROUND): FT

PROTECTIVE CASING/WELL DIFFERENCE: FT

INITIAL DEPTH TO WATER	Note 1 FT	WELL DEPTH	Note 1 FT	WELL DIAMETER	2 IN
FINAL DEPTH TO WATER	Note 1 FT	SCREEN LENGTH	FT	PID AMBIENT AIR	NA PPM
DRAWDOWN VOLUME	Note 1 GAL			PID WELL MOUTH	NA PPM
TOTAL VOLUME PURGED	1.82 GAL				

(initial - final x 0.163 {2-inch} or x 0.654 {4-inch})

(purge rate (milliliters per minute) x time duration (minutes) x 0.00026 gal/millilter)

WELL INTEGRITY	YES	NO	N/A
CAP	[x]	[ ]	[ ]
CASING	[x]	[ ]	[ ]
LOCKED	[ ]	[x]	[ ]
COLLAR	[ ]	[ ]	[x]

PURGE DATA

TIME	DEPTH TO WATER (ft)	PURGE RATE (ml/min)	TEMP (deg C)	SPECIFIC CONDUCTANCE (mg/cm)	pH (units)	DISS. O_2 (mg/L)	TURBIDITY (ntu)	REDOX (mv)	COMMENTS
1200	Note 1	200	10.88	279	6.77	0.18	N/A	-83.9	
1205	Note 1	200	10.92	279	6.78	0.14	N/A	-89.9	
1210	Note 1	200	10.80	278	6.78	0.12	N/A	-94.4	
1215	Note 1	200	10.92	276	6.79	0.10	N/A	-97.9	
									sampled @ 1215

EQUIPMENT DOCUMENTATION

TYPE OF PUMP	TYPE OF TUBING	TYPE OF PUMP MATERIAL
GEO 2	SILICON/ POLY	Peristaltic

ANALYTICAL PARAMETERS

	METHOD NUMBER	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	SAMPLE RESULTS
[x] TA	8260B	HCL/4 DEG C	3 x 40 ml	[x]	
[x] BTC		HCL/4 DEG C	1 x 40 ml	[x]	
[x] BTC		4 DEG C	4 x 40 ml	[x]	
[x] BTC		4 DEG C	1 x 250 ml	[x]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	

PURGE WATER DESCRIPTION: gray, moderate bio odor

PURGE WATER CONTAINERIZED: Pour back into well

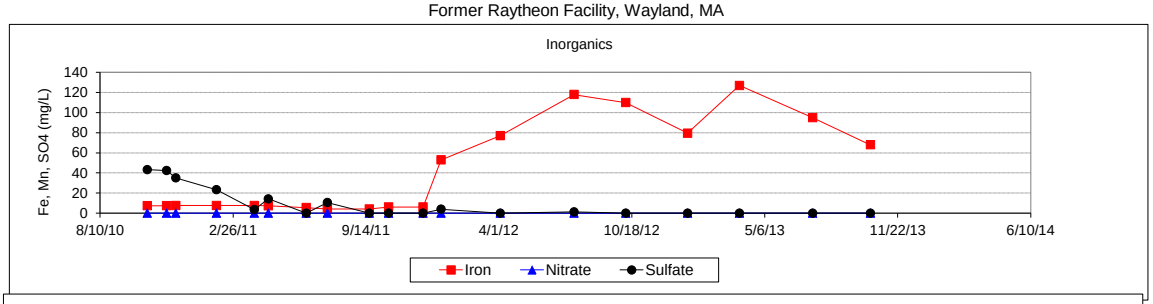
NUMBER OF BUCKETS GENERATED:

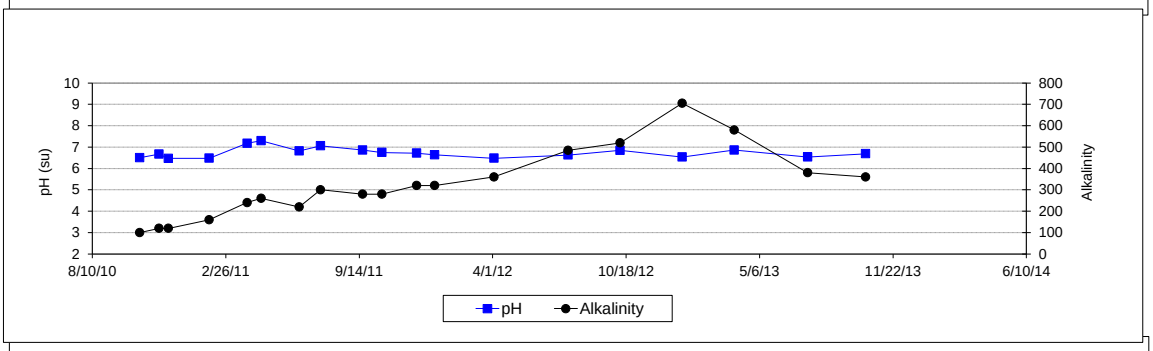
NOTES

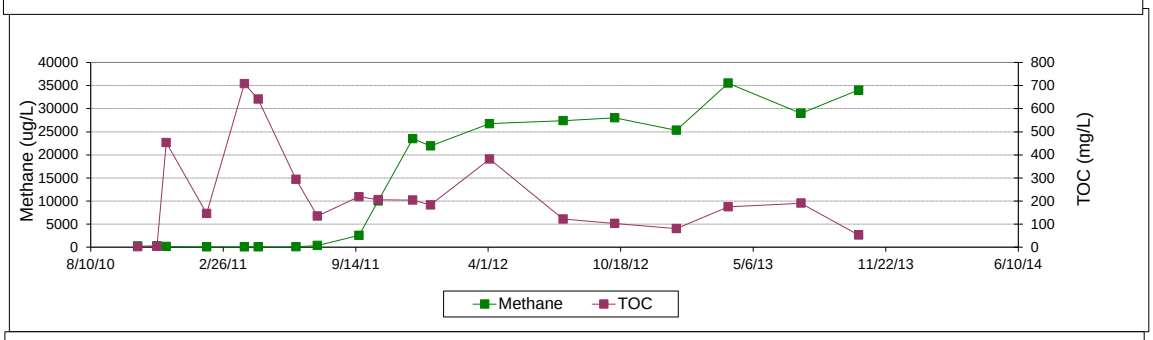
Note 1: pump in well and running

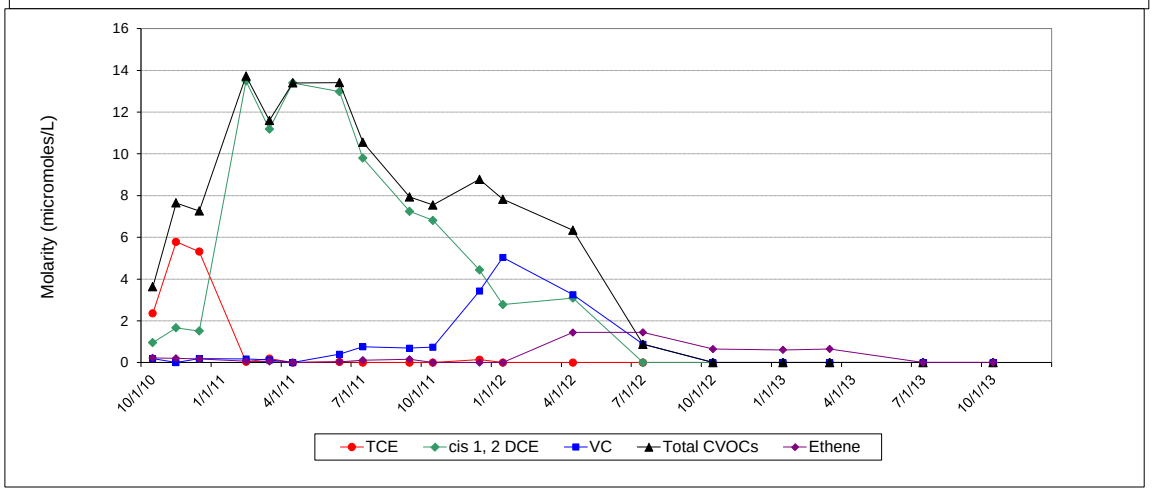
SIGNATURE: **DAJ**

Northern Area Remediation Monitoring Data
MW-562
Former Raytheon Facility, Wayland, MA

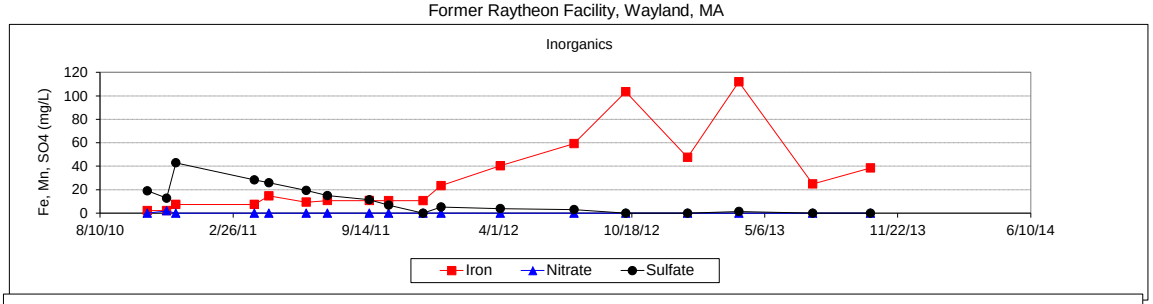


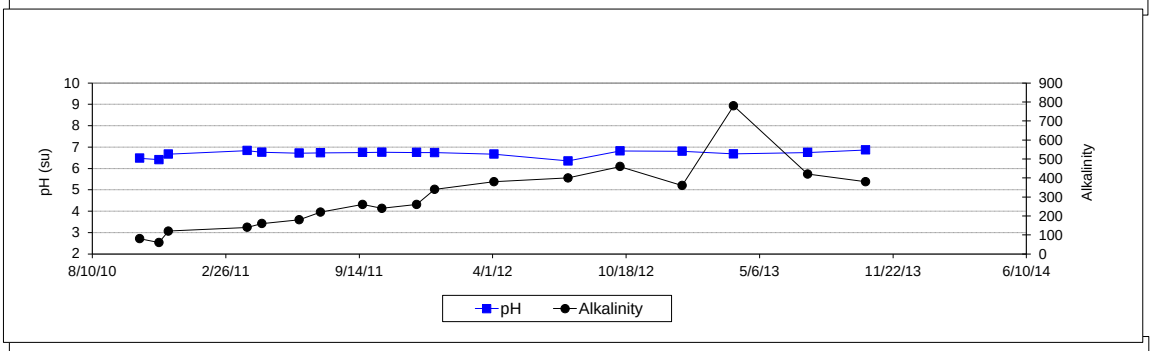


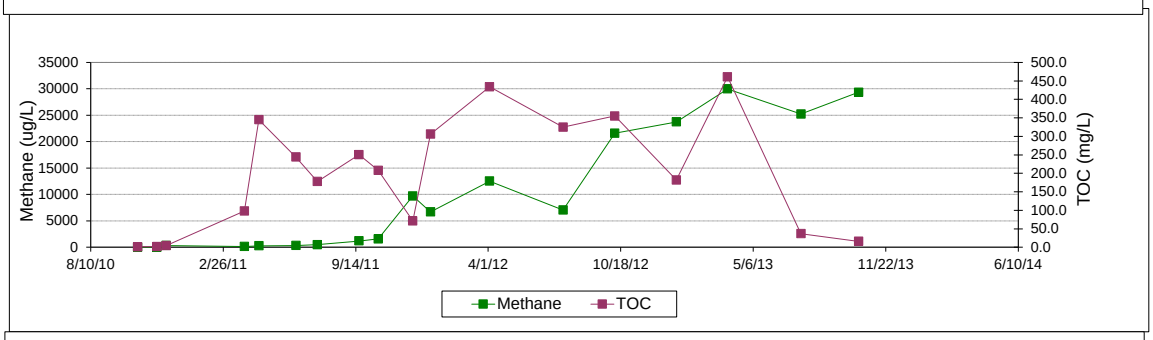


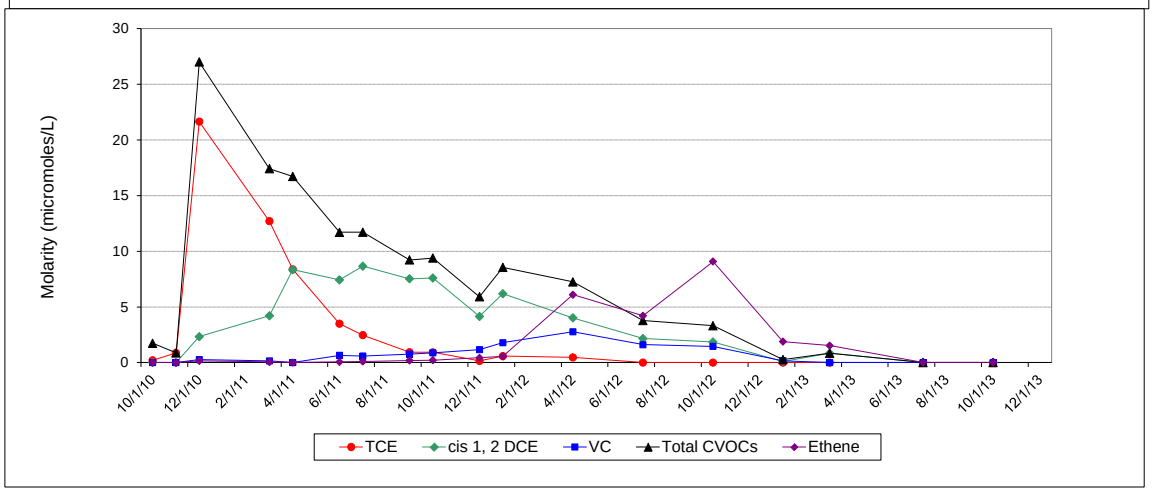


Northern Area Remediation Monitoring Data
REW-1
Former Raytheon Facility, Wayland, MA

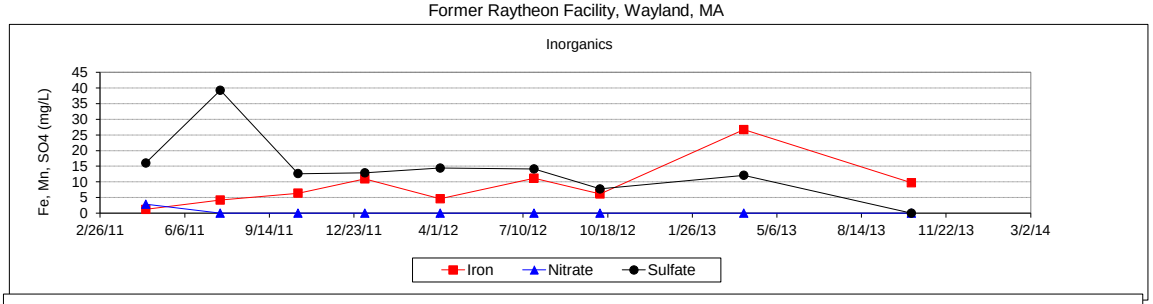


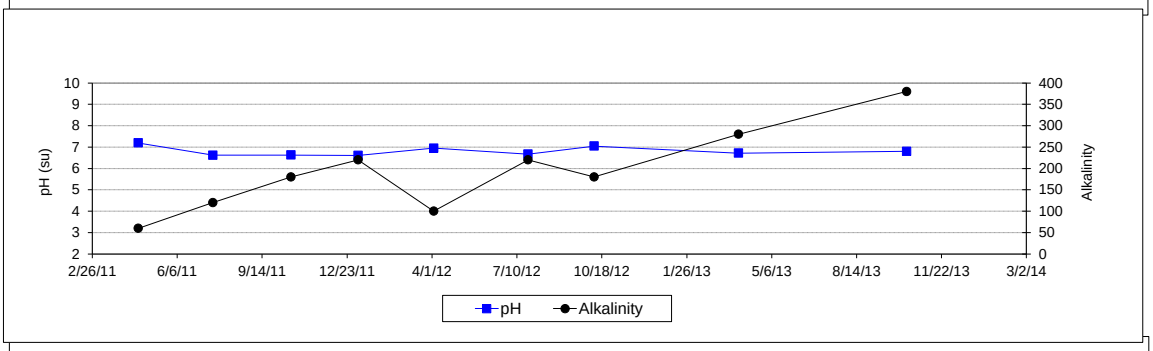


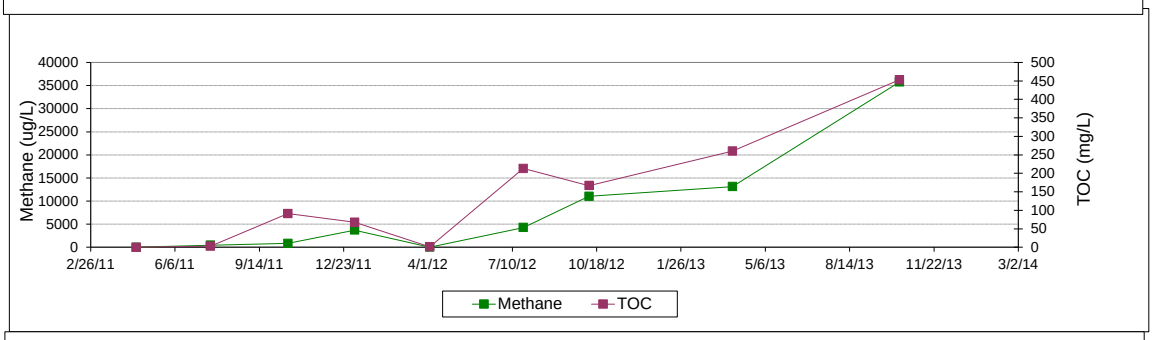


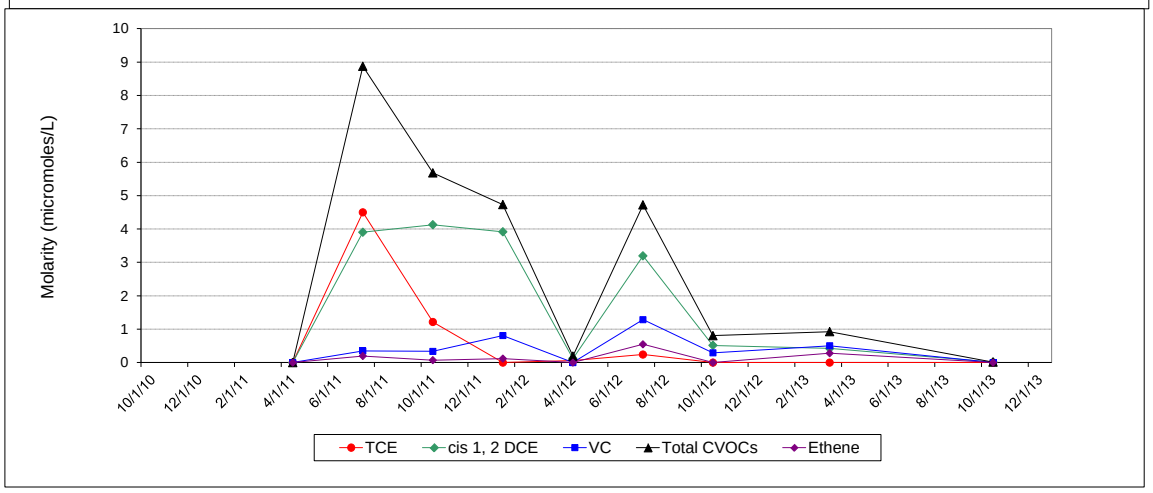


Northern Area Remediation Monitoring Data
REW-4
Former Raytheon Facility, Wayland, MA

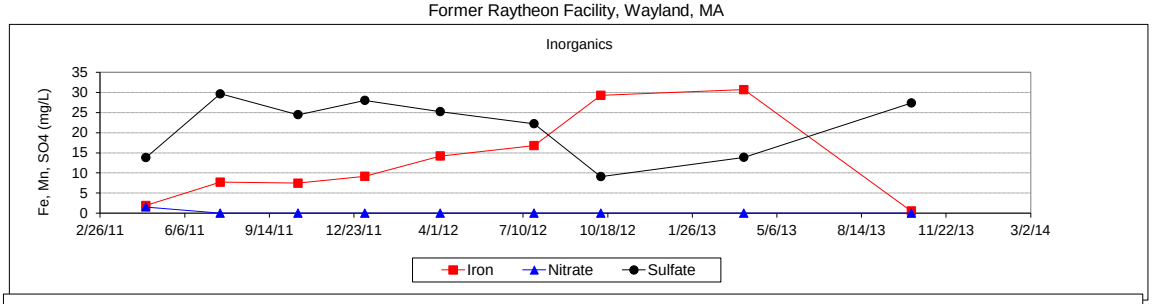


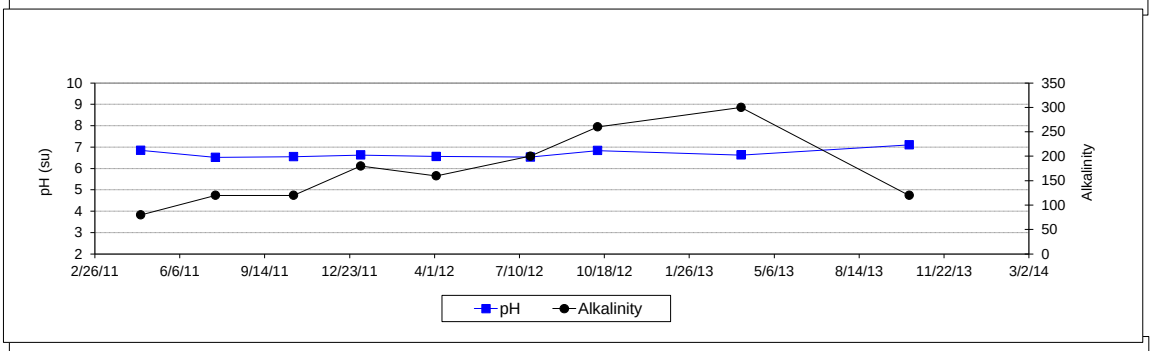


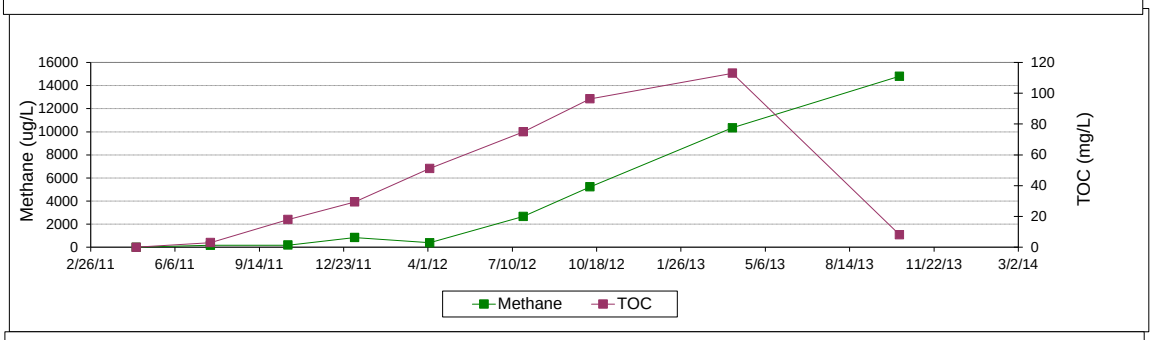


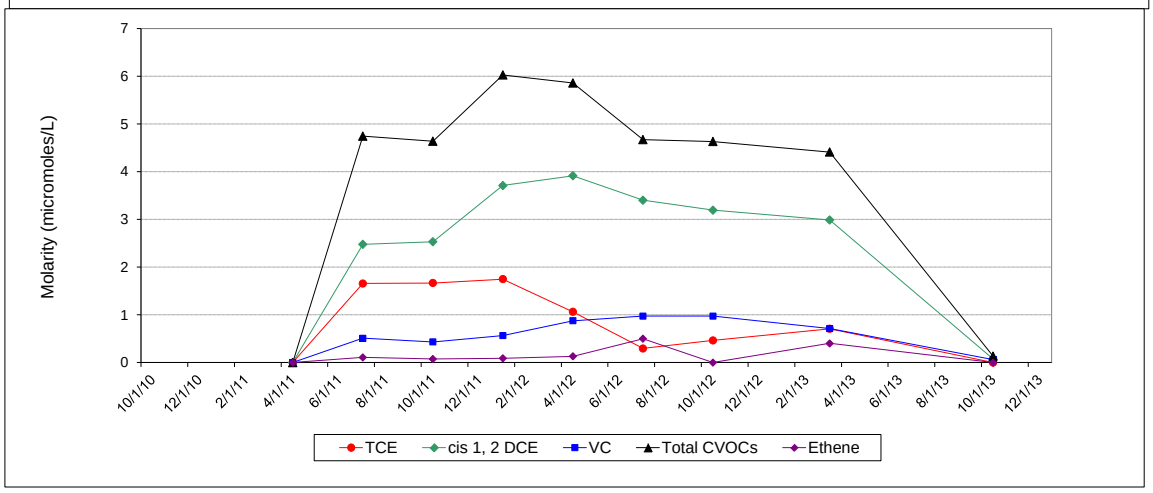


Northern Area Remediation Monitoring Data
REW-5
Former Raytheon Facility, Wayland, MA

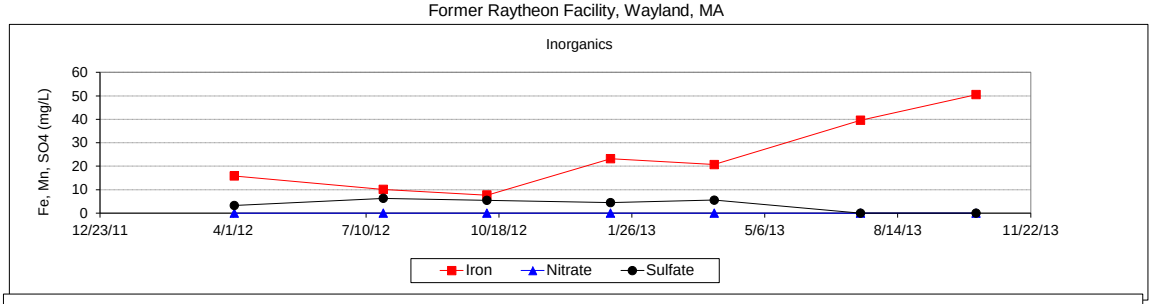


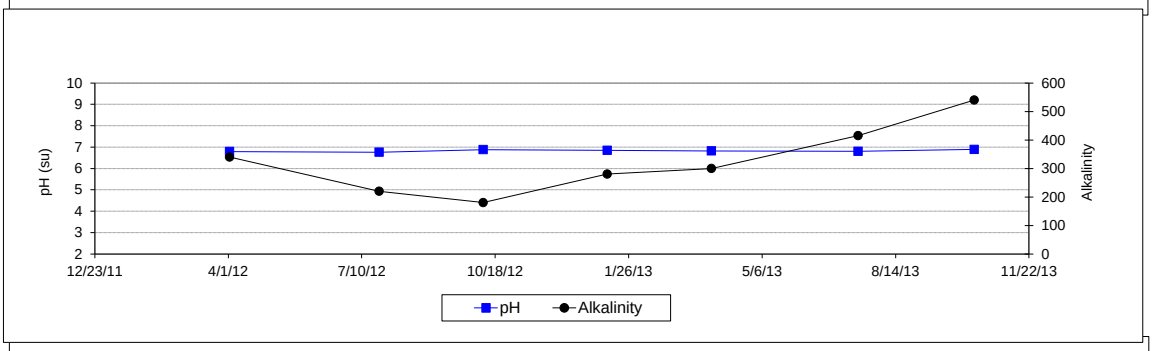


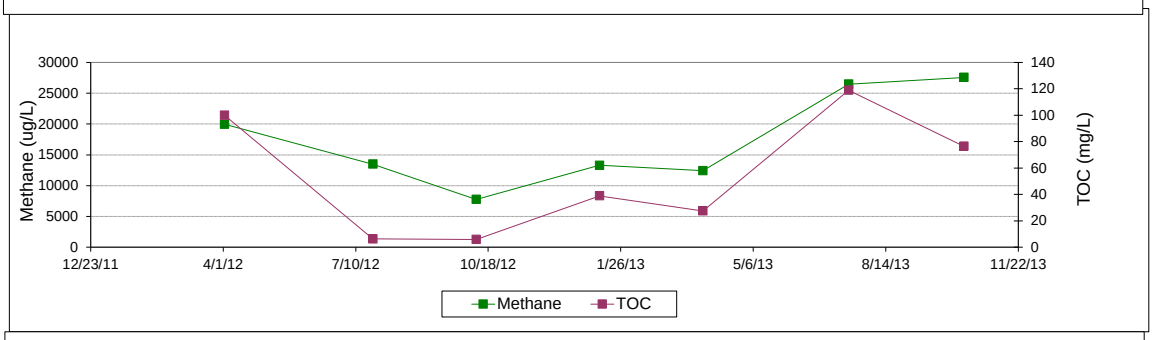


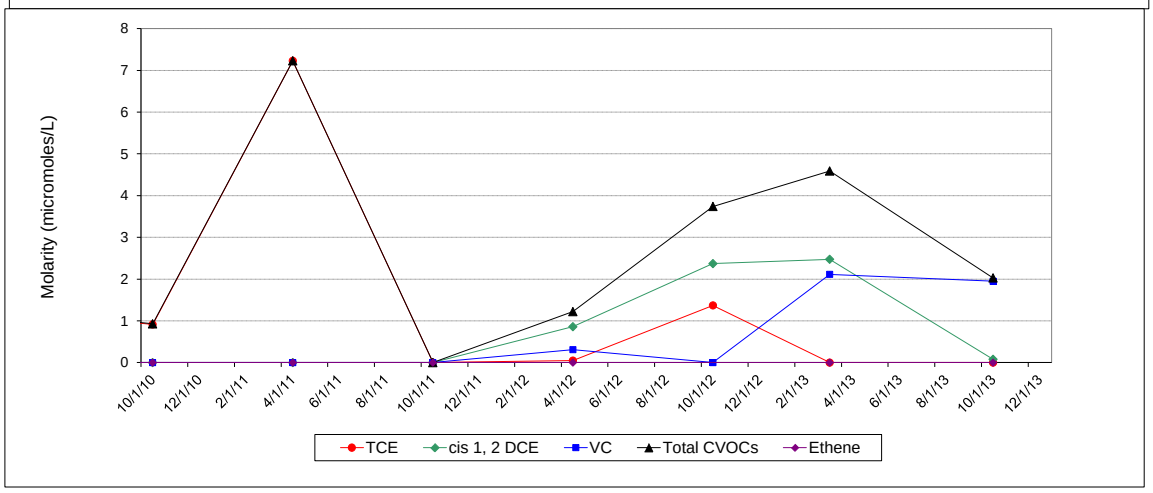


Northern Area Remediation Monitoring Data
MW-551
Former Raytheon Facility, Wayland, MA

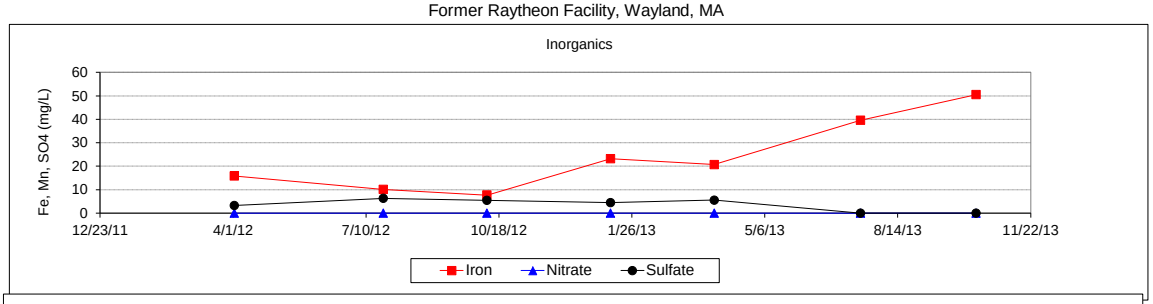


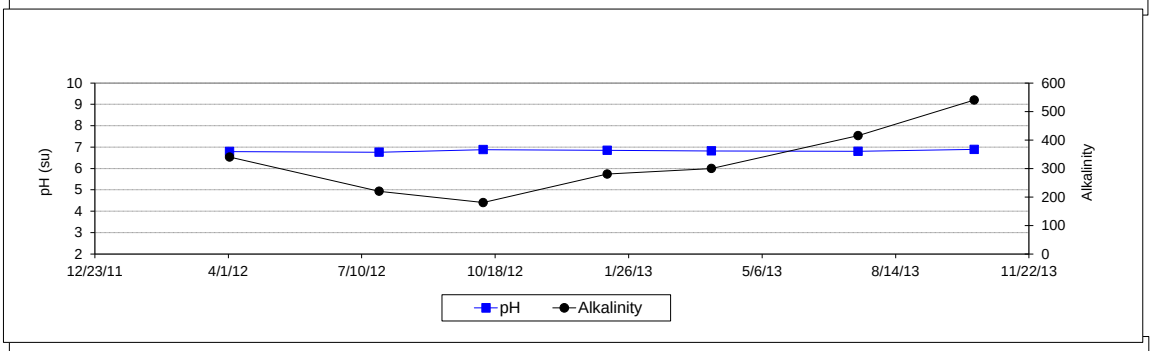


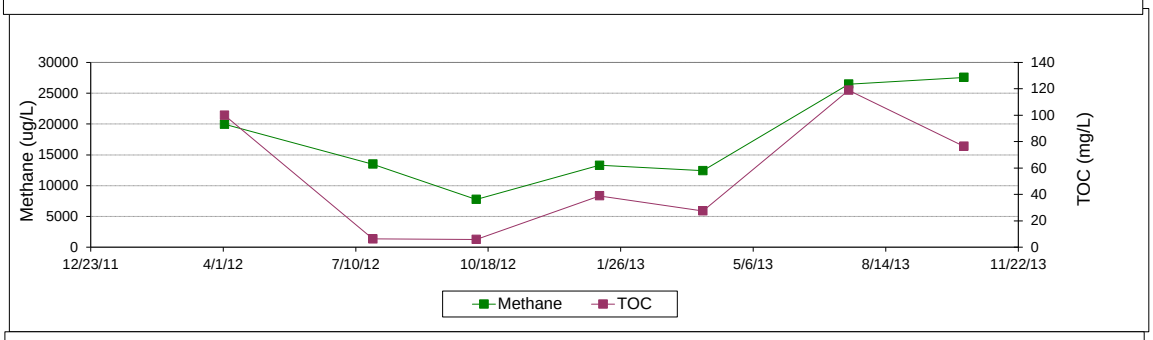


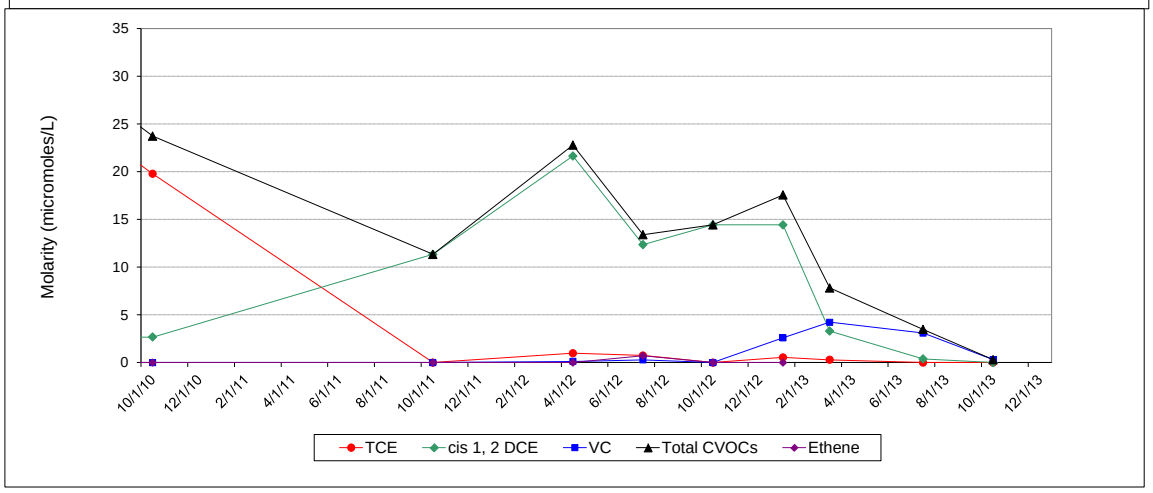


Northern Area Remediation Monitoring Data
MW-552
Former Raytheon Facility, Wayland, MA

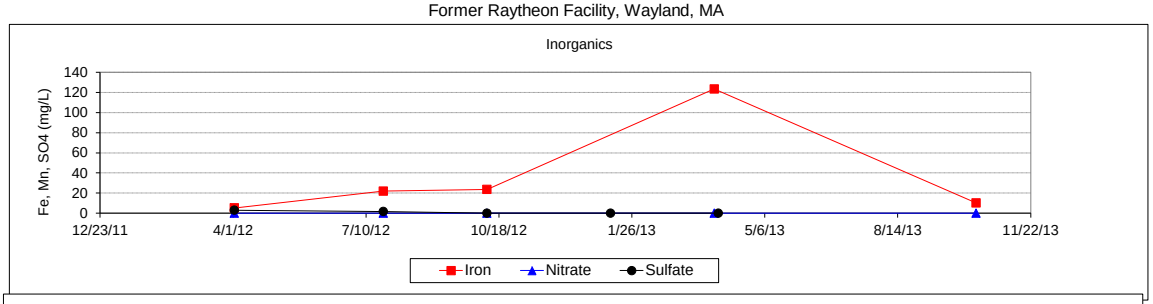


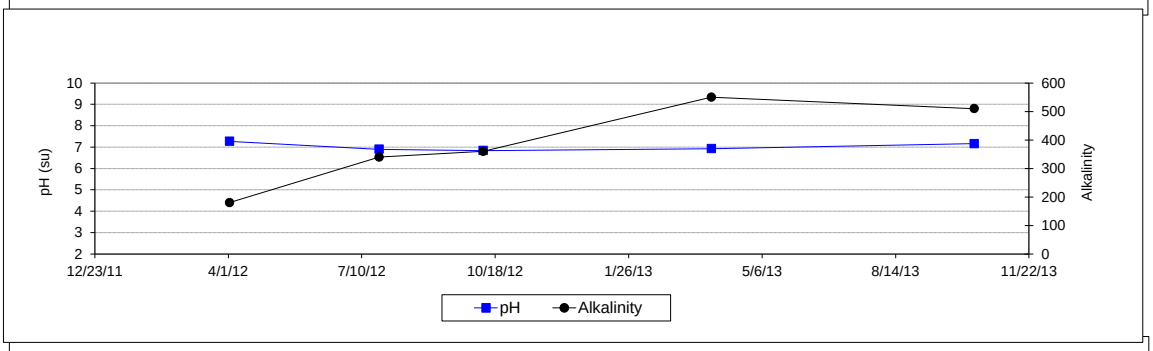


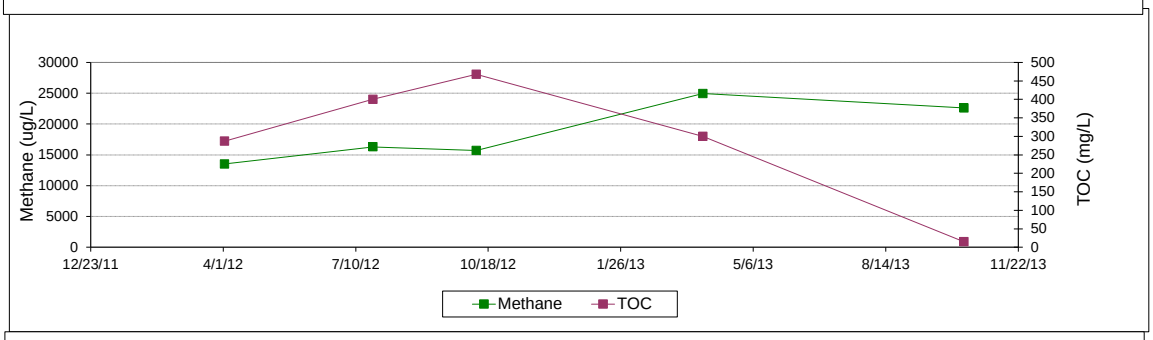


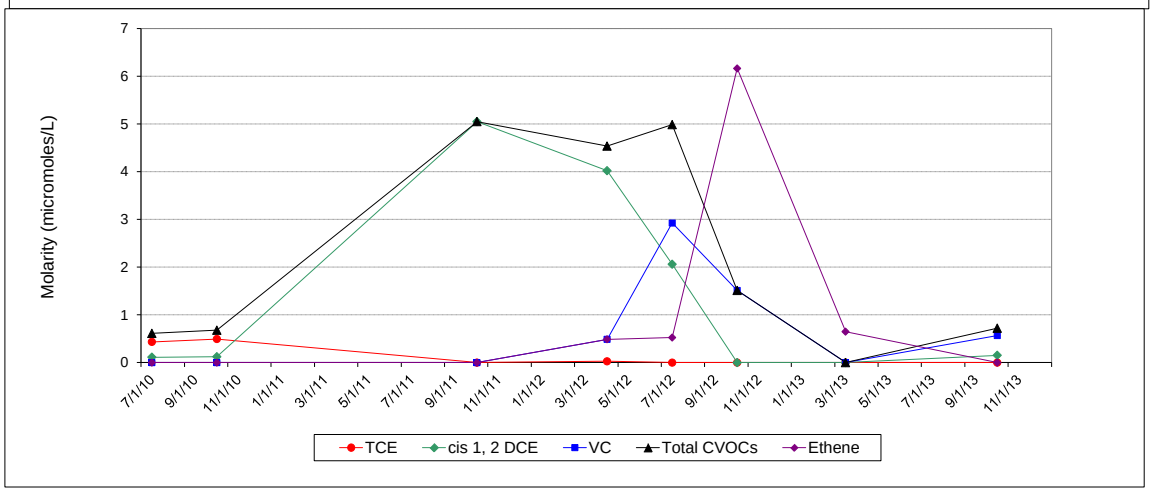


Northern Area Remediation Monitoring Data
MW-553
Former Raytheon Facility, Wayland, MA

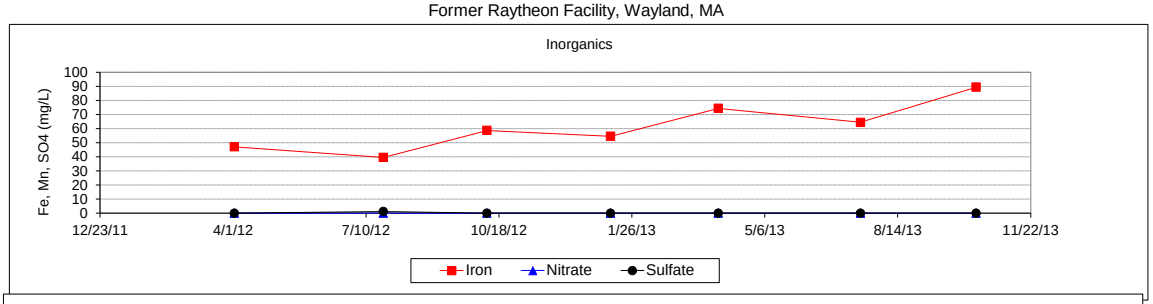


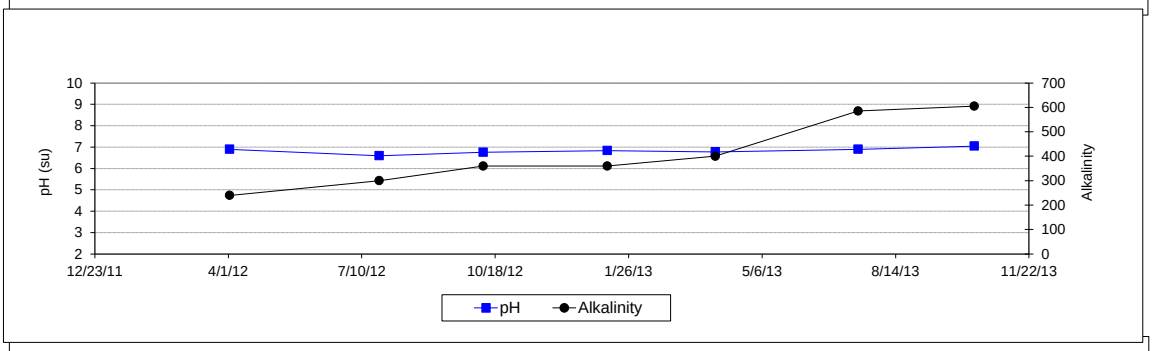


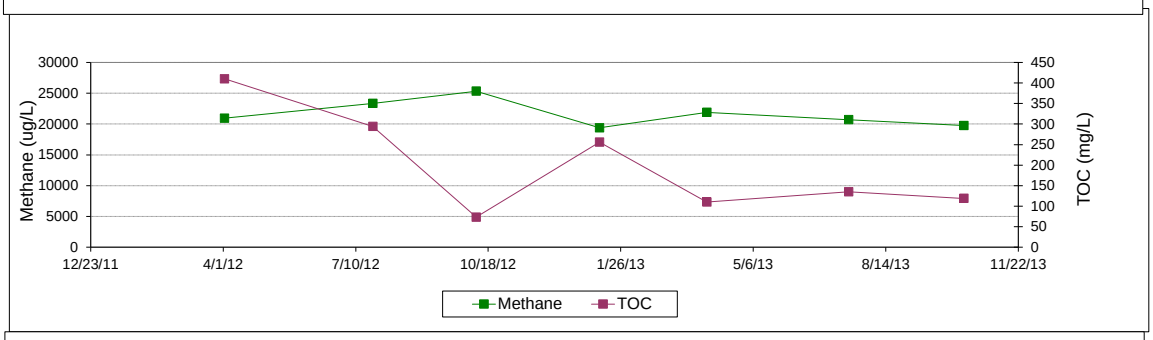


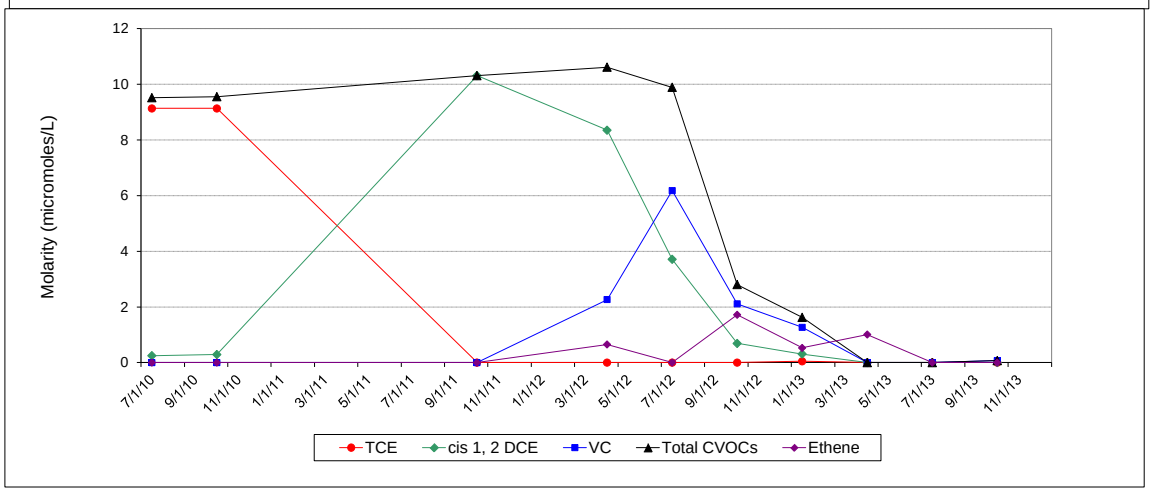


Northern Area Remediation Monitoring Data
MW-261S
Former Raytheon Facility, Wayland, MA

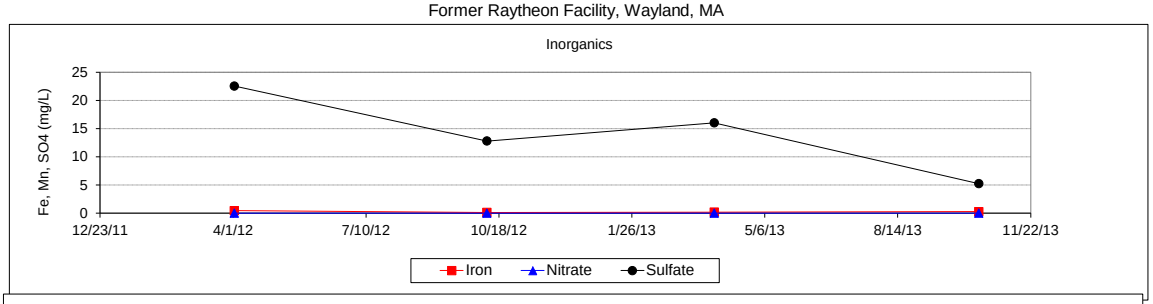


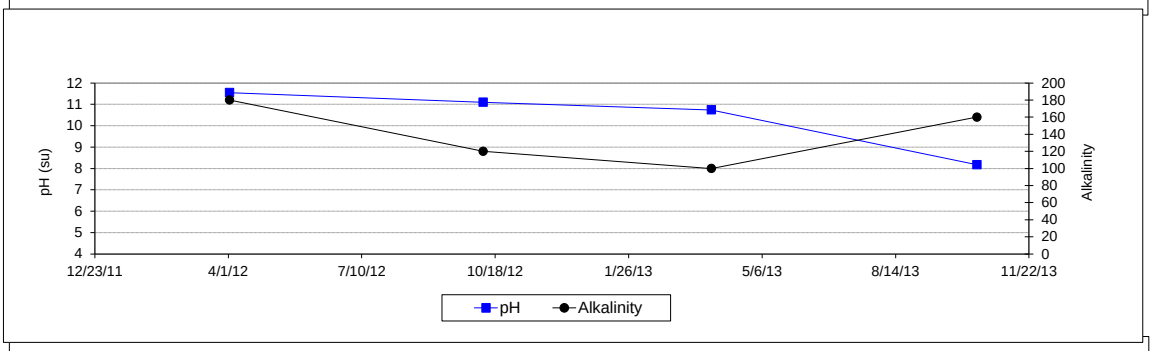


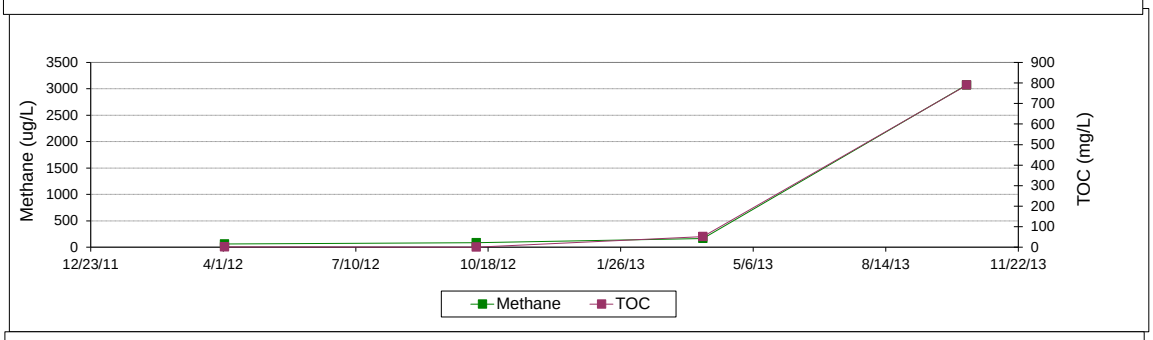


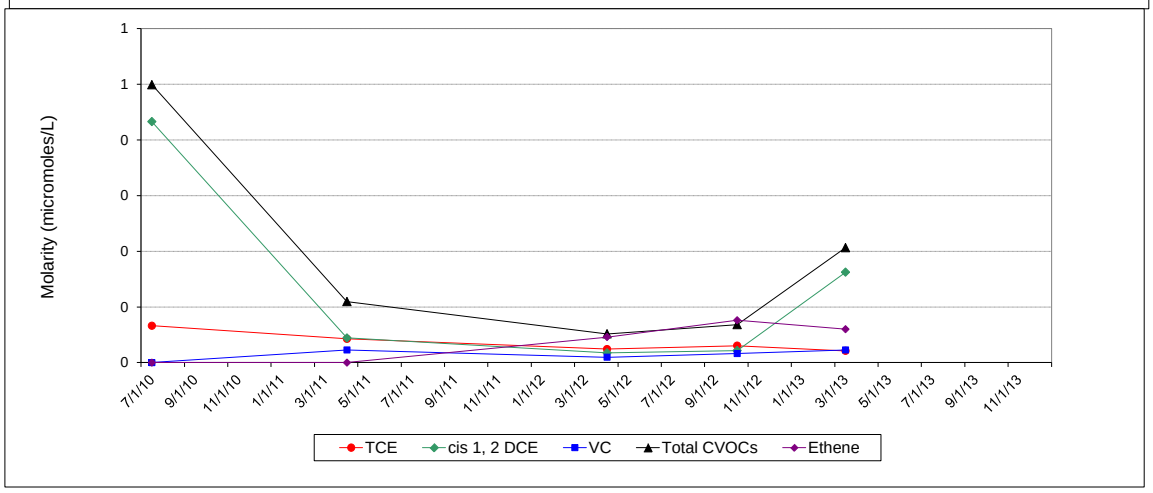


Northern Area Remediation Monitoring Data
MW-560
Former Raytheon Facility, Wayland, MA

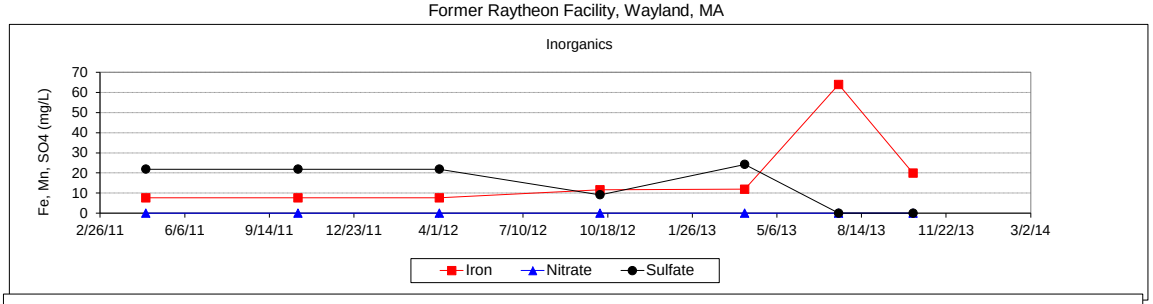


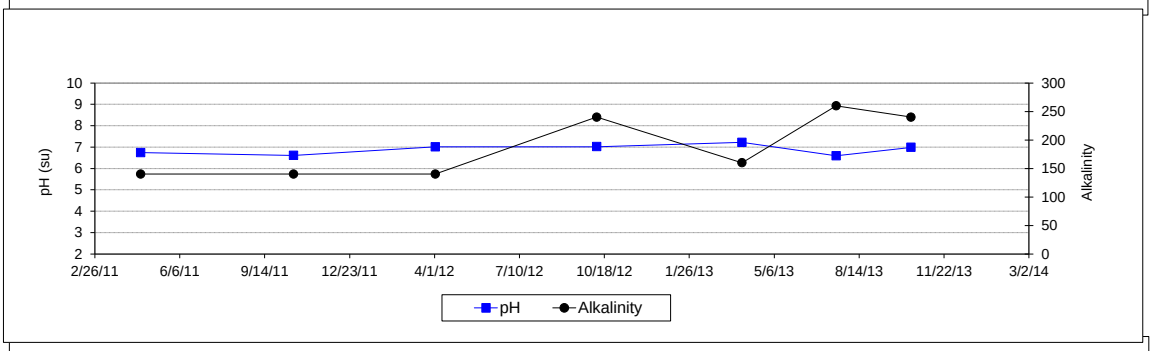


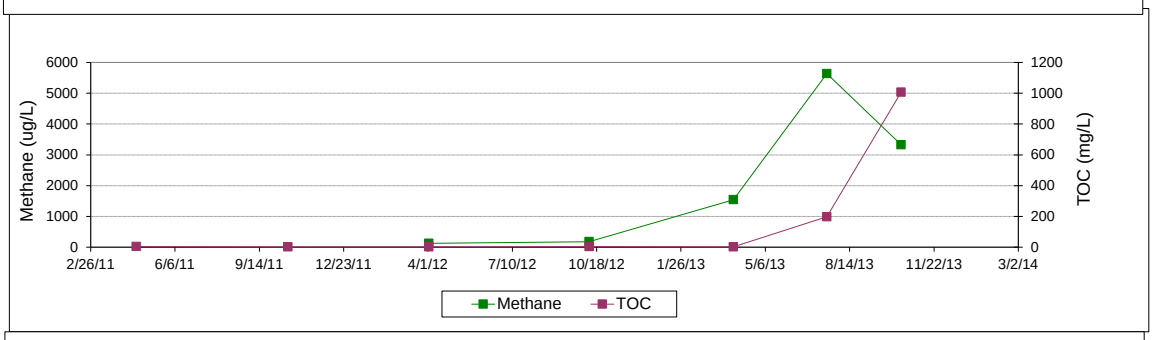


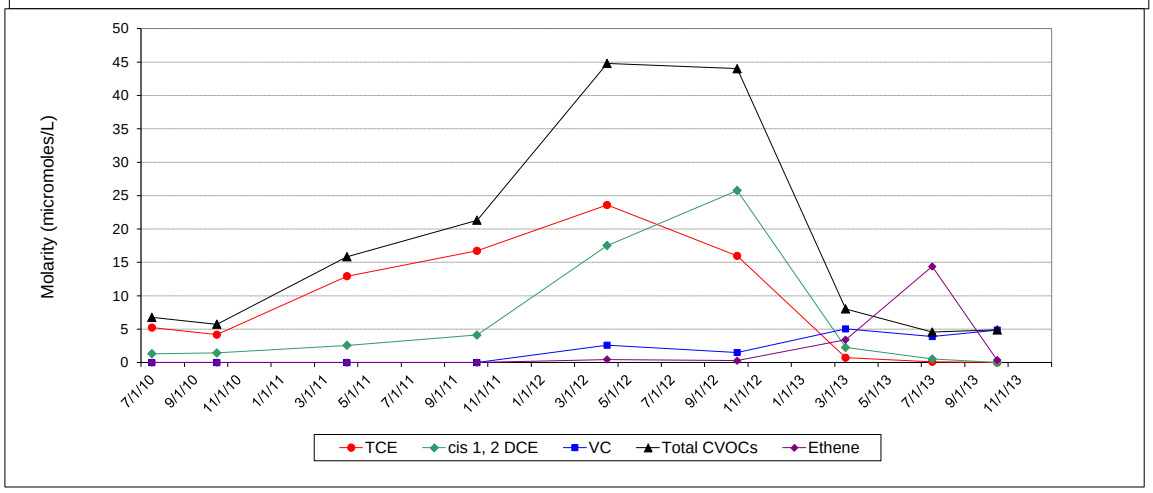


Northern Area Remediation Monitoring Data
MW-561
Former Raytheon Facility, Wayland, MA

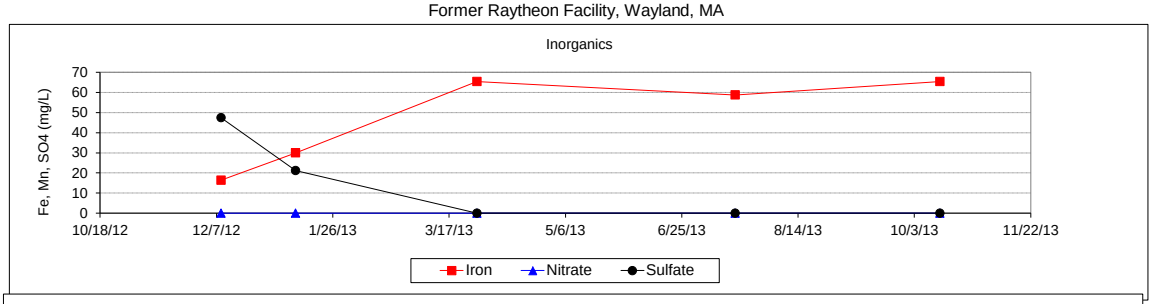


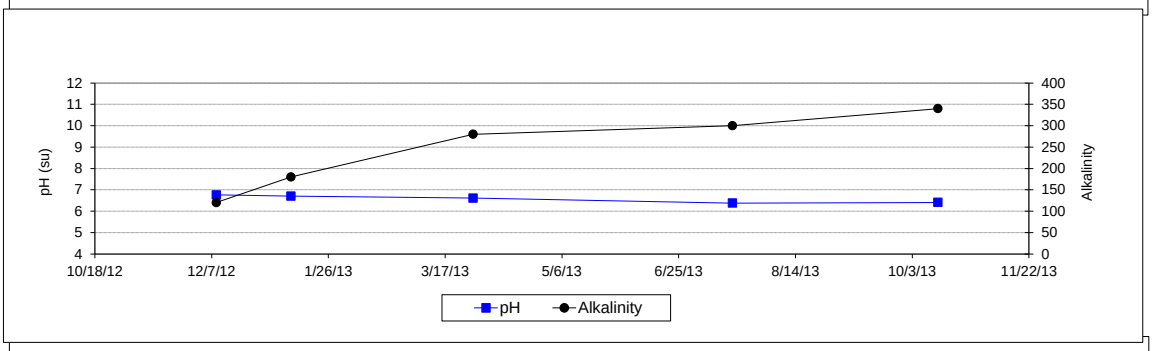


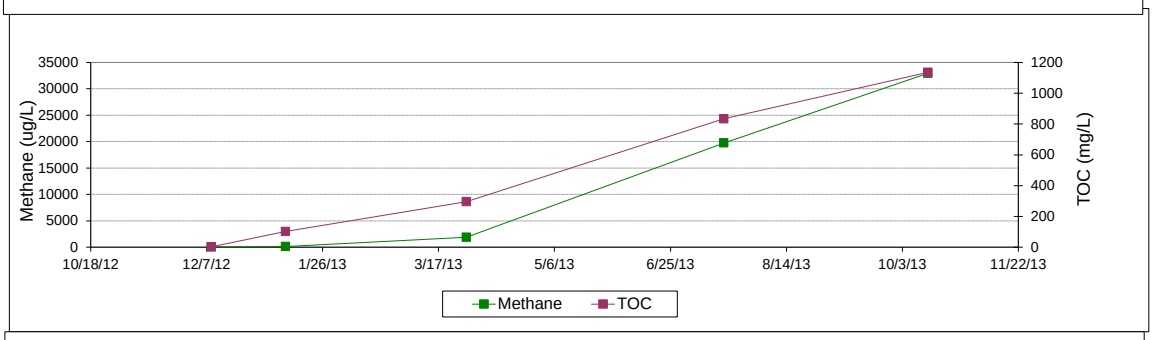


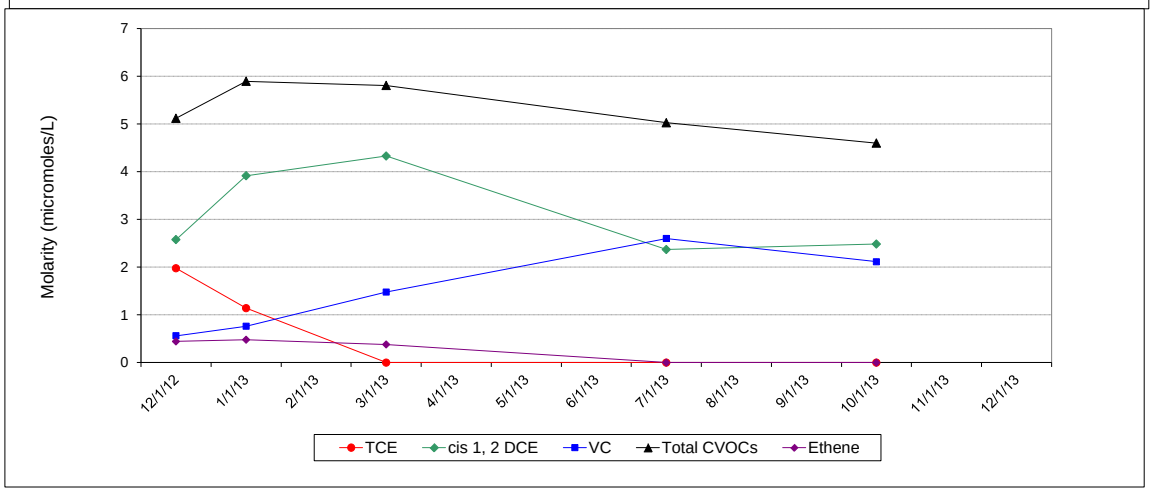


Northern Area Remediation Monitoring Data
MW-563
Former Raytheon Facility, Wayland, MA

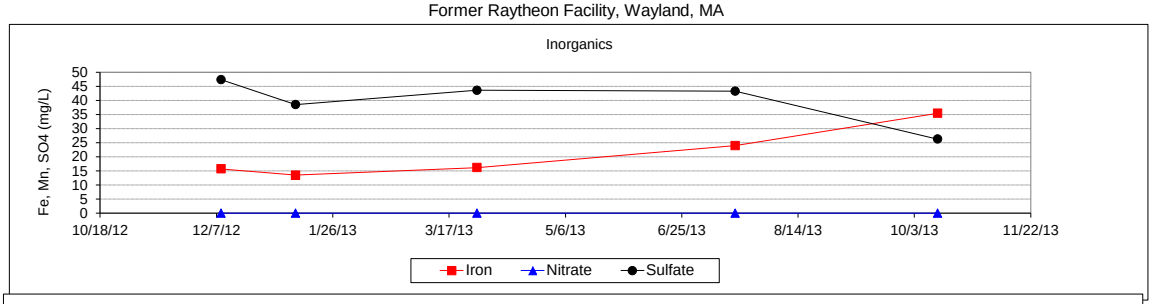


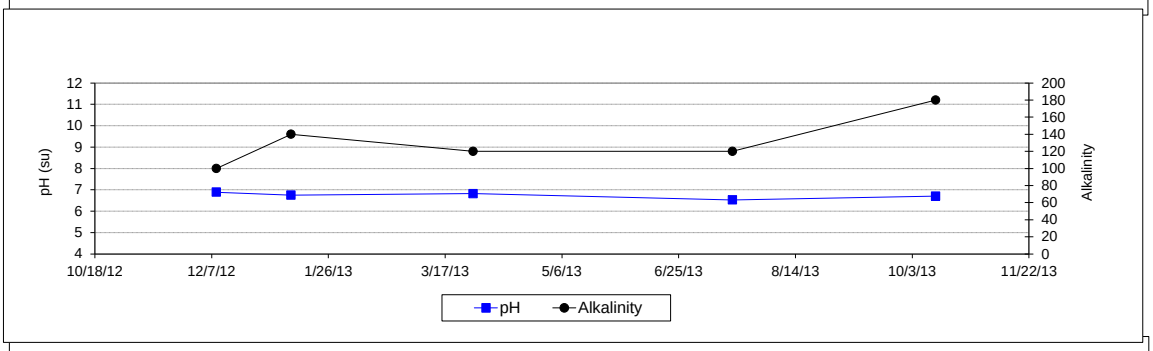


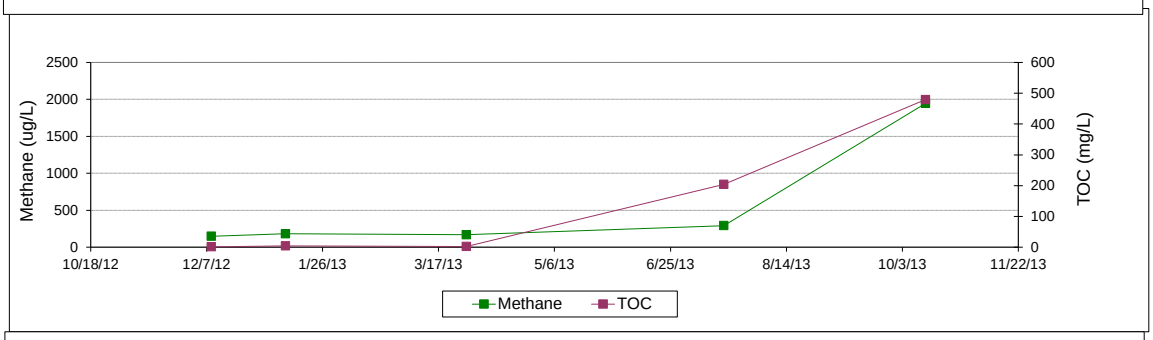


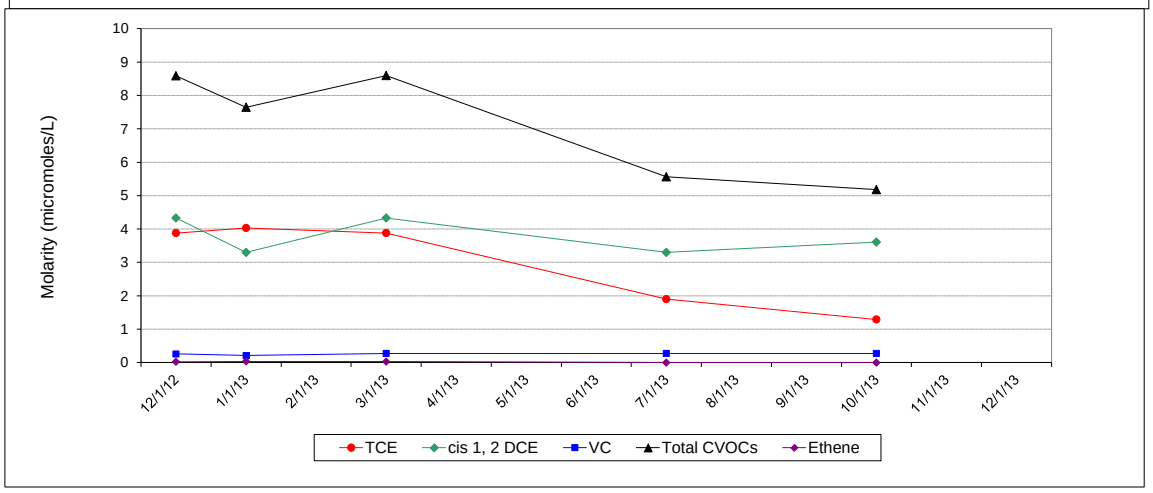


Northern Area Remediation Monitoring Data
REW-6
Former Raytheon Facility, Wayland, MA









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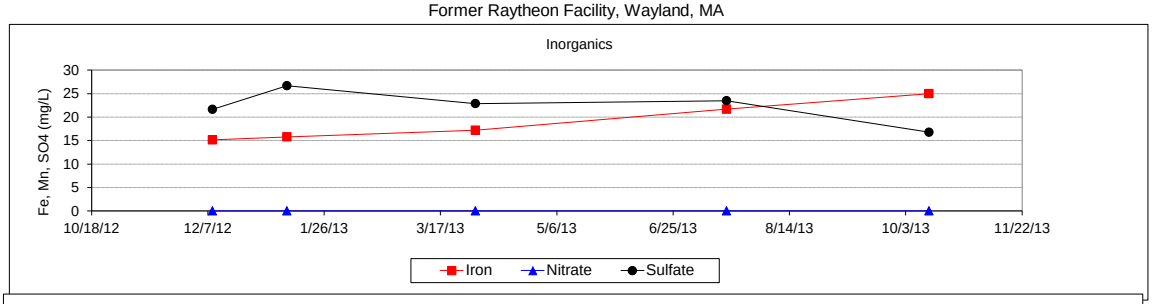
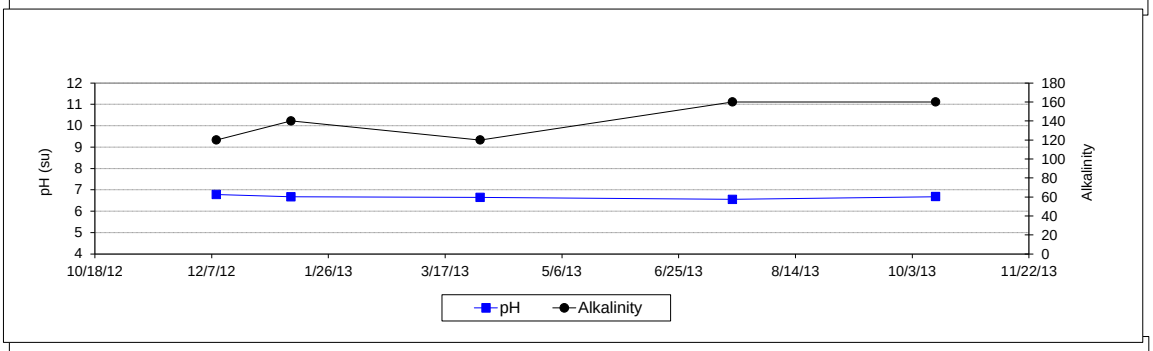
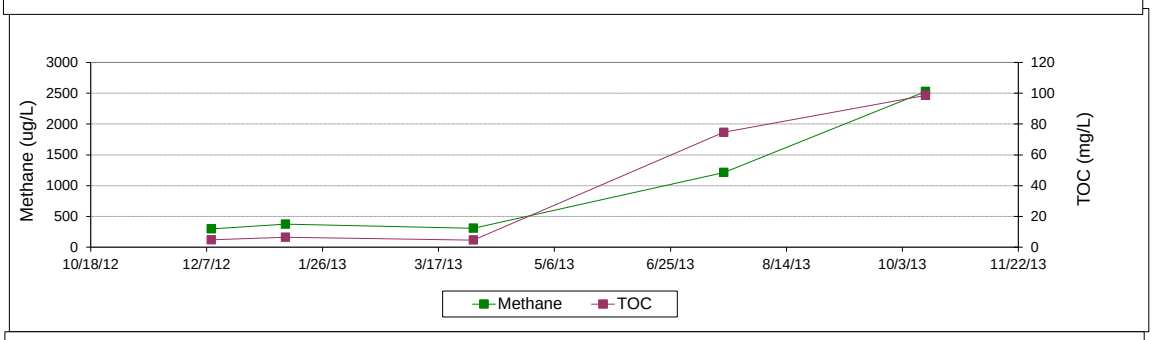
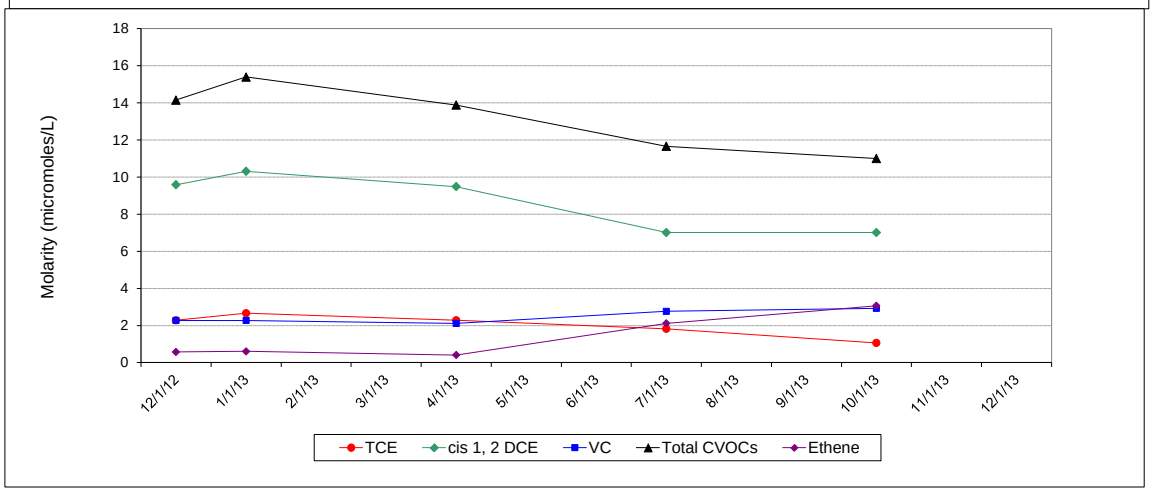
REW-7
Former Raytheon Facility, Wayland, MA

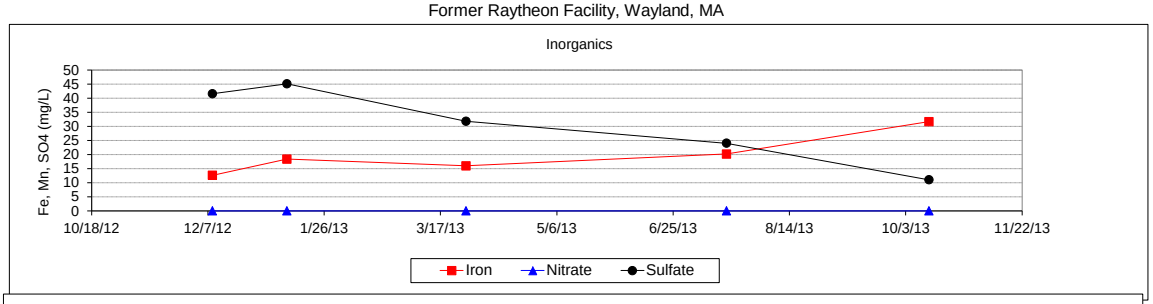


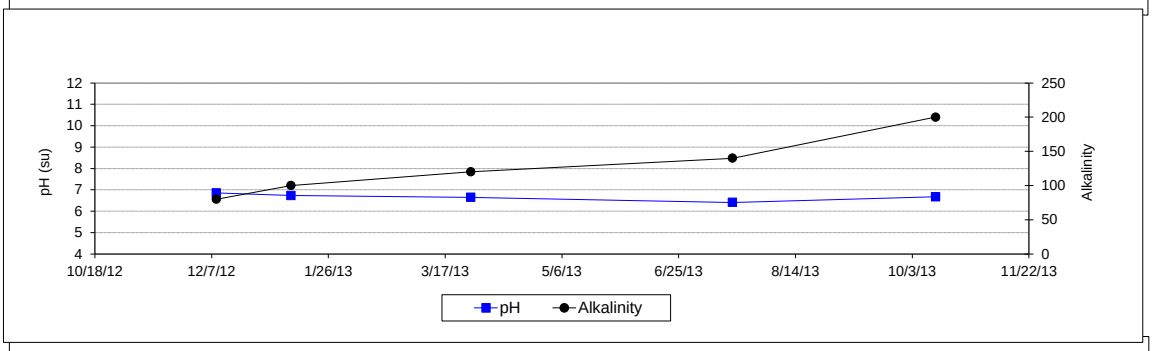


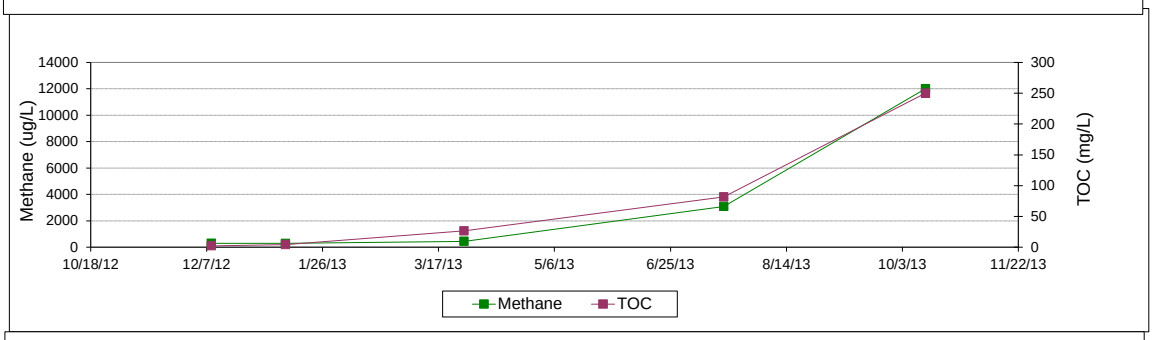


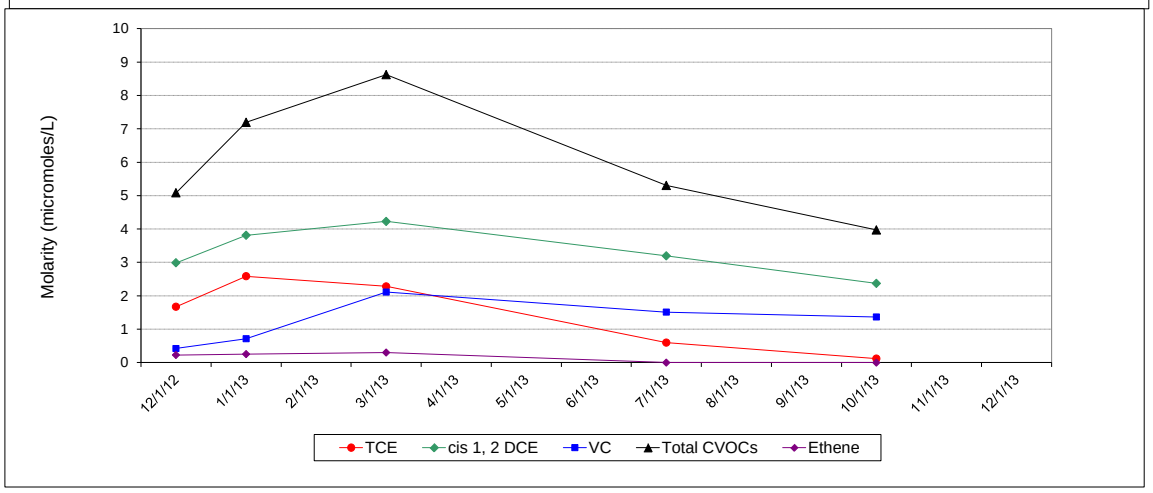


Northern Area Remediation Monitoring Data
REW-8
Former Raytheon Facility, Wayland, MA

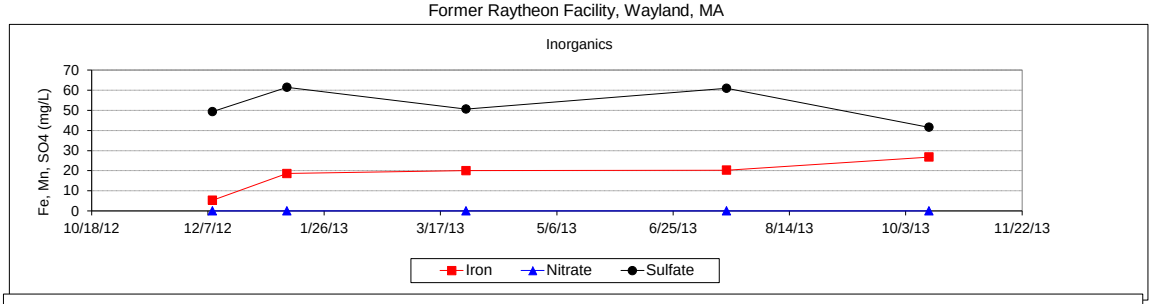


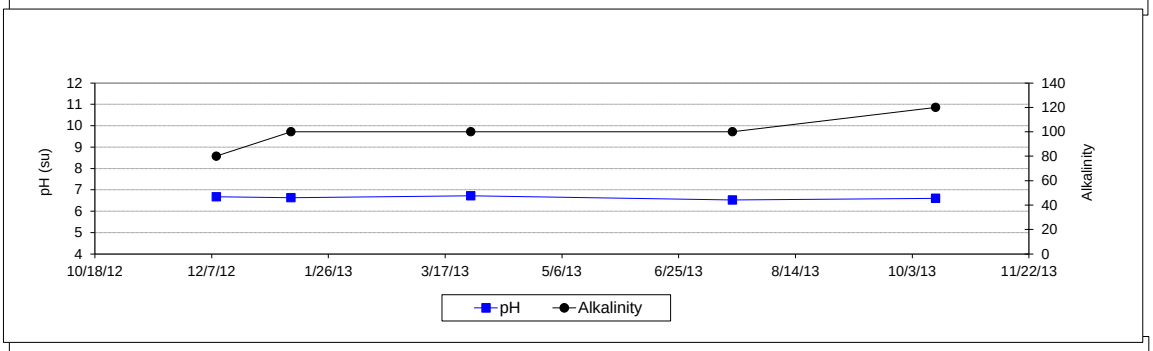


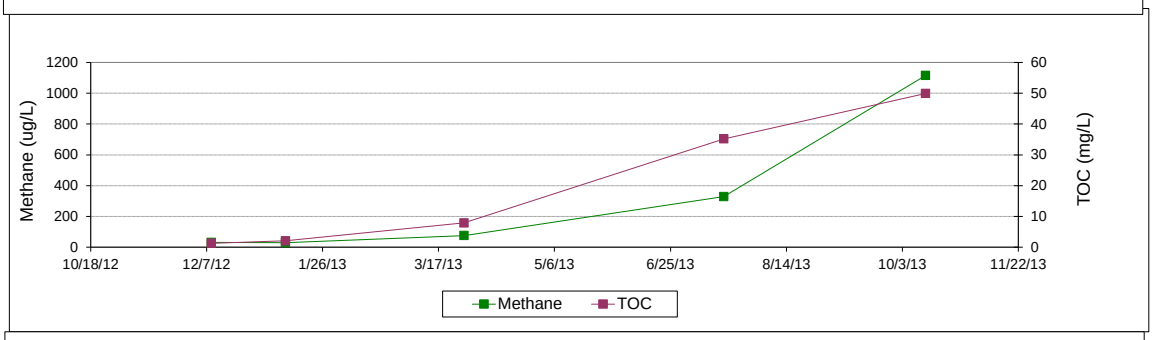


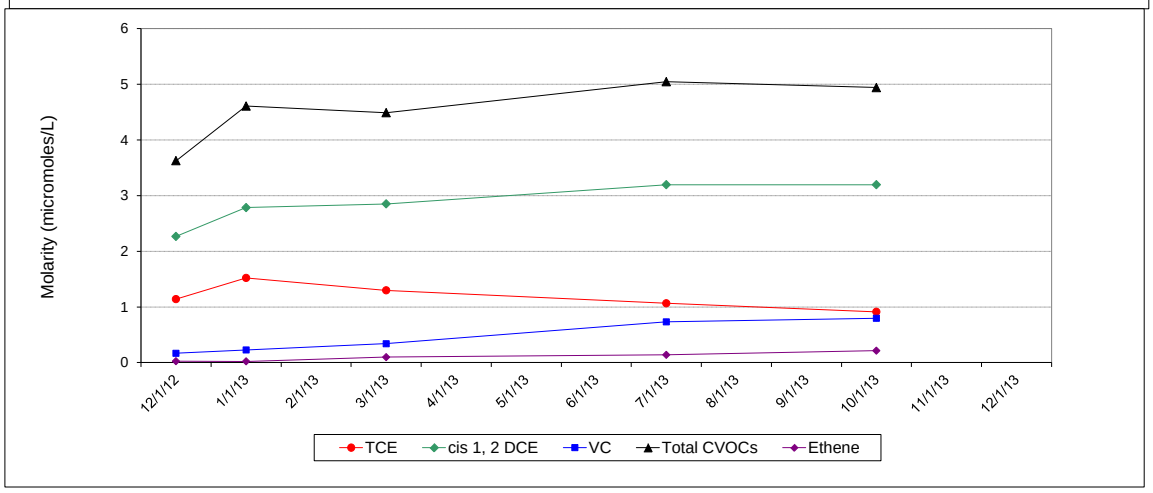


Northern Area Remediation Monitoring Data
REW-12
Former Raytheon Facility, Wayland, MA

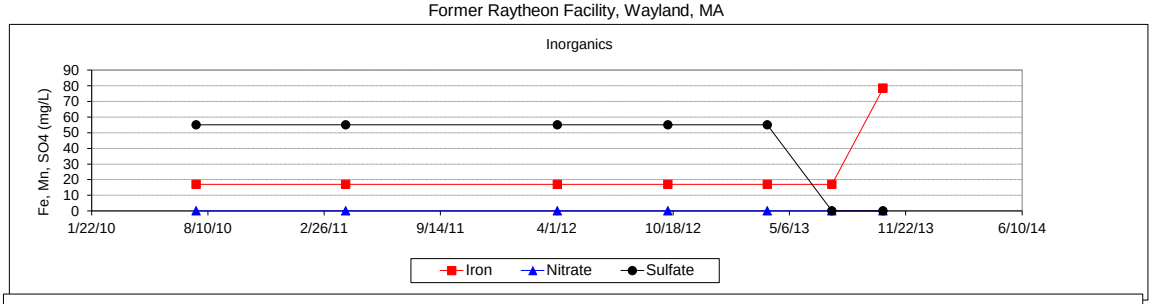


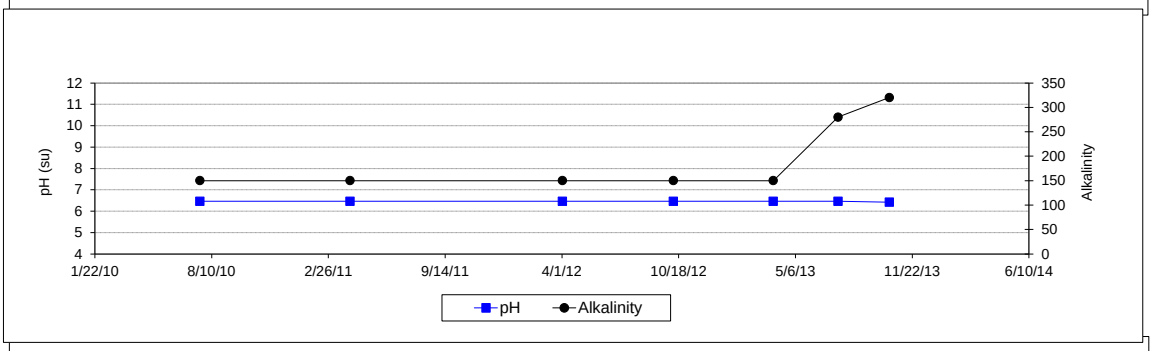


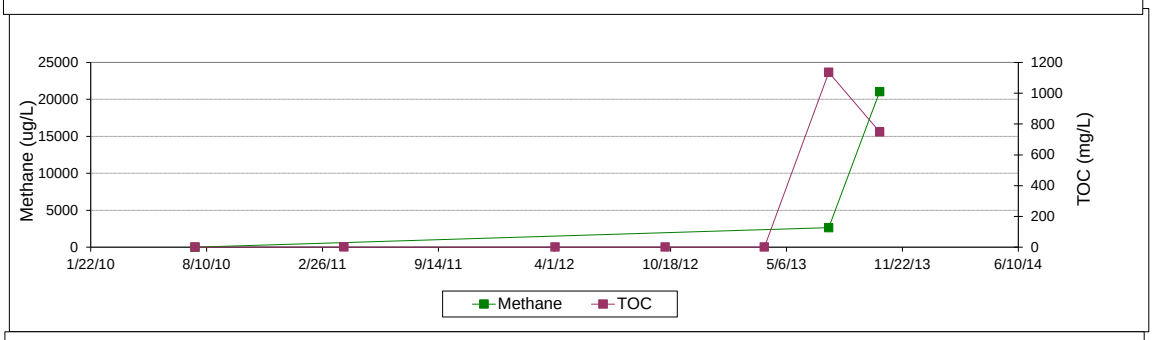


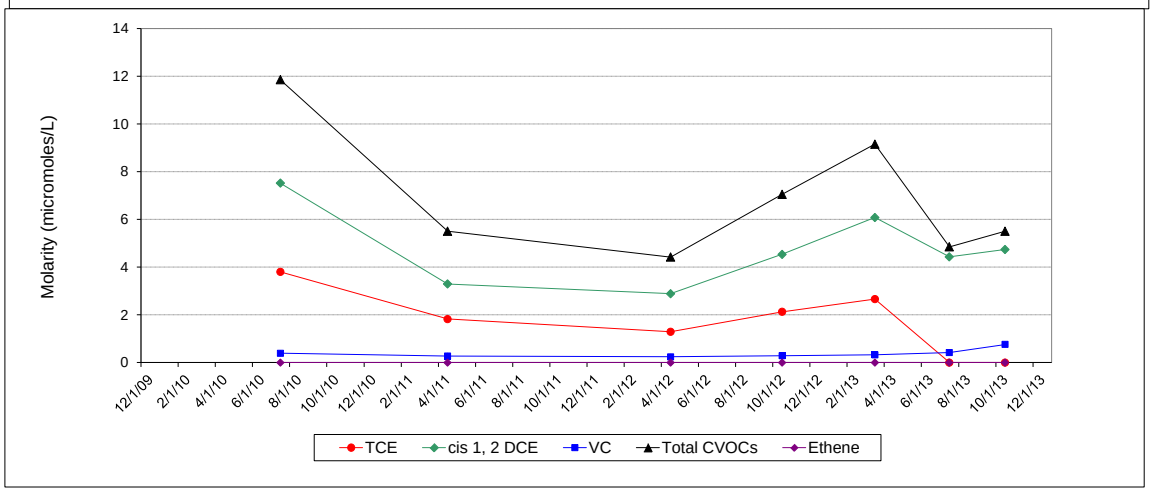


Northern Area Remediation Monitoring Data
MW-267M
Former Raytheon Facility, Wayland, MA

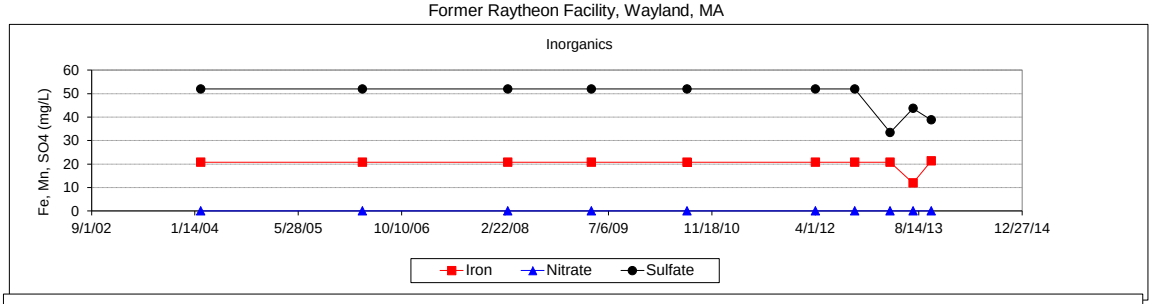


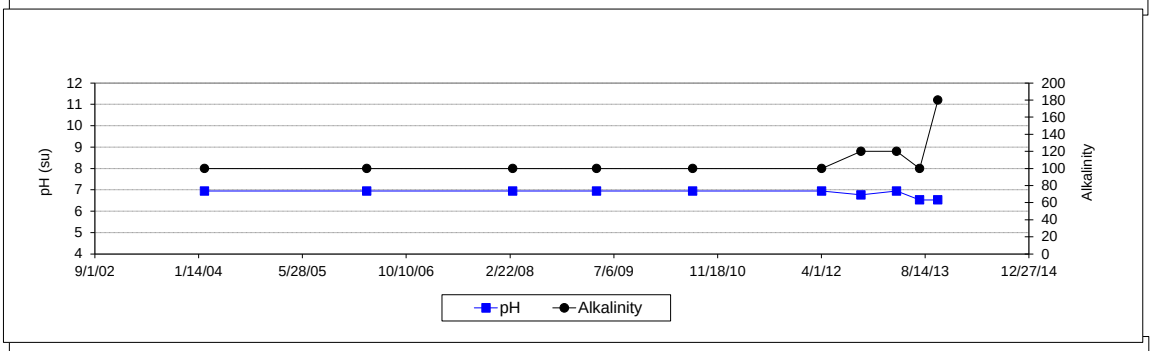


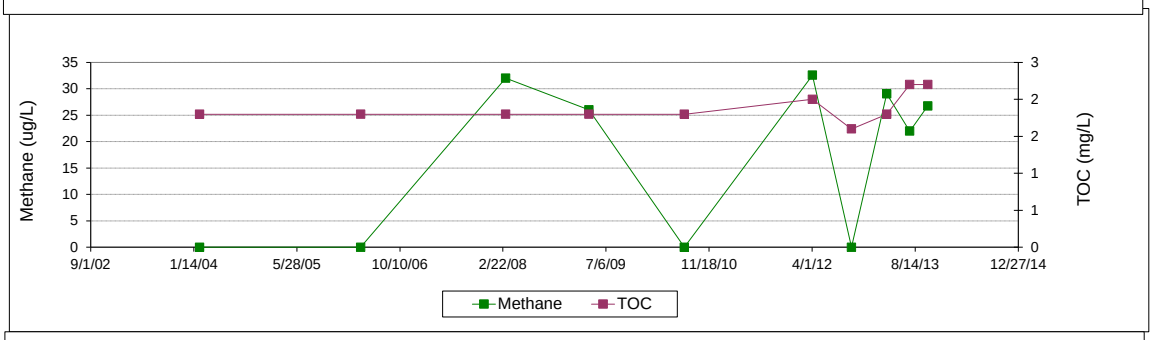


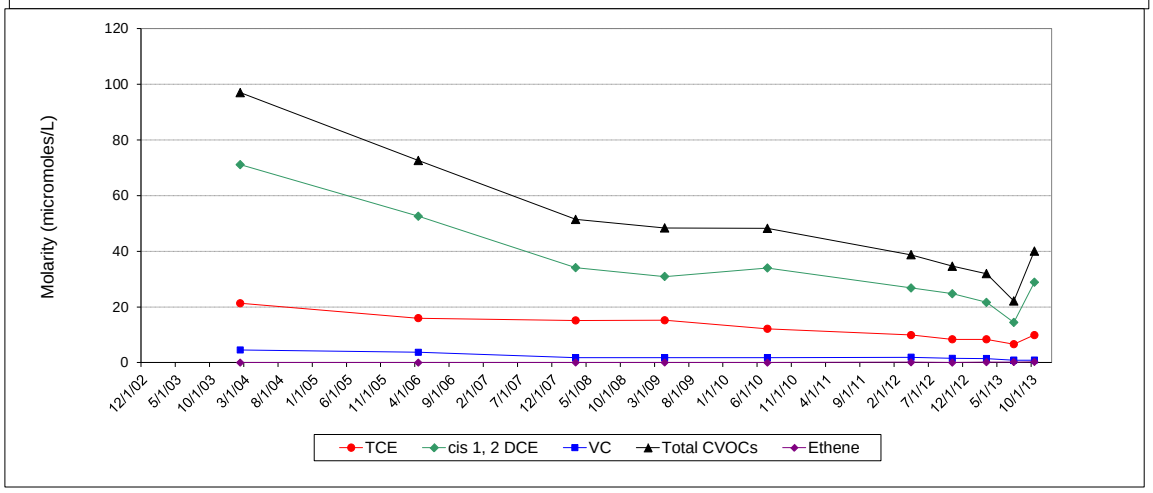


Northern Area Remediation Monitoring Data
MW-268M
Former Raytheon Facility, Wayland, MA









Appendix B
Analytical Laboratory Reports

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

TestAmerica Job ID: 480-46929-1
Client Project/Site: IDS Wayland

For:
ERM-Northeast
One Beacon Steet
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Attn: Jason Flattery

Authorized for release by:
10/10/2013 12:48:14 PM

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The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD exceeds the control limits
*	RPD of the LCS and LCSD exceeds the control limits
F	MS/MSD Recovery and/or RPD exceeds the control limits
E	Result exceeded calibration range.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 480-46929-1

Laboratory: TestAmerica Buffalo

Narrative

Receipt
The samples were received on 10/2/2013 4:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 4.1º C.

GC/MS VOA
Method 8260C: The laboratory control sample (LCS) and / or the laboratory control sample duplicate (LCSD) and the matrix spike (MS) and / or the matrix spike duplicate (MSD) for batch 143303 exceeded control limits for the following analyte: 2-Butanone. Unlike the calibration standards, this is due to the coelution with Ethyl Acetate in the spiking solution. This does not indicate a performance issue with the spike recovery, but rather the laboratory's ability to measure the two analytes together in a combined spiking solution. Through the use of spectral analysis, the two compounds can be distinguished from one another if present in a client sample.

Method 8260C: The laboratory control sample (LCS) and the laboratory control sample duplicate (LCSD) for batch 143681 exceeded control limits for the following analyte: 2-Butanone. Unlike the calibration standards, this is due to the coelution with Ethyl Acetate in the spiking solution. This does not indicate a performance issue with the spike recovery, but rather the laboratory's ability to measure the two analytes together in a combined spiking solution. Through the use of spectral analysis, the two compounds can be distinguished from one another if present in a client sample.

Method 8260C: The laboratory control sample (LCS) for batchs 143681 and 143397 exceeded control limits for the following analytes: Dichlorodifluoromethane. MCP protocol allows for 10% of the target compounds to be outside of the limits provided the recoveries are over 10%.

Method 8260C: The %RPD of the laboratory control sample (LCS) and laboratory control standard duplicate (LCSD) for batch 143397 recovered outside control limits for the following analytes: 2-Chlorotoluene.

Method 8260C: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 143397 were outside control limits.

Method 8260C: The following samples were diluted to bring the concentration of target analytes within the calibration range: DUP-001-20131001-01 (480-46929-3), MW-1020-20131001-01 (480-46929-5). Elevated reporting limits (RLs) are provided.

With the exception of diluted samples, per question G on the MassDEP Analytical Protocol Certification Form, TestAmerica's routine reporting limits do not achieve the CAM reporting limits specified in this CAM protocol for 1,2-dibromo-3-chloropropane, Carbon Disulfide, Isopropyl Ether, Naphthalene, tert-Butyl Ethyl Ether, tert-Amyl Methyl Ether, & Tetrahydrofuran.

No other analytical or quality issues were noted.

GC/MS Semi VOA
No analytical or quality issues were noted.

Organic Prep
No analytical or quality issues were noted.

MassDEP Analytical Protocol Certification Form

Laboratory Name: **TestAmerica Buffalo** Project #: **480-46929-1**

Project Location: **Wayland** RTN:

This form provides certifications for the following data set: list Laboratory Sample ID Number(s):

480-46929-1[1-11]

Matrices: [X] Groundwater/Surface Water [ ] Soil/Sediment [ ] Drinking Water [ ] Air [ ] Other:

CAM Protocols (check all that apply below):

8260 VOC CAM II A [X]	7470/7471 Hg CAM III B [ ]	Mass DEP VPH CAM IV A [ ]	8081 Pesticides CAM V B [ ]	7196 Hex Cr CAM VI B [ ]	Mass DEP APH CAM IX A [ ]
8270 SVOC CAM II B [ ]	6010 Metals CAM III C [ ]	Mass DEP EPH CAM IV B [ ]	8151 Herbicides CAM V C [ ]	8330 Explosives CAM VIII A [ ]	TO-15 VOC CAM IX B [ ]
6010 Metals CAM III A [ ]	6020 Metals CAM III D [ ]	8082 PCB CAM V A [ ]	9014 Total Cyanide/PAC CAM VI A [ ]	6860 Perchlorate CAM VIII B [ ]	

Affirmative Responses to Questions A through F are required for "Presumptive Certainty" status

A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding time.	[X] Yes [ ] No
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	[X] Yes [ ] No
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	[X] Yes [ ] No
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	[X] Yes [ ] No
E	a. VPH, EPH and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications). b. APH and TO-15 Methods only: Was the complete analyte list reported for each method?	[ ] Yes [ ] No [ ] Yes [ ] No
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	[X] Yes [ ] No

Responses to Questions G, H and I below are required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	[ ] Yes [X] No[1]

***Data User Note:* Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WCS-07-350**

H	Were **all** QC performance standards specified in the CAM protocol(s) achieved?	[ ] Yes [X] No[1]
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s) ?	[X] Yes [ ] No[1]

[1] All negative responses must be addressed in an attached laboratory narrative.

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, is accurate and complete.

Signature: Position: Project Manager

Printed Name: Becky Mason Date: 10/10/13 12:26

This form has been electronically signed and approved

Detection Summary

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-46929-1

Client Sample ID: MW-1019B-20131001-01 — Lab Sample ID: 480-46929-1

No Detections.

Client Sample ID: MW-1017D-20131001-01 — Lab Sample ID: 480-46929-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	19		1.0		ug/L	1		8260C	Total/NA
Trichloroethene	53		1.0		ug/L	1		8260C	Total/NA

Client Sample ID: DUP-001-20131001-01 — Lab Sample ID: 480-46929-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	68		1.0		ug/L	1		8260C	Total/NA
1,1-Dichloroethane	2.2		1.0		ug/L	1		8260C	Total/NA
1,1-Dichloroethene	4.8		1.0		ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	1.4		1.0		ug/L	1		8260C	Total/NA
Methyl tert-butyl ether	2.0		1.0		ug/L	1		8260C	Total/NA
Trichloroethene - DL	270		4.0		ug/L	4		8260C	Total/NA

Client Sample ID: MW-1026D-20131001-01 — Lab Sample ID: 480-46929-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	11		1.0		ug/L	1		8260C	Total/NA
Trichloroethene	89		1.0		ug/L	1		8260C	Total/NA
1,4-Dioxane	0.39		0.20		ug/L	1		522 MOD	Total/NA

Client Sample ID: MW-1020-20131001-01 — Lab Sample ID: 480-46929-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	67		1.0		ug/L	1		8260C	Total/NA
1,1-Dichloroethane	2.1		1.0		ug/L	1		8260C	Total/NA
1,1-Dichloroethene	4.7		1.0		ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	1.3		1.0		ug/L	1		8260C	Total/NA
Methyl tert-butyl ether	2.0		1.0		ug/L	1		8260C	Total/NA
Trichloroethene - DL	280		4.0		ug/L	4		8260C	Total/NA
1,4-Dioxane	0.46		0.20		ug/L	1		522 MOD	Total/NA

Client Sample ID: TB-001-20131001-01 — Lab Sample ID: 480-46929-6

No Detections.

Client Sample ID: MW-1031-20131001-01 — Lab Sample ID: 480-46929-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	5.4		1.0		ug/L	1		8260C	Total/NA
1,1-Dichloroethane	2.2		1.0		ug/L	1		8260C	Total/NA
1,1-Dichloroethene	6.2		1.0		ug/L	1		8260C	Total/NA
Methyl tert-butyl ether	64		1.0		ug/L	1		8260C	Total/NA
Tert-amyl methyl ether	18		5.0		ug/L	1		8260C	Total/NA
Trichloroethene	88		1.0		ug/L	1		8260C	Total/NA

Client Sample ID: MW-1030-20131001-01 — Lab Sample ID: 480-46929-8

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-1030-20131001-01 (Continued) — Lab Sample ID: 480-46929-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	3.6		1.0		ug/L	1		8260C	Total/NA
1,1-Dichloroethene	2.2		1.0		ug/L	1		8260C	Total/NA
Methyl tert-butyl ether	38		1.0		ug/L	1		8260C	Total/NA
Tert-amyl methyl ether	7.9		5.0		ug/L	1		8260C	Total/NA
Trichloroethene	25		1.0		ug/L	1		8260C	Total/NA

Client Sample ID: MW-1023-20131001-01 — Lab Sample ID: 480-46929-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	6.6		1.0		ug/L	1		8260C	Total/NA
Trichloroethene	46		1.0		ug/L	1		8260C	Total/NA
1,4-Dioxane	0.81		0.20		ug/L	1		522 MOD	Total/NA

Client Sample ID: MW-1005-20131001-01 — Lab Sample ID: 480-46929-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	12		1.0		ug/L	1		8260C	Total/NA
Trichloroethene	14		1.0		ug/L	1		8260C	Total/NA

Client Sample ID: MW-1032-20131001-01 — Lab Sample ID: 480-46929-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	1.2		1.0		ug/L	1		8260C	Total/NA
1,1-Dichloroethene	1.7		1.0		ug/L	1		8260C	Total/NA
Methyl tert-butyl ether	94		1.0		ug/L	1		8260C	Total/NA
Tert-amyl methyl ether	17		5.0		ug/L	1		8260C	Total/NA
Trichloroethene	10		1.0		ug/L	1		8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-1019B-20131001-01
Date Collected: 10/01/13 12:25
Date Received: 10/02/13 04:00

Lab Sample ID: 480-46929-1
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			10/08/13 15:49	1
1,1,1-Trichloroethane	ND		1.0		ug/L			10/08/13 15:49	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			10/08/13 15:49	1
1,1,2-Trichloroethane	ND		1.0		ug/L			10/08/13 15:49	1
1,1-Dichloroethane	ND		1.0		ug/L			10/08/13 15:49	1
1,1-Dichloroethene	ND		1.0		ug/L			10/08/13 15:49	1
1,1-Dichloropropene	ND		1.0		ug/L			10/08/13 15:49	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			10/08/13 15:49	1
1,2,3-Trichloropropane	ND		1.0		ug/L			10/08/13 15:49	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			10/08/13 15:49	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			10/08/13 15:49	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			10/08/13 15:49	1
1,2-Dichlorobenzene	ND		1.0		ug/L			10/08/13 15:49	1
1,2-Dichloroethane	ND		1.0		ug/L			10/08/13 15:49	1
1,2-Dichloropropane	ND		1.0		ug/L			10/08/13 15:49	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			10/08/13 15:49	1
1,3-Dichlorobenzene	ND		1.0		ug/L			10/08/13 15:49	1
1,3-Dichloropropane	ND		1.0		ug/L			10/08/13 15:49	1
1,4-Dichlorobenzene	ND		1.0		ug/L			10/08/13 15:49	1
1,4-Dioxane	ND		50		ug/L			10/08/13 15:49	1
2,2-Dichloropropane	ND		1.0		ug/L			10/08/13 15:49	1
2-Butanone (MEK)	ND	*	10		ug/L			10/08/13 15:49	1
2-Chlorotoluene	ND	*	1.0		ug/L			10/08/13 15:49	1
2-Hexanone	ND		10		ug/L			10/08/13 15:49	1
4-Chlorotoluene	ND		1.0		ug/L			10/08/13 15:49	1
4-Isopropyltoluene	ND		1.0		ug/L			10/08/13 15:49	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			10/08/13 15:49	1
Acetone	ND		50		ug/L			10/08/13 15:49	1
Benzene	ND		1.0		ug/L			10/08/13 15:49	1
Bromobenzene	ND		1.0		ug/L			10/08/13 15:49	1
Bromoform	ND		1.0		ug/L			10/08/13 15:49	1
Bromomethane	ND		2.0		ug/L			10/08/13 15:49	1
Carbon disulfide	ND		10		ug/L			10/08/13 15:49	1
Carbon tetrachloride	ND		1.0		ug/L			10/08/13 15:49	1
Chlorobenzene	ND		1.0		ug/L			10/08/13 15:49	1
Chlorobromomethane	ND		1.0		ug/L			10/08/13 15:49	1
Chlorodibromomethane	ND		0.50		ug/L			10/08/13 15:49	1
Chloroethane	ND		2.0		ug/L			10/08/13 15:49	1
Chloroform	ND		1.0		ug/L			10/08/13 15:49	1
Chloromethane	ND		2.0		ug/L			10/08/13 15:49	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			10/08/13 15:49	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			10/08/13 15:49	1
Dichlorobromomethane	ND		0.50		ug/L			10/08/13 15:49	1
Dichlorodifluoromethane	ND	*	1.0		ug/L			10/08/13 15:49	1
Ethyl ether	ND		1.0		ug/L			10/08/13 15:49	1
Ethylbenzene	ND		1.0		ug/L			10/08/13 15:49	1
Ethylene Dibromide	ND		1.0		ug/L			10/08/13 15:49	1
Hexachlorobutadiene	ND		0.40		ug/L			10/08/13 15:49	1
Isopropyl ether	ND		10		ug/L			10/08/13 15:49	1

Client Sample ID: MW-1019B-20131001-01

Lab Sample ID: 480-46929-1

Date Collected: 10/01/13 12:25

Matrix: Water

Date Received: 10/02/13 04:00

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	ND		1.0		ug/L			10/08/13 15:49	1
Methyl tert-butyl ether	ND		1.0		ug/L			10/08/13 15:49	1
Methylene Chloride	ND		1.0		ug/L			10/08/13 15:49	1
m-Xylene & p-Xylene	ND		2.0		ug/L			10/08/13 15:49	1
Naphthalene	ND		5.0		ug/L			10/08/13 15:49	1
n-Butylbenzene	ND		1.0		ug/L			10/08/13 15:49	1
N-Propylbenzene	ND		1.0		ug/L			10/08/13 15:49	1
o-Xylene	ND		1.0		ug/L			10/08/13 15:49	1
sec-Butylbenzene	ND		1.0		ug/L			10/08/13 15:49	1
Styrene	ND		1.0		ug/L			10/08/13 15:49	1
Tert-amyl methyl ether	ND		5.0		ug/L			10/08/13 15:49	1
Tert-butyl ethyl ether	ND		5.0		ug/L			10/08/13 15:49	1
tert-Butylbenzene	ND		1.0		ug/L			10/08/13 15:49	1
Tetrachloroethene	ND		1.0		ug/L			10/08/13 15:49	1
Tetrahydrofuran	ND		10		ug/L			10/08/13 15:49	1
Toluene	ND		1.0		ug/L			10/08/13 15:49	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			10/08/13 15:49	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			10/08/13 15:49	1
Trichloroethene	ND		1.0		ug/L			10/08/13 15:49	1
Trichlorofluoromethane	ND		1.0		ug/L			10/08/13 15:49	1
Vinyl chloride	ND		1.0		ug/L			10/08/13 15:49	1
Dibromomethane	ND		1.0		ug/L			10/08/13 15:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*94*		*70 - 130*		*10/08/13 15:49*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 130*		*10/08/13 15:49*	*1*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*		*10/08/13 15:49*	*1*

Client Sample ID: MW-1017D-20131001-01

Lab Sample ID: 480-46929-2

Date Collected: 10/01/13 13:54

Matrix: Water

Date Received: 10/02/13 04:00

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			10/08/13 16:14	1
1,1,1-Trichloroethane	ND		1.0		ug/L			10/08/13 16:14	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			10/08/13 16:14	1
1,1,2-Trichloroethane	ND		1.0		ug/L			10/08/13 16:14	1
1,1-Dichloroethane	ND		1.0		ug/L			10/08/13 16:14	1
1,1-Dichloroethene	ND		1.0		ug/L			10/08/13 16:14	1
1,1-Dichloropropene	ND		1.0		ug/L			10/08/13 16:14	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			10/08/13 16:14	1
1,2,3-Trichloropropane	ND		1.0		ug/L			10/08/13 16:14	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			10/08/13 16:14	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			10/08/13 16:14	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			10/08/13 16:14	1
1,2-Dichlorobenzene	ND		1.0		ug/L			10/08/13 16:14	1
1,2-Dichloroethane	ND		1.0		ug/L			10/08/13 16:14	1
1,2-Dichloropropane	ND		1.0		ug/L			10/08/13 16:14	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			10/08/13 16:14	1

Client Sample ID: MW-1017D-20131001-01
Date Collected: 10/01/13 13:54
Date Received: 10/02/13 04:00

Lab Sample ID: 480-46929-2
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	ND		1.0		ug/L			10/08/13 16:14	1
1,3-Dichloropropane	ND		1.0		ug/L			10/08/13 16:14	1
1,4-Dichlorobenzene	ND		1.0		ug/L			10/08/13 16:14	1
1,4-Dioxane	ND		50		ug/L			10/08/13 16:14	1
2,2-Dichloropropane	ND		1.0		ug/L			10/08/13 16:14	1
2-Butanone (MEK)	ND	*	10		ug/L			10/08/13 16:14	1
2-Chlorotoluene	ND	*	1.0		ug/L			10/08/13 16:14	1
2-Hexanone	ND		10		ug/L			10/08/13 16:14	1
4-Chlorotoluene	ND		1.0		ug/L			10/08/13 16:14	1
4-Isopropyltoluene	ND		1.0		ug/L			10/08/13 16:14	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			10/08/13 16:14	1
Acetone	ND		50		ug/L			10/08/13 16:14	1
Benzene	ND		1.0		ug/L			10/08/13 16:14	1
Bromobenzene	ND		1.0		ug/L			10/08/13 16:14	1
Bromoform	ND		1.0		ug/L			10/08/13 16:14	1
Bromomethane	ND		2.0		ug/L			10/08/13 16:14	1
Carbon disulfide	ND		10		ug/L			10/08/13 16:14	1
Carbon tetrachloride	ND		1.0		ug/L			10/08/13 16:14	1
Chlorobenzene	ND		1.0		ug/L			10/08/13 16:14	1
Chlorobromomethane	ND		1.0		ug/L			10/08/13 16:14	1
Chlorodibromomethane	ND		0.50		ug/L			10/08/13 16:14	1
Chloroethane	ND		2.0		ug/L			10/08/13 16:14	1
Chloroform	ND		1.0		ug/L			10/08/13 16:14	1
Chloromethane	ND		2.0		ug/L			10/08/13 16:14	1
cis-1,2-Dichloroethene	**19**		1.0		ug/L			10/08/13 16:14	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			10/08/13 16:14	1
Dichlorobromomethane	ND		0.50		ug/L			10/08/13 16:14	1
Dichlorodifluoromethane	ND	*	1.0		ug/L			10/08/13 16:14	1
Ethyl ether	ND		1.0		ug/L			10/08/13 16:14	1
Ethylbenzene	ND		1.0		ug/L			10/08/13 16:14	1
Ethylene Dibromide	ND		1.0		ug/L			10/08/13 16:14	1
Hexachlorobutadiene	ND		0.40		ug/L			10/08/13 16:14	1
Isopropyl ether	ND		10		ug/L			10/08/13 16:14	1
Isopropylbenzene	ND		1.0		ug/L			10/08/13 16:14	1
Methyl tert-butyl ether	ND		1.0		ug/L			10/08/13 16:14	1
Methylene Chloride	ND		1.0		ug/L			10/08/13 16:14	1
m-Xylene & p-Xylene	ND		2.0		ug/L			10/08/13 16:14	1
Naphthalene	ND		5.0		ug/L			10/08/13 16:14	1
n-Butylbenzene	ND		1.0		ug/L			10/08/13 16:14	1
N-Propylbenzene	ND		1.0		ug/L			10/08/13 16:14	1
o-Xylene	ND		1.0		ug/L			10/08/13 16:14	1
sec-Butylbenzene	ND		1.0		ug/L			10/08/13 16:14	1
Styrene	ND		1.0		ug/L			10/08/13 16:14	1
Tert-amyl methyl ether	ND		5.0		ug/L			10/08/13 16:14	1
Tert-butyl ethyl ether	ND		5.0		ug/L			10/08/13 16:14	1
tert-Butylbenzene	ND		1.0		ug/L			10/08/13 16:14	1
Tetrachloroethene	ND		1.0		ug/L			10/08/13 16:14	1
Tetrahydrofuran	ND		10		ug/L			10/08/13 16:14	1
Toluene	ND		1.0		ug/L			10/08/13 16:14	1

Client Sample ID: MW-1017D-20131001-01

Lab Sample ID: 480-46929-2

Date Collected: 10/01/13 13:54

Matrix: Water

Date Received: 10/02/13 04:00

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	ND		1.0		ug/L			10/08/13 16:14	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			10/08/13 16:14	1
Trichloroethene	**53**		1.0		ug/L			10/08/13 16:14	1
Trichlorofluoromethane	ND		1.0		ug/L			10/08/13 16:14	1
Vinyl chloride	ND		1.0		ug/L			10/08/13 16:14	1
Dibromomethane	ND		1.0		ug/L			10/08/13 16:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*93*		*70 - 130*		*10/08/13 16:14*	*1*
1,2-Dichloroethane-d4 (Surr)	*96*		*70 - 130*		*10/08/13 16:14*	*1*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*		*10/08/13 16:14*	*1*

Client Sample ID: DUP-001-20131001-01

Lab Sample ID: 480-46929-3

Date Collected: 10/01/13 11:11

Matrix: Water

Date Received: 10/02/13 04:00

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			10/08/13 16:40	1
1,1,1-Trichloroethane	**68**		1.0		ug/L			10/08/13 16:40	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			10/08/13 16:40	1
1,1,2-Trichloroethane	ND		1.0		ug/L			10/08/13 16:40	1
1,1-Dichloroethane	**2.2**		1.0		ug/L			10/08/13 16:40	1
1,1-Dichloroethene	**4.8**		1.0		ug/L			10/08/13 16:40	1
1,1-Dichloropropene	ND		1.0		ug/L			10/08/13 16:40	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			10/08/13 16:40	1
1,2,3-Trichloropropane	ND		1.0		ug/L			10/08/13 16:40	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			10/08/13 16:40	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			10/08/13 16:40	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			10/08/13 16:40	1
1,2-Dichlorobenzene	ND		1.0		ug/L			10/08/13 16:40	1
1,2-Dichloroethane	ND		1.0		ug/L			10/08/13 16:40	1
1,2-Dichloropropane	ND		1.0		ug/L			10/08/13 16:40	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			10/08/13 16:40	1
1,3-Dichlorobenzene	ND		1.0		ug/L			10/08/13 16:40	1
1,3-Dichloropropane	ND		1.0		ug/L			10/08/13 16:40	1
1,4-Dichlorobenzene	ND		1.0		ug/L			10/08/13 16:40	1
1,4-Dioxane	ND		50		ug/L			10/08/13 16:40	1
2,2-Dichloropropane	ND		1.0		ug/L			10/08/13 16:40	1
2-Butanone (MEK)	ND	*	10		ug/L			10/08/13 16:40	1
2-Chlorotoluene	ND	*	1.0		ug/L			10/08/13 16:40	1
2-Hexanone	ND		10		ug/L			10/08/13 16:40	1
4-Chlorotoluene	ND		1.0		ug/L			10/08/13 16:40	1
4-Isopropyltoluene	ND		1.0		ug/L			10/08/13 16:40	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			10/08/13 16:40	1
Acetone	ND		50		ug/L			10/08/13 16:40	1
Benzene	ND		1.0		ug/L			10/08/13 16:40	1
Bromobenzene	ND		1.0		ug/L			10/08/13 16:40	1
Bromoform	ND		1.0		ug/L			10/08/13 16:40	1
Bromomethane	ND		2.0		ug/L			10/08/13 16:40	1

Client Sample ID: DUP-001-20131001-01

Lab Sample ID: 480-46929-3

Date Collected: 10/01/13 11:11

Matrix: Water

Date Received: 10/02/13 04:00

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	ND		10		ug/L			10/08/13 16:40	1
Carbon tetrachloride	ND		1.0		ug/L			10/08/13 16:40	1
Chlorobenzene	ND		1.0		ug/L			10/08/13 16:40	1
Chlorobromomethane	ND		1.0		ug/L			10/08/13 16:40	1
Chlorodibromomethane	ND		0.50		ug/L			10/08/13 16:40	1
Chloroethane	ND		2.0		ug/L			10/08/13 16:40	1
Chloroform	ND		1.0		ug/L			10/08/13 16:40	1
Chloromethane	ND		2.0		ug/L			10/08/13 16:40	1
cis-1,2-Dichloroethene	**1.4**		1.0		ug/L			10/08/13 16:40	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			10/08/13 16:40	1
Dichlorobromomethane	ND		0.50		ug/L			10/08/13 16:40	1
Dichlorodifluoromethane	ND	*	1.0		ug/L			10/08/13 16:40	1
Ethyl ether	ND		1.0		ug/L			10/08/13 16:40	1
Ethylbenzene	ND		1.0		ug/L			10/08/13 16:40	1
Ethylene Dibromide	ND		1.0		ug/L			10/08/13 16:40	1
Hexachlorobutadiene	ND		0.40		ug/L			10/08/13 16:40	1
Isopropyl ether	ND		10		ug/L			10/08/13 16:40	1
Isopropylbenzene	ND		1.0		ug/L			10/08/13 16:40	1
Methyl tert-butyl ether	**2.0**		1.0		ug/L			10/08/13 16:40	1
Methylene Chloride	ND		1.0		ug/L			10/08/13 16:40	1
m-Xylene & p-Xylene	ND		2.0		ug/L			10/08/13 16:40	1
Naphthalene	ND		5.0		ug/L			10/08/13 16:40	1
n-Butylbenzene	ND		1.0		ug/L			10/08/13 16:40	1
N-Propylbenzene	ND		1.0		ug/L			10/08/13 16:40	1
o-Xylene	ND		1.0		ug/L			10/08/13 16:40	1
sec-Butylbenzene	ND		1.0		ug/L			10/08/13 16:40	1
Styrene	ND		1.0		ug/L			10/08/13 16:40	1
Tert-amyl methyl ether	ND		5.0		ug/L			10/08/13 16:40	1
Tert-butyl ethyl ether	ND		5.0		ug/L			10/08/13 16:40	1
tert-Butylbenzene	ND		1.0		ug/L			10/08/13 16:40	1
Tetrachloroethene	ND		1.0		ug/L			10/08/13 16:40	1
Tetrahydrofuran	ND		10		ug/L			10/08/13 16:40	1
Toluene	ND		1.0		ug/L			10/08/13 16:40	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			10/08/13 16:40	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			10/08/13 16:40	1
Trichlorofluoromethane	ND		1.0		ug/L			10/08/13 16:40	1
Vinyl chloride	ND		1.0		ug/L			10/08/13 16:40	1
Dibromomethane	ND		1.0		ug/L			10/08/13 16:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*95*		*70 - 130*		*10/08/13 16:40*	*1*
1,2-Dichloroethane-d4 (Surr)	*97*		*70 - 130*		*10/08/13 16:40*	*1*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*		*10/08/13 16:40*	*1*

Method: 8260C - Volatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	**270**		4.0		ug/L			10/09/13 14:11	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*93*		*70 - 130*		*10/09/13 14:11*	*4*

Client Sample ID: DUP-001-20131001-01

Lab Sample ID: 480-46929-3

Date Collected: 10/01/13 11:11

Matrix: Water

Date Received: 10/02/13 04:00

Method: 8260C - Volatile Organic Compounds (GC/MS) - DL (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*95*		*70 - 130*		*10/09/13 14:11*	*4*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*		*10/09/13 14:11*	*4*

Client Sample ID: MW-1026D-20131001-01

Lab Sample ID: 480-46929-4

Date Collected: 10/01/13 13:40

Matrix: Water

Date Received: 10/02/13 04:00

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			10/08/13 17:05	1
1,1,1-Trichloroethane	ND		1.0		ug/L			10/08/13 17:05	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			10/08/13 17:05	1
1,1,2-Trichloroethane	ND		1.0		ug/L			10/08/13 17:05	1
1,1-Dichloroethane	ND		1.0		ug/L			10/08/13 17:05	1
1,1-Dichloroethene	ND		1.0		ug/L			10/08/13 17:05	1
1,1-Dichloropropene	ND		1.0		ug/L			10/08/13 17:05	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			10/08/13 17:05	1
1,2,3-Trichloropropane	ND		1.0		ug/L			10/08/13 17:05	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			10/08/13 17:05	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			10/08/13 17:05	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			10/08/13 17:05	1
1,2-Dichlorobenzene	ND		1.0		ug/L			10/08/13 17:05	1
1,2-Dichloroethane	ND		1.0		ug/L			10/08/13 17:05	1
1,2-Dichloropropane	ND		1.0		ug/L			10/08/13 17:05	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			10/08/13 17:05	1
1,3-Dichlorobenzene	ND		1.0		ug/L			10/08/13 17:05	1
1,3-Dichloropropane	ND		1.0		ug/L			10/08/13 17:05	1
1,4-Dichlorobenzene	ND		1.0		ug/L			10/08/13 17:05	1
1,4-Dioxane	ND		50		ug/L			10/08/13 17:05	1
2,2-Dichloropropane	ND		1.0		ug/L			10/08/13 17:05	1
2-Butanone (MEK)	ND	*	10		ug/L			10/08/13 17:05	1
2-Chlorotoluene	ND	*	1.0		ug/L			10/08/13 17:05	1
2-Hexanone	ND		10		ug/L			10/08/13 17:05	1
4-Chlorotoluene	ND		1.0		ug/L			10/08/13 17:05	1
4-Isopropyltoluene	ND		1.0		ug/L			10/08/13 17:05	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			10/08/13 17:05	1
Acetone	ND		50		ug/L			10/08/13 17:05	1
Benzene	ND		1.0		ug/L			10/08/13 17:05	1
Bromobenzene	ND		1.0		ug/L			10/08/13 17:05	1
Bromoform	ND		1.0		ug/L			10/08/13 17:05	1
Bromomethane	ND		2.0		ug/L			10/08/13 17:05	1
Carbon disulfide	ND		10		ug/L			10/08/13 17:05	1
Carbon tetrachloride	ND		1.0		ug/L			10/08/13 17:05	1
Chlorobenzene	ND		1.0		ug/L			10/08/13 17:05	1
Chlorobromomethane	ND		1.0		ug/L			10/08/13 17:05	1
Chlorodibromomethane	ND		0.50		ug/L			10/08/13 17:05	1
Chloroethane	ND		2.0		ug/L			10/08/13 17:05	1
Chloroform	ND		1.0		ug/L			10/08/13 17:05	1
Chloromethane	ND		2.0		ug/L			10/08/13 17:05	1

Client Sample ID: MW-1026D-20131001-01

Lab Sample ID: 480-46929-4

Date Collected: 10/01/13 13:40

Matrix: Water

Date Received: 10/02/13 04:00

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	**11**		1.0		ug/L			10/08/13 17:05	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			10/08/13 17:05	1
Dichlorobromomethane	ND		0.50		ug/L			10/08/13 17:05	1
Dichlorodifluoromethane	ND	*	1.0		ug/L			10/08/13 17:05	1
Ethyl ether	ND		1.0		ug/L			10/08/13 17:05	1
Ethylbenzene	ND		1.0		ug/L			10/08/13 17:05	1
Ethylene Dibromide	ND		1.0		ug/L			10/08/13 17:05	1
Hexachlorobutadiene	ND		0.40		ug/L			10/08/13 17:05	1
Isopropyl ether	ND		10		ug/L			10/08/13 17:05	1
Isopropylbenzene	ND		1.0		ug/L			10/08/13 17:05	1
Methyl tert-butyl ether	ND		1.0		ug/L			10/08/13 17:05	1
Methylene Chloride	ND		1.0		ug/L			10/08/13 17:05	1
m-Xylene & p-Xylene	ND		2.0		ug/L			10/08/13 17:05	1
Naphthalene	ND		5.0		ug/L			10/08/13 17:05	1
n-Butylbenzene	ND		1.0		ug/L			10/08/13 17:05	1
N-Propylbenzene	ND		1.0		ug/L			10/08/13 17:05	1
o-Xylene	ND		1.0		ug/L			10/08/13 17:05	1
sec-Butylbenzene	ND		1.0		ug/L			10/08/13 17:05	1
Styrene	ND		1.0		ug/L			10/08/13 17:05	1
Tert-amyl methyl ether	ND		5.0		ug/L			10/08/13 17:05	1
Tert-butyl ethyl ether	ND		5.0		ug/L			10/08/13 17:05	1
tert-Butylbenzene	ND		1.0		ug/L			10/08/13 17:05	1
Tetrachloroethene	ND		1.0		ug/L			10/08/13 17:05	1
Tetrahydrofuran	ND		10		ug/L			10/08/13 17:05	1
Toluene	ND		1.0		ug/L			10/08/13 17:05	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			10/08/13 17:05	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			10/08/13 17:05	1
Trichloroethene	**89**		1.0		ug/L			10/08/13 17:05	1
Trichlorofluoromethane	ND		1.0		ug/L			10/08/13 17:05	1
Vinyl chloride	ND		1.0		ug/L			10/08/13 17:05	1
Dibromomethane	ND		1.0		ug/L			10/08/13 17:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*95*		*70 - 130*		*10/08/13 17:05*	*1*
1,2-Dichloroethane-d4 (Surr)	*97*		*70 - 130*		*10/08/13 17:05*	*1*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*		*10/08/13 17:05*	*1*

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	**0.39**		0.20		ug/L		10/07/13 10:29	10/08/13 00:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*73*		*70 - 130*	*10/07/13 10:29*	*10/08/13 00:06*	*1*

Client Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-46929-1

Client Sample ID: MW-1020-20131001-01

Lab Sample ID: 480-46929-5

Date Collected: 10/01/13 12:15

Matrix: Water

Date Received: 10/02/13 04:00

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			10/08/13 17:30	1
1,1,1-Trichloroethane	**67**		1.0		ug/L			10/08/13 17:30	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			10/08/13 17:30	1
1,1,2-Trichloroethane	ND		1.0		ug/L			10/08/13 17:30	1
1,1-Dichloroethane	**2.1**		1.0		ug/L			10/08/13 17:30	1
1,1-Dichloroethene	**4.7**		1.0		ug/L			10/08/13 17:30	1
1,1-Dichloropropene	ND		1.0		ug/L			10/08/13 17:30	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			10/08/13 17:30	1
1,2,3-Trichloropropane	ND		1.0		ug/L			10/08/13 17:30	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			10/08/13 17:30	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			10/08/13 17:30	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			10/08/13 17:30	1
1,2-Dichlorobenzene	ND		1.0		ug/L			10/08/13 17:30	1
1,2-Dichloroethane	ND		1.0		ug/L			10/08/13 17:30	1
1,2-Dichloropropane	ND		1.0		ug/L			10/08/13 17:30	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			10/08/13 17:30	1
1,3-Dichlorobenzene	ND		1.0		ug/L			10/08/13 17:30	1
1,3-Dichloropropane	ND		1.0		ug/L			10/08/13 17:30	1
1,4-Dichlorobenzene	ND		1.0		ug/L			10/08/13 17:30	1
1,4-Dioxane	ND		50		ug/L			10/08/13 17:30	1
2,2-Dichloropropane	ND		1.0		ug/L			10/08/13 17:30	1
2-Butanone (MEK)	ND	*	10		ug/L			10/08/13 17:30	1
2-Chlorotoluene	ND	*	1.0		ug/L			10/08/13 17:30	1
2-Hexanone	ND		10		ug/L			10/08/13 17:30	1
4-Chlorotoluene	ND		1.0		ug/L			10/08/13 17:30	1
4-Isopropyltoluene	ND		1.0		ug/L			10/08/13 17:30	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			10/08/13 17:30	1
Acetone	ND		50		ug/L			10/08/13 17:30	1
Benzene	ND		1.0		ug/L			10/08/13 17:30	1
Bromobenzene	ND		1.0		ug/L			10/08/13 17:30	1
Bromoform	ND		1.0		ug/L			10/08/13 17:30	1
Bromomethane	ND		2.0		ug/L			10/08/13 17:30	1
Carbon disulfide	ND		10		ug/L			10/08/13 17:30	1
Carbon tetrachloride	ND		1.0		ug/L			10/08/13 17:30	1
Chlorobenzene	ND		1.0		ug/L			10/08/13 17:30	1
Chlorobromomethane	ND		1.0		ug/L			10/08/13 17:30	1
Chlorodibromomethane	ND		0.50		ug/L			10/08/13 17:30	1
Chloroethane	ND		2.0		ug/L			10/08/13 17:30	1
Chloroform	ND		1.0		ug/L			10/08/13 17:30	1
Chloromethane	ND		2.0		ug/L			10/08/13 17:30	1
cis-1,2-Dichloroethene	**1.3**		1.0		ug/L			10/08/13 17:30	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			10/08/13 17:30	1
Dichlorobromomethane	ND		0.50		ug/L			10/08/13 17:30	1
Dichlorodifluoromethane	ND	*	1.0		ug/L			10/08/13 17:30	1
Ethyl ether	ND		1.0		ug/L			10/08/13 17:30	1
Ethylbenzene	ND		1.0		ug/L			10/08/13 17:30	1
Ethylene Dibromide	ND		1.0		ug/L			10/08/13 17:30	1
Hexachlorobutadiene	ND		0.40		ug/L			10/08/13 17:30	1
Isopropyl ether	ND		10		ug/L			10/08/13 17:30	1

Client Sample ID: MW-1020-20131001-01

Lab Sample ID: 480-46929-5

Date Collected: 10/01/13 12:15

Matrix: Water

Date Received: 10/02/13 04:00

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	ND		1.0		ug/L			10/08/13 17:30	1
Methyl tert-butyl ether	**2.0**		1.0		ug/L			10/08/13 17:30	1
Methylene Chloride	ND		1.0		ug/L			10/08/13 17:30	1
m-Xylene & p-Xylene	ND		2.0		ug/L			10/08/13 17:30	1
Naphthalene	ND		5.0		ug/L			10/08/13 17:30	1
n-Butylbenzene	ND		1.0		ug/L			10/08/13 17:30	1
N-Propylbenzene	ND		1.0		ug/L			10/08/13 17:30	1
o-Xylene	ND		1.0		ug/L			10/08/13 17:30	1
sec-Butylbenzene	ND		1.0		ug/L			10/08/13 17:30	1
Styrene	ND		1.0		ug/L			10/08/13 17:30	1
Tert-amyl methyl ether	ND		5.0		ug/L			10/08/13 17:30	1
Tert-butyl ethyl ether	ND		5.0		ug/L			10/08/13 17:30	1
tert-Butylbenzene	ND		1.0		ug/L			10/08/13 17:30	1
Tetrachloroethene	ND		1.0		ug/L			10/08/13 17:30	1
Tetrahydrofuran	ND		10		ug/L			10/08/13 17:30	1
Toluene	ND		1.0		ug/L			10/08/13 17:30	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			10/08/13 17:30	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			10/08/13 17:30	1
Trichlorofluoromethane	ND		1.0		ug/L			10/08/13 17:30	1
Vinyl chloride	ND		1.0		ug/L			10/08/13 17:30	1
Dibromomethane	ND		1.0		ug/L			10/08/13 17:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*96*		*70 - 130*		*10/08/13 17:30*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 130*		*10/08/13 17:30*	*1*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*		*10/08/13 17:30*	*1*

Method: 8260C - Volatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	**280**		4.0		ug/L			10/09/13 14:36	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*93*		*70 - 130*		*10/09/13 14:36*	*4*
1,2-Dichloroethane-d4 (Surr)	*96*		*70 - 130*		*10/09/13 14:36*	*4*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*		*10/09/13 14:36*	*4*

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	**0.46**		0.20		ug/L		10/07/13 10:29	10/08/13 00:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*74*		*70 - 130*	*10/07/13 10:29*	*10/08/13 00:28*	*1*

Client Sample ID: TB-001-20131001-01

Lab Sample ID: 480-46929-6

Date Collected: 10/01/13 00:00

Matrix: Water

Date Received: 10/02/13 04:00

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			10/09/13 15:01	1
1,1,1-Trichloroethane	ND		1.0		ug/L			10/09/13 15:01	1

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-46929-1

Client Sample ID: TB-001-20131001-01
Date Collected: 10/01/13 00:00
Date Received: 10/02/13 04:00

Lab Sample ID: 480-46929-6
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			10/09/13 15:01	1
1,1,2-Trichloroethane	ND		1.0		ug/L			10/09/13 15:01	1
1,1-Dichloroethane	ND		1.0		ug/L			10/09/13 15:01	1
1,1-Dichloroethene	ND		1.0		ug/L			10/09/13 15:01	1
1,1-Dichloropropene	ND		1.0		ug/L			10/09/13 15:01	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			10/09/13 15:01	1
1,2,3-Trichloropropane	ND		1.0		ug/L			10/09/13 15:01	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			10/09/13 15:01	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			10/09/13 15:01	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			10/09/13 15:01	1
1,2-Dichlorobenzene	ND		1.0		ug/L			10/09/13 15:01	1
1,2-Dichloroethane	ND		1.0		ug/L			10/09/13 15:01	1
1,2-Dichloropropane	ND		1.0		ug/L			10/09/13 15:01	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			10/09/13 15:01	1
1,3-Dichlorobenzene	ND		1.0		ug/L			10/09/13 15:01	1
1,3-Dichloropropane	ND		1.0		ug/L			10/09/13 15:01	1
1,4-Dichlorobenzene	ND		1.0		ug/L			10/09/13 15:01	1
1,4-Dioxane	ND		50		ug/L			10/09/13 15:01	1
2,2-Dichloropropane	ND		1.0		ug/L			10/09/13 15:01	1
2-Butanone (MEK)	ND	*	10		ug/L			10/09/13 15:01	1
2-Chlorotoluene	ND		1.0		ug/L			10/09/13 15:01	1
2-Hexanone	ND		10		ug/L			10/09/13 15:01	1
4-Chlorotoluene	ND		1.0		ug/L			10/09/13 15:01	1
4-Isopropyltoluene	ND		1.0		ug/L			10/09/13 15:01	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			10/09/13 15:01	1
Acetone	ND		50		ug/L			10/09/13 15:01	1
Benzene	ND		1.0		ug/L			10/09/13 15:01	1
Bromobenzene	ND		1.0		ug/L			10/09/13 15:01	1
Bromoform	ND		1.0		ug/L			10/09/13 15:01	1
Bromomethane	ND		2.0		ug/L			10/09/13 15:01	1
Carbon disulfide	ND		10		ug/L			10/09/13 15:01	1
Carbon tetrachloride	ND		1.0		ug/L			10/09/13 15:01	1
Chlorobenzene	ND		1.0		ug/L			10/09/13 15:01	1
Chlorobromomethane	ND		1.0		ug/L			10/09/13 15:01	1
Chlorodibromomethane	ND		0.50		ug/L			10/09/13 15:01	1
Chloroethane	ND		2.0		ug/L			10/09/13 15:01	1
Chloroform	ND		1.0		ug/L			10/09/13 15:01	1
Chloromethane	ND		2.0		ug/L			10/09/13 15:01	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			10/09/13 15:01	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			10/09/13 15:01	1
Dichlorobromomethane	ND		0.50		ug/L			10/09/13 15:01	1
Dichlorodifluoromethane	ND	*	1.0		ug/L			10/09/13 15:01	1
Ethyl ether	ND		1.0		ug/L			10/09/13 15:01	1
Ethylbenzene	ND		1.0		ug/L			10/09/13 15:01	1
Ethylene Dibromide	ND		1.0		ug/L			10/09/13 15:01	1
Hexachlorobutadiene	ND		0.40		ug/L			10/09/13 15:01	1
Isopropyl ether	ND		10		ug/L			10/09/13 15:01	1
Isopropylbenzene	ND		1.0		ug/L			10/09/13 15:01	1
Methyl tert-butyl ether	ND		1.0		ug/L			10/09/13 15:01	1

Client Sample ID: TB-001-20131001-01

Lab Sample ID: 480-46929-6

Date Collected: 10/01/13 00:00

Matrix: Water

Date Received: 10/02/13 04:00

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		1.0		ug/L			10/09/13 15:01	1
m-Xylene & p-Xylene	ND		2.0		ug/L			10/09/13 15:01	1
Naphthalene	ND		5.0		ug/L			10/09/13 15:01	1
n-Butylbenzene	ND		1.0		ug/L			10/09/13 15:01	1
N-Propylbenzene	ND		1.0		ug/L			10/09/13 15:01	1
o-Xylene	ND		1.0		ug/L			10/09/13 15:01	1
sec-Butylbenzene	ND		1.0		ug/L			10/09/13 15:01	1
Styrene	ND		1.0		ug/L			10/09/13 15:01	1
Tert-amyl methyl ether	ND		5.0		ug/L			10/09/13 15:01	1
Tert-butyl ethyl ether	ND		5.0		ug/L			10/09/13 15:01	1
tert-Butylbenzene	ND		1.0		ug/L			10/09/13 15:01	1
Tetrachloroethene	ND		1.0		ug/L			10/09/13 15:01	1
Tetrahydrofuran	ND		10		ug/L			10/09/13 15:01	1
Toluene	ND		1.0		ug/L			10/09/13 15:01	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			10/09/13 15:01	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			10/09/13 15:01	1
Trichloroethene	ND		1.0		ug/L			10/09/13 15:01	1
Trichlorofluoromethane	ND		1.0		ug/L			10/09/13 15:01	1
Vinyl chloride	ND		1.0		ug/L			10/09/13 15:01	1
Dibromomethane	ND		1.0		ug/L			10/09/13 15:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*96*		*70 - 130*		*10/09/13 15:01*	*1*
1,2-Dichloroethane-d4 (Surr)	*96*		*70 - 130*		*10/09/13 15:01*	*1*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*		*10/09/13 15:01*	*1*

Client Sample ID: MW-1031-20131001-01

Lab Sample ID: 480-46929-7

Date Collected: 10/01/13 13:35

Matrix: Water

Date Received: 10/02/13 04:00

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			10/08/13 18:20	1
1,1,1-Trichloroethane	**5.4**		1.0		ug/L			10/08/13 18:20	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			10/08/13 18:20	1
1,1,2-Trichloroethane	ND		1.0		ug/L			10/08/13 18:20	1
1,1-Dichloroethane	**2.2**		1.0		ug/L			10/08/13 18:20	1
1,1-Dichloroethene	**6.2**		1.0		ug/L			10/08/13 18:20	1
1,1-Dichloropropene	ND		1.0		ug/L			10/08/13 18:20	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			10/08/13 18:20	1
1,2,3-Trichloropropane	ND		1.0		ug/L			10/08/13 18:20	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			10/08/13 18:20	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			10/08/13 18:20	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			10/08/13 18:20	1
1,2-Dichlorobenzene	ND		1.0		ug/L			10/08/13 18:20	1
1,2-Dichloroethane	ND		1.0		ug/L			10/08/13 18:20	1
1,2-Dichloropropane	ND		1.0		ug/L			10/08/13 18:20	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			10/08/13 18:20	1
1,3-Dichlorobenzene	ND		1.0		ug/L			10/08/13 18:20	1
1,3-Dichloropropane	ND		1.0		ug/L			10/08/13 18:20	1

Client Sample ID: MW-1031-20131001-01
Date Collected: 10/01/13 13:35
Date Received: 10/02/13 04:00

Lab Sample ID: 480-46929-7
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	ND		1.0		ug/L			10/08/13 18:20	1
1,4-Dioxane	ND		50		ug/L			10/08/13 18:20	1
2,2-Dichloropropane	ND		1.0		ug/L			10/08/13 18:20	1
2-Butanone (MEK)	ND	*	10		ug/L			10/08/13 18:20	1
2-Chlorotoluene	ND	*	1.0		ug/L			10/08/13 18:20	1
2-Hexanone	ND		10		ug/L			10/08/13 18:20	1
4-Chlorotoluene	ND		1.0		ug/L			10/08/13 18:20	1
4-Isopropyltoluene	ND		1.0		ug/L			10/08/13 18:20	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			10/08/13 18:20	1
Acetone	ND		50		ug/L			10/08/13 18:20	1
Benzene	ND		1.0		ug/L			10/08/13 18:20	1
Bromobenzene	ND		1.0		ug/L			10/08/13 18:20	1
Bromoform	ND		1.0		ug/L			10/08/13 18:20	1
Bromomethane	ND		2.0		ug/L			10/08/13 18:20	1
Carbon disulfide	ND		10		ug/L			10/08/13 18:20	1
Carbon tetrachloride	ND		1.0		ug/L			10/08/13 18:20	1
Chlorobenzene	ND		1.0		ug/L			10/08/13 18:20	1
Chlorobromomethane	ND		1.0		ug/L			10/08/13 18:20	1
Chlorodibromomethane	ND		0.50		ug/L			10/08/13 18:20	1
Chloroethane	ND		2.0		ug/L			10/08/13 18:20	1
Chloroform	ND		1.0		ug/L			10/08/13 18:20	1
Chloromethane	ND		2.0		ug/L			10/08/13 18:20	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			10/08/13 18:20	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			10/08/13 18:20	1
Dichlorobromomethane	ND		0.50		ug/L			10/08/13 18:20	1
Dichlorodifluoromethane	ND	*	1.0		ug/L			10/08/13 18:20	1
Ethyl ether	ND		1.0		ug/L			10/08/13 18:20	1
Ethylbenzene	ND		1.0		ug/L			10/08/13 18:20	1
Ethylene Dibromide	ND		1.0		ug/L			10/08/13 18:20	1
Hexachlorobutadiene	ND		0.40		ug/L			10/08/13 18:20	1
Isopropyl ether	ND		10		ug/L			10/08/13 18:20	1
Isopropylbenzene	ND		1.0		ug/L			10/08/13 18:20	1
Methyl tert-butyl ether	**64**		1.0		ug/L			10/08/13 18:20	1
Methylene Chloride	ND		1.0		ug/L			10/08/13 18:20	1
m-Xylene & p-Xylene	ND		2.0		ug/L			10/08/13 18:20	1
Naphthalene	ND		5.0		ug/L			10/08/13 18:20	1
n-Butylbenzene	ND		1.0		ug/L			10/08/13 18:20	1
N-Propylbenzene	ND		1.0		ug/L			10/08/13 18:20	1
o-Xylene	ND		1.0		ug/L			10/08/13 18:20	1
sec-Butylbenzene	ND		1.0		ug/L			10/08/13 18:20	1
Styrene	ND		1.0		ug/L			10/08/13 18:20	1
Tert-amyl methyl ether	**18**		5.0		ug/L			10/08/13 18:20	1
Tert-butyl ethyl ether	ND		5.0		ug/L			10/08/13 18:20	1
tert-Butylbenzene	ND		1.0		ug/L			10/08/13 18:20	1
Tetrachloroethene	ND		1.0		ug/L			10/08/13 18:20	1
Tetrahydrofuran	ND		10		ug/L			10/08/13 18:20	1
Toluene	ND		1.0		ug/L			10/08/13 18:20	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			10/08/13 18:20	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			10/08/13 18:20	1

Client Sample ID: MW-1031-20131001-01

Lab Sample ID: 480-46929-7

Date Collected: 10/01/13 13:35

Matrix: Water

Date Received: 10/02/13 04:00

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	**88**		1.0		ug/L			10/08/13 18:20	1
Trichlorofluoromethane	ND		1.0		ug/L			10/08/13 18:20	1
Vinyl chloride	ND		1.0		ug/L			10/08/13 18:20	1
Dibromomethane	ND		1.0		ug/L			10/08/13 18:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*94*		*70 - 130*		*10/08/13 18:20*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 130*		*10/08/13 18:20*	*1*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*		*10/08/13 18:20*	*1*

Client Sample ID: MW-1030-20131001-01

Lab Sample ID: 480-46929-8

Date Collected: 10/01/13 12:15

Matrix: Water

Date Received: 10/02/13 04:00

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			10/08/13 18:46	1
1,1,1-Trichloroethane	**3.6**		1.0		ug/L			10/08/13 18:46	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			10/08/13 18:46	1
1,1,2-Trichloroethane	ND		1.0		ug/L			10/08/13 18:46	1
1,1-Dichloroethane	ND		1.0		ug/L			10/08/13 18:46	1
1,1-Dichloroethene	**2.2**		1.0		ug/L			10/08/13 18:46	1
1,1-Dichloropropene	ND		1.0		ug/L			10/08/13 18:46	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			10/08/13 18:46	1
1,2,3-Trichloropropane	ND		1.0		ug/L			10/08/13 18:46	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			10/08/13 18:46	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			10/08/13 18:46	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			10/08/13 18:46	1
1,2-Dichlorobenzene	ND		1.0		ug/L			10/08/13 18:46	1
1,2-Dichloroethane	ND		1.0		ug/L			10/08/13 18:46	1
1,2-Dichloropropane	ND		1.0		ug/L			10/08/13 18:46	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			10/08/13 18:46	1
1,3-Dichlorobenzene	ND		1.0		ug/L			10/08/13 18:46	1
1,3-Dichloropropane	ND		1.0		ug/L			10/08/13 18:46	1
1,4-Dichlorobenzene	ND		1.0		ug/L			10/08/13 18:46	1
1,4-Dioxane	ND		50		ug/L			10/08/13 18:46	1
2,2-Dichloropropane	ND		1.0		ug/L			10/08/13 18:46	1
2-Butanone (MEK)	ND	*	10		ug/L			10/08/13 18:46	1
2-Chlorotoluene	ND	*	1.0		ug/L			10/08/13 18:46	1
2-Hexanone	ND		10		ug/L			10/08/13 18:46	1
4-Chlorotoluene	ND		1.0		ug/L			10/08/13 18:46	1
4-Isopropyltoluene	ND		1.0		ug/L			10/08/13 18:46	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			10/08/13 18:46	1
Acetone	ND		50		ug/L			10/08/13 18:46	1
Benzene	ND		1.0		ug/L			10/08/13 18:46	1
Bromobenzene	ND		1.0		ug/L			10/08/13 18:46	1
Bromoform	ND		1.0		ug/L			10/08/13 18:46	1
Bromomethane	ND		2.0		ug/L			10/08/13 18:46	1
Carbon disulfide	ND		10		ug/L			10/08/13 18:46	1
Carbon tetrachloride	ND		1.0		ug/L			10/08/13 18:46	1

Client Sample ID: MW-1030-20131001-01

Lab Sample ID: 480-46929-8

Date Collected: 10/01/13 12:15

Matrix: Water

Date Received: 10/02/13 04:00

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	ND		1.0		ug/L			10/08/13 18:46	1
Chlorobromomethane	ND		1.0		ug/L			10/08/13 18:46	1
Chlorodibromomethane	ND		0.50		ug/L			10/08/13 18:46	1
Chloroethane	ND		2.0		ug/L			10/08/13 18:46	1
Chloroform	ND		1.0		ug/L			10/08/13 18:46	1
Chloromethane	ND		2.0		ug/L			10/08/13 18:46	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			10/08/13 18:46	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			10/08/13 18:46	1
Dichlorobromomethane	ND		0.50		ug/L			10/08/13 18:46	1
Dichlorodifluoromethane	ND	*	1.0		ug/L			10/08/13 18:46	1
Ethyl ether	ND		1.0		ug/L			10/08/13 18:46	1
Ethylbenzene	ND		1.0		ug/L			10/08/13 18:46	1
Ethylene Dibromide	ND		1.0		ug/L			10/08/13 18:46	1
Hexachlorobutadiene	ND		0.40		ug/L			10/08/13 18:46	1
Isopropyl ether	ND		10		ug/L			10/08/13 18:46	1
Isopropylbenzene	ND		1.0		ug/L			10/08/13 18:46	1
Methyl tert-butyl ether	**38**		1.0		ug/L			10/08/13 18:46	1
Methylene Chloride	ND		1.0		ug/L			10/08/13 18:46	1
m-Xylene & p-Xylene	ND		2.0		ug/L			10/08/13 18:46	1
Naphthalene	ND		5.0		ug/L			10/08/13 18:46	1
n-Butylbenzene	ND		1.0		ug/L			10/08/13 18:46	1
N-Propylbenzene	ND		1.0		ug/L			10/08/13 18:46	1
o-Xylene	ND		1.0		ug/L			10/08/13 18:46	1
sec-Butylbenzene	ND		1.0		ug/L			10/08/13 18:46	1
Styrene	ND		1.0		ug/L			10/08/13 18:46	1
Tert-amyl methyl ether	**7.9**		5.0		ug/L			10/08/13 18:46	1
Tert-butyl ethyl ether	ND		5.0		ug/L			10/08/13 18:46	1
tert-Butylbenzene	ND		1.0		ug/L			10/08/13 18:46	1
Tetrachloroethene	ND		1.0		ug/L			10/08/13 18:46	1
Tetrahydrofuran	ND		10		ug/L			10/08/13 18:46	1
Toluene	ND		1.0		ug/L			10/08/13 18:46	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			10/08/13 18:46	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			10/08/13 18:46	1
Trichloroethene	**25**		1.0		ug/L			10/08/13 18:46	1
Trichlorofluoromethane	ND		1.0		ug/L			10/08/13 18:46	1
Vinyl chloride	ND		1.0		ug/L			10/08/13 18:46	1
Dibromomethane	ND		1.0		ug/L			10/08/13 18:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*94*		*70 - 130*		*10/08/13 18:46*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 130*		*10/08/13 18:46*	*1*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*		*10/08/13 18:46*	*1*

Client Sample ID: MW-1023-20131001-01

Lab Sample ID: 480-46929-9

Date Collected: 10/01/13 14:35

Matrix: Water

Date Received: 10/02/13 04:00

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			10/08/13 19:11	1

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-46929-1

Client Sample ID: MW-1023-20131001-01
Date Collected: 10/01/13 14:35
Date Received: 10/02/13 04:00

Lab Sample ID: 480-46929-9
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0		ug/L			10/08/13 19:11	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			10/08/13 19:11	1
1,1,2-Trichloroethane	ND		1.0		ug/L			10/08/13 19:11	1
1,1-Dichloroethane	ND		1.0		ug/L			10/08/13 19:11	1
1,1-Dichloroethene	ND		1.0		ug/L			10/08/13 19:11	1
1,1-Dichloropropene	ND		1.0		ug/L			10/08/13 19:11	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			10/08/13 19:11	1
1,2,3-Trichloropropane	ND		1.0		ug/L			10/08/13 19:11	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			10/08/13 19:11	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			10/08/13 19:11	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			10/08/13 19:11	1
1,2-Dichlorobenzene	ND		1.0		ug/L			10/08/13 19:11	1
1,2-Dichloroethane	ND		1.0		ug/L			10/08/13 19:11	1
1,2-Dichloropropane	ND		1.0		ug/L			10/08/13 19:11	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			10/08/13 19:11	1
1,3-Dichlorobenzene	ND		1.0		ug/L			10/08/13 19:11	1
1,3-Dichloropropane	ND		1.0		ug/L			10/08/13 19:11	1
1,4-Dichlorobenzene	ND		1.0		ug/L			10/08/13 19:11	1
1,4-Dioxane	ND		50		ug/L			10/08/13 19:11	1
2,2-Dichloropropane	ND		1.0		ug/L			10/08/13 19:11	1
2-Butanone (MEK)	ND	*	10		ug/L			10/08/13 19:11	1
2-Chlorotoluene	ND	*	1.0		ug/L			10/08/13 19:11	1
2-Hexanone	ND		10		ug/L			10/08/13 19:11	1
4-Chlorotoluene	ND		1.0		ug/L			10/08/13 19:11	1
4-Isopropyltoluene	ND		1.0		ug/L			10/08/13 19:11	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			10/08/13 19:11	1
Acetone	ND		50		ug/L			10/08/13 19:11	1
Benzene	ND		1.0		ug/L			10/08/13 19:11	1
Bromobenzene	ND		1.0		ug/L			10/08/13 19:11	1
Bromoform	ND		1.0		ug/L			10/08/13 19:11	1
Bromomethane	ND		2.0		ug/L			10/08/13 19:11	1
Carbon disulfide	ND		10		ug/L			10/08/13 19:11	1
Carbon tetrachloride	ND		1.0		ug/L			10/08/13 19:11	1
Chlorobenzene	ND		1.0		ug/L			10/08/13 19:11	1
Chlorobromomethane	ND		1.0		ug/L			10/08/13 19:11	1
Chlorodibromomethane	ND		0.50		ug/L			10/08/13 19:11	1
Chloroethane	ND		2.0		ug/L			10/08/13 19:11	1
Chloroform	ND		1.0		ug/L			10/08/13 19:11	1
Chloromethane	ND		2.0		ug/L			10/08/13 19:11	1
cis-1,2-Dichloroethene	**6.6**		1.0		ug/L			10/08/13 19:11	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			10/08/13 19:11	1
Dichlorobromomethane	ND		0.50		ug/L			10/08/13 19:11	1
Dichlorodifluoromethane	ND	*	1.0		ug/L			10/08/13 19:11	1
Ethyl ether	ND		1.0		ug/L			10/08/13 19:11	1
Ethylbenzene	ND		1.0		ug/L			10/08/13 19:11	1
Ethylene Dibromide	ND		1.0		ug/L			10/08/13 19:11	1
Hexachlorobutadiene	ND		0.40		ug/L			10/08/13 19:11	1
Isopropyl ether	ND		10		ug/L			10/08/13 19:11	1
Isopropylbenzene	ND		1.0		ug/L			10/08/13 19:11	1

Client Sample ID: MW-1023-20131001-01

Lab Sample ID: 480-46929-9

Date Collected: 10/01/13 14:35

Matrix: Water

Date Received: 10/02/13 04:00

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		1.0		ug/L			10/08/13 19:11	1
Methylene Chloride	ND		1.0		ug/L			10/08/13 19:11	1
m-Xylene & p-Xylene	ND		2.0		ug/L			10/08/13 19:11	1
Naphthalene	ND		5.0		ug/L			10/08/13 19:11	1
n-Butylbenzene	ND		1.0		ug/L			10/08/13 19:11	1
N-Propylbenzene	ND		1.0		ug/L			10/08/13 19:11	1
o-Xylene	ND		1.0		ug/L			10/08/13 19:11	1
sec-Butylbenzene	ND		1.0		ug/L			10/08/13 19:11	1
Styrene	ND		1.0		ug/L			10/08/13 19:11	1
Tert-amyl methyl ether	ND		5.0		ug/L			10/08/13 19:11	1
Tert-butyl ethyl ether	ND		5.0		ug/L			10/08/13 19:11	1
tert-Butylbenzene	ND		1.0		ug/L			10/08/13 19:11	1
Tetrachloroethene	ND		1.0		ug/L			10/08/13 19:11	1
Tetrahydrofuran	ND		10		ug/L			10/08/13 19:11	1
Toluene	ND		1.0		ug/L			10/08/13 19:11	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			10/08/13 19:11	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			10/08/13 19:11	1
Trichloroethene	**46**		1.0		ug/L			10/08/13 19:11	1
Trichlorofluoromethane	ND		1.0		ug/L			10/08/13 19:11	1
Vinyl chloride	ND		1.0		ug/L			10/08/13 19:11	1
Dibromomethane	ND		1.0		ug/L			10/08/13 19:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*97*		*70 - 130*		*10/08/13 19:11*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*		*10/08/13 19:11*	*1*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*		*10/08/13 19:11*	*1*

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	**0.81**		0.20		ug/L		10/07/13 10:29	10/08/13 00:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*72*		*70 - 130*	*10/07/13 10:29*	*10/08/13 00:51*	*1*

Client Sample ID: MW-1005-20131001-01

Lab Sample ID: 480-46929-10

Date Collected: 10/01/13 14:57

Matrix: Water

Date Received: 10/02/13 04:00

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			10/08/13 19:36	1
1,1,1-Trichloroethane	ND		1.0		ug/L			10/08/13 19:36	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			10/08/13 19:36	1
1,1,2-Trichloroethane	ND		1.0		ug/L			10/08/13 19:36	1
1,1-Dichloroethane	ND		1.0		ug/L			10/08/13 19:36	1
1,1-Dichloroethene	ND		1.0		ug/L			10/08/13 19:36	1
1,1-Dichloropropene	ND		1.0		ug/L			10/08/13 19:36	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			10/08/13 19:36	1
1,2,3-Trichloropropane	ND		1.0		ug/L			10/08/13 19:36	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			10/08/13 19:36	1

Client Sample ID: MW-1005-20131001-01
Date Collected: 10/01/13 14:57
Date Received: 10/02/13 04:00

Lab Sample ID: 480-46929-10
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	ND		1.0		ug/L			10/08/13 19:36	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			10/08/13 19:36	1
1,2-Dichlorobenzene	ND		1.0		ug/L			10/08/13 19:36	1
1,2-Dichloroethane	ND		1.0		ug/L			10/08/13 19:36	1
1,2-Dichloropropane	ND		1.0		ug/L			10/08/13 19:36	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			10/08/13 19:36	1
1,3-Dichlorobenzene	ND		1.0		ug/L			10/08/13 19:36	1
1,3-Dichloropropane	ND		1.0		ug/L			10/08/13 19:36	1
1,4-Dichlorobenzene	ND		1.0		ug/L			10/08/13 19:36	1
1,4-Dioxane	ND		50		ug/L			10/08/13 19:36	1
2,2-Dichloropropane	ND		1.0		ug/L			10/08/13 19:36	1
2-Butanone (MEK)	ND	*	10		ug/L			10/08/13 19:36	1
2-Chlorotoluene	ND	*	1.0		ug/L			10/08/13 19:36	1
2-Hexanone	ND		10		ug/L			10/08/13 19:36	1
4-Chlorotoluene	ND		1.0		ug/L			10/08/13 19:36	1
4-Isopropyltoluene	ND		1.0		ug/L			10/08/13 19:36	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			10/08/13 19:36	1
Acetone	ND		50		ug/L			10/08/13 19:36	1
Benzene	ND		1.0		ug/L			10/08/13 19:36	1
Bromobenzene	ND		1.0		ug/L			10/08/13 19:36	1
Bromoform	ND		1.0		ug/L			10/08/13 19:36	1
Bromomethane	ND		2.0		ug/L			10/08/13 19:36	1
Carbon disulfide	ND		10		ug/L			10/08/13 19:36	1
Carbon tetrachloride	ND		1.0		ug/L			10/08/13 19:36	1
Chlorobenzene	ND		1.0		ug/L			10/08/13 19:36	1
Chlorobromomethane	ND		1.0		ug/L			10/08/13 19:36	1
Chlorodibromomethane	ND		0.50		ug/L			10/08/13 19:36	1
Chloroethane	ND		2.0		ug/L			10/08/13 19:36	1
Chloroform	ND		1.0		ug/L			10/08/13 19:36	1
Chloromethane	ND		2.0		ug/L			10/08/13 19:36	1
cis-1,2-Dichloroethene	**12**		1.0		ug/L			10/08/13 19:36	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			10/08/13 19:36	1
Dichlorobromomethane	ND		0.50		ug/L			10/08/13 19:36	1
Dichlorodifluoromethane	ND	*	1.0		ug/L			10/08/13 19:36	1
Ethyl ether	ND		1.0		ug/L			10/08/13 19:36	1
Ethylbenzene	ND		1.0		ug/L			10/08/13 19:36	1
Ethylene Dibromide	ND		1.0		ug/L			10/08/13 19:36	1
Hexachlorobutadiene	ND		0.40		ug/L			10/08/13 19:36	1
Isopropyl ether	ND		10		ug/L			10/08/13 19:36	1
Isopropylbenzene	ND		1.0		ug/L			10/08/13 19:36	1
Methyl tert-butyl ether	ND		1.0		ug/L			10/08/13 19:36	1
Methylene Chloride	ND		1.0		ug/L			10/08/13 19:36	1
m-Xylene & p-Xylene	ND		2.0		ug/L			10/08/13 19:36	1
Naphthalene	ND		5.0		ug/L			10/08/13 19:36	1
n-Butylbenzene	ND		1.0		ug/L			10/08/13 19:36	1
N-Propylbenzene	ND		1.0		ug/L			10/08/13 19:36	1
o-Xylene	ND		1.0		ug/L			10/08/13 19:36	1
sec-Butylbenzene	ND		1.0		ug/L			10/08/13 19:36	1
Styrene	ND		1.0		ug/L			10/08/13 19:36	1

Client Sample ID: MW-1005-20131001-01

Lab Sample ID: 480-46929-10

Date Collected: 10/01/13 14:57

Matrix: Water

Date Received: 10/02/13 04:00

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tert-amyl methyl ether	ND		5.0		ug/L			10/08/13 19:36	1
Tert-butyl ethyl ether	ND		5.0		ug/L			10/08/13 19:36	1
tert-Butylbenzene	ND		1.0		ug/L			10/08/13 19:36	1
Tetrachloroethene	ND		1.0		ug/L			10/08/13 19:36	1
Tetrahydrofuran	ND		10		ug/L			10/08/13 19:36	1
Toluene	ND		1.0		ug/L			10/08/13 19:36	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			10/08/13 19:36	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			10/08/13 19:36	1
Trichloroethene	**14**		1.0		ug/L			10/08/13 19:36	1
Trichlorofluoromethane	ND		1.0		ug/L			10/08/13 19:36	1
Vinyl chloride	ND		1.0		ug/L			10/08/13 19:36	1
Dibromomethane	ND		1.0		ug/L			10/08/13 19:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*96*		*70 - 130*		*10/08/13 19:36*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 130*		*10/08/13 19:36*	*1*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*		*10/08/13 19:36*	*1*

Client Sample ID: MW-1032-20131001-01

Lab Sample ID: 480-46929-11

Date Collected: 10/01/13 15:20

Matrix: Water

Date Received: 10/02/13 04:00

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			10/08/13 20:01	1
1,1,1-Trichloroethane	ND		1.0		ug/L			10/08/13 20:01	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			10/08/13 20:01	1
1,1,2-Trichloroethane	ND		1.0		ug/L			10/08/13 20:01	1
1,1-Dichloroethane	**1.2**		1.0		ug/L			10/08/13 20:01	1
1,1-Dichloroethene	**1.7**		1.0		ug/L			10/08/13 20:01	1
1,1-Dichloropropene	ND		1.0		ug/L			10/08/13 20:01	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			10/08/13 20:01	1
1,2,3-Trichloropropane	ND		1.0		ug/L			10/08/13 20:01	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			10/08/13 20:01	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			10/08/13 20:01	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			10/08/13 20:01	1
1,2-Dichlorobenzene	ND		1.0		ug/L			10/08/13 20:01	1
1,2-Dichloroethane	ND		1.0		ug/L			10/08/13 20:01	1
1,2-Dichloropropane	ND		1.0		ug/L			10/08/13 20:01	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			10/08/13 20:01	1
1,3-Dichlorobenzene	ND		1.0		ug/L			10/08/13 20:01	1
1,3-Dichloropropane	ND		1.0		ug/L			10/08/13 20:01	1
1,4-Dichlorobenzene	ND		1.0		ug/L			10/08/13 20:01	1
1,4-Dioxane	ND		50		ug/L			10/08/13 20:01	1
2,2-Dichloropropane	ND		1.0		ug/L			10/08/13 20:01	1
2-Butanone (MEK)	ND	*	10		ug/L			10/08/13 20:01	1
2-Chlorotoluene	ND	*	1.0		ug/L			10/08/13 20:01	1
2-Hexanone	ND		10		ug/L			10/08/13 20:01	1
4-Chlorotoluene	ND		1.0		ug/L			10/08/13 20:01	1
4-Isopropyltoluene	ND		1.0		ug/L			10/08/13 20:01	1

Client Sample ID: MW-1032-20131001-01
Date Collected: 10/01/13 15:20
Date Received: 10/02/13 04:00

Lab Sample ID: 480-46929-11
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			10/08/13 20:01	1
Acetone	ND		50		ug/L			10/08/13 20:01	1
Benzene	ND		1.0		ug/L			10/08/13 20:01	1
Bromobenzene	ND		1.0		ug/L			10/08/13 20:01	1
Bromoform	ND		1.0		ug/L			10/08/13 20:01	1
Bromomethane	ND		2.0		ug/L			10/08/13 20:01	1
Carbon disulfide	ND		10		ug/L			10/08/13 20:01	1
Carbon tetrachloride	ND		1.0		ug/L			10/08/13 20:01	1
Chlorobenzene	ND		1.0		ug/L			10/08/13 20:01	1
Chlorobromomethane	ND		1.0		ug/L			10/08/13 20:01	1
Chlorodibromomethane	ND		0.50		ug/L			10/08/13 20:01	1
Chloroethane	ND		2.0		ug/L			10/08/13 20:01	1
Chloroform	ND		1.0		ug/L			10/08/13 20:01	1
Chloromethane	ND		2.0		ug/L			10/08/13 20:01	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			10/08/13 20:01	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			10/08/13 20:01	1
Dichlorobromomethane	ND		0.50		ug/L			10/08/13 20:01	1
Dichlorodifluoromethane	ND	*	1.0		ug/L			10/08/13 20:01	1
Ethyl ether	ND		1.0		ug/L			10/08/13 20:01	1
Ethylbenzene	ND		1.0		ug/L			10/08/13 20:01	1
Ethylene Dibromide	ND		1.0		ug/L			10/08/13 20:01	1
Hexachlorobutadiene	ND		0.40		ug/L			10/08/13 20:01	1
Isopropyl ether	ND		10		ug/L			10/08/13 20:01	1
Isopropylbenzene	ND		1.0		ug/L			10/08/13 20:01	1
Methyl tert-butyl ether	**94**		1.0		ug/L			10/08/13 20:01	1
Methylene Chloride	ND		1.0		ug/L			10/08/13 20:01	1
m-Xylene & p-Xylene	ND		2.0		ug/L			10/08/13 20:01	1
Naphthalene	ND		5.0		ug/L			10/08/13 20:01	1
n-Butylbenzene	ND		1.0		ug/L			10/08/13 20:01	1
N-Propylbenzene	ND		1.0		ug/L			10/08/13 20:01	1
o-Xylene	ND		1.0		ug/L			10/08/13 20:01	1
sec-Butylbenzene	ND		1.0		ug/L			10/08/13 20:01	1
Styrene	ND		1.0		ug/L			10/08/13 20:01	1
Tert-amyl methyl ether	**17**		5.0		ug/L			10/08/13 20:01	1
Tert-butyl ethyl ether	ND		5.0		ug/L			10/08/13 20:01	1
tert-Butylbenzene	ND		1.0		ug/L			10/08/13 20:01	1
Tetrachloroethene	ND		1.0		ug/L			10/08/13 20:01	1
Tetrahydrofuran	ND		10		ug/L			10/08/13 20:01	1
Toluene	ND		1.0		ug/L			10/08/13 20:01	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			10/08/13 20:01	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			10/08/13 20:01	1
Trichloroethene	**10**		1.0		ug/L			10/08/13 20:01	1
Trichlorofluoromethane	ND		1.0		ug/L			10/08/13 20:01	1
Vinyl chloride	ND		1.0		ug/L			10/08/13 20:01	1
Dibromomethane	ND		1.0		ug/L			10/08/13 20:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*97*		*70 - 130*		*10/08/13 20:01*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 130*		*10/08/13 20:01*	*1*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*		*10/08/13 20:01*	*1*

Surrogate Summary

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-46929-1

Method: 8260C - Volatile Organic Compounds (GC/MS)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		TOL	12DCE	BFB
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	(70-130)
480-46929-1	MW-1019B-20131001-01	94	98	102
480-46929-2	MW-1017D-20131001-01	93	96	98
480-46929-3	DUP-001-20131001-01	95	97	104
480-46929-3 - DL	DUP-001-20131001-01	93	95	100
480-46929-4	MW-1026D-20131001-01	95	97	102
480-46929-5	MW-1020-20131001-01	96	98	104
480-46929-5 - DL	MW-1020-20131001-01	93	96	100
480-46929-6	TB-001-20131001-01	96	96	101
480-46929-7	MW-1031-20131001-01	94	100	101
480-46929-8	MW-1030-20131001-01	94	101	101
480-46929-9	MW-1023-20131001-01	97	99	104
480-46929-10	MW-1005-20131001-01	96	100	102
480-46929-11	MW-1032-20131001-01	97	102	104
480-46929-11 MS	MW-1032-20131001-01 MS	94	103	103
480-46929-11 MSD	MW-1032-20131001-01 MSD	98	103	104
LCS 480-143397/4	Lab Control Sample	96	99	104
LCS 480-143681/5	Lab Control Sample	92	96	101
LCSD 480-143397/5	Lab Control Sample Dup	96	100	106
LCSD 480-143681/6	Lab Control Sample Dup	97	97	106
MB 480-143397/7	Method Blank	95	97	103
MB 480-143681/8	Method Blank	94	94	101

Surrogate Legend

TOL = Toluene-d8 (Surr)
12DCE = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
		14DD8
Lab Sample ID	Client Sample ID	(70-130)
480-46929-4	MW-1026D-20131001-01	73
480-46929-5	MW-1020-20131001-01	74
480-46929-9	MW-1023-20131001-01	72
LCS 200-62256/2-A	Lab Control Sample	77
MB 200-62256/1-A	Method Blank	87

Surrogate Legend

14DD8 = 1,4-Dioxane-d8 (Surr)

Method: 8260C - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-143397/7
Matrix: Water
Analysis Batch: 143397

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			10/08/13 13:05	1
1,1,1-Trichloroethane	ND		1.0		ug/L			10/08/13 13:05	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			10/08/13 13:05	1
1,1,2-Trichloroethane	ND		1.0		ug/L			10/08/13 13:05	1
1,1-Dichloroethane	ND		1.0		ug/L			10/08/13 13:05	1
1,1-Dichloroethene	ND		1.0		ug/L			10/08/13 13:05	1
1,1-Dichloropropene	ND		1.0		ug/L			10/08/13 13:05	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			10/08/13 13:05	1
1,2,3-Trichloropropane	ND		1.0		ug/L			10/08/13 13:05	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			10/08/13 13:05	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			10/08/13 13:05	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			10/08/13 13:05	1
1,2-Dichlorobenzene	ND		1.0		ug/L			10/08/13 13:05	1
1,2-Dichloroethane	ND		1.0		ug/L			10/08/13 13:05	1
1,2-Dichloropropane	ND		1.0		ug/L			10/08/13 13:05	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			10/08/13 13:05	1
1,3-Dichlorobenzene	ND		1.0		ug/L			10/08/13 13:05	1
1,3-Dichloropropane	ND		1.0		ug/L			10/08/13 13:05	1
1,4-Dichlorobenzene	ND		1.0		ug/L			10/08/13 13:05	1
1,4-Dioxane	ND		50		ug/L			10/08/13 13:05	1
2,2-Dichloropropane	ND		1.0		ug/L			10/08/13 13:05	1
2-Butanone (MEK)	ND		10		ug/L			10/08/13 13:05	1
2-Chlorotoluene	ND		1.0		ug/L			10/08/13 13:05	1
2-Hexanone	ND		10		ug/L			10/08/13 13:05	1
4-Chlorotoluene	ND		1.0		ug/L			10/08/13 13:05	1
4-Isopropyltoluene	ND		1.0		ug/L			10/08/13 13:05	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			10/08/13 13:05	1
Acetone	ND		50		ug/L			10/08/13 13:05	1
Benzene	ND		1.0		ug/L			10/08/13 13:05	1
Bromobenzene	ND		1.0		ug/L			10/08/13 13:05	1
Bromoform	ND		1.0		ug/L			10/08/13 13:05	1
Bromomethane	ND		2.0		ug/L			10/08/13 13:05	1
Carbon disulfide	ND		10		ug/L			10/08/13 13:05	1
Carbon tetrachloride	ND		1.0		ug/L			10/08/13 13:05	1
Chlorobenzene	ND		1.0		ug/L			10/08/13 13:05	1
Chlorobromomethane	ND		1.0		ug/L			10/08/13 13:05	1
Chlorodibromomethane	ND		0.50		ug/L			10/08/13 13:05	1
Chloroethane	ND		2.0		ug/L			10/08/13 13:05	1
Chloroform	ND		1.0		ug/L			10/08/13 13:05	1
Chloromethane	ND		2.0		ug/L			10/08/13 13:05	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			10/08/13 13:05	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			10/08/13 13:05	1
Dichlorobromomethane	ND		0.50		ug/L			10/08/13 13:05	1
Dichlorodifluoromethane	ND		1.0		ug/L			10/08/13 13:05	1
Ethyl ether	ND		1.0		ug/L			10/08/13 13:05	1
Ethylbenzene	ND		1.0		ug/L			10/08/13 13:05	1
Ethylene Dibromide	ND		1.0		ug/L			10/08/13 13:05	1
Hexachlorobutadiene	ND		0.40		ug/L			10/08/13 13:05	1

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-143397/7
Matrix: Water
Analysis Batch: 143397

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropyl ether	ND		10		ug/L			10/08/13 13:05	1
Isopropylbenzene	ND		1.0		ug/L			10/08/13 13:05	1
Methyl tert-butyl ether	ND		1.0		ug/L			10/08/13 13:05	1
Methylene Chloride	ND		1.0		ug/L			10/08/13 13:05	1
m-Xylene & p-Xylene	ND		2.0		ug/L			10/08/13 13:05	1
Naphthalene	ND		5.0		ug/L			10/08/13 13:05	1
n-Butylbenzene	ND		1.0		ug/L			10/08/13 13:05	1
N-Propylbenzene	ND		1.0		ug/L			10/08/13 13:05	1
o-Xylene	ND		1.0		ug/L			10/08/13 13:05	1
sec-Butylbenzene	ND		1.0		ug/L			10/08/13 13:05	1
Styrene	ND		1.0		ug/L			10/08/13 13:05	1
Tert-amyl methyl ether	ND		5.0		ug/L			10/08/13 13:05	1
Tert-butyl ethyl ether	ND		5.0		ug/L			10/08/13 13:05	1
tert-Butylbenzene	ND		1.0		ug/L			10/08/13 13:05	1
Tetrachloroethene	ND		1.0		ug/L			10/08/13 13:05	1
Tetrahydrofuran	ND		10		ug/L			10/08/13 13:05	1
Toluene	ND		1.0		ug/L			10/08/13 13:05	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			10/08/13 13:05	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			10/08/13 13:05	1
Trichloroethene	ND		1.0		ug/L			10/08/13 13:05	1
Trichlorofluoromethane	ND		1.0		ug/L			10/08/13 13:05	1
Vinyl chloride	ND		1.0		ug/L			10/08/13 13:05	1
Dibromomethane	ND		1.0		ug/L			10/08/13 13:05	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*95*		*70 - 130*		*10/08/13 13:05*	*1*
1,2-Dichloroethane-d4 (Surr)	*97*		*70 - 130*		*10/08/13 13:05*	*1*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*		*10/08/13 13:05*	*1*

Lab Sample ID: LCS 480-143397/4
Matrix: Water
Analysis Batch: 143397

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	25.0	25.6		ug/L		102	70 - 130
1,1,1-Trichloroethane	25.0	27.2		ug/L		109	70 - 130
1,1,2,2-Tetrachloroethane	25.0	24.0		ug/L		96	70 - 130
1,1,2-Trichloroethane	25.0	24.5		ug/L		98	70 - 130
1,1-Dichloroethane	25.0	26.6		ug/L		106	70 - 130
1,1-Dichloroethene	25.0	26.9		ug/L		108	70 - 130
1,1-Dichloropropene	25.0	26.9		ug/L		108	70 - 130
1,2,3-Trichlorobenzene	25.0	24.3		ug/L		97	70 - 130
1,2,3-Trichloropropane	25.0	23.6		ug/L		94	70 - 130
1,2,4-Trichlorobenzene	25.0	24.1		ug/L		96	70 - 130
1,2,4-Trimethylbenzene	25.0	24.8		ug/L		99	70 - 130
1,2-Dibromo-3-Chloropropane	25.0	21.8		ug/L		87	70 - 130
1,2-Dichlorobenzene	25.0	24.3		ug/L		97	70 - 130
1,2-Dichloroethane	25.0	24.6		ug/L		98	70 - 130

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-143397/4
Matrix: Water
Analysis Batch: 143397

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichloropropane	25.0	25.9		ug/L		104	70 - 130
1,3,5-Trimethylbenzene	25.0	25.0		ug/L		100	70 - 130
1,3-Dichlorobenzene	25.0	24.5		ug/L		98	70 - 130
1,3-Dichloropropane	25.0	25.0		ug/L		100	70 - 130
1,4-Dichlorobenzene	25.0	24.2		ug/L		97	70 - 130
1,4-Dioxane	1000	1280		ug/L		128	70 - 130
2,2-Dichloropropane	25.0	27.8		ug/L		111	70 - 130
2-Butanone (MEK)	125	183	*	ug/L		147	70 - 130
2-Chlorotoluene	25.0	30.0		ug/L		120	70 - 130
2-Hexanone	125	130		ug/L		104	70 - 130
4-Chlorotoluene	25.0	27.2		ug/L		109	70 - 130
4-Isopropyltoluene	25.0	25.1		ug/L		100	70 - 130
4-Methyl-2-pentanone (MIBK)	125	127		ug/L		101	70 - 130
Acetone	125	138		ug/L		110	70 - 130
Benzene	25.0	25.7		ug/L		103	70 - 130
Bromobenzene	25.0	24.5		ug/L		98	70 - 130
Bromoform	25.0	26.3		ug/L		105	70 - 130
Bromomethane	25.0	26.0		ug/L		104	70 - 130
Carbon disulfide	25.0	25.7		ug/L		103	70 - 130
Carbon tetrachloride	25.0	27.5		ug/L		110	70 - 130
Chlorobenzene	25.0	25.4		ug/L		101	70 - 130
Chlorobromomethane	25.0	26.3		ug/L		105	70 - 130
Chlorodibromomethane	25.0	26.1		ug/L		105	70 - 130
Chloroethane	25.0	26.0		ug/L		104	70 - 130
Chloroform	25.0	25.7		ug/L		103	70 - 130
Chloromethane	25.0	23.2		ug/L		93	70 - 130
cis-1,2-Dichloroethene	25.0	25.8		ug/L		103	70 - 130
cis-1,3-Dichloropropene	25.0	27.0		ug/L		108	70 - 130
Dichlorobromomethane	25.0	26.1		ug/L		104	70 - 130
Dichlorodifluoromethane	50.0	68.9	*	ug/L		138	70 - 130
Ethyl ether	25.0	27.7		ug/L		111	70 - 130
Ethylbenzene	25.0	25.5		ug/L		102	70 - 130
Ethylene Dibromide	25.0	25.0		ug/L		100	70 - 130
Hexachlorobutadiene	25.0	25.9		ug/L		104	70 - 130
Isopropyl ether	25.0	27.3		ug/L		109	70 - 130
Isopropylbenzene	25.0	24.8		ug/L		99	70 - 130
Methyl tert-butyl ether	25.0	27.7		ug/L		111	70 - 130
Methylene Chloride	25.0	25.4		ug/L		101	70 - 130
m-Xylene & p-Xylene	50.0	51.1		ug/L		102	70 - 130
Naphthalene	25.0	23.8		ug/L		95	70 - 130
n-Butylbenzene	25.0	25.2		ug/L		101	70 - 130
N-Propylbenzene	25.0	25.0		ug/L		100	70 - 130
o-Xylene	25.0	25.6		ug/L		102	70 - 130
sec-Butylbenzene	25.0	24.7		ug/L		99	70 - 130
Styrene	25.0	25.6		ug/L		102	70 - 130
Tert-amyl methyl ether	25.0	26.8		ug/L		107	70 - 130
Tert-butyl ethyl ether	25.0	26.0		ug/L		104	70 - 130
tert-Butylbenzene	25.0	24.6		ug/L		98	70 - 130

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-143397/4
Matrix: Water
Analysis Batch: 143397

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Tetrachloroethene	25.0	27.3		ug/L		109	70 - 130
Tetrahydrofuran	125	128		ug/L		102	70 - 130
Toluene	25.0	25.2		ug/L		101	70 - 130
trans-1,2-Dichloroethene	25.0	26.9		ug/L		108	70 - 130
trans-1,3-Dichloropropene	25.0	26.4		ug/L		105	70 - 130
Trichloroethene	25.0	26.4		ug/L		106	70 - 130
Trichlorofluoromethane	25.0	28.1		ug/L		113	70 - 130
Vinyl chloride	25.0	26.2		ug/L		105	70 - 130
Dibromomethane	25.0	25.4		ug/L		102	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*96*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*

Lab Sample ID: LCSD 480-143397/5
Matrix: Water
Analysis Batch: 143397

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	25.0	24.9		ug/L		100	70 - 130	3	20
1,1,1-Trichloroethane	25.0	26.3		ug/L		105	70 - 130	4	20
1,1,2,2-Tetrachloroethane	25.0	23.4		ug/L		94	70 - 130	2	20
1,1,2-Trichloroethane	25.0	24.5		ug/L		98	70 - 130	0	20
1,1-Dichloroethane	25.0	25.9		ug/L		103	70 - 130	3	20
1,1-Dichloroethene	25.0	26.2		ug/L		105	70 - 130	3	20
1,1-Dichloropropene	25.0	26.5		ug/L		106	70 - 130	2	20
1,2,3-Trichlorobenzene	25.0	24.1		ug/L		96	70 - 130	1	20
1,2,3-Trichloropropane	25.0	23.3		ug/L		93	70 - 130	1	20
1,2,4-Trichlorobenzene	25.0	24.1		ug/L		96	70 - 130	0	20
1,2,4-Trimethylbenzene	25.0	23.8		ug/L		95	70 - 130	4	20
1,2-Dibromo-3-Chloropropane	25.0	22.4		ug/L		90	70 - 130	3	20
1,2-Dichlorobenzene	25.0	24.0		ug/L		96	70 - 130	1	20
1,2-Dichloroethane	25.0	24.8		ug/L		99	70 - 130	1	20
1,2-Dichloropropane	25.0	25.0		ug/L		100	70 - 130	4	20
1,3,5-Trimethylbenzene	25.0	23.7		ug/L		95	70 - 130	5	20
1,3-Dichlorobenzene	25.0	23.7		ug/L		95	70 - 130	3	20
1,3-Dichloropropane	25.0	24.3		ug/L		97	70 - 130	3	20
1,4-Dichlorobenzene	25.0	23.7		ug/L		95	70 - 130	2	20
1,4-Dioxane	1000	1290		ug/L		129	70 - 130	2	20
2,2-Dichloropropane	25.0	26.6		ug/L		107	70 - 130	4	20
2-Butanone (MEK)	125	185	*	ug/L		148	70 - 130	1	20
2-Chlorotoluene	25.0	23.4	*	ug/L		93	70 - 130	25	20
2-Hexanone	125	130		ug/L		104	70 - 130	0	20
4-Chlorotoluene	25.0	26.3		ug/L		105	70 - 130	3	20
4-Isopropyltoluene	25.0	24.0		ug/L		96	70 - 130	4	20
4-Methyl-2-pentanone (MIBK)	125	124		ug/L		99	70 - 130	2	20
Acetone	125	138		ug/L		111	70 - 130	0	20

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 480-143397/5
Matrix: Water
Analysis Batch: 143397

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	25.0	25.2		ug/L		101	70 - 130	2	20
Bromobenzene	25.0	24.1		ug/L		96	70 - 130	2	20
Bromoform	25.0	27.0		ug/L		108	70 - 130	2	20
Bromomethane	25.0	24.5		ug/L		98	70 - 130	6	20
Carbon disulfide	25.0	25.1		ug/L		101	70 - 130	2	20
Carbon tetrachloride	25.0	26.9		ug/L		107	70 - 130	2	20
Chlorobenzene	25.0	24.6		ug/L		98	70 - 130	3	20
Chlorobromomethane	25.0	26.1		ug/L		104	70 - 130	1	20
Chlorodibromomethane	25.0	26.0		ug/L		104	70 - 130	0	20
Chloroethane	25.0	25.5		ug/L		102	70 - 130	2	20
Chloroform	25.0	25.1		ug/L		100	70 - 130	2	20
Chloromethane	25.0	22.5		ug/L		90	70 - 130	3	20
cis-1,2-Dichloroethene	25.0	25.1		ug/L		100	70 - 130	3	20
cis-1,3-Dichloropropene	25.0	26.9		ug/L		108	70 - 130	1	20
Dichlorobromomethane	25.0	25.9		ug/L		104	70 - 130	1	20
Dichlorodifluoromethane	50.0	65.1		ug/L		130	70 - 130	6	20
Ethyl ether	25.0	27.1		ug/L		109	70 - 130	2	20
Ethylbenzene	25.0	24.6		ug/L		99	70 - 130	4	20
Ethylene Dibromide	25.0	24.9		ug/L		100	70 - 130	0	20
Hexachlorobutadiene	25.0	25.1		ug/L		100	70 - 130	3	20
Isopropyl ether	25.0	26.7		ug/L		107	70 - 130	2	20
Isopropylbenzene	25.0	23.7		ug/L		95	70 - 130	4	20
Methyl tert-butyl ether	25.0	27.6		ug/L		110	70 - 130	1	20
Methylene Chloride	25.0	25.1		ug/L		101	70 - 130	1	20
m-Xylene & p-Xylene	50.0	49.9		ug/L		100	70 - 130	2	20
Naphthalene	25.0	24.1		ug/L		96	70 - 130	1	20
n-Butylbenzene	25.0	24.0		ug/L		96	70 - 130	5	20
N-Propylbenzene	25.0	24.0		ug/L		96	70 - 130	4	20
o-Xylene	25.0	24.8		ug/L		99	70 - 130	3	20
sec-Butylbenzene	25.0	23.6		ug/L		95	70 - 130	4	20
Styrene	25.0	24.8		ug/L		99	70 - 130	3	20
Tert-amyl methyl ether	25.0	26.6		ug/L		107	70 - 130	1	20
Tert-butyl ethyl ether	25.0	25.6		ug/L		103	70 - 130	1	20
tert-Butylbenzene	25.0	23.3		ug/L		93	70 - 130	5	20
Tetrachloroethene	25.0	26.8		ug/L		107	70 - 130	2	20
Tetrahydrofuran	125	126		ug/L		101	70 - 130	1	20
Toluene	25.0	24.2		ug/L		97	70 - 130	4	20
trans-1,2-Dichloroethene	25.0	25.8		ug/L		103	70 - 130	4	20
trans-1,3-Dichloropropene	25.0	25.8		ug/L		103	70 - 130	2	20
Trichloroethene	25.0	25.7		ug/L		103	70 - 130	3	20
Trichlorofluoromethane	25.0	26.7		ug/L		107	70 - 130	5	20
Vinyl chloride	25.0	25.3		ug/L		101	70 - 130	4	20
Dibromomethane	25.0	25.4		ug/L		101	70 - 130	0	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*96*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 130*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 480-46929-11 MS
Matrix: Water
Analysis Batch: 143397

Client Sample ID: MW-1032-20131001-01 MS
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	ND		25.0	26.7		ug/L		107	70 - 130
1,1,1-Trichloroethane	ND		25.0	29.5		ug/L		118	70 - 130
1,1,2,2-Tetrachloroethane	ND		25.0	24.2		ug/L		97	70 - 130
1,1,2-Trichloroethane	ND		25.0	25.6		ug/L		102	70 - 130
1,1-Dichloroethane	1.2		25.0	29.8		ug/L		114	70 - 130
1,1-Dichloroethene	1.7		25.0	31.5		ug/L		119	70 - 130
1,1-Dichloropropene	ND		25.0	29.9		ug/L		120	70 - 130
1,2,3-Trichlorobenzene	ND		25.0	23.9		ug/L		96	70 - 130
1,2,3-Trichloropropane	ND		25.0	24.3		ug/L		97	70 - 130
1,2,4-Trichlorobenzene	ND		25.0	24.5		ug/L		98	70 - 130
1,2,4-Trimethylbenzene	ND		25.0	25.4		ug/L		102	70 - 130
1,2-Dibromo-3-Chloropropane	ND		25.0	21.3		ug/L		85	70 - 130
1,2-Dichlorobenzene	ND		25.0	24.9		ug/L		99	70 - 130
1,2-Dichloroethane	ND		25.0	25.8		ug/L		103	70 - 130
1,2-Dichloropropane	ND		25.0	27.2		ug/L		109	70 - 130
1,3,5-Trimethylbenzene	ND		25.0	25.7		ug/L		103	70 - 130
1,3-Dichlorobenzene	ND		25.0	24.9		ug/L		100	70 - 130
1,3-Dichloropropane	ND		25.0	25.0		ug/L		100	70 - 130
1,4-Dichlorobenzene	ND		25.0	24.8		ug/L		99	70 - 130
1,4-Dioxane	ND		1000	1310	F	ug/L		131	70 - 130
2,2-Dichloropropane	ND		25.0	26.9		ug/L		108	70 - 130
2-Butanone (MEK)	ND	*	125	178	F	ug/L		143	70 - 130
2-Chlorotoluene	ND	*	25.0	25.8		ug/L		103	70 - 130
2-Hexanone	ND		125	120		ug/L		96	70 - 130
4-Chlorotoluene	ND		25.0	27.7		ug/L		111	70 - 130
4-Isopropyltoluene	ND		25.0	25.7		ug/L		103	70 - 130
4-Methyl-2-pentanone (MIBK)	ND		125	120		ug/L		96	70 - 130
Acetone	ND		125	129		ug/L		103	70 - 130
Benzene	ND		25.0	28.0		ug/L		112	70 - 130
Bromobenzene	ND		25.0	25.2		ug/L		101	70 - 130
Bromoform	ND		25.0	26.6		ug/L		106	70 - 130
Bromomethane	ND		25.0	27.1		ug/L		109	70 - 130
Carbon disulfide	ND		25.0	27.1		ug/L		108	70 - 130
Carbon tetrachloride	ND		25.0	30.6		ug/L		122	70 - 130
Chlorobenzene	ND		25.0	26.0		ug/L		104	70 - 130
Chlorobromomethane	ND		25.0	27.9		ug/L		112	70 - 130
Chlorodibromomethane	ND		25.0	26.3		ug/L		105	70 - 130
Chloroethane	ND		25.0	28.9		ug/L		116	70 - 130
Chloroform	ND		25.0	27.3		ug/L		109	70 - 130
Chloromethane	ND		25.0	25.1		ug/L		100	70 - 130
cis-1,2-Dichloroethene	ND		25.0	27.8		ug/L		111	70 - 130
cis-1,3-Dichloropropene	ND		25.0	27.6		ug/L		110	70 - 130
Dichlorobromomethane	ND		25.0	27.4		ug/L		110	70 - 130
Dichlorodifluoromethane	ND	*	50.0	76.9	F	ug/L		154	70 - 130
Ethyl ether	ND		25.0	30.1		ug/L		120	70 - 130
Ethylbenzene	ND		25.0	26.4		ug/L		106	70 - 130
Ethylene Dibromide	ND		25.0	24.9		ug/L		100	70 - 130
Hexachlorobutadiene	ND		25.0	26.3		ug/L		105	70 - 130

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 480-46929-11 MS — **Client Sample ID: MW-1032-20131001-01 MS**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 143397

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Isopropyl ether	ND		25.0	29.9		ug/L		119	70 - 130
Isopropylbenzene	ND		25.0	26.0		ug/L		104	70 - 130
Methyl tert-butyl ether	94		25.0	120	E	ug/L		102	70 - 130
Methylene Chloride	ND		25.0	26.8		ug/L		107	70 - 130
m-Xylene & p-Xylene	ND		50.0	53.2		ug/L		106	70 - 130
Naphthalene	ND		25.0	23.5		ug/L		94	70 - 130
n-Butylbenzene	ND		25.0	25.6		ug/L		103	70 - 130
N-Propylbenzene	ND		25.0	26.1		ug/L		104	70 - 130
o-Xylene	ND		25.0	26.5		ug/L		106	70 - 130
sec-Butylbenzene	ND		25.0	26.2		ug/L		105	70 - 130
Styrene	ND		25.0	25.6		ug/L		103	70 - 130
Tert-amyl methyl ether	17		25.0	45.7		ug/L		113	70 - 130
Tert-butyl ethyl ether	ND		25.0	27.2		ug/L		109	70 - 130
tert-Butylbenzene	ND		25.0	25.9		ug/L		104	70 - 130
Tetrachloroethene	ND		25.0	27.6		ug/L		110	70 - 130
Tetrahydrofuran	ND		125	123		ug/L		98	70 - 130
Toluene	ND		25.0	26.4		ug/L		106	70 - 130
trans-1,2-Dichloroethene	ND		25.0	28.2		ug/L		113	70 - 130
trans-1,3-Dichloropropene	ND		25.0	25.7		ug/L		103	70 - 130
Trichloroethene	10		25.0	38.6		ug/L		113	70 - 130
Trichlorofluoromethane	ND		25.0	31.4		ug/L		126	70 - 130
Vinyl chloride	ND		25.0	29.3		ug/L		117	70 - 130
Dibromomethane	ND		25.0	26.3		ug/L		105	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Toluene-d8 (Surr)	*94*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 130*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*

Lab Sample ID: 480-46929-11 MSD — **Client Sample ID: MW-1032-20131001-01 MSD**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 143397

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	ND		25.0	28.2		ug/L		113	70 - 130	5	20
1,1,1-Trichloroethane	ND		25.0	30.6		ug/L		122	70 - 130	4	20
1,1,2,2-Tetrachloroethane	ND		25.0	25.8		ug/L		103	70 - 130	6	20
1,1,2-Trichloroethane	ND		25.0	27.2		ug/L		109	70 - 130	6	20
1,1-Dichloroethane	1.2		25.0	30.5		ug/L		117	70 - 130	2	20
1,1-Dichloroethene	1.7		25.0	32.4		ug/L		122	70 - 130	3	20
1,1-Dichloropropene	ND		25.0	31.0		ug/L		124	70 - 130	4	20
1,2,3-Trichlorobenzene	ND		25.0	26.4		ug/L		106	70 - 130	10	20
1,2,3-Trichloropropane	ND		25.0	25.3		ug/L		101	70 - 130	4	20
1,2,4-Trichlorobenzene	ND		25.0	26.1		ug/L		104	70 - 130	6	20
1,2,4-Trimethylbenzene	ND		25.0	27.2		ug/L		109	70 - 130	7	20
1,2-Dibromo-3-Chloropropane	ND		25.0	24.0		ug/L		96	70 - 130	12	20
1,2-Dichlorobenzene	ND		25.0	26.2		ug/L		105	70 - 130	5	20
1,2-Dichloroethane	ND		25.0	26.9		ug/L		108	70 - 130	4	20

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 480-46929-11 MSD
Matrix: Water
Analysis Batch: 143397

Client Sample ID: MW-1032-20131001-01 MSD
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Dichloropropane	ND		25.0	28.6		ug/L		114	70 - 130	5	20
1,3,5-Trimethylbenzene	ND		25.0	27.4		ug/L		110	70 - 130	7	20
1,3-Dichlorobenzene	ND		25.0	26.2		ug/L		105	70 - 130	5	20
1,3-Dichloropropane	ND		25.0	26.7		ug/L		107	70 - 130	7	20
1,4-Dichlorobenzene	ND		25.0	26.0		ug/L		104	70 - 130	5	20
1,4-Dioxane	ND		1000	1420	F	ug/L		142	70 - 130	8	20
2,2-Dichloropropane	ND		25.0	27.6		ug/L		110	70 - 130	2	20
2-Butanone (MEK)	ND	*	125	179	F	ug/L		143	70 - 130	0	20
2-Chlorotoluene	ND	*	25.0	27.1		ug/L		109	70 - 130	5	20
2-Hexanone	ND		125	128		ug/L		102	70 - 130	6	20
4-Chlorotoluene	ND		25.0	29.3		ug/L		117	70 - 130	5	20
4-Isopropyltoluene	ND		25.0	27.7		ug/L		111	70 - 130	7	20
4-Methyl-2-pentanone (MIBK)	ND		125	126		ug/L		101	70 - 130	5	20
Acetone	ND		125	130		ug/L		104	70 - 130	1	20
Benzene	ND		25.0	29.1		ug/L		116	70 - 130	4	20
Bromobenzene	ND		25.0	27.0		ug/L		108	70 - 130	7	20
Bromoform	ND		25.0	28.5		ug/L		114	70 - 130	7	20
Bromomethane	ND		25.0	27.9		ug/L		112	70 - 130	3	20
Carbon disulfide	ND		25.0	26.3		ug/L		105	70 - 130	3	20
Carbon tetrachloride	ND		25.0	31.6		ug/L		126	70 - 130	3	20
Chlorobenzene	ND		25.0	28.1		ug/L		112	70 - 130	8	20
Chlorobromomethane	ND		25.0	28.9		ug/L		115	70 - 130	3	20
Chlorodibromomethane	ND		25.0	28.5		ug/L		114	70 - 130	8	20
Chloroethane	ND		25.0	29.8		ug/L		119	70 - 130	3	20
Chloroform	ND		25.0	28.5		ug/L		114	70 - 130	4	20
Chloromethane	ND		25.0	26.2		ug/L		105	70 - 130	4	20
cis-1,2-Dichloroethene	ND		25.0	28.4		ug/L		113	70 - 130	2	20
cis-1,3-Dichloropropene	ND		25.0	28.9		ug/L		116	70 - 130	5	20
Dichlorobromomethane	ND		25.0	28.9		ug/L		115	70 - 130	5	20
Dichlorodifluoromethane	ND	*	50.0	72.2	F	ug/L		144	70 - 130	6	20
Ethyl ether	ND		25.0	28.1		ug/L		112	70 - 130	7	20
Ethylbenzene	ND		25.0	28.5		ug/L		114	70 - 130	8	20
Ethylene Dibromide	ND		25.0	27.0		ug/L		108	70 - 130	8	20
Hexachlorobutadiene	ND		25.0	28.6		ug/L		115	70 - 130	8	20
Isopropyl ether	ND		25.0	27.7		ug/L		111	70 - 130	7	20
Isopropylbenzene	ND		25.0	27.9		ug/L		111	70 - 130	7	20
Methyl tert-butyl ether	94		25.0	118	E	ug/L		97	70 - 130	1	20
Methylene Chloride	ND		25.0	28.2		ug/L		113	70 - 130	5	20
m-Xylene & p-Xylene	ND		50.0	56.7		ug/L		113	70 - 130	6	20
Naphthalene	ND		25.0	26.1		ug/L		104	70 - 130	10	20
n-Butylbenzene	ND		25.0	27.2		ug/L		109	70 - 130	6	20
N-Propylbenzene	ND		25.0	27.8		ug/L		111	70 - 130	6	20
o-Xylene	ND		25.0	28.2		ug/L		113	70 - 130	6	20
sec-Butylbenzene	ND		25.0	28.1		ug/L		112	70 - 130	7	20
Styrene	ND		25.0	27.8		ug/L		111	70 - 130	8	20
Tert-amyl methyl ether	17		25.0	46.1		ug/L		115	70 - 130	1	20
Tert-butyl ethyl ether	ND		25.0	27.5		ug/L		110	70 - 130	1	20
tert-Butylbenzene	ND		25.0	27.7		ug/L		111	70 - 130	7	20

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 480-46929-11 MSD
Matrix: Water
Analysis Batch: 143397

Client Sample ID: MW-1032-20131001-01 MSD
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Tetrachloroethene	ND		25.0	29.7		ug/L		119	70 - 130	8	20
Tetrahydrofuran	ND		125	125		ug/L		100	70 - 130	1	20
Toluene	ND		25.0	28.4		ug/L		114	70 - 130	8	20
trans-1,2-Dichloroethene	ND		25.0	29.2		ug/L		117	70 - 130	4	20
trans-1,3-Dichloropropene	ND		25.0	27.9		ug/L		112	70 - 130	8	20
Trichloroethene	10		25.0	39.8		ug/L		118	70 - 130	3	20
Trichlorofluoromethane	ND		25.0	32.2		ug/L		129	70 - 130	3	20
Vinyl chloride	ND		25.0	30.3		ug/L		121	70 - 130	3	20
Dibromomethane	ND		25.0	27.6		ug/L		110	70 - 130	5	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*98*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 130*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*

Lab Sample ID: MB 480-143681/8
Matrix: Water
Analysis Batch: 143681

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			10/09/13 13:06	1
1,1,1-Trichloroethane	ND		1.0		ug/L			10/09/13 13:06	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			10/09/13 13:06	1
1,1,2-Trichloroethane	ND		1.0		ug/L			10/09/13 13:06	1
1,1-Dichloroethane	ND		1.0		ug/L			10/09/13 13:06	1
1,1-Dichloroethene	ND		1.0		ug/L			10/09/13 13:06	1
1,1-Dichloropropene	ND		1.0		ug/L			10/09/13 13:06	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			10/09/13 13:06	1
1,2,3-Trichloropropane	ND		1.0		ug/L			10/09/13 13:06	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			10/09/13 13:06	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			10/09/13 13:06	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			10/09/13 13:06	1
1,2-Dichlorobenzene	ND		1.0		ug/L			10/09/13 13:06	1
1,2-Dichloroethane	ND		1.0		ug/L			10/09/13 13:06	1
1,2-Dichloropropane	ND		1.0		ug/L			10/09/13 13:06	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			10/09/13 13:06	1
1,3-Dichlorobenzene	ND		1.0		ug/L			10/09/13 13:06	1
1,3-Dichloropropane	ND		1.0		ug/L			10/09/13 13:06	1
1,4-Dichlorobenzene	ND		1.0		ug/L			10/09/13 13:06	1
1,4-Dioxane	ND		50		ug/L			10/09/13 13:06	1
2,2-Dichloropropane	ND		1.0		ug/L			10/09/13 13:06	1
2-Butanone (MEK)	ND		10		ug/L			10/09/13 13:06	1
2-Chlorotoluene	ND		1.0		ug/L			10/09/13 13:06	1
2-Hexanone	ND		10		ug/L			10/09/13 13:06	1
4-Chlorotoluene	ND		1.0		ug/L			10/09/13 13:06	1
4-Isopropyltoluene	ND		1.0		ug/L			10/09/13 13:06	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			10/09/13 13:06	1
Acetone	ND		50		ug/L			10/09/13 13:06	1

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-143681/8
Matrix: Water
Analysis Batch: 143681

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0		ug/L			10/09/13 13:06	1
Bromobenzene	ND		1.0		ug/L			10/09/13 13:06	1
Bromoform	ND		1.0		ug/L			10/09/13 13:06	1
Bromomethane	ND		2.0		ug/L			10/09/13 13:06	1
Carbon disulfide	ND		10		ug/L			10/09/13 13:06	1
Carbon tetrachloride	ND		1.0		ug/L			10/09/13 13:06	1
Chlorobenzene	ND		1.0		ug/L			10/09/13 13:06	1
Chlorobromomethane	ND		1.0		ug/L			10/09/13 13:06	1
Chlorodibromomethane	ND		0.50		ug/L			10/09/13 13:06	1
Chloroethane	ND		2.0		ug/L			10/09/13 13:06	1
Chloroform	ND		1.0		ug/L			10/09/13 13:06	1
Chloromethane	ND		2.0		ug/L			10/09/13 13:06	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			10/09/13 13:06	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			10/09/13 13:06	1
Dichlorobromomethane	ND		0.50		ug/L			10/09/13 13:06	1
Dichlorodifluoromethane	ND		1.0		ug/L			10/09/13 13:06	1
Ethyl ether	ND		1.0		ug/L			10/09/13 13:06	1
Ethylbenzene	ND		1.0		ug/L			10/09/13 13:06	1
Ethylene Dibromide	ND		1.0		ug/L			10/09/13 13:06	1
Hexachlorobutadiene	ND		0.40		ug/L			10/09/13 13:06	1
Isopropyl ether	ND		10		ug/L			10/09/13 13:06	1
Isopropylbenzene	ND		1.0		ug/L			10/09/13 13:06	1
Methyl tert-butyl ether	ND		1.0		ug/L			10/09/13 13:06	1
Methylene Chloride	ND		1.0		ug/L			10/09/13 13:06	1
m-Xylene & p-Xylene	ND		2.0		ug/L			10/09/13 13:06	1
Naphthalene	ND		5.0		ug/L			10/09/13 13:06	1
n-Butylbenzene	ND		1.0		ug/L			10/09/13 13:06	1
N-Propylbenzene	ND		1.0		ug/L			10/09/13 13:06	1
o-Xylene	ND		1.0		ug/L			10/09/13 13:06	1
sec-Butylbenzene	ND		1.0		ug/L			10/09/13 13:06	1
Styrene	ND		1.0		ug/L			10/09/13 13:06	1
Tert-amyl methyl ether	ND		5.0		ug/L			10/09/13 13:06	1
Tert-butyl ethyl ether	ND		5.0		ug/L			10/09/13 13:06	1
tert-Butylbenzene	ND		1.0		ug/L			10/09/13 13:06	1
Tetrachloroethene	ND		1.0		ug/L			10/09/13 13:06	1
Tetrahydrofuran	ND		10		ug/L			10/09/13 13:06	1
Toluene	ND		1.0		ug/L			10/09/13 13:06	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			10/09/13 13:06	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			10/09/13 13:06	1
Trichloroethene	ND		1.0		ug/L			10/09/13 13:06	1
Trichlorofluoromethane	ND		1.0		ug/L			10/09/13 13:06	1
Vinyl chloride	ND		1.0		ug/L			10/09/13 13:06	1
Dibromomethane	ND		1.0		ug/L			10/09/13 13:06	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*94*		*70 - 130*		*10/09/13 13:06*	*1*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 130*		*10/09/13 13:06*	*1*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*		*10/09/13 13:06*	*1*

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-143681/5
Matrix: Water
Analysis Batch: 143681

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	25.0	26.8		ug/L		107	70 - 130
1,1,1-Trichloroethane	25.0	28.2		ug/L		113	70 - 130
1,1,2,2-Tetrachloroethane	25.0	25.1		ug/L		100	70 - 130
1,1,2-Trichloroethane	25.0	25.0		ug/L		100	70 - 130
1,1-Dichloroethane	25.0	27.8		ug/L		111	70 - 130
1,1-Dichloroethene	25.0	28.1		ug/L		112	70 - 130
1,1-Dichloropropene	25.0	28.3		ug/L		113	70 - 130
1,2,3-Trichlorobenzene	25.0	25.7		ug/L		103	70 - 130
1,2,3-Trichloropropane	25.0	24.5		ug/L		98	70 - 130
1,2,4-Trichlorobenzene	25.0	26.0		ug/L		104	70 - 130
1,2,4-Trimethylbenzene	25.0	25.8		ug/L		103	70 - 130
1,2-Dibromo-3-Chloropropane	25.0	23.0		ug/L		92	70 - 130
1,2-Dichlorobenzene	25.0	25.4		ug/L		102	70 - 130
1,2-Dichloroethane	25.0	25.9		ug/L		104	70 - 130
1,2-Dichloropropane	25.0	26.8		ug/L		107	70 - 130
1,3,5-Trimethylbenzene	25.0	25.9		ug/L		104	70 - 130
1,3-Dichlorobenzene	25.0	25.4		ug/L		102	70 - 130
1,3-Dichloropropane	25.0	25.0		ug/L		100	70 - 130
1,4-Dichlorobenzene	25.0	25.1		ug/L		100	70 - 130
1,4-Dioxane	1000	1210		ug/L		121	70 - 130
2,2-Dichloropropane	25.0	28.9		ug/L		116	70 - 130
2-Butanone (MEK)	125	190	*	ug/L		152	70 - 130
2-Chlorotoluene	25.0	30.5		ug/L		122	70 - 130
2-Hexanone	125	131		ug/L		105	70 - 130
4-Chlorotoluene	25.0	28.3		ug/L		113	70 - 130
4-Isopropyltoluene	25.0	26.0		ug/L		104	70 - 130
4-Methyl-2-pentanone (MIBK)	125	130		ug/L		104	70 - 130
Acetone	125	141		ug/L		113	70 - 130
Benzene	25.0	26.9		ug/L		108	70 - 130
Bromobenzene	25.0	25.4		ug/L		101	70 - 130
Bromoform	25.0	27.7		ug/L		111	70 - 130
Bromomethane	25.0	27.8		ug/L		111	70 - 130
Carbon disulfide	25.0	29.5		ug/L		118	70 - 130
Carbon tetrachloride	25.0	28.8		ug/L		115	70 - 130
Chlorobenzene	25.0	25.6		ug/L		102	70 - 130
Chlorobromomethane	25.0	27.7		ug/L		111	70 - 130
Chlorodibromomethane	25.0	26.7		ug/L		107	70 - 130
Chloroethane	25.0	28.6		ug/L		114	70 - 130
Chloroform	25.0	26.8		ug/L		107	70 - 130
Chloromethane	25.0	27.2		ug/L		109	70 - 130
cis-1,2-Dichloroethene	25.0	26.4		ug/L		105	70 - 130
cis-1,3-Dichloropropene	25.0	28.0		ug/L		112	70 - 130
Dichlorobromomethane	25.0	27.4		ug/L		110	70 - 130
Dichlorodifluoromethane	50.0	70.9	*	ug/L		142	70 - 130
Ethyl ether	25.0	26.9		ug/L		108	70 - 130
Ethylbenzene	25.0	25.9		ug/L		103	70 - 130
Ethylene Dibromide	25.0	25.1		ug/L		100	70 - 130
Hexachlorobutadiene	25.0	27.1		ug/L		109	70 - 130

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-143681/5
Matrix: Water
Analysis Batch: 143681

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Isopropyl ether	25.0	26.8		ug/L		107	70 - 130
Isopropylbenzene	25.0	26.1		ug/L		104	70 - 130
Methyl tert-butyl ether	25.0	28.9		ug/L		116	70 - 130
Methylene Chloride	25.0	26.8		ug/L		107	70 - 130
m-Xylene & p-Xylene	50.0	52.3		ug/L		105	70 - 130
Naphthalene	25.0	25.3		ug/L		101	70 - 130
n-Butylbenzene	25.0	26.0		ug/L		104	70 - 130
N-Propylbenzene	25.0	26.5		ug/L		106	70 - 130
o-Xylene	25.0	26.1		ug/L		104	70 - 130
sec-Butylbenzene	25.0	26.2		ug/L		105	70 - 130
Styrene	25.0	25.7		ug/L		103	70 - 130
Tert-amyl methyl ether	25.0	26.8		ug/L		107	70 - 130
Tert-butyl ethyl ether	25.0	25.4		ug/L		102	70 - 130
tert-Butylbenzene	25.0	25.9		ug/L		104	70 - 130
Tetrachloroethene	25.0	27.5		ug/L		110	70 - 130
Tetrahydrofuran	125	131		ug/L		105	70 - 130
Toluene	25.0	25.7		ug/L		103	70 - 130
trans-1,2-Dichloroethene	25.0	27.4		ug/L		110	70 - 130
trans-1,3-Dichloropropene	25.0	26.8		ug/L		107	70 - 130
Trichloroethene	25.0	27.8		ug/L		111	70 - 130
Trichlorofluoromethane	25.0	29.8		ug/L		119	70 - 130
Vinyl chloride	25.0	29.2		ug/L		117	70 - 130
Dibromomethane	25.0	26.3		ug/L		105	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*92*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*96*		*70 - 130*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*

Lab Sample ID: LCSD 480-143681/6
Matrix: Water
Analysis Batch: 143681

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	25.0	26.5		ug/L		106	70 - 130	1	20
1,1,1-Trichloroethane	25.0	26.5		ug/L		106	70 - 130	6	20
1,1,2,2-Tetrachloroethane	25.0	25.1		ug/L		101	70 - 130	0	20
1,1,2-Trichloroethane	25.0	25.7		ug/L		103	70 - 130	3	20
1,1-Dichloroethane	25.0	26.0		ug/L		104	70 - 130	7	20
1,1-Dichloroethene	25.0	26.3		ug/L		105	70 - 130	7	20
1,1-Dichloropropene	25.0	26.5		ug/L		106	70 - 130	6	20
1,2,3-Trichlorobenzene	25.0	25.6		ug/L		102	70 - 130	0	20
1,2,3-Trichloropropane	25.0	24.6		ug/L		99	70 - 130	1	20
1,2,4-Trichlorobenzene	25.0	25.4		ug/L		101	70 - 130	2	20
1,2,4-Trimethylbenzene	25.0	24.7		ug/L		99	70 - 130	4	20
1,2-Dibromo-3-Chloropropane	25.0	24.0		ug/L		96	70 - 130	4	20
1,2-Dichlorobenzene	25.0	24.5		ug/L		98	70 - 130	4	20
1,2-Dichloroethane	25.0	25.1		ug/L		100	70 - 130	3	20

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 480-143681/6
Matrix: Water
Analysis Batch: 143681

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Dichloropropane	25.0	25.7		ug/L		103	70 - 130	4	20
1,3,5-Trimethylbenzene	25.0	24.9		ug/L		99	70 - 130	4	20
1,3-Dichlorobenzene	25.0	24.5		ug/L		98	70 - 130	4	20
1,3-Dichloropropane	25.0	25.5		ug/L		102	70 - 130	2	20
1,4-Dichlorobenzene	25.0	24.7		ug/L		99	70 - 130	1	20
1,4-Dioxane	1000	1250		ug/L		125	70 - 130	3	20
2,2-Dichloropropane	25.0	26.6		ug/L		107	70 - 130	8	20
2-Butanone (MEK)	125	193	*	ug/L		154	70 - 130	2	20
2-Chlorotoluene	25.0	30.4		ug/L		122	70 - 130	0	20
2-Hexanone	125	141		ug/L		113	70 - 130	7	20
4-Chlorotoluene	25.0	27.0		ug/L		108	70 - 130	5	20
4-Isopropyltoluene	25.0	24.9		ug/L		100	70 - 130	4	20
4-Methyl-2-pentanone (MIBK)	125	136		ug/L		109	70 - 130	4	20
Acetone	125	143		ug/L		114	70 - 130	1	20
Benzene	25.0	25.6		ug/L		103	70 - 130	5	20
Bromobenzene	25.0	25.0		ug/L		100	70 - 130	1	20
Bromoform	25.0	28.7		ug/L		115	70 - 130	4	20
Bromomethane	25.0	26.1		ug/L		104	70 - 130	6	20
Carbon disulfide	25.0	26.6		ug/L		106	70 - 130	10	20
Carbon tetrachloride	25.0	27.0		ug/L		108	70 - 130	6	20
Chlorobenzene	25.0	25.6		ug/L		102	70 - 130	0	20
Chlorobromomethane	25.0	26.4		ug/L		106	70 - 130	5	20
Chlorodibromomethane	25.0	27.3		ug/L		109	70 - 130	2	20
Chloroethane	25.0	26.5		ug/L		106	70 - 130	7	20
Chloroform	25.0	25.4		ug/L		102	70 - 130	5	20
Chloromethane	25.0	25.3		ug/L		101	70 - 130	7	20
cis-1,2-Dichloroethene	25.0	25.6		ug/L		102	70 - 130	3	20
cis-1,3-Dichloropropene	25.0	27.7		ug/L		111	70 - 130	1	20
Dichlorobromomethane	25.0	26.7		ug/L		107	70 - 130	3	20
Dichlorodifluoromethane	50.0	65.1		ug/L		130	70 - 130	9	20
Ethyl ether	25.0	26.3		ug/L		105	70 - 130	2	20
Ethylbenzene	25.0	25.7		ug/L		103	70 - 130	1	20
Ethylene Dibromide	25.0	25.8		ug/L		103	70 - 130	3	20
Hexachlorobutadiene	25.0	25.9		ug/L		103	70 - 130	5	20
Isopropyl ether	25.0	25.5		ug/L		102	70 - 130	5	20
Isopropylbenzene	25.0	24.7		ug/L		99	70 - 130	5	20
Methyl tert-butyl ether	25.0	28.3		ug/L		113	70 - 130	2	20
Methylene Chloride	25.0	25.1		ug/L		101	70 - 130	7	20
m-Xylene & p-Xylene	50.0	51.2		ug/L		102	70 - 130	2	20
Naphthalene	25.0	25.9		ug/L		104	70 - 130	3	20
n-Butylbenzene	25.0	25.0		ug/L		100	70 - 130	4	20
N-Propylbenzene	25.0	25.2		ug/L		101	70 - 130	5	20
o-Xylene	25.0	26.1		ug/L		104	70 - 130	0	20
sec-Butylbenzene	25.0	24.6		ug/L		98	70 - 130	6	20
Styrene	25.0	25.6		ug/L		102	70 - 130	0	20
Tert-amyl methyl ether	25.0	26.2		ug/L		105	70 - 130	2	20
Tert-butyl ethyl ether	25.0	24.7		ug/L		99	70 - 130	3	20
tert-Butylbenzene	25.0	24.8		ug/L		99	70 - 130	4	20

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 480-143681/6
Matrix: Water
Analysis Batch: 143681

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Tetrachloroethene			25.0	27.7		ug/L		111	70 - 130	1	20
Tetrahydrofuran			125	133		ug/L		106	70 - 130	2	20
Toluene			25.0	25.4		ug/L		101	70 - 130	1	20
trans-1,2-Dichloroethene			25.0	25.6		ug/L		102	70 - 130	7	20
trans-1,3-Dichloropropene			25.0	27.5		ug/L		110	70 - 130	2	20
Trichloroethene			25.0	26.4		ug/L		106	70 - 130	5	20
Trichlorofluoromethane			25.0	27.5		ug/L		110	70 - 130	8	20
Vinyl chloride			25.0	27.3		ug/L		109	70 - 130	6	20
Dibromomethane			25.0	26.0		ug/L		104	70 - 130	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*97*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*97*		*70 - 130*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Lab Sample ID: MB 200-62256/1-A
Matrix: Water
Analysis Batch: 62267

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 62256

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20		ug/L		10/07/13 10:29	10/07/13 21:47	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*87*		*70 - 130*	*10/07/13 10:29*	*10/07/13 21:47*	*1*

Lab Sample ID: LCS 200-62256/2-A
Matrix: Water
Analysis Batch: 62323

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 62256

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,4-Dioxane			2.00	1.87		ug/L		94	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,4-Dioxane-d8 (Surr)	*77*		*70 - 130*

QC Association Summary

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-46929-1

GC/MS VOA

Analysis Batch: 143397

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-46929-1	MW-1019B-20131001-01	Total/NA	Water	8260C	
480-46929-2	MW-1017D-20131001-01	Total/NA	Water	8260C	
480-46929-3	DUP-001-20131001-01	Total/NA	Water	8260C	
480-46929-4	MW-1026D-20131001-01	Total/NA	Water	8260C	
480-46929-5	MW-1020-20131001-01	Total/NA	Water	8260C	
480-46929-7	MW-1031-20131001-01	Total/NA	Water	8260C	
480-46929-8	MW-1030-20131001-01	Total/NA	Water	8260C	
480-46929-9	MW-1023-20131001-01	Total/NA	Water	8260C	
480-46929-10	MW-1005-20131001-01	Total/NA	Water	8260C	
480-46929-11	MW-1032-20131001-01	Total/NA	Water	8260C	
480-46929-11 MS	MW-1032-20131001-01 MS	Total/NA	Water	8260C	
480-46929-11 MSD	MW-1032-20131001-01 MSD	Total/NA	Water	8260C	
LCS 480-143397/4	Lab Control Sample	Total/NA	Water	8260C	
LCSD 480-143397/5	Lab Control Sample Dup	Total/NA	Water	8260C	
MB 480-143397/7	Method Blank	Total/NA	Water	8260C	

Analysis Batch: 143681

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-46929-3 - DL	DUP-001-20131001-01	Total/NA	Water	8260C	
480-46929-5 - DL	MW-1020-20131001-01	Total/NA	Water	8260C	
480-46929-6	TB-001-20131001-01	Total/NA	Water	8260C	
LCS 480-143681/5	Lab Control Sample	Total/NA	Water	8260C	
LCSD 480-143681/6	Lab Control Sample Dup	Total/NA	Water	8260C	
MB 480-143681/8	Method Blank	Total/NA	Water	8260C	

GC/MS Semi VOA

Prep Batch: 62256

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-46929-4	MW-1026D-20131001-01	Total/NA	Water	3535A	
480-46929-5	MW-1020-20131001-01	Total/NA	Water	3535A	
480-46929-9	MW-1023-20131001-01	Total/NA	Water	3535A	
LCS 200-62256/2-A	Lab Control Sample	Total/NA	Water	3535A	
MB 200-62256/1-A	Method Blank	Total/NA	Water	3535A	

Analysis Batch: 62267

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-46929-4	MW-1026D-20131001-01	Total/NA	Water	522 MOD	62256
480-46929-5	MW-1020-20131001-01	Total/NA	Water	522 MOD	62256
480-46929-9	MW-1023-20131001-01	Total/NA	Water	522 MOD	62256
MB 200-62256/1-A	Method Blank	Total/NA	Water	522 MOD	62256

Analysis Batch: 62323

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 200-62256/2-A	Lab Control Sample	Total/NA	Water	522 MOD	62256

Lab Chronicle

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-46929-1

Client Sample ID: MW-1019B-20131001-01 — Lab Sample ID: 480-46929-1

Date Collected: 10/01/13 12:25 — **Matrix: Water**
Date Received: 10/02/13 04:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	143397	10/08/13 15:49	LCH	TAL BUF

Client Sample ID: MW-1017D-20131001-01 — Lab Sample ID: 480-46929-2

Date Collected: 10/01/13 13:54 — **Matrix: Water**
Date Received: 10/02/13 04:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	143397	10/08/13 16:14	LCH	TAL BUF

Client Sample ID: DUP-001-20131001-01 — Lab Sample ID: 480-46929-3

Date Collected: 10/01/13 11:11 — **Matrix: Water**
Date Received: 10/02/13 04:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	143397	10/08/13 16:40	LCH	TAL BUF
Total/NA	Analysis	8260C	DL	4	143681	10/09/13 14:11	RAL	TAL BUF

Client Sample ID: MW-1026D-20131001-01 — Lab Sample ID: 480-46929-4

Date Collected: 10/01/13 13:40 — **Matrix: Water**
Date Received: 10/02/13 04:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	143397	10/08/13 17:05	LCH	TAL BUF
Total/NA	Prep	3535A			62256	10/07/13 10:29	MLT	TAL BUR
Total/NA	Analysis	522 MOD		1	62267	10/08/13 00:06	BRM	TAL BUR

Client Sample ID: MW-1020-20131001-01 — Lab Sample ID: 480-46929-5

Date Collected: 10/01/13 12:15 — **Matrix: Water**
Date Received: 10/02/13 04:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	143397	10/08/13 17:30	LCH	TAL BUF
Total/NA	Analysis	8260C	DL	4	143681	10/09/13 14:36	RAL	TAL BUF
Total/NA	Prep	3535A			62256	10/07/13 10:29	MLT	TAL BUR
Total/NA	Analysis	522 MOD		1	62267	10/08/13 00:28	BRM	TAL BUR

Client Sample ID: TB-001-20131001-01 — Lab Sample ID: 480-46929-6

Date Collected: 10/01/13 00:00 — **Matrix: Water**
Date Received: 10/02/13 04:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	143681	10/09/13 15:01	RAL	TAL BUF

Lab Chronicle

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-46929-1

Client Sample ID: MW-1031-20131001-01 — Lab Sample ID: 480-46929-7

Date Collected: 10/01/13 13:35 — **Matrix: Water**
Date Received: 10/02/13 04:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	143397	10/08/13 18:20	LCH	TAL BUF

Client Sample ID: MW-1030-20131001-01 — Lab Sample ID: 480-46929-8

Date Collected: 10/01/13 12:15 — **Matrix: Water**
Date Received: 10/02/13 04:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	143397	10/08/13 18:46	LCH	TAL BUF

Client Sample ID: MW-1023-20131001-01 — Lab Sample ID: 480-46929-9

Date Collected: 10/01/13 14:35 — **Matrix: Water**
Date Received: 10/02/13 04:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	143397	10/08/13 19:11	LCH	TAL BUF
Total/NA	Prep	3535A			62256	10/07/13 10:29	MLT	TAL BUR
Total/NA	Analysis	522 MOD		1	62267	10/08/13 00:51	BRM	TAL BUR

Client Sample ID: MW-1005-20131001-01 — Lab Sample ID: 480-46929-10

Date Collected: 10/01/13 14:57 — **Matrix: Water**
Date Received: 10/02/13 04:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	143397	10/08/13 19:36	LCH	TAL BUF

Client Sample ID: MW-1032-20131001-01 — Lab Sample ID: 480-46929-11

Date Collected: 10/01/13 15:20 — **Matrix: Water**
Date Received: 10/02/13 04:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	143397	10/08/13 20:01	LCH	TAL BUF

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

TAL BUR = TestAmerica Burlington, 30 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

Certification Summary

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-46929-1

Laboratory: TestAmerica Buffalo

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Arkansas DEQ	State Program	6	88-0686	11-06-13
California	NELAP	9	1169CA	10-30-13
Connecticut	State Program	1	PH-0568	09-30-14
Florida	NELAP	4	E87672	06-30-14
Georgia	State Program	4	N/A	03-31-14
Illinois	NELAP	5	200003	10-30-13
Iowa	State Program	7	374	03-15-15
Kansas	NELAP	7	E-10187	01-31-14
Kentucky	State Program	4	90029	12-31-13
Kentucky (UST)	State Program	4	30	04-01-14
Louisiana	NELAP	6	02031	06-30-14
Maine	State Program	1	NY00044	12-04-14
Maryland	State Program	3	294	03-31-14
Massachusetts	State Program	1	M-NY044	06-30-14
Michigan	State Program	5	9937	04-01-14
Minnesota	NELAP	5	036-999-337	12-31-13
New Hampshire	NELAP	1	2973	09-11-14
New Jersey	NELAP	2	NY455	06-30-14
New York	NELAP	2	10026	04-01-14
North Dakota	State Program	8	R-176	03-31-14
Oklahoma	State Program	6	9421	08-31-14
Oregon	NELAP	10	NY200003	06-09-14
Pennsylvania	NELAP	3	68-00281	07-31-14
Rhode Island	State Program	1	LAO00328	12-31-13
Tennessee	State Program	4	TN02970	04-01-14
Texas	NELAP	6	T104704412-11-2	07-31-14
USDA	Federal		P330-11-00386	11-22-14
Virginia	NELAP	3	460185	09-14-14
Washington	State Program	10	C784	02-10-14
West Virginia DEP	State Program	3	252	12-31-13
Wisconsin	State Program	5	998310390	08-31-14

Laboratory: TestAmerica Burlington

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Connecticut	State Program	1	PH-0751	09-30-13 *
DE Haz. Subst. Cleanup Act (HSCA)	State Program	3	NA	02-13-15
Florida	NELAP	4	E87467	06-30-14
L-A-B	DoD ELAP		L2336	10-26-13 *
Louisiana	NELAP	6	176292	06-30-14
Maine	State Program	1	VT00008	04-17-15
Minnesota	NELAP	5	050-999-436	12-31-13
New Hampshire	NELAP	1	2006	12-18-13
New Jersey	NELAP	2	VT972	06-30-14
New York	NELAP	2	10391	04-01-14
Pennsylvania	NELAP	3	68-00489	04-30-14
Rhode Island	State Program	1	LAO00298	12-30-13
US Fish & Wildlife	Federal		LE-058448-0	02-28-14
USDA	Federal		P330-11-00093	02-17-14

* Expired certification is currently pending renewal and is considered valid.

Laboratory: TestAmerica Burlington (Continued)

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Vermont	State Program	1	VT-4000	12-31-13

Method Summary

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-46929-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds (GC/MS)	MA DEP	TAL BUF
522 MOD	1,4 Dioxane (GC/MS SIM)	EPA	TAL BUR

Protocol References:

EPA = US Environmental Protection Agency

MA DEP = Massachusetts Department Of Environmental Protection

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

TAL BUR = TestAmerica Burlington, 30 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

Sample Summary

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-46929-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-46929-1	MW-1019B-20131001-01	Water	10/01/13 12:25	10/02/13 04:00
480-46929-2	MW-1017D-20131001-01	Water	10/01/13 13:54	10/02/13 04:00
480-46929-3	DUP-001-20131001-01	Water	10/01/13 11:11	10/02/13 04:00
480-46929-4	MW-1026D-20131001-01	Water	10/01/13 13:40	10/02/13 04:00
480-46929-5	MW-1020-20131001-01	Water	10/01/13 12:15	10/02/13 04:00
480-46929-6	TB-001-20131001-01	Water	10/01/13 00:00	10/02/13 04:00
480-46929-7	MW-1031-20131001-01	Water	10/01/13 13:35	10/02/13 04:00
480-46929-8	MW-1030-20131001-01	Water	10/01/13 12:15	10/02/13 04:00
480-46929-9	MW-1023-20131001-01	Water	10/01/13 14:35	10/02/13 04:00
480-46929-10	MW-1005-20131001-01	Water	10/01/13 14:57	10/02/13 04:00
480-46929-11	MW-1032-20131001-01	Water	10/01/13 15:20	10/02/13 04:00

Login Sample Receipt Checklist

Client: ERM-Northeast

Job Number: 480-46929-1

Login Number: 46929
List Number: 1
Creator: Wienke, Robert K

List Source: TestAmerica Buffalo

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

Login Sample Receipt Checklist

Client: ERM-Northeast

Job Number: 480-46929-1

Login Number: 46929
List Number: 1
Creator: Poucher, Stephanie A

List Source: TestAmerica Burlington
List Creation: 10/03/13 05:01 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	True	957668
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.4ºC IR GUN ID 181. CF -0.2
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	Check done at department level as required.

Chain of Custody Record

Temperature on Receipt _____

Drinking Water? Yes ☐ No ☒

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TAL-4124 (1007)

Client	Project Manager	Date	Chain of Custody Number
Lyndsey Colburn, ERM	Lyndsey Colburn	10/1/13	238093
Address	**Telephone Number (Area Code)/Fax Number**	**Lab Number**	
1 Beacon St 5th Floor	1-617-646-7829		Page 1 of 2

City	State	Zip Code	Site Contact	Lab Contact
Boston	MA	02108	Stacy Braga	Becky Mason

Project Name and Location (State): IDS Wayland ~~Site~~ Wayland, MA

Carrier/Waybill Number:

Contract/Purchase Order/Quote No.: 0109270.01

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Air	Aqueous	Sed.	Soil	Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	8260B-MOD	8260B-SIM	522-MOD	Special Instructions/ Conditions of Receipt
MW-1019B 20131001-01	10/1/13	12:25		X						X			3			
MW-1017D 20131001-01	10/1/13	13:54		X						X			3			
DUP-001-20131001-01	10/1/13	11:11		X						X			3			
MW-1026D-20131001-01	10/1/13	13:40		X						X			3	2	1	SIM to be run for 1,4 Dioxane only run 522 if SIM is ND
MW-1020 20131001-01	10/1/13	12:15		X						X			3	2	1	SIM only to be run for 1,4 Dioxane Only run 522 if SIM is ND
TB-001-20131001-01	10/1/13			X						X			3			
MW-1031-20131001-01	10/1/13	13:35		X						X			3			
MW-1030-20131001-01	10/1/13	12:15		X						X			3			
MW-1023 20131001-01	10/1/13	14:35		X						X			3	2	1	SIM only for 1,4 Dioxane Only run 522 if SIM is ND
MW-1005-20131001-01	10/1/13	14:57		X						X			3			
MW-1032-20131001-01	10/1/13	15:20		X						X			3			
MW-1032-20131001-01-MS	10/1/13	15:20		X						X			3			

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal: ☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required: ☐ 24 Hours ☐ 48 Hours ☒ 7 Days ☐ 14 Days ☐ 21 Days ☐ Other _____

QC Requirements (Specify):

	Date	Time		Date	Time
1. Relinquished By: Stacy Braga	10/1/13	15:40	1. Received By: TAC	10/1/13	1540
2. Relinquished By: TAC	10/1/13	163	2. Received By: TAC	10.2.13	0400
3. Relinquished By			3. Received By		

Comments: 4.1 #1

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

Chain of Custody Record

Temperature on Receipt _____

Drinking Water? Yes ☐ No ☒

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TAL-4124 (1007)

Client	Project Manager	Date	Chain of Custody Number
ERM	Lyndsey Colburn	10/1/13	233094
Address	**Telephone Number (Area Code)/Fax Number**	**Lab Number**	
1 Beacon St, 5th Flor	1-617-646-7821		**Page** 2 **of** 2

City	State	Zip Code	Site Contact	Lab Contact
Boston	MA	02108	Stacey Brown	Becky Mason

Project Name and Location (State)	Carrier/Waybill Number
IDS Wayland Wayland, MA	

Contract/Purchase Order/Quote No.: 0169270.01

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed	Soil		Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH		Analysis (Attach list if more space is needed): 8260B: MSD												Special Instructions/ Conditions of Receipt
MW-1032-20131001-01-MSD	10/1/13	15:20		X							X				3												

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal: ☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required: ☐ 24 Hours ☐ 48 Hours ☒ 7 Days ☐ 14 Days ☐ 21 Days ☐ Other _____

QC Requirements (Specify)

1. Relinquished By		Date	Time	1. Received By		Date	Time
[signature]		10/1/13	1540	[signature]	TAL	10/1/13	1540
2. Relinquished By		Date	Time	2. Received By		Date	Time
[signature]	TAL	10/1/13	1638	[signature]	TAL	10-2	0900
3. Relinquished By		Date	Time	3. Received By		Date	Time

Comments: 4.1#1

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

TestAmerica Job ID: 480-47044-1
Client Project/Site: IDS Wayland

For:
ERM-Northeast
One Beacon Steet
5th Floor
Boston, Massachusetts 02108

Attn: Jason Flattery

Authorized for release by:
10/10/2013 4:03:57 PM

Becky Mason, Project Manager II
(413)572-4000
becky.mason@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD exceeds the control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-47044-1

Job ID: 480-47044-1

Laboratory: TestAmerica Buffalo

Narrative

Receipt
The samples were received on 10/3/2013 2:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.4º C.

GC/MS VOA
Method 8260C: The continuing calibration verification (CCV) for Dichlorodifluoromethane associated with batch 143864 recovered above the MCP upper control limit. MCP protocol allows for 20% of the target compounds to be outside the 20% difference but not over 40% difference.

Method 8260C: The laboratory control sample (LCS) and / or the laboratory control sample duplicate (LCSD) for batch 143864 exceeded control limits for the following analyte: 2-Butanone. Unlike the calibration standards, this is due to the coelution with Ethyl Acetate in the spiking solution. This does not indicate a performance issue with the spike recovery, but rather the laboratory's ability to measure the two analytes together in a combined spiking solution. Through the use of spectral analysis, the two compounds can be distinguished from one another if present in a client sample.

Method 8260C: The laboratory control sample duplicate (LCSD) for batch 143864 exceeded control limits for the following analytes: 1,4-Dioxane. MCP protocol allows for 10% of the target compounds to be outside of the limits provided the recoveries are over 10%.

With the exception of diluted samples, per question G on the MassDEP Analytical Protocol Certification Form, TestAmerica's routine reporting limits do not achieve the CAM reporting limits specified in this CAM protocol for 1,2-dibromo-3-chloropropane, Carbon Disulfide, Isopropyl Ether, Naphthalene, tert-Butyl Ethyl Ether, tert-Amyl Methyl Ether, & Tetrahydrofuran.

At the request of the client, an abbreviated/modified MCP compound list was reported for this job.

No other analytical or quality issues were noted.

MassDEP Analytical Protocol Certification Form

Laboratory Name: **TestAmerica Buffalo** Project #: **480-47044-1**

Project Location: **Wayland** RTN:

This form provides certifications for the following data set: list Laboratory Sample ID Number(s):

480-47044-1[1-4]

Matrices: [X] Groundwater/Surface Water [ ] Soil/Sediment [ ] Drinking Water [ ] Air [ ] Other:

CAM Protocols (check all that apply below):

8260 VOC CAM II A [X]	7470/7471 Hg CAM III B [ ]	Mass DEP VPH CAM IV A [ ]	8081 Pesticides CAM V B [ ]	7196 Hex Cr CAM VI B [ ]	Mass DEP APH CAM IX A [ ]
8270 SVOC CAM II B [ ]	6010 Metals CAM III C [ ]	Mass DEP EPH CAM IV B [ ]	8151 Herbicides CAM V C [ ]	8330 Explosives CAM VIII A [ ]	TO-15 VOC CAM IX B [ ]
6010 Metals CAM III A [ ]	6020 Metals CAM III D [ ]	8082 PCB CAM V A [ ]	9014 Total Cyanide/PAC CAM VI A [ ]	6860 Perchlorate CAM VIII B [ ]	

Affirmative Responses to Questions A through F are required for "Presumptive Certainty" status

A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding time.	[X] Yes [ ] No
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	[X] Yes [ ] No
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	[X] Yes [ ] No
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	[X] Yes [ ] No
E	a. VPH, EPH and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications). b. APH and TO-15 Methods only: Was the complete analyte list reported for each method?	[ ] Yes [ ] No [ ] Yes [ ] No
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	[X] Yes [ ] No

Responses to Questions G, H and I below are required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	[ ] Yes [X] No[1]

***Data User Note:* Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WCS-07-350**

H	Were **all** QC performance standards specified in the CAM protocol(s) achieved?	[X] Yes [ ] No[1]
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s) ?	[ ] Yes [X] No[1]

[1] All negative responses must be addressed in an attached laboratory narrative.

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, is accurate and complete.

Signature: Position: Project Manager

Printed Name: Becky Mason Date: 10/10/13 16:02

This form has been electronically signed and approved

Detection Summary

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-47044-1

Client Sample ID: SEN-1D-20131002-01 — Lab Sample ID: 480-47044-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	1.0		1.0		ug/L	1		8260C	Total/NA
Ethyl ether	1.2		1.0		ug/L	1		8260C	Total/NA

Client Sample ID: SEN-1M-20131002-01 — Lab Sample ID: 480-47044-2

No Detections.

Client Sample ID: SEN-2D-20131002-01 — Lab Sample ID: 480-47044-3

No Detections.

Client Sample ID: SEN-2M-20131002-01 — Lab Sample ID: 480-47044-4

No Detections.

This Detection Summary does not include radiochemical test results.

Client Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-47044-1

Client Sample ID: SEN-1D-20131002-01

Lab Sample ID: 480-47044-1

Date Collected: 10/02/13 10:10

Matrix: Water

Date Received: 10/03/13 02:00

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			10/09/13 23:45	1
1,1,1-Trichloroethane	ND		1.0		ug/L			10/09/13 23:45	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			10/09/13 23:45	1
1,1,2-Trichloroethane	ND		1.0		ug/L			10/09/13 23:45	1
1,1-Dichloroethane	ND		1.0		ug/L			10/09/13 23:45	1
1,1-Dichloroethene	ND		1.0		ug/L			10/09/13 23:45	1
1,1-Dichloropropene	ND		1.0		ug/L			10/09/13 23:45	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			10/09/13 23:45	1
1,2,3-Trichloropropane	ND		1.0		ug/L			10/09/13 23:45	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			10/09/13 23:45	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			10/09/13 23:45	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			10/09/13 23:45	1
1,2-Dichlorobenzene	ND		1.0		ug/L			10/09/13 23:45	1
1,2-Dichloroethane	ND		1.0		ug/L			10/09/13 23:45	1
1,2-Dichloropropane	ND		1.0		ug/L			10/09/13 23:45	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			10/09/13 23:45	1
1,3-Dichlorobenzene	ND		1.0		ug/L			10/09/13 23:45	1
1,3-Dichloropropane	ND		1.0		ug/L			10/09/13 23:45	1
1,4-Dichlorobenzene	ND		1.0		ug/L			10/09/13 23:45	1
1,4-Dioxane	ND		50		ug/L			10/09/13 23:45	1
2,2-Dichloropropane	ND		1.0		ug/L			10/09/13 23:45	1
2-Butanone (MEK)	ND		10		ug/L			10/09/13 23:45	1
2-Chlorotoluene	ND		1.0		ug/L			10/09/13 23:45	1
2-Hexanone	ND		10		ug/L			10/09/13 23:45	1
4-Chlorotoluene	ND		1.0		ug/L			10/09/13 23:45	1
4-Isopropyltoluene	ND		1.0		ug/L			10/09/13 23:45	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			10/09/13 23:45	1
Acetone	ND		50		ug/L			10/09/13 23:45	1
Benzene	ND		1.0		ug/L			10/09/13 23:45	1
Bromobenzene	ND		1.0		ug/L			10/09/13 23:45	1
Bromoform	ND		1.0		ug/L			10/09/13 23:45	1
Bromomethane	ND		2.0		ug/L			10/09/13 23:45	1
Carbon disulfide	ND		10		ug/L			10/09/13 23:45	1
Carbon tetrachloride	ND		1.0		ug/L			10/09/13 23:45	1
Chlorobenzene	ND		1.0		ug/L			10/09/13 23:45	1
Chlorobromomethane	ND		1.0		ug/L			10/09/13 23:45	1
Chlorodibromomethane	ND		0.50		ug/L			10/09/13 23:45	1
Chloroethane	ND		2.0		ug/L			10/09/13 23:45	1
Chloroform	ND		1.0		ug/L			10/09/13 23:45	1
Chloromethane	ND		2.0		ug/L			10/09/13 23:45	1
cis-1,2-Dichloroethene	**1.0**		1.0		ug/L			10/09/13 23:45	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			10/09/13 23:45	1
Dichlorobromomethane	ND		0.50		ug/L			10/09/13 23:45	1
Dichlorodifluoromethane	ND		1.0		ug/L			10/09/13 23:45	1
Ethyl ether	**1.2**		1.0		ug/L			10/09/13 23:45	1
Ethylbenzene	ND		1.0		ug/L			10/09/13 23:45	1
Ethylene Dibromide	ND		1.0		ug/L			10/09/13 23:45	1
Hexachlorobutadiene	ND		0.40		ug/L			10/09/13 23:45	1
Isopropyl ether	ND		10		ug/L			10/09/13 23:45	1

Client Sample ID: SEN-1D-20131002-01

Lab Sample ID: 480-47044-1

Date Collected: 10/02/13 10:10

Matrix: Water

Date Received: 10/03/13 02:00

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	ND		1.0		ug/L			10/09/13 23:45	1
Methyl tert-butyl ether	ND		1.0		ug/L			10/09/13 23:45	1
Methylene Chloride	ND		1.0		ug/L			10/09/13 23:45	1
m-Xylene & p-Xylene	ND		2.0		ug/L			10/09/13 23:45	1
Naphthalene	ND		5.0		ug/L			10/09/13 23:45	1
n-Butylbenzene	ND		1.0		ug/L			10/09/13 23:45	1
N-Propylbenzene	ND		1.0		ug/L			10/09/13 23:45	1
o-Xylene	ND		1.0		ug/L			10/09/13 23:45	1
sec-Butylbenzene	ND		1.0		ug/L			10/09/13 23:45	1
Styrene	ND		1.0		ug/L			10/09/13 23:45	1
Tert-amyl methyl ether	ND		5.0		ug/L			10/09/13 23:45	1
Tert-butyl ethyl ether	ND		5.0		ug/L			10/09/13 23:45	1
tert-Butylbenzene	ND		1.0		ug/L			10/09/13 23:45	1
Tetrachloroethene	ND		1.0		ug/L			10/09/13 23:45	1
Tetrahydrofuran	ND		10		ug/L			10/09/13 23:45	1
Toluene	ND		1.0		ug/L			10/09/13 23:45	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			10/09/13 23:45	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			10/09/13 23:45	1
Trichloroethene	ND		1.0		ug/L			10/09/13 23:45	1
Trichlorofluoromethane	ND		1.0		ug/L			10/09/13 23:45	1
Vinyl chloride	ND		1.0		ug/L			10/09/13 23:45	1
Dibromomethane	ND		1.0		ug/L			10/09/13 23:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*94*		*70 - 130*		*10/09/13 23:45*	*1*
1,2-Dichloroethane-d4 (Surr)	*87*		*70 - 130*		*10/09/13 23:45*	*1*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*		*10/09/13 23:45*	*1*

Client Sample ID: SEN-1M-20131002-01

Lab Sample ID: 480-47044-2

Date Collected: 10/02/13 11:20

Matrix: Water

Date Received: 10/03/13 02:00

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			10/10/13 00:08	1
1,1,1-Trichloroethane	ND		1.0		ug/L			10/10/13 00:08	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			10/10/13 00:08	1
1,1,2-Trichloroethane	ND		1.0		ug/L			10/10/13 00:08	1
1,1-Dichloroethane	ND		1.0		ug/L			10/10/13 00:08	1
1,1-Dichloroethene	ND		1.0		ug/L			10/10/13 00:08	1
1,1-Dichloropropene	ND		1.0		ug/L			10/10/13 00:08	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			10/10/13 00:08	1
1,2,3-Trichloropropane	ND		1.0		ug/L			10/10/13 00:08	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			10/10/13 00:08	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			10/10/13 00:08	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			10/10/13 00:08	1
1,2-Dichlorobenzene	ND		1.0		ug/L			10/10/13 00:08	1
1,2-Dichloroethane	ND		1.0		ug/L			10/10/13 00:08	1
1,2-Dichloropropane	ND		1.0		ug/L			10/10/13 00:08	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			10/10/13 00:08	1

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-47044-1

Client Sample ID: SEN-1M-20131002-01
Date Collected: 10/02/13 11:20
Date Received: 10/03/13 02:00

Lab Sample ID: 480-47044-2
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	ND		1.0		ug/L			10/10/13 00:08	1
1,3-Dichloropropane	ND		1.0		ug/L			10/10/13 00:08	1
1,4-Dichlorobenzene	ND		1.0		ug/L			10/10/13 00:08	1
1,4-Dioxane	ND		50		ug/L			10/10/13 00:08	1
2,2-Dichloropropane	ND		1.0		ug/L			10/10/13 00:08	1
2-Butanone (MEK)	ND		10		ug/L			10/10/13 00:08	1
2-Chlorotoluene	ND		1.0		ug/L			10/10/13 00:08	1
2-Hexanone	ND		10		ug/L			10/10/13 00:08	1
4-Chlorotoluene	ND		1.0		ug/L			10/10/13 00:08	1
4-Isopropyltoluene	ND		1.0		ug/L			10/10/13 00:08	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			10/10/13 00:08	1
Acetone	ND		50		ug/L			10/10/13 00:08	1
Benzene	ND		1.0		ug/L			10/10/13 00:08	1
Bromobenzene	ND		1.0		ug/L			10/10/13 00:08	1
Bromoform	ND		1.0		ug/L			10/10/13 00:08	1
Bromomethane	ND		2.0		ug/L			10/10/13 00:08	1
Carbon disulfide	ND		10		ug/L			10/10/13 00:08	1
Carbon tetrachloride	ND		1.0		ug/L			10/10/13 00:08	1
Chlorobenzene	ND		1.0		ug/L			10/10/13 00:08	1
Chlorobromomethane	ND		1.0		ug/L			10/10/13 00:08	1
Chlorodibromomethane	ND		0.50		ug/L			10/10/13 00:08	1
Chloroethane	ND		2.0		ug/L			10/10/13 00:08	1
Chloroform	ND		1.0		ug/L			10/10/13 00:08	1
Chloromethane	ND		2.0		ug/L			10/10/13 00:08	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			10/10/13 00:08	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			10/10/13 00:08	1
Dichlorobromomethane	ND		0.50		ug/L			10/10/13 00:08	1
Dichlorodifluoromethane	ND		1.0		ug/L			10/10/13 00:08	1
Ethyl ether	ND		1.0		ug/L			10/10/13 00:08	1
Ethylbenzene	ND		1.0		ug/L			10/10/13 00:08	1
Ethylene Dibromide	ND		1.0		ug/L			10/10/13 00:08	1
Hexachlorobutadiene	ND		0.40		ug/L			10/10/13 00:08	1
Isopropyl ether	ND		10		ug/L			10/10/13 00:08	1
Isopropylbenzene	ND		1.0		ug/L			10/10/13 00:08	1
Methyl tert-butyl ether	ND		1.0		ug/L			10/10/13 00:08	1
Methylene Chloride	ND		1.0		ug/L			10/10/13 00:08	1
m-Xylene & p-Xylene	ND		2.0		ug/L			10/10/13 00:08	1
Naphthalene	ND		5.0		ug/L			10/10/13 00:08	1
n-Butylbenzene	ND		1.0		ug/L			10/10/13 00:08	1
N-Propylbenzene	ND		1.0		ug/L			10/10/13 00:08	1
o-Xylene	ND		1.0		ug/L			10/10/13 00:08	1
sec-Butylbenzene	ND		1.0		ug/L			10/10/13 00:08	1
Styrene	ND		1.0		ug/L			10/10/13 00:08	1
Tert-amyl methyl ether	ND		5.0		ug/L			10/10/13 00:08	1
Tert-butyl ethyl ether	ND		5.0		ug/L			10/10/13 00:08	1
tert-Butylbenzene	ND		1.0		ug/L			10/10/13 00:08	1
Tetrachloroethene	ND		1.0		ug/L			10/10/13 00:08	1
Tetrahydrofuran	ND		10		ug/L			10/10/13 00:08	1
Toluene	ND		1.0		ug/L			10/10/13 00:08	1

Client Sample ID: SEN-1M-20131002-01

Lab Sample ID: 480-47044-2

Date Collected: 10/02/13 11:20

Matrix: Water

Date Received: 10/03/13 02:00

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	ND		1.0		ug/L			10/10/13 00:08	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			10/10/13 00:08	1
Trichloroethene	ND		1.0		ug/L			10/10/13 00:08	1
Trichlorofluoromethane	ND		1.0		ug/L			10/10/13 00:08	1
Vinyl chloride	ND		1.0		ug/L			10/10/13 00:08	1
Dibromomethane	ND		1.0		ug/L			10/10/13 00:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*94*		*70 - 130*		*10/10/13 00:08*	*1*
1,2-Dichloroethane-d4 (Surr)	*87*		*70 - 130*		*10/10/13 00:08*	*1*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*		*10/10/13 00:08*	*1*

Client Sample ID: SEN-2D-20131002-01

Lab Sample ID: 480-47044-3

Date Collected: 10/02/13 14:30

Matrix: Water

Date Received: 10/03/13 02:00

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			10/10/13 01:22	1
1,1,1-Trichloroethane	ND		1.0		ug/L			10/10/13 01:22	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			10/10/13 01:22	1
1,1,2-Trichloroethane	ND		1.0		ug/L			10/10/13 01:22	1
1,1-Dichloroethane	ND		1.0		ug/L			10/10/13 01:22	1
1,1-Dichloroethene	ND		1.0		ug/L			10/10/13 01:22	1
1,1-Dichloropropene	ND		1.0		ug/L			10/10/13 01:22	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			10/10/13 01:22	1
1,2,3-Trichloropropane	ND		1.0		ug/L			10/10/13 01:22	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			10/10/13 01:22	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			10/10/13 01:22	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			10/10/13 01:22	1
1,2-Dichlorobenzene	ND		1.0		ug/L			10/10/13 01:22	1
1,2-Dichloroethane	ND		1.0		ug/L			10/10/13 01:22	1
1,2-Dichloropropane	ND		1.0		ug/L			10/10/13 01:22	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			10/10/13 01:22	1
1,3-Dichlorobenzene	ND		1.0		ug/L			10/10/13 01:22	1
1,3-Dichloropropane	ND		1.0		ug/L			10/10/13 01:22	1
1,4-Dichlorobenzene	ND		1.0		ug/L			10/10/13 01:22	1
1,4-Dioxane	ND	*	50		ug/L			10/10/13 01:22	1
2,2-Dichloropropane	ND		1.0		ug/L			10/10/13 01:22	1
2-Butanone (MEK)	ND	*	10		ug/L			10/10/13 01:22	1
2-Chlorotoluene	ND		1.0		ug/L			10/10/13 01:22	1
2-Hexanone	ND		10		ug/L			10/10/13 01:22	1
4-Chlorotoluene	ND		1.0		ug/L			10/10/13 01:22	1
4-Isopropyltoluene	ND		1.0		ug/L			10/10/13 01:22	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			10/10/13 01:22	1
Acetone	ND		50		ug/L			10/10/13 01:22	1
Benzene	ND		1.0		ug/L			10/10/13 01:22	1
Bromobenzene	ND		1.0		ug/L			10/10/13 01:22	1
Bromoform	ND		1.0		ug/L			10/10/13 01:22	1
Bromomethane	ND		2.0		ug/L			10/10/13 01:22	1

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-47044-1

Client Sample ID: SEN-2D-20131002-01
Date Collected: 10/02/13 14:30
Date Received: 10/03/13 02:00

Lab Sample ID: 480-47044-3
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	ND		10		ug/L			10/10/13 01:22	1
Carbon tetrachloride	ND		1.0		ug/L			10/10/13 01:22	1
Chlorobenzene	ND		1.0		ug/L			10/10/13 01:22	1
Chlorobromomethane	ND		1.0		ug/L			10/10/13 01:22	1
Chlorodibromomethane	ND		0.50		ug/L			10/10/13 01:22	1
Chloroethane	ND		2.0		ug/L			10/10/13 01:22	1
Chloroform	ND		1.0		ug/L			10/10/13 01:22	1
Chloromethane	ND		2.0		ug/L			10/10/13 01:22	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			10/10/13 01:22	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			10/10/13 01:22	1
Dichlorobromomethane	ND		0.50		ug/L			10/10/13 01:22	1
Dichlorodifluoromethane	ND		1.0		ug/L			10/10/13 01:22	1
Ethyl ether	ND		1.0		ug/L			10/10/13 01:22	1
Ethylbenzene	ND		1.0		ug/L			10/10/13 01:22	1
Ethylene Dibromide	ND		1.0		ug/L			10/10/13 01:22	1
Hexachlorobutadiene	ND		0.40		ug/L			10/10/13 01:22	1
Isopropyl ether	ND		10		ug/L			10/10/13 01:22	1
Isopropylbenzene	ND		1.0		ug/L			10/10/13 01:22	1
Methyl tert-butyl ether	ND		1.0		ug/L			10/10/13 01:22	1
Methylene Chloride	ND		1.0		ug/L			10/10/13 01:22	1
m-Xylene & p-Xylene	ND		2.0		ug/L			10/10/13 01:22	1
Naphthalene	ND		5.0		ug/L			10/10/13 01:22	1
n-Butylbenzene	ND		1.0		ug/L			10/10/13 01:22	1
N-Propylbenzene	ND		1.0		ug/L			10/10/13 01:22	1
o-Xylene	ND		1.0		ug/L			10/10/13 01:22	1
sec-Butylbenzene	ND		1.0		ug/L			10/10/13 01:22	1
Styrene	ND		1.0		ug/L			10/10/13 01:22	1
Tert-amyl methyl ether	ND		5.0		ug/L			10/10/13 01:22	1
Tert-butyl ethyl ether	ND		5.0		ug/L			10/10/13 01:22	1
tert-Butylbenzene	ND		1.0		ug/L			10/10/13 01:22	1
Tetrachloroethene	ND		1.0		ug/L			10/10/13 01:22	1
Tetrahydrofuran	ND		10		ug/L			10/10/13 01:22	1
Toluene	ND		1.0		ug/L			10/10/13 01:22	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			10/10/13 01:22	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			10/10/13 01:22	1
Trichloroethene	ND		1.0		ug/L			10/10/13 01:22	1
Trichlorofluoromethane	ND		1.0		ug/L			10/10/13 01:22	1
Vinyl chloride	ND		1.0		ug/L			10/10/13 01:22	1
Dibromomethane	ND		1.0		ug/L			10/10/13 01:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*93*		*70 - 130*		*10/10/13 01:22*	*1*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 130*		*10/10/13 01:22*	*1*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*		*10/10/13 01:22*	*1*

Client Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-47044-1

Client Sample ID: SEN-2M-20131002-01

Lab Sample ID: 480-47044-4

Date Collected: 10/02/13 15:30
Matrix: Water
Date Received: 10/03/13 02:00

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			10/10/13 01:47	1
1,1,1-Trichloroethane	ND		1.0		ug/L			10/10/13 01:47	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			10/10/13 01:47	1
1,1,2-Trichloroethane	ND		1.0		ug/L			10/10/13 01:47	1
1,1-Dichloroethane	ND		1.0		ug/L			10/10/13 01:47	1
1,1-Dichloroethene	ND		1.0		ug/L			10/10/13 01:47	1
1,1-Dichloropropene	ND		1.0		ug/L			10/10/13 01:47	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			10/10/13 01:47	1
1,2,3-Trichloropropane	ND		1.0		ug/L			10/10/13 01:47	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			10/10/13 01:47	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			10/10/13 01:47	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			10/10/13 01:47	1
1,2-Dichlorobenzene	ND		1.0		ug/L			10/10/13 01:47	1
1,2-Dichloroethane	ND		1.0		ug/L			10/10/13 01:47	1
1,2-Dichloropropane	ND		1.0		ug/L			10/10/13 01:47	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			10/10/13 01:47	1
1,3-Dichlorobenzene	ND		1.0		ug/L			10/10/13 01:47	1
1,3-Dichloropropane	ND		1.0		ug/L			10/10/13 01:47	1
1,4-Dichlorobenzene	ND		1.0		ug/L			10/10/13 01:47	1
1,4-Dioxane	ND	*	50		ug/L			10/10/13 01:47	1
2,2-Dichloropropane	ND		1.0		ug/L			10/10/13 01:47	1
2-Butanone (MEK)	ND	*	10		ug/L			10/10/13 01:47	1
2-Chlorotoluene	ND		1.0		ug/L			10/10/13 01:47	1
2-Hexanone	ND		10		ug/L			10/10/13 01:47	1
4-Chlorotoluene	ND		1.0		ug/L			10/10/13 01:47	1
4-Isopropyltoluene	ND		1.0		ug/L			10/10/13 01:47	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			10/10/13 01:47	1
Acetone	ND		50		ug/L			10/10/13 01:47	1
Benzene	ND		1.0		ug/L			10/10/13 01:47	1
Bromobenzene	ND		1.0		ug/L			10/10/13 01:47	1
Bromoform	ND		1.0		ug/L			10/10/13 01:47	1
Bromomethane	ND		2.0		ug/L			10/10/13 01:47	1
Carbon disulfide	ND		10		ug/L			10/10/13 01:47	1
Carbon tetrachloride	ND		1.0		ug/L			10/10/13 01:47	1
Chlorobenzene	ND		1.0		ug/L			10/10/13 01:47	1
Chlorobromomethane	ND		1.0		ug/L			10/10/13 01:47	1
Chlorodibromomethane	ND		0.50		ug/L			10/10/13 01:47	1
Chloroethane	ND		2.0		ug/L			10/10/13 01:47	1
Chloroform	ND		1.0		ug/L			10/10/13 01:47	1
Chloromethane	ND		2.0		ug/L			10/10/13 01:47	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			10/10/13 01:47	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			10/10/13 01:47	1
Dichlorobromomethane	ND		0.50		ug/L			10/10/13 01:47	1
Dichlorodifluoromethane	ND		1.0		ug/L			10/10/13 01:47	1
Ethyl ether	ND		1.0		ug/L			10/10/13 01:47	1
Ethylbenzene	ND		1.0		ug/L			10/10/13 01:47	1
Ethylene Dibromide	ND		1.0		ug/L			10/10/13 01:47	1
Hexachlorobutadiene	ND		0.40		ug/L			10/10/13 01:47	1
Isopropyl ether	ND		10		ug/L			10/10/13 01:47	1

Client Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-47044-1

Client Sample ID: SEN-2M-20131002-01

Lab Sample ID: 480-47044-4

Date Collected: 10/02/13 15:30

Matrix: Water

Date Received: 10/03/13 02:00

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	ND		1.0		ug/L			10/10/13 01:47	1
Methyl tert-butyl ether	ND		1.0		ug/L			10/10/13 01:47	1
Methylene Chloride	ND		1.0		ug/L			10/10/13 01:47	1
m-Xylene & p-Xylene	ND		2.0		ug/L			10/10/13 01:47	1
Naphthalene	ND		5.0		ug/L			10/10/13 01:47	1
n-Butylbenzene	ND		1.0		ug/L			10/10/13 01:47	1
N-Propylbenzene	ND		1.0		ug/L			10/10/13 01:47	1
o-Xylene	ND		1.0		ug/L			10/10/13 01:47	1
sec-Butylbenzene	ND		1.0		ug/L			10/10/13 01:47	1
Styrene	ND		1.0		ug/L			10/10/13 01:47	1
Tert-amyl methyl ether	ND		5.0		ug/L			10/10/13 01:47	1
Tert-butyl ethyl ether	ND		5.0		ug/L			10/10/13 01:47	1
tert-Butylbenzene	ND		1.0		ug/L			10/10/13 01:47	1
Tetrachloroethene	ND		1.0		ug/L			10/10/13 01:47	1
Tetrahydrofuran	ND		10		ug/L			10/10/13 01:47	1
Toluene	ND		1.0		ug/L			10/10/13 01:47	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			10/10/13 01:47	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			10/10/13 01:47	1
Trichloroethene	ND		1.0		ug/L			10/10/13 01:47	1
Trichlorofluoromethane	ND		1.0		ug/L			10/10/13 01:47	1
Vinyl chloride	ND		1.0		ug/L			10/10/13 01:47	1
Dibromomethane	ND		1.0		ug/L			10/10/13 01:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*97*		*70 - 130*		*10/10/13 01:47*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 130*		*10/10/13 01:47*	*1*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*		*10/10/13 01:47*	*1*

Surrogate Summary

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-47044-1

Method: 8260C - Volatile Organic Compounds (GC/MS)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		TOL	12DCE	BFB
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	(70-130)
480-47044-1	SEN-1D-20131002-01	94	87	107
480-47044-2	SEN-1M-20131002-01	94	87	110
480-47044-3	SEN-2D-20131002-01	93	94	100
480-47044-4	SEN-2M-20131002-01	97	98	103
LCS 480-143861/4	Lab Control Sample	97	84	112
LCS 480-143864/4	Lab Control Sample	94	98	106
LCSD 480-143861/5	Lab Control Sample Dup	96	84	113
LCSD 480-143864/5	Lab Control Sample Dup	94	99	105
MB 480-143861/7	Method Blank	96	87	110
MB 480-143864/7	Method Blank	97	95	104

Surrogate Legend

TOL = Toluene-d8 (Surr)

12DCE = 1,2-Dichloroethane-d4 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

Method: 8260C - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-143861/7
Matrix: Water
Analysis Batch: 143861

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			10/09/13 23:12	1
1,1,1-Trichloroethane	ND		1.0		ug/L			10/09/13 23:12	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			10/09/13 23:12	1
1,1,2-Trichloroethane	ND		1.0		ug/L			10/09/13 23:12	1
1,1-Dichloroethane	ND		1.0		ug/L			10/09/13 23:12	1
1,1-Dichloroethene	ND		1.0		ug/L			10/09/13 23:12	1
1,1-Dichloropropene	ND		1.0		ug/L			10/09/13 23:12	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			10/09/13 23:12	1
1,2,3-Trichloropropane	ND		1.0		ug/L			10/09/13 23:12	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			10/09/13 23:12	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			10/09/13 23:12	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			10/09/13 23:12	1
1,2-Dichlorobenzene	ND		1.0		ug/L			10/09/13 23:12	1
1,2-Dichloroethane	ND		1.0		ug/L			10/09/13 23:12	1
1,2-Dichloropropane	ND		1.0		ug/L			10/09/13 23:12	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			10/09/13 23:12	1
1,3-Dichlorobenzene	ND		1.0		ug/L			10/09/13 23:12	1
1,3-Dichloropropane	ND		1.0		ug/L			10/09/13 23:12	1
1,4-Dichlorobenzene	ND		1.0		ug/L			10/09/13 23:12	1
1,4-Dioxane	ND		50		ug/L			10/09/13 23:12	1
2,2-Dichloropropane	ND		1.0		ug/L			10/09/13 23:12	1
2-Butanone (MEK)	ND		10		ug/L			10/09/13 23:12	1
2-Chlorotoluene	ND		1.0		ug/L			10/09/13 23:12	1
2-Hexanone	ND		10		ug/L			10/09/13 23:12	1
4-Chlorotoluene	ND		1.0		ug/L			10/09/13 23:12	1
4-Isopropyltoluene	ND		1.0		ug/L			10/09/13 23:12	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			10/09/13 23:12	1
Acetone	ND		50		ug/L			10/09/13 23:12	1
Benzene	ND		1.0		ug/L			10/09/13 23:12	1
Bromobenzene	ND		1.0		ug/L			10/09/13 23:12	1
Bromoform	ND		1.0		ug/L			10/09/13 23:12	1
Bromomethane	ND		2.0		ug/L			10/09/13 23:12	1
Carbon disulfide	ND		10		ug/L			10/09/13 23:12	1
Carbon tetrachloride	ND		1.0		ug/L			10/09/13 23:12	1
Chlorobenzene	ND		1.0		ug/L			10/09/13 23:12	1
Chlorobromomethane	ND		1.0		ug/L			10/09/13 23:12	1
Chlorodibromomethane	ND		0.50		ug/L			10/09/13 23:12	1
Chloroethane	ND		2.0		ug/L			10/09/13 23:12	1
Chloroform	ND		1.0		ug/L			10/09/13 23:12	1
Chloromethane	ND		2.0		ug/L			10/09/13 23:12	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			10/09/13 23:12	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			10/09/13 23:12	1
Dichlorobromomethane	ND		0.50		ug/L			10/09/13 23:12	1
Dichlorodifluoromethane	ND		1.0		ug/L			10/09/13 23:12	1
Ethyl ether	ND		1.0		ug/L			10/09/13 23:12	1
Ethylbenzene	ND		1.0		ug/L			10/09/13 23:12	1
Ethylene Dibromide	ND		1.0		ug/L			10/09/13 23:12	1
Hexachlorobutadiene	ND		0.40		ug/L			10/09/13 23:12	1

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-143861/7
Matrix: Water
Analysis Batch: 143861

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropyl ether	ND		10		ug/L			10/09/13 23:12	1
Isopropylbenzene	ND		1.0		ug/L			10/09/13 23:12	1
Methyl tert-butyl ether	ND		1.0		ug/L			10/09/13 23:12	1
Methylene Chloride	ND		1.0		ug/L			10/09/13 23:12	1
m-Xylene & p-Xylene	ND		2.0		ug/L			10/09/13 23:12	1
Naphthalene	ND		5.0		ug/L			10/09/13 23:12	1
n-Butylbenzene	ND		1.0		ug/L			10/09/13 23:12	1
N-Propylbenzene	ND		1.0		ug/L			10/09/13 23:12	1
o-Xylene	ND		1.0		ug/L			10/09/13 23:12	1
sec-Butylbenzene	ND		1.0		ug/L			10/09/13 23:12	1
Styrene	ND		1.0		ug/L			10/09/13 23:12	1
Tert-amyl methyl ether	ND		5.0		ug/L			10/09/13 23:12	1
Tert-butyl ethyl ether	ND		5.0		ug/L			10/09/13 23:12	1
tert-Butylbenzene	ND		1.0		ug/L			10/09/13 23:12	1
Tetrachloroethene	ND		1.0		ug/L			10/09/13 23:12	1
Tetrahydrofuran	ND		10		ug/L			10/09/13 23:12	1
Toluene	ND		1.0		ug/L			10/09/13 23:12	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			10/09/13 23:12	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			10/09/13 23:12	1
Trichloroethene	ND		1.0		ug/L			10/09/13 23:12	1
Trichlorofluoromethane	ND		1.0		ug/L			10/09/13 23:12	1
Vinyl chloride	ND		1.0		ug/L			10/09/13 23:12	1
Dibromomethane	ND		1.0		ug/L			10/09/13 23:12	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*96*		*70 - 130*		*10/09/13 23:12*	*1*
1,2-Dichloroethane-d4 (Surr)	*87*		*70 - 130*		*10/09/13 23:12*	*1*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*		*10/09/13 23:12*	*1*

Lab Sample ID: LCS 480-143861/4
Matrix: Water
Analysis Batch: 143861

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	25.0	25.1		ug/L		101	70 - 130
1,1,1-Trichloroethane	25.0	23.6		ug/L		94	70 - 130
1,1,2,2-Tetrachloroethane	25.0	22.0		ug/L		88	70 - 130
1,1,2-Trichloroethane	25.0	22.9		ug/L		92	70 - 130
1,1-Dichloroethane	25.0	23.2		ug/L		93	70 - 130
1,1-Dichloroethene	25.0	25.6		ug/L		102	70 - 130
1,1-Dichloropropene	25.0	23.5		ug/L		94	70 - 130
1,2,3-Trichlorobenzene	25.0	26.4		ug/L		106	70 - 130
1,2,3-Trichloropropane	25.0	21.9		ug/L		87	70 - 130
1,2,4-Trichlorobenzene	25.0	26.2		ug/L		105	70 - 130
1,2,4-Trimethylbenzene	25.0	23.6		ug/L		94	70 - 130
1,2-Dibromo-3-Chloropropane	25.0	24.2		ug/L		97	70 - 130
1,2-Dichlorobenzene	25.0	24.6		ug/L		99	70 - 130
1,2-Dichloroethane	25.0	21.4		ug/L		86	70 - 130

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-143861/4
Matrix: Water
Analysis Batch: 143861

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichloropropane	25.0	22.9		ug/L		92	70 - 130
1,3,5-Trimethylbenzene	25.0	24.7		ug/L		99	70 - 130
1,3-Dichlorobenzene	25.0	24.7		ug/L		99	70 - 130
1,3-Dichloropropane	25.0	23.0		ug/L		92	70 - 130
1,4-Dichlorobenzene	25.0	24.6		ug/L		98	70 - 130
1,4-Dioxane	1000	1040		ug/L		104	70 - 130
2,2-Dichloropropane	25.0	22.7		ug/L		91	70 - 130
2-Butanone (MEK)	125	145		ug/L		116	70 - 130
2-Chlorotoluene	25.0	23.1		ug/L		93	70 - 130
2-Hexanone	125	102		ug/L		82	70 - 130
4-Chlorotoluene	25.0	23.2		ug/L		93	70 - 130
4-Isopropyltoluene	25.0	25.2		ug/L		101	70 - 130
4-Methyl-2-pentanone (MIBK)	125	102		ug/L		81	70 - 130
Acetone	125	104		ug/L		83	70 - 130
Benzene	25.0	25.6		ug/L		102	70 - 130
Bromobenzene	25.0	24.0		ug/L		96	70 - 130
Bromoform	25.0	21.4		ug/L		86	70 - 130
Bromomethane	25.0	25.5		ug/L		102	70 - 130
Carbon disulfide	25.0	25.0		ug/L		100	70 - 130
Carbon tetrachloride	25.0	22.8		ug/L		91	70 - 130
Chlorobenzene	25.0	25.5		ug/L		102	70 - 130
Chlorobromomethane	25.0	26.2		ug/L		105	70 - 130
Chlorodibromomethane	25.0	21.5		ug/L		86	70 - 130
Chloroethane	25.0	26.7		ug/L		107	70 - 130
Chloroform	25.0	23.6		ug/L		94	70 - 130
Chloromethane	25.0	19.0		ug/L		76	70 - 130
cis-1,2-Dichloroethene	25.0	24.7		ug/L		99	70 - 130
cis-1,3-Dichloropropene	25.0	24.7		ug/L		99	70 - 130
Dichlorobromomethane	25.0	23.5		ug/L		94	70 - 130
Dichlorodifluoromethane	50.0	50.2		ug/L		100	70 - 130
Ethyl ether	25.0	26.5		ug/L		106	70 - 130
Ethylbenzene	25.0	24.6		ug/L		98	70 - 130
Ethylene Dibromide	25.0	24.8		ug/L		99	70 - 130
Hexachlorobutadiene	25.0	27.3		ug/L		109	70 - 130
Isopropyl ether	25.0	22.7		ug/L		91	70 - 130
Isopropylbenzene	25.0	22.7		ug/L		91	70 - 130
Methyl tert-butyl ether	25.0	23.9		ug/L		95	70 - 130
Methylene Chloride	25.0	24.0		ug/L		96	70 - 130
m-Xylene & p-Xylene	50.0	50.8		ug/L		102	70 - 130
Naphthalene	25.0	25.5		ug/L		102	70 - 130
n-Butylbenzene	25.0	23.8		ug/L		95	70 - 130
N-Propylbenzene	25.0	21.6		ug/L		87	70 - 130
o-Xylene	25.0	25.4		ug/L		102	70 - 130
sec-Butylbenzene	25.0	24.2		ug/L		97	70 - 130
Styrene	25.0	26.2		ug/L		105	70 - 130
Tert-amyl methyl ether	25.0	23.2		ug/L		93	70 - 130
Tert-butyl ethyl ether	25.0	22.4		ug/L		90	70 - 130
tert-Butylbenzene	25.0	24.5		ug/L		98	70 - 130

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-143861/4
Matrix: Water
Analysis Batch: 143861

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Tetrachloroethene	25.0	30.2		ug/L		121	70 - 130
Tetrahydrofuran	125	101		ug/L		81	70 - 130
Toluene	25.0	24.5		ug/L		98	70 - 130
trans-1,2-Dichloroethene	25.0	24.8		ug/L		99	70 - 130
trans-1,3-Dichloropropene	25.0	23.4		ug/L		94	70 - 130
Trichloroethene	25.0	24.1		ug/L		96	70 - 130
Trichlorofluoromethane	25.0	26.9		ug/L		108	70 - 130
Vinyl chloride	25.0	26.1		ug/L		105	70 - 130
Dibromomethane	25.0	23.9		ug/L		96	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*97*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*84*		*70 - 130*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*

Lab Sample ID: LCSD 480-143861/5
Matrix: Water
Analysis Batch: 143861

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	25.0	25.4		ug/L		102	70 - 130	1	20
1,1,1-Trichloroethane	25.0	22.8		ug/L		91	70 - 130	3	20
1,1,2,2-Tetrachloroethane	25.0	22.3		ug/L		89	70 - 130	1	20
1,1,2-Trichloroethane	25.0	23.3		ug/L		93	70 - 130	2	20
1,1-Dichloroethane	25.0	22.3		ug/L		89	70 - 130	4	20
1,1-Dichloroethene	25.0	24.9		ug/L		100	70 - 130	3	20
1,1-Dichloropropene	25.0	22.6		ug/L		90	70 - 130	4	20
1,2,3-Trichlorobenzene	25.0	27.8		ug/L		111	70 - 130	5	20
1,2,3-Trichloropropane	25.0	22.2		ug/L		89	70 - 130	2	20
1,2,4-Trichlorobenzene	25.0	27.5		ug/L		110	70 - 130	5	20
1,2,4-Trimethylbenzene	25.0	24.5		ug/L		98	70 - 130	3	20
1,2-Dibromo-3-Chloropropane	25.0	25.0		ug/L		100	70 - 130	3	20
1,2-Dichlorobenzene	25.0	25.4		ug/L		102	70 - 130	3	20
1,2-Dichloroethane	25.0	20.6		ug/L		82	70 - 130	4	20
1,2-Dichloropropane	25.0	21.9		ug/L		88	70 - 130	4	20
1,3,5-Trimethylbenzene	25.0	25.4		ug/L		102	70 - 130	3	20
1,3-Dichlorobenzene	25.0	25.4		ug/L		102	70 - 130	3	20
1,3-Dichloropropane	25.0	23.2		ug/L		93	70 - 130	1	20
1,4-Dichlorobenzene	25.0	25.6		ug/L		102	70 - 130	4	20
1,4-Dioxane	1000	1040		ug/L		104	70 - 130	0	20
2,2-Dichloropropane	25.0	21.8		ug/L		87	70 - 130	4	20
2-Butanone (MEK)	125	141		ug/L		113	70 - 130	3	20
2-Chlorotoluene	25.0	23.8		ug/L		95	70 - 130	3	20
2-Hexanone	125	101		ug/L		81	70 - 130	1	20
4-Chlorotoluene	25.0	23.7		ug/L		95	70 - 130	2	20
4-Isopropyltoluene	25.0	26.1		ug/L		104	70 - 130	3	20
4-Methyl-2-pentanone (MIBK)	125	97.3		ug/L		78	70 - 130	5	20
Acetone	125	104		ug/L		83	70 - 130	1	20

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 480-143861/5
Matrix: Water
Analysis Batch: 143861

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	25.0	24.5		ug/L		98	70 - 130	4	20
Bromobenzene	25.0	25.4		ug/L		102	70 - 130	6	20
Bromoform	25.0	21.0		ug/L		84	70 - 130	2	20
Bromomethane	25.0	22.2		ug/L		89	70 - 130	14	20
Carbon disulfide	25.0	24.8		ug/L		99	70 - 130	1	20
Carbon tetrachloride	25.0	22.5		ug/L		90	70 - 130	1	20
Chlorobenzene	25.0	24.6		ug/L		98	70 - 130	4	20
Chlorobromomethane	25.0	25.1		ug/L		100	70 - 130	5	20
Chlorodibromomethane	25.0	21.9		ug/L		87	70 - 130	2	20
Chloroethane	25.0	25.6		ug/L		103	70 - 130	4	20
Chloroform	25.0	22.9		ug/L		92	70 - 130	3	20
Chloromethane	25.0	18.8		ug/L		75	70 - 130	2	20
cis-1,2-Dichloroethene	25.0	23.4		ug/L		94	70 - 130	5	20
cis-1,3-Dichloropropene	25.0	24.0		ug/L		96	70 - 130	3	20
Dichlorobromomethane	25.0	23.3		ug/L		93	70 - 130	1	20
Dichlorodifluoromethane	50.0	47.5		ug/L		95	70 - 130	5	20
Ethyl ether	25.0	25.4		ug/L		101	70 - 130	4	20
Ethylbenzene	25.0	24.5		ug/L		98	70 - 130	0	20
Ethylene Dibromide	25.0	24.8		ug/L		99	70 - 130	0	20
Hexachlorobutadiene	25.0	28.2		ug/L		113	70 - 130	3	20
Isopropyl ether	25.0	21.8		ug/L		87	70 - 130	4	20
Isopropylbenzene	25.0	23.6		ug/L		95	70 - 130	4	20
Methyl tert-butyl ether	25.0	23.6		ug/L		94	70 - 130	1	20
Methylene Chloride	25.0	23.7		ug/L		95	70 - 130	1	20
m-Xylene & p-Xylene	50.0	49.7		ug/L		99	70 - 130	2	20
Naphthalene	25.0	27.0		ug/L		108	70 - 130	6	20
n-Butylbenzene	25.0	24.3		ug/L		97	70 - 130	2	20
N-Propylbenzene	25.0	22.0		ug/L		88	70 - 130	2	20
o-Xylene	25.0	24.9		ug/L		100	70 - 130	2	20
sec-Butylbenzene	25.0	24.9		ug/L		99	70 - 130	3	20
Styrene	25.0	25.7		ug/L		103	70 - 130	2	20
Tert-amyl methyl ether	25.0	22.7		ug/L		91	70 - 130	2	20
Tert-butyl ethyl ether	25.0	22.4		ug/L		90	70 - 130	0	20
tert-Butylbenzene	25.0	25.4		ug/L		102	70 - 130	3	20
Tetrachloroethene	25.0	29.9		ug/L		120	70 - 130	1	20
Tetrahydrofuran	125	98.9		ug/L		79	70 - 130	2	20
Toluene	25.0	24.3		ug/L		97	70 - 130	1	20
trans-1,2-Dichloroethene	25.0	23.8		ug/L		95	70 - 130	4	20
trans-1,3-Dichloropropene	25.0	23.4		ug/L		94	70 - 130	0	20
Trichloroethene	25.0	23.2		ug/L		93	70 - 130	4	20
Trichlorofluoromethane	25.0	25.9		ug/L		104	70 - 130	4	20
Vinyl chloride	25.0	25.6		ug/L		102	70 - 130	2	20
Dibromomethane	25.0	22.8		ug/L		91	70 - 130	5	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*96*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*84*		*70 - 130*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-143864/7
Matrix: Water
Analysis Batch: 143864

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			10/10/13 00:45	1
1,1,1-Trichloroethane	ND		1.0		ug/L			10/10/13 00:45	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			10/10/13 00:45	1
1,1,2-Trichloroethane	ND		1.0		ug/L			10/10/13 00:45	1
1,1-Dichloroethane	ND		1.0		ug/L			10/10/13 00:45	1
1,1-Dichloroethene	ND		1.0		ug/L			10/10/13 00:45	1
1,1-Dichloropropene	ND		1.0		ug/L			10/10/13 00:45	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			10/10/13 00:45	1
1,2,3-Trichloropropane	ND		1.0		ug/L			10/10/13 00:45	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			10/10/13 00:45	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			10/10/13 00:45	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			10/10/13 00:45	1
1,2-Dichlorobenzene	ND		1.0		ug/L			10/10/13 00:45	1
1,2-Dichloroethane	ND		1.0		ug/L			10/10/13 00:45	1
1,2-Dichloropropane	ND		1.0		ug/L			10/10/13 00:45	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			10/10/13 00:45	1
1,3-Dichlorobenzene	ND		1.0		ug/L			10/10/13 00:45	1
1,3-Dichloropropane	ND		1.0		ug/L			10/10/13 00:45	1
1,4-Dichlorobenzene	ND		1.0		ug/L			10/10/13 00:45	1
1,4-Dioxane	ND		50		ug/L			10/10/13 00:45	1
2,2-Dichloropropane	ND		1.0		ug/L			10/10/13 00:45	1
2-Butanone (MEK)	ND		10		ug/L			10/10/13 00:45	1
2-Chlorotoluene	ND		1.0		ug/L			10/10/13 00:45	1
2-Hexanone	ND		10		ug/L			10/10/13 00:45	1
4-Chlorotoluene	ND		1.0		ug/L			10/10/13 00:45	1
4-Isopropyltoluene	ND		1.0		ug/L			10/10/13 00:45	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			10/10/13 00:45	1
Acetone	ND		50		ug/L			10/10/13 00:45	1
Benzene	ND		1.0		ug/L			10/10/13 00:45	1
Bromobenzene	ND		1.0		ug/L			10/10/13 00:45	1
Bromoform	ND		1.0		ug/L			10/10/13 00:45	1
Bromomethane	ND		2.0		ug/L			10/10/13 00:45	1
Carbon disulfide	ND		10		ug/L			10/10/13 00:45	1
Carbon tetrachloride	ND		1.0		ug/L			10/10/13 00:45	1
Chlorobenzene	ND		1.0		ug/L			10/10/13 00:45	1
Chlorobromomethane	ND		1.0		ug/L			10/10/13 00:45	1
Chlorodibromomethane	ND		0.50		ug/L			10/10/13 00:45	1
Chloroethane	ND		2.0		ug/L			10/10/13 00:45	1
Chloroform	ND		1.0		ug/L			10/10/13 00:45	1
Chloromethane	ND		2.0		ug/L			10/10/13 00:45	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			10/10/13 00:45	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			10/10/13 00:45	1
Dichlorobromomethane	ND		0.50		ug/L			10/10/13 00:45	1
Dichlorodifluoromethane	ND		1.0		ug/L			10/10/13 00:45	1
Ethyl ether	ND		1.0		ug/L			10/10/13 00:45	1
Ethylbenzene	ND		1.0		ug/L			10/10/13 00:45	1
Ethylene Dibromide	ND		1.0		ug/L			10/10/13 00:45	1
Hexachlorobutadiene	ND		0.40		ug/L			10/10/13 00:45	1

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-143864/7
Matrix: Water
Analysis Batch: 143864

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropyl ether	ND		10		ug/L			10/10/13 00:45	1
Isopropylbenzene	ND		1.0		ug/L			10/10/13 00:45	1
Methyl tert-butyl ether	ND		1.0		ug/L			10/10/13 00:45	1
Methylene Chloride	ND		1.0		ug/L			10/10/13 00:45	1
m-Xylene & p-Xylene	ND		2.0		ug/L			10/10/13 00:45	1
Naphthalene	ND		5.0		ug/L			10/10/13 00:45	1
n-Butylbenzene	ND		1.0		ug/L			10/10/13 00:45	1
N-Propylbenzene	ND		1.0		ug/L			10/10/13 00:45	1
o-Xylene	ND		1.0		ug/L			10/10/13 00:45	1
sec-Butylbenzene	ND		1.0		ug/L			10/10/13 00:45	1
Styrene	ND		1.0		ug/L			10/10/13 00:45	1
Tert-amyl methyl ether	ND		5.0		ug/L			10/10/13 00:45	1
Tert-butyl ethyl ether	ND		5.0		ug/L			10/10/13 00:45	1
tert-Butylbenzene	ND		1.0		ug/L			10/10/13 00:45	1
Tetrachloroethene	ND		1.0		ug/L			10/10/13 00:45	1
Tetrahydrofuran	ND		10		ug/L			10/10/13 00:45	1
Toluene	ND		1.0		ug/L			10/10/13 00:45	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			10/10/13 00:45	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			10/10/13 00:45	1
Trichloroethene	ND		1.0		ug/L			10/10/13 00:45	1
Trichlorofluoromethane	ND		1.0		ug/L			10/10/13 00:45	1
Vinyl chloride	ND		1.0		ug/L			10/10/13 00:45	1
Dibromomethane	ND		1.0		ug/L			10/10/13 00:45	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*97*		*70 - 130*		*10/10/13 00:45*	*1*
1,2-Dichloroethane-d4 (Surr)	*95*		*70 - 130*		*10/10/13 00:45*	*1*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*		*10/10/13 00:45*	*1*

Lab Sample ID: LCS 480-143864/4
Matrix: Water
Analysis Batch: 143864

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	25.0	25.4		ug/L		102	70 - 130
1,1,1-Trichloroethane	25.0	25.4		ug/L		102	70 - 130
1,1,2,2-Tetrachloroethane	25.0	23.8		ug/L		95	70 - 130
1,1,2-Trichloroethane	25.0	24.7		ug/L		99	70 - 130
1,1-Dichloroethane	25.0	25.4		ug/L		102	70 - 130
1,1-Dichloroethene	25.0	25.6		ug/L		102	70 - 130
1,1-Dichloropropene	25.0	25.9		ug/L		104	70 - 130
1,2,3-Trichlorobenzene	25.0	24.2		ug/L		97	70 - 130
1,2,3-Trichloropropane	25.0	24.4		ug/L		97	70 - 130
1,2,4-Trichlorobenzene	25.0	23.7		ug/L		95	70 - 130
1,2,4-Trimethylbenzene	25.0	23.3		ug/L		93	70 - 130
1,2-Dibromo-3-Chloropropane	25.0	21.6		ug/L		86	70 - 130
1,2-Dichlorobenzene	25.0	23.5		ug/L		94	70 - 130
1,2-Dichloroethane	25.0	24.3		ug/L		97	70 - 130

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-143864/4
Matrix: Water
Analysis Batch: 143864

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichloropropane	25.0	24.9		ug/L		100	70 - 130
1,3,5-Trimethylbenzene	25.0	23.4		ug/L		94	70 - 130
1,3-Dichlorobenzene	25.0	23.4		ug/L		94	70 - 130
1,3-Dichloropropane	25.0	24.5		ug/L		98	70 - 130
1,4-Dichlorobenzene	25.0	23.4		ug/L		94	70 - 130
1,4-Dioxane	1000	1210		ug/L		121	70 - 130
2,2-Dichloropropane	25.0	24.8		ug/L		99	70 - 130
2-Butanone (MEK)	125	178	*	ug/L		143	70 - 130
2-Chlorotoluene	25.0	28.4		ug/L		114	70 - 130
2-Hexanone	125	126		ug/L		101	70 - 130
4-Chlorotoluene	25.0	26.1		ug/L		105	70 - 130
4-Isopropyltoluene	25.0	23.7		ug/L		95	70 - 130
4-Methyl-2-pentanone (MIBK)	125	122		ug/L		97	70 - 130
Acetone	125	134		ug/L		107	70 - 130
Benzene	25.0	25.1		ug/L		101	70 - 130
Bromobenzene	25.0	23.7		ug/L		95	70 - 130
Bromoform	25.0	27.2		ug/L		109	70 - 130
Bromomethane	25.0	25.7		ug/L		103	70 - 130
Carbon disulfide	25.0	24.4		ug/L		98	70 - 130
Carbon tetrachloride	25.0	25.9		ug/L		103	70 - 130
Chlorobenzene	25.0	24.5		ug/L		98	70 - 130
Chlorobromomethane	25.0	25.9		ug/L		104	70 - 130
Chlorodibromomethane	25.0	26.0		ug/L		104	70 - 130
Chloroethane	25.0	26.2		ug/L		105	70 - 130
Chloroform	25.0	24.8		ug/L		99	70 - 130
Chloromethane	25.0	24.5		ug/L		98	70 - 130
cis-1,2-Dichloroethene	25.0	24.9		ug/L		100	70 - 130
cis-1,3-Dichloropropene	25.0	26.5		ug/L		106	70 - 130
Dichlorobromomethane	25.0	25.4		ug/L		102	70 - 130
Dichlorodifluoromethane	50.0	58.0		ug/L		116	70 - 130
Ethyl ether	25.0	26.0		ug/L		104	70 - 130
Ethylbenzene	25.0	24.4		ug/L		97	70 - 130
Ethylene Dibromide	25.0	24.6		ug/L		99	70 - 130
Hexachlorobutadiene	25.0	24.6		ug/L		99	70 - 130
Isopropyl ether	25.0	25.5		ug/L		102	70 - 130
Isopropylbenzene	25.0	23.5		ug/L		94	70 - 130
Methyl tert-butyl ether	25.0	25.7		ug/L		103	70 - 130
Methylene Chloride	25.0	25.0		ug/L		100	70 - 130
m-Xylene & p-Xylene	50.0	48.9		ug/L		98	70 - 130
Naphthalene	25.0	23.5		ug/L		94	70 - 130
n-Butylbenzene	25.0	23.4		ug/L		94	70 - 130
N-Propylbenzene	25.0	23.6		ug/L		95	70 - 130
o-Xylene	25.0	24.6		ug/L		98	70 - 130
sec-Butylbenzene	25.0	23.6		ug/L		95	70 - 130
Styrene	25.0	24.6		ug/L		98	70 - 130
Tert-amyl methyl ether	25.0	25.4		ug/L		101	70 - 130
Tert-butyl ethyl ether	25.0	24.6		ug/L		98	70 - 130
tert-Butylbenzene	25.0	23.4		ug/L		94	70 - 130

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-143864/4
Matrix: Water
Analysis Batch: 143864

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Tetrachloroethene	25.0	28.0		ug/L		112	70 - 130
Tetrahydrofuran	125	122		ug/L		98	70 - 130
Toluene	25.0	24.3		ug/L		97	70 - 130
trans-1,2-Dichloroethene	25.0	25.2		ug/L		101	70 - 130
trans-1,3-Dichloropropene	25.0	25.4		ug/L		101	70 - 130
Trichloroethene	25.0	25.5		ug/L		102	70 - 130
Trichlorofluoromethane	25.0	26.7		ug/L		107	70 - 130
Vinyl chloride	25.0	26.6		ug/L		106	70 - 130
Dibromomethane	25.0	25.3		ug/L		101	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*94*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 130*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*

Lab Sample ID: LCSD 480-143864/5
Matrix: Water
Analysis Batch: 143864

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	25.0	25.2		ug/L		101	70 - 130	1	20
1,1,1-Trichloroethane	25.0	25.2		ug/L		101	70 - 130	1	20
1,1,2,2-Tetrachloroethane	25.0	24.2		ug/L		97	70 - 130	1	20
1,1,2-Trichloroethane	25.0	25.0		ug/L		100	70 - 130	1	20
1,1-Dichloroethane	25.0	25.0		ug/L		100	70 - 130	1	20
1,1-Dichloroethene	25.0	25.4		ug/L		102	70 - 130	1	20
1,1-Dichloropropene	25.0	25.8		ug/L		103	70 - 130	0	20
1,2,3-Trichlorobenzene	25.0	24.9		ug/L		100	70 - 130	3	20
1,2,3-Trichloropropane	25.0	24.0		ug/L		96	70 - 130	2	20
1,2,4-Trichlorobenzene	25.0	24.2		ug/L		97	70 - 130	2	20
1,2,4-Trimethylbenzene	25.0	23.9		ug/L		96	70 - 130	2	20
1,2-Dibromo-3-Chloropropane	25.0	22.0		ug/L		88	70 - 130	2	20
1,2-Dichlorobenzene	25.0	24.0		ug/L		96	70 - 130	2	20
1,2-Dichloroethane	25.0	24.7		ug/L		99	70 - 130	2	20
1,2-Dichloropropane	25.0	25.3		ug/L		101	70 - 130	1	20
1,3,5-Trimethylbenzene	25.0	23.8		ug/L		95	70 - 130	2	20
1,3-Dichlorobenzene	25.0	24.0		ug/L		96	70 - 130	2	20
1,3-Dichloropropane	25.0	24.8		ug/L		99	70 - 130	1	20
1,4-Dichlorobenzene	25.0	24.1		ug/L		96	70 - 130	3	20
1,4-Dioxane	1000	1310	*	ug/L		131	70 - 130	8	20
2,2-Dichloropropane	25.0	24.6		ug/L		99	70 - 130	1	20
2-Butanone (MEK)	125	178	*	ug/L		142	70 - 130	0	20
2-Chlorotoluene	25.0	28.6		ug/L		115	70 - 130	1	20
2-Hexanone	125	126		ug/L		101	70 - 130	0	20
4-Chlorotoluene	25.0	25.9		ug/L		104	70 - 130	1	20
4-Isopropyltoluene	25.0	23.6		ug/L		94	70 - 130	0	20
4-Methyl-2-pentanone (MIBK)	125	123		ug/L		98	70 - 130	1	20
Acetone	125	136		ug/L		109	70 - 130	2	20

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 480-143864/5
Matrix: Water
Analysis Batch: 143864

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	25.0	24.8		ug/L		99	70 - 130	1	20
Bromobenzene	25.0	24.1		ug/L		97	70 - 130	2	20
Bromoform	25.0	27.4		ug/L		110	70 - 130	0	20
Bromomethane	25.0	24.8		ug/L		99	70 - 130	4	20
Carbon disulfide	25.0	24.4		ug/L		98	70 - 130	0	20
Carbon tetrachloride	25.0	25.5		ug/L		102	70 - 130	1	20
Chlorobenzene	25.0	24.6		ug/L		98	70 - 130	0	20
Chlorobromomethane	25.0	25.9		ug/L		104	70 - 130	0	20
Chlorodibromomethane	25.0	26.5		ug/L		106	70 - 130	2	20
Chloroethane	25.0	25.4		ug/L		102	70 - 130	3	20
Chloroform	25.0	24.8		ug/L		99	70 - 130	0	20
Chloromethane	25.0	23.9		ug/L		96	70 - 130	2	20
cis-1,2-Dichloroethene	25.0	24.8		ug/L		99	70 - 130	1	20
cis-1,3-Dichloropropene	25.0	27.0		ug/L		108	70 - 130	2	20
Dichlorobromomethane	25.0	25.5		ug/L		102	70 - 130	0	20
Dichlorodifluoromethane	50.0	55.7		ug/L		111	70 - 130	4	20
Ethyl ether	25.0	25.9		ug/L		104	70 - 130	0	20
Ethylbenzene	25.0	24.4		ug/L		98	70 - 130	0	20
Ethylene Dibromide	25.0	24.8		ug/L		99	70 - 130	1	20
Hexachlorobutadiene	25.0	25.1		ug/L		101	70 - 130	2	20
Isopropyl ether	25.0	25.4		ug/L		102	70 - 130	0	20
Isopropylbenzene	25.0	23.5		ug/L		94	70 - 130	0	20
Methyl tert-butyl ether	25.0	25.4		ug/L		101	70 - 130	1	20
Methylene Chloride	25.0	25.1		ug/L		100	70 - 130	0	20
m-Xylene & p-Xylene	50.0	49.7		ug/L		99	70 - 130	2	20
Naphthalene	25.0	24.4		ug/L		98	70 - 130	4	20
n-Butylbenzene	25.0	23.6		ug/L		94	70 - 130	1	20
N-Propylbenzene	25.0	23.9		ug/L		96	70 - 130	1	20
o-Xylene	25.0	24.9		ug/L		100	70 - 130	1	20
sec-Butylbenzene	25.0	23.7		ug/L		95	70 - 130	0	20
Styrene	25.0	24.9		ug/L		100	70 - 130	1	20
Tert-amyl methyl ether	25.0	25.7		ug/L		103	70 - 130	1	20
Tert-butyl ethyl ether	25.0	24.2		ug/L		97	70 - 130	2	20
tert-Butylbenzene	25.0	24.1		ug/L		96	70 - 130	3	20
Tetrachloroethene	25.0	28.5		ug/L		114	70 - 130	2	20
Tetrahydrofuran	125	122		ug/L		98	70 - 130	0	20
Toluene	25.0	24.1		ug/L		96	70 - 130	1	20
trans-1,2-Dichloroethene	25.0	25.0		ug/L		100	70 - 130	1	20
trans-1,3-Dichloropropene	25.0	25.7		ug/L		103	70 - 130	1	20
Trichloroethene	25.0	25.5		ug/L		102	70 - 130	0	20
Trichlorofluoromethane	25.0	26.1		ug/L		104	70 - 130	2	20
Vinyl chloride	25.0	26.1		ug/L		104	70 - 130	2	20
Dibromomethane	25.0	25.6		ug/L		102	70 - 130	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*94*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*

QC Association Summary

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-47044-1

GC/MS VOA

Analysis Batch: 143861

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-47044-1	SEN-1D-20131002-01	Total/NA	Water	8260C	
480-47044-2	SEN-1M-20131002-01	Total/NA	Water	8260C	
LCS 480-143861/4	Lab Control Sample	Total/NA	Water	8260C	
LCSD 480-143861/5	Lab Control Sample Dup	Total/NA	Water	8260C	
MB 480-143861/7	Method Blank	Total/NA	Water	8260C	

Analysis Batch: 143864

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-47044-3	SEN-2D-20131002-01	Total/NA	Water	8260C	
480-47044-4	SEN-2M-20131002-01	Total/NA	Water	8260C	
LCS 480-143864/4	Lab Control Sample	Total/NA	Water	8260C	
LCSD 480-143864/5	Lab Control Sample Dup	Total/NA	Water	8260C	
MB 480-143864/7	Method Blank	Total/NA	Water	8260C	

Lab Chronicle

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-47044-1

Client Sample ID: SEN-1D-20131002-01 — Lab Sample ID: 480-47044-1

Date Collected: 10/02/13 10:10 — **Matrix: Water**
Date Received: 10/03/13 02:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	143861	10/09/13 23:45	LCH	TAL BUF

Client Sample ID: SEN-1M-20131002-01 — Lab Sample ID: 480-47044-2

Date Collected: 10/02/13 11:20 — **Matrix: Water**
Date Received: 10/03/13 02:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	143861	10/10/13 00:08	LCH	TAL BUF

Client Sample ID: SEN-2D-20131002-01 — Lab Sample ID: 480-47044-3

Date Collected: 10/02/13 14:30 — **Matrix: Water**
Date Received: 10/03/13 02:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	143864	10/10/13 01:22	LCH	TAL BUF

Client Sample ID: SEN-2M-20131002-01 — Lab Sample ID: 480-47044-4

Date Collected: 10/02/13 15:30 — **Matrix: Water**
Date Received: 10/03/13 02:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	143864	10/10/13 01:47	LCH	TAL BUF

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Certification Summary

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-47044-1

Laboratory: TestAmerica Buffalo

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Arkansas DEQ	State Program	6	88-0686	11-06-13
California	NELAP	9	1169CA	10-30-13
Connecticut	State Program	1	PH-0568	09-30-14
Florida	NELAP	4	E87672	06-30-14
Georgia	State Program	4	N/A	03-31-14
Iowa	State Program	7	374	03-15-15
Kansas	NELAP	7	E-10187	01-31-14
Kentucky	State Program	4	90029	12-31-13
Kentucky (UST)	State Program	4	30	04-01-14
Louisiana	NELAP	6	02031	06-30-14
Maine	State Program	1	NY00044	12-04-14
Maryland	State Program	3	294	03-31-14
Massachusetts	State Program	1	M-NY044	06-30-14
Michigan	State Program	5	9937	04-01-14
Minnesota	NELAP	5	036-999-337	12-31-13
New Hampshire	NELAP	1	2973	09-11-14
New Jersey	NELAP	2	NY455	06-30-14
New York	NELAP	2	10026	04-01-14
North Dakota	State Program	8	R-176	03-31-14
Oklahoma	State Program	6	9421	08-31-14
Oregon	NELAP	10	NY200003	06-09-14
Pennsylvania	NELAP	3	68-00281	07-31-14
Rhode Island	State Program	1	LAO00328	12-31-13
Tennessee	State Program	4	TN02970	04-01-14
Texas	NELAP	6	T104704412-11-2	07-31-14
USDA	Federal		P330-11-00386	11-22-14
Virginia	NELAP	3	460185	09-14-14
Washington	State Program	10	C784	02-10-14
West Virginia DEP	State Program	3	252	12-31-13
Wisconsin	State Program	5	998310390	08-31-14

Method Summary

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-47044-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds (GC/MS)	MA DEP	TAL BUF

Protocol References:

MA DEP = Massachusetts Department Of Environmental Protection

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Sample Summary

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-47044-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-47044-1	SEN-1D-20131002-01	Water	10/02/13 10:10	10/03/13 02:00
480-47044-2	SEN-1M-20131002-01	Water	10/02/13 11:20	10/03/13 02:00
480-47044-3	SEN-2D-20131002-01	Water	10/02/13 14:30	10/03/13 02:00
480-47044-4	SEN-2M-20131002-01	Water	10/02/13 15:30	10/03/13 02:00

Login Sample Receipt Checklist

Client: ERM-Northeast

Job Number: 480-47044-1

Login Number: 47044
List Number: 1
Creator: Wienke, Robert K

List Source: TestAmerica Buffalo

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

Chain of Custody Record

Temperature on Receipt _____

Drinking Water? Yes ☐ No ☒

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TAL-4124 (1007)

Client	Project Manager	Date	Chain of Custody Number
Lyndsey Colburn, ERM	Lyndsey Colburn	10-2-13	238032
Address	**Telephone Number (Area Code)/Fax Number**	**Lab Number**	**Page 1 of 1**
1 Beacon Street 5th Floor	1-617-646-7829		
City / State / Zip Code	**Site Contact**	**Lab Contact**	
Boston / MA / 02108	Stacey Braga	Becky Mason	
Project Name and Location (State)	**Carrier/Waybill Number**		
IDS Wayland Wayland, MA			
Contract/Purchase Order/Quote No.			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Analysis (Attach list if more space is needed): 8260B-MCD	Special Instructions/ Conditions of Receipt
SEN-1D-20131002-01	10-2-13	10:10		X						X			X	3 vials
SEN-1M-20131002-01	10-2-13	11:20		X						X			X	2 vials
SEN-2D-20131002-01	10-2-13	14:30		X						X			X	3 vials
SEN-2M-20131002-01	10-2-13	15:30		X						X			X	3 vials

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required
☐ 24 Hours ☐ 48 Hours ☒ 7 Days ☐ 14 Days ☐ 21 Days ☐ Other _____

QC Requirements (Specify)

	Date	Time
1. Relinquished By	10/3/13	13:45
2. Relinquished By TAL	10/2/13	1630
3. Relinquished By		
1. Received By TAL	10/2/13	1545
2. Received By TAL	10/3/13	0200
3. Received By		

Comments

Z-4#1

WHITE - Returns to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

TestAmerica Job ID: 480-47046-1
Client Project/Site: IDS Wayland

For:
ERM-Northeast
One Beacon Steet
5th Floor
Boston, Massachusetts 02108

Attn: Jason Flattery

Authorized for release by:
10/17/2013 10:12:31 AM

Becky Mason, Project Manager II
(413)572-4000
becky.mason@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD exceeds the control limits
F	MS/MSD Recovery and/or RPD exceeds the control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 480-47046-1

Laboratory: TestAmerica Buffalo

Narrative

Receipt
The samples were received on 10/3/2013 2:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.4º C.

GC/MS VOA
Method 8260C: The continuing calibration verification (CCV) for Dichlorodifluoromethane and Vinyl chloride associated with batchs 143864 and 143681 recovered above the MCP upper control limit. MCP protocol allows for 20% of the target compounds to be outside the 20% difference but not over 40% difference.

Method 8260C: The laboratory control sample (LCS) for batch 143681 exceeded control limits for the following analyte: Dichlorodifluoromethane. MCP protocol allows for 10% of the target compounds to be outside of the limits provided the recoveries are over 10%.

Method 8260C: The laboratory control sample (LCS) and the laboratory control sample duplicate (LCSD) for batchs 143864, 143960, 144314, 145302 and 143681 exceeded control limits for the following analyte: 2-Butanone. Unlike the calibration standards, this is due to the coelution with Ethyl Acetate in the spiking solution. This does not indicate a performance issue with the spike recovery, but rather the laboratory's ability to measure the two analytes together in a combined spiking solution. Through the use of spectral analysis, the two compounds can be distinguished from one another if present in a client sample.

Method 8260C: The laboratory control sample duplicate (LCSD) for batch 143864 exceeded control limits for the following analytes: 1,4-Dioxane. MCP protocol allows for 10% of the target compounds to be outside of the limits provided the recoveries are over 10%.

Method 8260C: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 145302 were outside control limits. The associated laboratory control sample (LCS) recovery met acceptance criteria.

Method 8260C: The matrix spike/matrix spike duplicate (MS/MSD) for batch 145302 exceeded control limits for the following analyte: 2-Butanone. Unlike the calibration standards, this is due to the coelution with Ethyl Acetate in the spiking solution. This does not indicate a performance issue with the spike recovery, but rather the laboratory's ability to measure the two analytes together in a combined spiking solution. Through the use of spectral analysis, the two compounds can be distinguished from one another if present in a client sample.

With the exception of diluted samples, per question G on the MassDEP Analytical Protocol Certification Form, TestAmerica's routine reporting limits do not achieve the CAM reporting limits specified in this CAM protocol for 1,2-dibromo-3-chloropropane, Carbon Disulfide, Isopropyl Ether, Naphthalene, tert-Butyl Ethyl Ether, tert-Amyl Methyl Ether, & Tetrahydrofuran.

No other analytical or quality issues were noted.

GC/MS Semi VOA
No analytical or quality issues were noted.

Organic Prep
No analytical or quality issues were noted.

MassDEP Analytical Protocol Certification Form

Laboratory Name: **TestAmerica Buffalo** Project #: **480-47046-1**

Project Location: **Wayland** RTN:

This form provides certifications for the following data set: list Laboratory Sample ID Number(s):

480-47046-1[1-16]

Matrices: [X] Groundwater/Surface Water [ ] Soil/Sediment [ ] Drinking Water [ ] Air [ ] Other:

CAM Protocols (check all that apply below):

8260 VOC CAM II A [X]	7470/7471 Hg CAM III B [ ]	Mass DEP VPH CAM IV A [ ]	8081 Pesticides CAM V B [ ]	7196 Hex Cr CAM VI B [ ]	Mass DEP APH CAM IX A [ ]
8270 SVOC CAM II B [ ]	6010 Metals CAM III C [ ]	Mass DEP EPH CAM IV B [ ]	8151 Herbicides CAM V C [ ]	8330 Explosives CAM VIII A [ ]	TO-15 VOC CAM IX B [ ]
6010 Metals CAM III A [ ]	6020 Metals CAM III D [ ]	8082 PCB CAM V A [ ]	9014 Total Cyanide/PAC CAM VI A [ ]	6860 Perchlorate CAM VIII B [ ]	

Affirmative Responses to Questions A through F are required for "Presumptive Certainty" status

A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding time.	[X] Yes [ ] No
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	[X] Yes [ ] No
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	[X] Yes [ ] No
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	[X] Yes [ ] No
E	a. VPH, EPH and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications). b. APH and TO-15 Methods only: Was the complete analyte list reported for each method?	[ ] Yes [ ] No [ ] Yes [ ] No
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	[X] Yes [ ] No

Responses to Questions G, H and I below are required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	[ ] Yes [X] No[1]

***Data User Note:* Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WCS-07-350**

H	Were **all** QC performance standards specified in the CAM protocol(s) achieved?	[ ] Yes [X] No[1]
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s) ?	[X] Yes [ ] No[1]

[1] All negative responses must be addressed in an attached laboratory narrative.

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, is accurate and complete.

Signature: Position: Project Manager

Printed Name: Becky Mason Date: 10/17/13 10:08

This form has been electronically signed and approved

Detection Summary

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-47046-1

Client Sample ID: DUP-003-20131002-01 — Lab Sample ID: 480-47046-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	1.4		1.0		ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	1.8		1.0		ug/L	1		8260C	Total/NA
Tetrachloroethene	3.1		1.0		ug/L	1		8260C	Total/NA
Trichloroethene	33		1.0		ug/L	1		8260C	Total/NA

Client Sample ID: MW-1006-20131002-01 — Lab Sample ID: 480-47046-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Trichloroethene	1.1		1.0		ug/L	1		8260C	Total/NA

Client Sample ID: MW-1015D-20131002-01 — Lab Sample ID: 480-47046-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	1.5		1.0		ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	1.8		1.0		ug/L	1		8260C	Total/NA
Tetrachloroethene	3.3		1.0		ug/L	1		8260C	Total/NA
Trichloroethene	33		1.0		ug/L	1		8260C	Total/NA

Client Sample ID: MW-1028-20131002-01 — Lab Sample ID: 480-47046-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	1.2		1.0		ug/L	1		8260C	Total/NA
Trichloroethene	6.4		1.0		ug/L	1		8260C	Total/NA

Client Sample ID: MW-1009-20131002-01 — Lab Sample ID: 480-47046-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	4.2		1.0		ug/L	1		8260C	Total/NA
1,3,5-Trimethylbenzene	1.6		1.0		ug/L	1		8260C	Total/NA
Naphthalene	5.2		5.0		ug/L	1		8260C	Total/NA
Trichloroethene	1.3		1.0		ug/L	1		8260C	Total/NA
Trichlorofluoromethane	1.0		1.0		ug/L	1		8260C	Total/NA

Client Sample ID: MW-1004-20131002-01 — Lab Sample ID: 480-47046-6

No Detections.

Client Sample ID: MW-1010M-20131002-01 — Lab Sample ID: 480-47046-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Trichloroethene	1.1		1.0		ug/L	1		8260C	Total/NA

Client Sample ID: MW-1010D-20131002-01 — Lab Sample ID: 480-47046-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethene	1.4		1.0		ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	3.4		1.0		ug/L	1		8260C	Total/NA
Trichloroethene	34		1.0		ug/L	1		8260C	Total/NA

Client Sample ID: MW-1022-20131002-01 — Lab Sample ID: 480-47046-9

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-47046-1

Client Sample ID: MW-1022-20131002-01 (Continued) — Lab Sample ID: 480-47046-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Trichloroethene	3.1		1.0		ug/L	1		8260C	Total/NA

Client Sample ID: MW-1011-20131002-01 — Lab Sample ID: 480-47046-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	4.0		1.0		ug/L	1		8260C	Total/NA
Trichloroethene	12		1.0		ug/L	1		8260C	Total/NA
1,4-Dioxane	0.20		0.20		ug/L	1		522 MOD	Total/NA

Client Sample ID: DUP-002-20131002-01 — Lab Sample ID: 480-47046-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethene	1.4		1.0		ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	3.4		1.0		ug/L	1		8260C	Total/NA
Trichloroethene	32		1.0		ug/L	1		8260C	Total/NA

Client Sample ID: TB-002-20131002-01 — Lab Sample ID: 480-47046-12

No Detections.

Client Sample ID: MW-1002M-20131002-01 — Lab Sample ID: 480-47046-13

No Detections.

Client Sample ID: MW-1027-20131002-01 — Lab Sample ID: 480-47046-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	19		10		ug/L	1		8260C	Total/NA

Client Sample ID: MW-1018-20131002-01 — Lab Sample ID: 480-47046-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	17		1.0		ug/L	1		8260C	Total/NA
1,1-Dichloroethene	1.0		1.0		ug/L	1		8260C	Total/NA
Methyl tert-butyl ether	10		1.0		ug/L	1		8260C	Total/NA
Trichloroethene	59		1.0		ug/L	1		8260C	Total/NA

Client Sample ID: MW-1034-20131002-01 — Lab Sample ID: 480-47046-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	16		1.0		ug/L	1		8260C	Total/NA
Trichloroethene	44		1.0		ug/L	1		8260C	Total/NA
1,4-Dioxane	0.63		0.20		ug/L	1		522 MOD	Total/NA

This Detection Summary does not include radiochemical test results.

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-47046-1

Client Sample ID: DUP-003-20131002-01
Date Collected: 10/02/13 11:11
Date Received: 10/03/13 02:00

Lab Sample ID: 480-47046-1
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			10/10/13 07:17	1
1,1,1-Trichloroethane	ND		1.0		ug/L			10/10/13 07:17	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			10/10/13 07:17	1
1,1,2-Trichloroethane	ND		1.0		ug/L			10/10/13 07:17	1
1,1-Dichloroethane	ND		1.0		ug/L			10/10/13 07:17	1
1,1-Dichloroethene	ND		1.0		ug/L			10/10/13 07:17	1
1,1-Dichloropropene	ND		1.0		ug/L			10/10/13 07:17	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			10/10/13 07:17	1
1,2,3-Trichloropropane	ND		1.0		ug/L			10/10/13 07:17	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			10/10/13 07:17	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			10/10/13 07:17	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			10/10/13 07:17	1
1,2-Dichlorobenzene	ND		1.0		ug/L			10/10/13 07:17	1
1,2-Dichloroethane	ND		1.0		ug/L			10/10/13 07:17	1
1,2-Dichloropropane	ND		1.0		ug/L			10/10/13 07:17	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			10/10/13 07:17	1
1,3-Dichlorobenzene	ND		1.0		ug/L			10/10/13 07:17	1
1,3-Dichloropropane	ND		1.0		ug/L			10/10/13 07:17	1
1,4-Dichlorobenzene	ND		1.0		ug/L			10/10/13 07:17	1
1,4-Dioxane	ND	*	50		ug/L			10/10/13 07:17	1
2,2-Dichloropropane	ND		1.0		ug/L			10/10/13 07:17	1
2-Butanone (MEK)	ND	*	10		ug/L			10/10/13 07:17	1
2-Chlorotoluene	ND		1.0		ug/L			10/10/13 07:17	1
2-Hexanone	ND		10		ug/L			10/10/13 07:17	1
4-Chlorotoluene	ND		1.0		ug/L			10/10/13 07:17	1
4-Isopropyltoluene	ND		1.0		ug/L			10/10/13 07:17	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			10/10/13 07:17	1
Acetone	ND		50		ug/L			10/10/13 07:17	1
Benzene	ND		1.0		ug/L			10/10/13 07:17	1
Bromobenzene	ND		1.0		ug/L			10/10/13 07:17	1
Bromoform	ND		1.0		ug/L			10/10/13 07:17	1
Bromomethane	ND		2.0		ug/L			10/10/13 07:17	1
Carbon disulfide	ND		10		ug/L			10/10/13 07:17	1
Carbon tetrachloride	ND		1.0		ug/L			10/10/13 07:17	1
Chlorobenzene	ND		1.0		ug/L			10/10/13 07:17	1
Chlorobromomethane	ND		1.0		ug/L			10/10/13 07:17	1
Chlorodibromomethane	ND		0.50		ug/L			10/10/13 07:17	1
Chloroethane	ND		2.0		ug/L			10/10/13 07:17	1
Chloroform	**1.4**		1.0		ug/L			10/10/13 07:17	1
Chloromethane	ND		2.0		ug/L			10/10/13 07:17	1
cis-1,2-Dichloroethene	**1.8**		1.0		ug/L			10/10/13 07:17	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			10/10/13 07:17	1
Dichlorobromomethane	ND		0.50		ug/L			10/10/13 07:17	1
Dichlorodifluoromethane	ND		1.0		ug/L			10/10/13 07:17	1
Ethyl ether	ND		1.0		ug/L			10/10/13 07:17	1
Ethylbenzene	ND		1.0		ug/L			10/10/13 07:17	1
Ethylene Dibromide	ND		1.0		ug/L			10/10/13 07:17	1
Hexachlorobutadiene	ND		0.40		ug/L			10/10/13 07:17	1
Isopropyl ether	ND		10		ug/L			10/10/13 07:17	1

Client Sample ID: DUP-003-20131002-01

Lab Sample ID: 480-47046-1

Date Collected: 10/02/13 11:11

Matrix: Water

Date Received: 10/03/13 02:00

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	ND		1.0		ug/L			10/10/13 07:17	1
Methyl tert-butyl ether	ND		1.0		ug/L			10/10/13 07:17	1
Methylene Chloride	ND		1.0		ug/L			10/10/13 07:17	1
m-Xylene & p-Xylene	ND		2.0		ug/L			10/10/13 07:17	1
Naphthalene	ND		5.0		ug/L			10/10/13 07:17	1
n-Butylbenzene	ND		1.0		ug/L			10/10/13 07:17	1
N-Propylbenzene	ND		1.0		ug/L			10/10/13 07:17	1
o-Xylene	ND		1.0		ug/L			10/10/13 07:17	1
sec-Butylbenzene	ND		1.0		ug/L			10/10/13 07:17	1
Styrene	ND		1.0		ug/L			10/10/13 07:17	1
Tert-amyl methyl ether	ND		5.0		ug/L			10/10/13 07:17	1
Tert-butyl ethyl ether	ND		5.0		ug/L			10/10/13 07:17	1
tert-Butylbenzene	ND		1.0		ug/L			10/10/13 07:17	1
Tetrachloroethene	**3.1**		1.0		ug/L			10/10/13 07:17	1
Tetrahydrofuran	ND		10		ug/L			10/10/13 07:17	1
Toluene	ND		1.0		ug/L			10/10/13 07:17	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			10/10/13 07:17	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			10/10/13 07:17	1
Trichloroethene	**33**		1.0		ug/L			10/10/13 07:17	1
Trichlorofluoromethane	ND		1.0		ug/L			10/10/13 07:17	1
Vinyl chloride	ND		1.0		ug/L			10/10/13 07:17	1
Dibromomethane	ND		1.0		ug/L			10/10/13 07:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*94*		*70 - 130*		*10/10/13 07:17*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*		*10/10/13 07:17*	*1*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*		*10/10/13 07:17*	*1*

Client Sample ID: MW-1006-20131002-01

Lab Sample ID: 480-47046-2

Date Collected: 10/02/13 09:25

Matrix: Water

Date Received: 10/03/13 02:00

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			10/10/13 07:42	1
1,1,1-Trichloroethane	ND		1.0		ug/L			10/10/13 07:42	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			10/10/13 07:42	1
1,1,2-Trichloroethane	ND		1.0		ug/L			10/10/13 07:42	1
1,1-Dichloroethane	ND		1.0		ug/L			10/10/13 07:42	1
1,1-Dichloroethene	ND		1.0		ug/L			10/10/13 07:42	1
1,1-Dichloropropene	ND		1.0		ug/L			10/10/13 07:42	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			10/10/13 07:42	1
1,2,3-Trichloropropane	ND		1.0		ug/L			10/10/13 07:42	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			10/10/13 07:42	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			10/10/13 07:42	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			10/10/13 07:42	1
1,2-Dichlorobenzene	ND		1.0		ug/L			10/10/13 07:42	1
1,2-Dichloroethane	ND		1.0		ug/L			10/10/13 07:42	1
1,2-Dichloropropane	ND		1.0		ug/L			10/10/13 07:42	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			10/10/13 07:42	1

Client Sample ID: MW-1006-20131002-01
Date Collected: 10/02/13 09:25
Date Received: 10/03/13 02:00

Lab Sample ID: 480-47046-2
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	ND		1.0		ug/L			10/10/13 07:42	1
1,3-Dichloropropane	ND		1.0		ug/L			10/10/13 07:42	1
1,4-Dichlorobenzene	ND		1.0		ug/L			10/10/13 07:42	1
1,4-Dioxane	ND	*	50		ug/L			10/10/13 07:42	1
2,2-Dichloropropane	ND		1.0		ug/L			10/10/13 07:42	1
2-Butanone (MEK)	ND	*	10		ug/L			10/10/13 07:42	1
2-Chlorotoluene	ND		1.0		ug/L			10/10/13 07:42	1
2-Hexanone	ND		10		ug/L			10/10/13 07:42	1
4-Chlorotoluene	ND		1.0		ug/L			10/10/13 07:42	1
4-Isopropyltoluene	ND		1.0		ug/L			10/10/13 07:42	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			10/10/13 07:42	1
Acetone	ND		50		ug/L			10/10/13 07:42	1
Benzene	ND		1.0		ug/L			10/10/13 07:42	1
Bromobenzene	ND		1.0		ug/L			10/10/13 07:42	1
Bromoform	ND		1.0		ug/L			10/10/13 07:42	1
Bromomethane	ND		2.0		ug/L			10/10/13 07:42	1
Carbon disulfide	ND		10		ug/L			10/10/13 07:42	1
Carbon tetrachloride	ND		1.0		ug/L			10/10/13 07:42	1
Chlorobenzene	ND		1.0		ug/L			10/10/13 07:42	1
Chlorobromomethane	ND		1.0		ug/L			10/10/13 07:42	1
Chlorodibromomethane	ND		0.50		ug/L			10/10/13 07:42	1
Chloroethane	ND		2.0		ug/L			10/10/13 07:42	1
Chloroform	ND		1.0		ug/L			10/10/13 07:42	1
Chloromethane	ND		2.0		ug/L			10/10/13 07:42	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			10/10/13 07:42	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			10/10/13 07:42	1
Dichlorobromomethane	ND		0.50		ug/L			10/10/13 07:42	1
Dichlorodifluoromethane	ND		1.0		ug/L			10/10/13 07:42	1
Ethyl ether	ND		1.0		ug/L			10/10/13 07:42	1
Ethylbenzene	ND		1.0		ug/L			10/10/13 07:42	1
Ethylene Dibromide	ND		1.0		ug/L			10/10/13 07:42	1
Hexachlorobutadiene	ND		0.40		ug/L			10/10/13 07:42	1
Isopropyl ether	ND		10		ug/L			10/10/13 07:42	1
Isopropylbenzene	ND		1.0		ug/L			10/10/13 07:42	1
Methyl tert-butyl ether	ND		1.0		ug/L			10/10/13 07:42	1
Methylene Chloride	ND		1.0		ug/L			10/10/13 07:42	1
m-Xylene & p-Xylene	ND		2.0		ug/L			10/10/13 07:42	1
Naphthalene	ND		5.0		ug/L			10/10/13 07:42	1
n-Butylbenzene	ND		1.0		ug/L			10/10/13 07:42	1
N-Propylbenzene	ND		1.0		ug/L			10/10/13 07:42	1
o-Xylene	ND		1.0		ug/L			10/10/13 07:42	1
sec-Butylbenzene	ND		1.0		ug/L			10/10/13 07:42	1
Styrene	ND		1.0		ug/L			10/10/13 07:42	1
Tert-amyl methyl ether	ND		5.0		ug/L			10/10/13 07:42	1
Tert-butyl ethyl ether	ND		5.0		ug/L			10/10/13 07:42	1
tert-Butylbenzene	ND		1.0		ug/L			10/10/13 07:42	1
Tetrachloroethene	ND		1.0		ug/L			10/10/13 07:42	1
Tetrahydrofuran	ND		10		ug/L			10/10/13 07:42	1
Toluene	ND		1.0		ug/L			10/10/13 07:42	1

Client Sample ID: MW-1006-20131002-01

Lab Sample ID: 480-47046-2

Date Collected: 10/02/13 09:25

Matrix: Water

Date Received: 10/03/13 02:00

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	ND		1.0		ug/L			10/10/13 07:42	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			10/10/13 07:42	1
Trichloroethene	**1.1**		1.0		ug/L			10/10/13 07:42	1
Trichlorofluoromethane	ND		1.0		ug/L			10/10/13 07:42	1
Vinyl chloride	ND		1.0		ug/L			10/10/13 07:42	1
Dibromomethane	ND		1.0		ug/L			10/10/13 07:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*95*		*70 - 130*		*10/10/13 07:42*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 130*		*10/10/13 07:42*	*1*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*		*10/10/13 07:42*	*1*

Client Sample ID: MW-1015D-20131002-01

Lab Sample ID: 480-47046-3

Date Collected: 10/02/13 13:00

Matrix: Water

Date Received: 10/03/13 02:00

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			10/10/13 08:07	1
1,1,1-Trichloroethane	ND		1.0		ug/L			10/10/13 08:07	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			10/10/13 08:07	1
1,1,2-Trichloroethane	ND		1.0		ug/L			10/10/13 08:07	1
1,1-Dichloroethane	ND		1.0		ug/L			10/10/13 08:07	1
1,1-Dichloroethene	ND		1.0		ug/L			10/10/13 08:07	1
1,1-Dichloropropene	ND		1.0		ug/L			10/10/13 08:07	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			10/10/13 08:07	1
1,2,3-Trichloropropane	ND		1.0		ug/L			10/10/13 08:07	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			10/10/13 08:07	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			10/10/13 08:07	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			10/10/13 08:07	1
1,2-Dichlorobenzene	ND		1.0		ug/L			10/10/13 08:07	1
1,2-Dichloroethane	ND		1.0		ug/L			10/10/13 08:07	1
1,2-Dichloropropane	ND		1.0		ug/L			10/10/13 08:07	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			10/10/13 08:07	1
1,3-Dichlorobenzene	ND		1.0		ug/L			10/10/13 08:07	1
1,3-Dichloropropane	ND		1.0		ug/L			10/10/13 08:07	1
1,4-Dichlorobenzene	ND		1.0		ug/L			10/10/13 08:07	1
1,4-Dioxane	ND	*	50		ug/L			10/10/13 08:07	1
2,2-Dichloropropane	ND		1.0		ug/L			10/10/13 08:07	1
2-Butanone (MEK)	ND	*	10		ug/L			10/10/13 08:07	1
2-Chlorotoluene	ND		1.0		ug/L			10/10/13 08:07	1
2-Hexanone	ND		10		ug/L			10/10/13 08:07	1
4-Chlorotoluene	ND		1.0		ug/L			10/10/13 08:07	1
4-Isopropyltoluene	ND		1.0		ug/L			10/10/13 08:07	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			10/10/13 08:07	1
Acetone	ND		50		ug/L			10/10/13 08:07	1
Benzene	ND		1.0		ug/L			10/10/13 08:07	1
Bromobenzene	ND		1.0		ug/L			10/10/13 08:07	1
Bromoform	ND		1.0		ug/L			10/10/13 08:07	1
Bromomethane	ND		2.0		ug/L			10/10/13 08:07	1

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-47046-1

Client Sample ID: MW-1015D-20131002-01
Date Collected: 10/02/13 13:00
Date Received: 10/03/13 02:00

Lab Sample ID: 480-47046-3
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	ND		10		ug/L			10/10/13 08:07	1
Carbon tetrachloride	ND		1.0		ug/L			10/10/13 08:07	1
Chlorobenzene	ND		1.0		ug/L			10/10/13 08:07	1
Chlorobromomethane	ND		1.0		ug/L			10/10/13 08:07	1
Chlorodibromomethane	ND		0.50		ug/L			10/10/13 08:07	1
Chloroethane	ND		2.0		ug/L			10/10/13 08:07	1
Chloroform	**1.5**		1.0		ug/L			10/10/13 08:07	1
Chloromethane	ND		2.0		ug/L			10/10/13 08:07	1
cis-1,2-Dichloroethene	**1.8**		1.0		ug/L			10/10/13 08:07	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			10/10/13 08:07	1
Dichlorobromomethane	ND		0.50		ug/L			10/10/13 08:07	1
Dichlorodifluoromethane	ND		1.0		ug/L			10/10/13 08:07	1
Ethyl ether	ND		1.0		ug/L			10/10/13 08:07	1
Ethylbenzene	ND		1.0		ug/L			10/10/13 08:07	1
Ethylene Dibromide	ND		1.0		ug/L			10/10/13 08:07	1
Hexachlorobutadiene	ND		0.40		ug/L			10/10/13 08:07	1
Isopropyl ether	ND		10		ug/L			10/10/13 08:07	1
Isopropylbenzene	ND		1.0		ug/L			10/10/13 08:07	1
Methyl tert-butyl ether	ND		1.0		ug/L			10/10/13 08:07	1
Methylene Chloride	ND		1.0		ug/L			10/10/13 08:07	1
m-Xylene & p-Xylene	ND		2.0		ug/L			10/10/13 08:07	1
Naphthalene	ND		5.0		ug/L			10/10/13 08:07	1
n-Butylbenzene	ND		1.0		ug/L			10/10/13 08:07	1
N-Propylbenzene	ND		1.0		ug/L			10/10/13 08:07	1
o-Xylene	ND		1.0		ug/L			10/10/13 08:07	1
sec-Butylbenzene	ND		1.0		ug/L			10/10/13 08:07	1
Styrene	ND		1.0		ug/L			10/10/13 08:07	1
Tert-amyl methyl ether	ND		5.0		ug/L			10/10/13 08:07	1
Tert-butyl ethyl ether	ND		5.0		ug/L			10/10/13 08:07	1
tert-Butylbenzene	ND		1.0		ug/L			10/10/13 08:07	1
Tetrachloroethene	**3.3**		1.0		ug/L			10/10/13 08:07	1
Tetrahydrofuran	ND		10		ug/L			10/10/13 08:07	1
Toluene	ND		1.0		ug/L			10/10/13 08:07	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			10/10/13 08:07	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			10/10/13 08:07	1
Trichloroethene	**33**		1.0		ug/L			10/10/13 08:07	1
Trichlorofluoromethane	ND		1.0		ug/L			10/10/13 08:07	1
Vinyl chloride	ND		1.0		ug/L			10/10/13 08:07	1
Dibromomethane	ND		1.0		ug/L			10/10/13 08:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*96*		*70 - 130*		*10/10/13 08:07*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*		*10/10/13 08:07*	*1*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*		*10/10/13 08:07*	*1*

Client Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-47046-1

Client Sample ID: MW-1028-20131002-01
Date Collected: 10/02/13 12:10
Date Received: 10/03/13 02:00

Lab Sample ID: 480-47046-4
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			10/10/13 08:32	1
1,1,1-Trichloroethane	ND		1.0		ug/L			10/10/13 08:32	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			10/10/13 08:32	1
1,1,2-Trichloroethane	ND		1.0		ug/L			10/10/13 08:32	1
1,1-Dichloroethane	ND		1.0		ug/L			10/10/13 08:32	1
1,1-Dichloroethene	ND		1.0		ug/L			10/10/13 08:32	1
1,1-Dichloropropene	ND		1.0		ug/L			10/10/13 08:32	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			10/10/13 08:32	1
1,2,3-Trichloropropane	ND		1.0		ug/L			10/10/13 08:32	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			10/10/13 08:32	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			10/10/13 08:32	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			10/10/13 08:32	1
1,2-Dichlorobenzene	ND		1.0		ug/L			10/10/13 08:32	1
1,2-Dichloroethane	ND		1.0		ug/L			10/10/13 08:32	1
1,2-Dichloropropane	ND		1.0		ug/L			10/10/13 08:32	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			10/10/13 08:32	1
1,3-Dichlorobenzene	ND		1.0		ug/L			10/10/13 08:32	1
1,3-Dichloropropane	ND		1.0		ug/L			10/10/13 08:32	1
1,4-Dichlorobenzene	ND		1.0		ug/L			10/10/13 08:32	1
1,4-Dioxane	ND	*	50		ug/L			10/10/13 08:32	1
2,2-Dichloropropane	ND		1.0		ug/L			10/10/13 08:32	1
2-Butanone (MEK)	ND	*	10		ug/L			10/10/13 08:32	1
2-Chlorotoluene	ND		1.0		ug/L			10/10/13 08:32	1
2-Hexanone	ND		10		ug/L			10/10/13 08:32	1
4-Chlorotoluene	ND		1.0		ug/L			10/10/13 08:32	1
4-Isopropyltoluene	ND		1.0		ug/L			10/10/13 08:32	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			10/10/13 08:32	1
Acetone	ND		50		ug/L			10/10/13 08:32	1
Benzene	ND		1.0		ug/L			10/10/13 08:32	1
Bromobenzene	ND		1.0		ug/L			10/10/13 08:32	1
Bromoform	ND		1.0		ug/L			10/10/13 08:32	1
Bromomethane	ND		2.0		ug/L			10/10/13 08:32	1
Carbon disulfide	ND		10		ug/L			10/10/13 08:32	1
Carbon tetrachloride	ND		1.0		ug/L			10/10/13 08:32	1
Chlorobenzene	ND		1.0		ug/L			10/10/13 08:32	1
Chlorobromomethane	ND		1.0		ug/L			10/10/13 08:32	1
Chlorodibromomethane	ND		0.50		ug/L			10/10/13 08:32	1
Chloroethane	ND		2.0		ug/L			10/10/13 08:32	1
Chloroform	ND		1.0		ug/L			10/10/13 08:32	1
Chloromethane	ND		2.0		ug/L			10/10/13 08:32	1
cis-1,2-Dichloroethene	**1.2**		1.0		ug/L			10/10/13 08:32	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			10/10/13 08:32	1
Dichlorobromomethane	ND		0.50		ug/L			10/10/13 08:32	1
Dichlorodifluoromethane	ND		1.0		ug/L			10/10/13 08:32	1
Ethyl ether	ND		1.0		ug/L			10/10/13 08:32	1
Ethylbenzene	ND		1.0		ug/L			10/10/13 08:32	1
Ethylene Dibromide	ND		1.0		ug/L			10/10/13 08:32	1
Hexachlorobutadiene	ND		0.40		ug/L			10/10/13 08:32	1
Isopropyl ether	ND		10		ug/L			10/10/13 08:32	1

Client Sample ID: MW-1028-20131002-01

Lab Sample ID: 480-47046-4

Date Collected: 10/02/13 12:10

Matrix: Water

Date Received: 10/03/13 02:00

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	ND		1.0		ug/L			10/10/13 08:32	1
Methyl tert-butyl ether	ND		1.0		ug/L			10/10/13 08:32	1
Methylene Chloride	ND		1.0		ug/L			10/10/13 08:32	1
m-Xylene & p-Xylene	ND		2.0		ug/L			10/10/13 08:32	1
Naphthalene	ND		5.0		ug/L			10/10/13 08:32	1
n-Butylbenzene	ND		1.0		ug/L			10/10/13 08:32	1
N-Propylbenzene	ND		1.0		ug/L			10/10/13 08:32	1
o-Xylene	ND		1.0		ug/L			10/10/13 08:32	1
sec-Butylbenzene	ND		1.0		ug/L			10/10/13 08:32	1
Styrene	ND		1.0		ug/L			10/10/13 08:32	1
Tert-amyl methyl ether	ND		5.0		ug/L			10/10/13 08:32	1
Tert-butyl ethyl ether	ND		5.0		ug/L			10/10/13 08:32	1
tert-Butylbenzene	ND		1.0		ug/L			10/10/13 08:32	1
Tetrachloroethene	ND		1.0		ug/L			10/10/13 08:32	1
Tetrahydrofuran	ND		10		ug/L			10/10/13 08:32	1
Toluene	ND		1.0		ug/L			10/10/13 08:32	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			10/10/13 08:32	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			10/10/13 08:32	1
Trichloroethene	**6.4**		1.0		ug/L			10/10/13 08:32	1
Trichlorofluoromethane	ND		1.0		ug/L			10/10/13 08:32	1
Vinyl chloride	ND		1.0		ug/L			10/10/13 08:32	1
Dibromomethane	ND		1.0		ug/L			10/10/13 08:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*95*		*70 - 130*		*10/10/13 08:32*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 130*		*10/10/13 08:32*	*1*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*		*10/10/13 08:32*	*1*

Client Sample ID: MW-1009-20131002-01

Lab Sample ID: 480-47046-5

Date Collected: 10/02/13 09:30

Matrix: Water

Date Received: 10/03/13 02:00

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			10/10/13 14:44	1
1,1,1-Trichloroethane	ND		1.0		ug/L			10/10/13 14:44	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			10/10/13 14:44	1
1,1,2-Trichloroethane	ND		1.0		ug/L			10/10/13 14:44	1
1,1-Dichloroethane	ND		1.0		ug/L			10/10/13 14:44	1
1,1-Dichloroethene	ND		1.0		ug/L			10/10/13 14:44	1
1,1-Dichloropropene	ND		1.0		ug/L			10/10/13 14:44	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			10/10/13 14:44	1
1,2,3-Trichloropropane	ND		1.0		ug/L			10/10/13 14:44	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			10/10/13 14:44	1
1,2,4-Trimethylbenzene	**4.2**		1.0		ug/L			10/10/13 14:44	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			10/10/13 14:44	1
1,2-Dichlorobenzene	ND		1.0		ug/L			10/10/13 14:44	1
1,2-Dichloroethane	ND		1.0		ug/L			10/10/13 14:44	1
1,2-Dichloropropane	ND		1.0		ug/L			10/10/13 14:44	1
1,3,5-Trimethylbenzene	**1.6**		1.0		ug/L			10/10/13 14:44	1

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-47046-1

Client Sample ID: MW-1009-20131002-01
Date Collected: 10/02/13 09:30
Date Received: 10/03/13 02:00

Lab Sample ID: 480-47046-5
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	ND		1.0		ug/L			10/10/13 14:44	1
1,3-Dichloropropane	ND		1.0		ug/L			10/10/13 14:44	1
1,4-Dichlorobenzene	ND		1.0		ug/L			10/10/13 14:44	1
1,4-Dioxane	ND		50		ug/L			10/10/13 14:44	1
2,2-Dichloropropane	ND		1.0		ug/L			10/10/13 14:44	1
2-Butanone (MEK)	ND	*	10		ug/L			10/10/13 14:44	1
2-Chlorotoluene	ND		1.0		ug/L			10/10/13 14:44	1
2-Hexanone	ND		10		ug/L			10/10/13 14:44	1
4-Chlorotoluene	ND		1.0		ug/L			10/10/13 14:44	1
4-Isopropyltoluene	ND		1.0		ug/L			10/10/13 14:44	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			10/10/13 14:44	1
Acetone	ND		50		ug/L			10/10/13 14:44	1
Benzene	ND		1.0		ug/L			10/10/13 14:44	1
Bromobenzene	ND		1.0		ug/L			10/10/13 14:44	1
Bromoform	ND		1.0		ug/L			10/10/13 14:44	1
Bromomethane	ND		2.0		ug/L			10/10/13 14:44	1
Carbon disulfide	ND		10		ug/L			10/10/13 14:44	1
Carbon tetrachloride	ND		1.0		ug/L			10/10/13 14:44	1
Chlorobenzene	ND		1.0		ug/L			10/10/13 14:44	1
Chlorobromomethane	ND		1.0		ug/L			10/10/13 14:44	1
Chlorodibromomethane	ND		0.50		ug/L			10/10/13 14:44	1
Chloroethane	ND		2.0		ug/L			10/10/13 14:44	1
Chloroform	ND		1.0		ug/L			10/10/13 14:44	1
Chloromethane	ND		2.0		ug/L			10/10/13 14:44	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			10/10/13 14:44	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			10/10/13 14:44	1
Dichlorobromomethane	ND		0.50		ug/L			10/10/13 14:44	1
Dichlorodifluoromethane	ND		1.0		ug/L			10/10/13 14:44	1
Ethyl ether	ND		1.0		ug/L			10/10/13 14:44	1
Ethylbenzene	ND		1.0		ug/L			10/10/13 14:44	1
Ethylene Dibromide	ND		1.0		ug/L			10/10/13 14:44	1
Hexachlorobutadiene	ND		0.40		ug/L			10/10/13 14:44	1
Isopropyl ether	ND		10		ug/L			10/10/13 14:44	1
Isopropylbenzene	ND		1.0		ug/L			10/10/13 14:44	1
Methyl tert-butyl ether	ND		1.0		ug/L			10/10/13 14:44	1
Methylene Chloride	ND		1.0		ug/L			10/10/13 14:44	1
m-Xylene & p-Xylene	ND		2.0		ug/L			10/10/13 14:44	1
Naphthalene	**5.2**		5.0		ug/L			10/10/13 14:44	1
n-Butylbenzene	ND		1.0		ug/L			10/10/13 14:44	1
N-Propylbenzene	ND		1.0		ug/L			10/10/13 14:44	1
o-Xylene	ND		1.0		ug/L			10/10/13 14:44	1
sec-Butylbenzene	ND		1.0		ug/L			10/10/13 14:44	1
Styrene	ND		1.0		ug/L			10/10/13 14:44	1
Tert-amyl methyl ether	ND		5.0		ug/L			10/10/13 14:44	1
Tert-butyl ethyl ether	ND		5.0		ug/L			10/10/13 14:44	1
tert-Butylbenzene	ND		1.0		ug/L			10/10/13 14:44	1
Tetrachloroethene	ND		1.0		ug/L			10/10/13 14:44	1
Tetrahydrofuran	ND		10		ug/L			10/10/13 14:44	1
Toluene	ND		1.0		ug/L			10/10/13 14:44	1

Client Sample ID: MW-1009-20131002-01

Lab Sample ID: 480-47046-5

Date Collected: 10/02/13 09:30

Matrix: Water

Date Received: 10/03/13 02:00

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	ND		1.0		ug/L			10/10/13 14:44	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			10/10/13 14:44	1
Trichloroethene	**1.3**		1.0		ug/L			10/10/13 14:44	1
Trichlorofluoromethane	**1.0**		1.0		ug/L			10/10/13 14:44	1
Vinyl chloride	ND		1.0		ug/L			10/10/13 14:44	1
Dibromomethane	ND		1.0		ug/L			10/10/13 14:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*93*		*70 - 130*		*10/10/13 14:44*	*1*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 130*		*10/10/13 14:44*	*1*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*		*10/10/13 14:44*	*1*

Client Sample ID: MW-1004-20131002-01

Lab Sample ID: 480-47046-6

Date Collected: 10/02/13 10:26

Matrix: Water

Date Received: 10/03/13 02:00

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			10/10/13 15:09	1
1,1,1-Trichloroethane	ND		1.0		ug/L			10/10/13 15:09	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			10/10/13 15:09	1
1,1,2-Trichloroethane	ND		1.0		ug/L			10/10/13 15:09	1
1,1-Dichloroethane	ND		1.0		ug/L			10/10/13 15:09	1
1,1-Dichloroethene	ND		1.0		ug/L			10/10/13 15:09	1
1,1-Dichloropropene	ND		1.0		ug/L			10/10/13 15:09	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			10/10/13 15:09	1
1,2,3-Trichloropropane	ND		1.0		ug/L			10/10/13 15:09	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			10/10/13 15:09	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			10/10/13 15:09	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			10/10/13 15:09	1
1,2-Dichlorobenzene	ND		1.0		ug/L			10/10/13 15:09	1
1,2-Dichloroethane	ND		1.0		ug/L			10/10/13 15:09	1
1,2-Dichloropropane	ND		1.0		ug/L			10/10/13 15:09	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			10/10/13 15:09	1
1,3-Dichlorobenzene	ND		1.0		ug/L			10/10/13 15:09	1
1,3-Dichloropropane	ND		1.0		ug/L			10/10/13 15:09	1
1,4-Dichlorobenzene	ND		1.0		ug/L			10/10/13 15:09	1
1,4-Dioxane	ND		50		ug/L			10/10/13 15:09	1
2,2-Dichloropropane	ND		1.0		ug/L			10/10/13 15:09	1
2-Butanone (MEK)	ND	*	10		ug/L			10/10/13 15:09	1
2-Chlorotoluene	ND		1.0		ug/L			10/10/13 15:09	1
2-Hexanone	ND		10		ug/L			10/10/13 15:09	1
4-Chlorotoluene	ND		1.0		ug/L			10/10/13 15:09	1
4-Isopropyltoluene	ND		1.0		ug/L			10/10/13 15:09	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			10/10/13 15:09	1
Acetone	ND		50		ug/L			10/10/13 15:09	1
Benzene	ND		1.0		ug/L			10/10/13 15:09	1
Bromobenzene	ND		1.0		ug/L			10/10/13 15:09	1
Bromoform	ND		1.0		ug/L			10/10/13 15:09	1
Bromomethane	ND		2.0		ug/L			10/10/13 15:09	1

Client Sample ID: MW-1004-20131002-01
Date Collected: 10/02/13 10:26
Date Received: 10/03/13 02:00

Lab Sample ID: 480-47046-6
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	ND		10		ug/L			10/10/13 15:09	1
Carbon tetrachloride	ND		1.0		ug/L			10/10/13 15:09	1
Chlorobenzene	ND		1.0		ug/L			10/10/13 15:09	1
Chlorobromomethane	ND		1.0		ug/L			10/10/13 15:09	1
Chlorodibromomethane	ND		0.50		ug/L			10/10/13 15:09	1
Chloroethane	ND		2.0		ug/L			10/10/13 15:09	1
Chloroform	ND		1.0		ug/L			10/10/13 15:09	1
Chloromethane	ND		2.0		ug/L			10/10/13 15:09	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			10/10/13 15:09	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			10/10/13 15:09	1
Dichlorobromomethane	ND		0.50		ug/L			10/10/13 15:09	1
Dichlorodifluoromethane	ND		1.0		ug/L			10/10/13 15:09	1
Ethyl ether	ND		1.0		ug/L			10/10/13 15:09	1
Ethylbenzene	ND		1.0		ug/L			10/10/13 15:09	1
Ethylene Dibromide	ND		1.0		ug/L			10/10/13 15:09	1
Hexachlorobutadiene	ND		0.40		ug/L			10/10/13 15:09	1
Isopropyl ether	ND		10		ug/L			10/10/13 15:09	1
Isopropylbenzene	ND		1.0		ug/L			10/10/13 15:09	1
Methyl tert-butyl ether	ND		1.0		ug/L			10/10/13 15:09	1
Methylene Chloride	ND		1.0		ug/L			10/10/13 15:09	1
m-Xylene & p-Xylene	ND		2.0		ug/L			10/10/13 15:09	1
Naphthalene	ND		5.0		ug/L			10/10/13 15:09	1
n-Butylbenzene	ND		1.0		ug/L			10/10/13 15:09	1
N-Propylbenzene	ND		1.0		ug/L			10/10/13 15:09	1
o-Xylene	ND		1.0		ug/L			10/10/13 15:09	1
sec-Butylbenzene	ND		1.0		ug/L			10/10/13 15:09	1
Styrene	ND		1.0		ug/L			10/10/13 15:09	1
Tert-amyl methyl ether	ND		5.0		ug/L			10/10/13 15:09	1
Tert-butyl ethyl ether	ND		5.0		ug/L			10/10/13 15:09	1
tert-Butylbenzene	ND		1.0		ug/L			10/10/13 15:09	1
Tetrachloroethene	ND		1.0		ug/L			10/10/13 15:09	1
Tetrahydrofuran	ND		10		ug/L			10/10/13 15:09	1
Toluene	ND		1.0		ug/L			10/10/13 15:09	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			10/10/13 15:09	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			10/10/13 15:09	1
Trichloroethene	ND		1.0		ug/L			10/10/13 15:09	1
Trichlorofluoromethane	ND		1.0		ug/L			10/10/13 15:09	1
Vinyl chloride	ND		1.0		ug/L			10/10/13 15:09	1
Dibromomethane	ND		1.0		ug/L			10/10/13 15:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*94*		*70 - 130*		*10/10/13 15:09*	*1*
1,2-Dichloroethane-d4 (Surr)	*97*		*70 - 130*		*10/10/13 15:09*	*1*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*		*10/10/13 15:09*	*1*

Client Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-47046-1

Client Sample ID: MW-1010M-20131002-01
Date Collected: 10/02/13 11:40
Date Received: 10/03/13 02:00

Lab Sample ID: 480-47046-7
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			10/09/13 13:45	1
1,1,1-Trichloroethane	ND		1.0		ug/L			10/09/13 13:45	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			10/09/13 13:45	1
1,1,2-Trichloroethane	ND		1.0		ug/L			10/09/13 13:45	1
1,1-Dichloroethane	ND		1.0		ug/L			10/09/13 13:45	1
1,1-Dichloroethene	ND		1.0		ug/L			10/09/13 13:45	1
1,1-Dichloropropene	ND		1.0		ug/L			10/09/13 13:45	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			10/09/13 13:45	1
1,2,3-Trichloropropane	ND		1.0		ug/L			10/09/13 13:45	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			10/09/13 13:45	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			10/09/13 13:45	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			10/09/13 13:45	1
1,2-Dichlorobenzene	ND		1.0		ug/L			10/09/13 13:45	1
1,2-Dichloroethane	ND		1.0		ug/L			10/09/13 13:45	1
1,2-Dichloropropane	ND		1.0		ug/L			10/09/13 13:45	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			10/09/13 13:45	1
1,3-Dichlorobenzene	ND		1.0		ug/L			10/09/13 13:45	1
1,3-Dichloropropane	ND		1.0		ug/L			10/09/13 13:45	1
1,4-Dichlorobenzene	ND		1.0		ug/L			10/09/13 13:45	1
1,4-Dioxane	ND		50		ug/L			10/09/13 13:45	1
2,2-Dichloropropane	ND		1.0		ug/L			10/09/13 13:45	1
2-Butanone (MEK)	ND	*	10		ug/L			10/09/13 13:45	1
2-Chlorotoluene	ND		1.0		ug/L			10/09/13 13:45	1
2-Hexanone	ND		10		ug/L			10/09/13 13:45	1
4-Chlorotoluene	ND		1.0		ug/L			10/09/13 13:45	1
4-Isopropyltoluene	ND		1.0		ug/L			10/09/13 13:45	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			10/09/13 13:45	1
Acetone	ND		50		ug/L			10/09/13 13:45	1
Benzene	ND		1.0		ug/L			10/09/13 13:45	1
Bromobenzene	ND		1.0		ug/L			10/09/13 13:45	1
Bromoform	ND		1.0		ug/L			10/09/13 13:45	1
Bromomethane	ND		2.0		ug/L			10/09/13 13:45	1
Carbon disulfide	ND		10		ug/L			10/09/13 13:45	1
Carbon tetrachloride	ND		1.0		ug/L			10/09/13 13:45	1
Chlorobenzene	ND		1.0		ug/L			10/09/13 13:45	1
Chlorobromomethane	ND		1.0		ug/L			10/09/13 13:45	1
Chlorodibromomethane	ND		0.50		ug/L			10/09/13 13:45	1
Chloroethane	ND		2.0		ug/L			10/09/13 13:45	1
Chloroform	ND		1.0		ug/L			10/09/13 13:45	1
Chloromethane	ND		2.0		ug/L			10/09/13 13:45	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			10/09/13 13:45	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			10/09/13 13:45	1
Dichlorobromomethane	ND		0.50		ug/L			10/09/13 13:45	1
Dichlorodifluoromethane	ND	*	1.0		ug/L			10/09/13 13:45	1
Ethyl ether	ND		1.0		ug/L			10/09/13 13:45	1
Ethylbenzene	ND		1.0		ug/L			10/09/13 13:45	1
Ethylene Dibromide	ND		1.0		ug/L			10/09/13 13:45	1
Hexachlorobutadiene	ND		0.40		ug/L			10/09/13 13:45	1
Isopropyl ether	ND		10		ug/L			10/09/13 13:45	1

Client Sample ID: MW-1010M-20131002-01

Lab Sample ID: 480-47046-7

Date Collected: 10/02/13 11:40

Matrix: Water

Date Received: 10/03/13 02:00

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	ND		1.0		ug/L			10/09/13 13:45	1
Methyl tert-butyl ether	ND		1.0		ug/L			10/09/13 13:45	1
Methylene Chloride	ND		1.0		ug/L			10/09/13 13:45	1
m-Xylene & p-Xylene	ND		2.0		ug/L			10/09/13 13:45	1
Naphthalene	ND		5.0		ug/L			10/09/13 13:45	1
n-Butylbenzene	ND		1.0		ug/L			10/09/13 13:45	1
N-Propylbenzene	ND		1.0		ug/L			10/09/13 13:45	1
o-Xylene	ND		1.0		ug/L			10/09/13 13:45	1
sec-Butylbenzene	ND		1.0		ug/L			10/09/13 13:45	1
Styrene	ND		1.0		ug/L			10/09/13 13:45	1
Tert-amyl methyl ether	ND		5.0		ug/L			10/09/13 13:45	1
Tert-butyl ethyl ether	ND		5.0		ug/L			10/09/13 13:45	1
tert-Butylbenzene	ND		1.0		ug/L			10/09/13 13:45	1
Tetrachloroethene	ND		1.0		ug/L			10/09/13 13:45	1
Tetrahydrofuran	ND		10		ug/L			10/09/13 13:45	1
Toluene	ND		1.0		ug/L			10/09/13 13:45	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			10/09/13 13:45	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			10/09/13 13:45	1
Trichloroethene	**1.1**		1.0		ug/L			10/09/13 13:45	1
Trichlorofluoromethane	ND		1.0		ug/L			10/09/13 13:45	1
Vinyl chloride	ND		1.0		ug/L			10/09/13 13:45	1
Dibromomethane	ND		1.0		ug/L			10/09/13 13:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*97*		*70 - 130*		*10/09/13 13:45*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 130*		*10/09/13 13:45*	*1*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*		*10/09/13 13:45*	*1*

Client Sample ID: MW-1010D-20131002-01

Lab Sample ID: 480-47046-8

Date Collected: 10/02/13 10:40

Matrix: Water

Date Received: 10/03/13 02:00

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			10/10/13 15:59	1
1,1,1-Trichloroethane	ND		1.0		ug/L			10/10/13 15:59	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			10/10/13 15:59	1
1,1,2-Trichloroethane	ND		1.0		ug/L			10/10/13 15:59	1
1,1-Dichloroethane	ND		1.0		ug/L			10/10/13 15:59	1
1,1-Dichloroethene	**1.4**		1.0		ug/L			10/10/13 15:59	1
1,1-Dichloropropene	ND		1.0		ug/L			10/10/13 15:59	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			10/10/13 15:59	1
1,2,3-Trichloropropane	ND		1.0		ug/L			10/10/13 15:59	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			10/10/13 15:59	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			10/10/13 15:59	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			10/10/13 15:59	1
1,2-Dichlorobenzene	ND		1.0		ug/L			10/10/13 15:59	1
1,2-Dichloroethane	ND		1.0		ug/L			10/10/13 15:59	1
1,2-Dichloropropane	ND		1.0		ug/L			10/10/13 15:59	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			10/10/13 15:59	1

Client Sample ID: MW-1010D-20131002-01
Date Collected: 10/02/13 10:40
Date Received: 10/03/13 02:00

Lab Sample ID: 480-47046-8
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	ND		1.0		ug/L			10/10/13 15:59	1
1,3-Dichloropropane	ND		1.0		ug/L			10/10/13 15:59	1
1,4-Dichlorobenzene	ND		1.0		ug/L			10/10/13 15:59	1
1,4-Dioxane	ND		50		ug/L			10/10/13 15:59	1
2,2-Dichloropropane	ND		1.0		ug/L			10/10/13 15:59	1
2-Butanone (MEK)	ND	*	10		ug/L			10/10/13 15:59	1
2-Chlorotoluene	ND		1.0		ug/L			10/10/13 15:59	1
2-Hexanone	ND		10		ug/L			10/10/13 15:59	1
4-Chlorotoluene	ND		1.0		ug/L			10/10/13 15:59	1
4-Isopropyltoluene	ND		1.0		ug/L			10/10/13 15:59	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			10/10/13 15:59	1
Acetone	ND		50		ug/L			10/10/13 15:59	1
Benzene	ND		1.0		ug/L			10/10/13 15:59	1
Bromobenzene	ND		1.0		ug/L			10/10/13 15:59	1
Bromoform	ND		1.0		ug/L			10/10/13 15:59	1
Bromomethane	ND		2.0		ug/L			10/10/13 15:59	1
Carbon disulfide	ND		10		ug/L			10/10/13 15:59	1
Carbon tetrachloride	ND		1.0		ug/L			10/10/13 15:59	1
Chlorobenzene	ND		1.0		ug/L			10/10/13 15:59	1
Chlorobromomethane	ND		1.0		ug/L			10/10/13 15:59	1
Chlorodibromomethane	ND		0.50		ug/L			10/10/13 15:59	1
Chloroethane	ND		2.0		ug/L			10/10/13 15:59	1
Chloroform	ND		1.0		ug/L			10/10/13 15:59	1
Chloromethane	ND		2.0		ug/L			10/10/13 15:59	1
cis-1,2-Dichloroethene	**3.4**		1.0		ug/L			10/10/13 15:59	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			10/10/13 15:59	1
Dichlorobromomethane	ND		0.50		ug/L			10/10/13 15:59	1
Dichlorodifluoromethane	ND		1.0		ug/L			10/10/13 15:59	1
Ethyl ether	ND		1.0		ug/L			10/10/13 15:59	1
Ethylbenzene	ND		1.0		ug/L			10/10/13 15:59	1
Ethylene Dibromide	ND		1.0		ug/L			10/10/13 15:59	1
Hexachlorobutadiene	ND		0.40		ug/L			10/10/13 15:59	1
Isopropyl ether	ND		10		ug/L			10/10/13 15:59	1
Isopropylbenzene	ND		1.0		ug/L			10/10/13 15:59	1
Methyl tert-butyl ether	ND		1.0		ug/L			10/10/13 15:59	1
Methylene Chloride	ND		1.0		ug/L			10/10/13 15:59	1
m-Xylene & p-Xylene	ND		2.0		ug/L			10/10/13 15:59	1
Naphthalene	ND		5.0		ug/L			10/10/13 15:59	1
n-Butylbenzene	ND		1.0		ug/L			10/10/13 15:59	1
N-Propylbenzene	ND		1.0		ug/L			10/10/13 15:59	1
o-Xylene	ND		1.0		ug/L			10/10/13 15:59	1
sec-Butylbenzene	ND		1.0		ug/L			10/10/13 15:59	1
Styrene	ND		1.0		ug/L			10/10/13 15:59	1
Tert-amyl methyl ether	ND		5.0		ug/L			10/10/13 15:59	1
Tert-butyl ethyl ether	ND		5.0		ug/L			10/10/13 15:59	1
tert-Butylbenzene	ND		1.0		ug/L			10/10/13 15:59	1
Tetrachloroethene	ND		1.0		ug/L			10/10/13 15:59	1
Tetrahydrofuran	ND		10		ug/L			10/10/13 15:59	1
Toluene	ND		1.0		ug/L			10/10/13 15:59	1

Client Sample ID: MW-1010D-20131002-01

Lab Sample ID: 480-47046-8

Date Collected: 10/02/13 10:40

Matrix: Water

Date Received: 10/03/13 02:00

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	ND		1.0		ug/L			10/10/13 15:59	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			10/10/13 15:59	1
Trichloroethene	**34**		1.0		ug/L			10/10/13 15:59	1
Trichlorofluoromethane	ND		1.0		ug/L			10/10/13 15:59	1
Vinyl chloride	ND		1.0		ug/L			10/10/13 15:59	1
Dibromomethane	ND		1.0		ug/L			10/10/13 15:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*95*		*70 - 130*		*10/10/13 15:59*	*1*
1,2-Dichloroethane-d4 (Surr)	*97*		*70 - 130*		*10/10/13 15:59*	*1*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*		*10/10/13 15:59*	*1*

Client Sample ID: MW-1022-20131002-01

Lab Sample ID: 480-47046-9

Date Collected: 10/01/13 16:05

Matrix: Water

Date Received: 10/03/13 02:00

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			10/10/13 16:24	1
1,1,1-Trichloroethane	ND		1.0		ug/L			10/10/13 16:24	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			10/10/13 16:24	1
1,1,2-Trichloroethane	ND		1.0		ug/L			10/10/13 16:24	1
1,1-Dichloroethane	ND		1.0		ug/L			10/10/13 16:24	1
1,1-Dichloroethene	ND		1.0		ug/L			10/10/13 16:24	1
1,1-Dichloropropene	ND		1.0		ug/L			10/10/13 16:24	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			10/10/13 16:24	1
1,2,3-Trichloropropane	ND		1.0		ug/L			10/10/13 16:24	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			10/10/13 16:24	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			10/10/13 16:24	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			10/10/13 16:24	1
1,2-Dichlorobenzene	ND		1.0		ug/L			10/10/13 16:24	1
1,2-Dichloroethane	ND		1.0		ug/L			10/10/13 16:24	1
1,2-Dichloropropane	ND		1.0		ug/L			10/10/13 16:24	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			10/10/13 16:24	1
1,3-Dichlorobenzene	ND		1.0		ug/L			10/10/13 16:24	1
1,3-Dichloropropane	ND		1.0		ug/L			10/10/13 16:24	1
1,4-Dichlorobenzene	ND		1.0		ug/L			10/10/13 16:24	1
1,4-Dioxane	ND		50		ug/L			10/10/13 16:24	1
2,2-Dichloropropane	ND		1.0		ug/L			10/10/13 16:24	1
2-Butanone (MEK)	ND	*	10		ug/L			10/10/13 16:24	1
2-Chlorotoluene	ND		1.0		ug/L			10/10/13 16:24	1
2-Hexanone	ND		10		ug/L			10/10/13 16:24	1
4-Chlorotoluene	ND		1.0		ug/L			10/10/13 16:24	1
4-Isopropyltoluene	ND		1.0		ug/L			10/10/13 16:24	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			10/10/13 16:24	1
Acetone	ND		50		ug/L			10/10/13 16:24	1
Benzene	ND		1.0		ug/L			10/10/13 16:24	1
Bromobenzene	ND		1.0		ug/L			10/10/13 16:24	1
Bromoform	ND		1.0		ug/L			10/10/13 16:24	1
Bromomethane	ND		2.0		ug/L			10/10/13 16:24	1

Client Sample ID: MW-1022-20131002-01

Lab Sample ID: 480-47046-9

Date Collected: 10/01/13 16:05

Matrix: Water

Date Received: 10/03/13 02:00

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	ND		10		ug/L			10/10/13 16:24	1
Carbon tetrachloride	ND		1.0		ug/L			10/10/13 16:24	1
Chlorobenzene	ND		1.0		ug/L			10/10/13 16:24	1
Chlorobromomethane	ND		1.0		ug/L			10/10/13 16:24	1
Chlorodibromomethane	ND		0.50		ug/L			10/10/13 16:24	1
Chloroethane	ND		2.0		ug/L			10/10/13 16:24	1
Chloroform	ND		1.0		ug/L			10/10/13 16:24	1
Chloromethane	ND		2.0		ug/L			10/10/13 16:24	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			10/10/13 16:24	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			10/10/13 16:24	1
Dichlorobromomethane	ND		0.50		ug/L			10/10/13 16:24	1
Dichlorodifluoromethane	ND		1.0		ug/L			10/10/13 16:24	1
Ethyl ether	ND		1.0		ug/L			10/10/13 16:24	1
Ethylbenzene	ND		1.0		ug/L			10/10/13 16:24	1
Ethylene Dibromide	ND		1.0		ug/L			10/10/13 16:24	1
Hexachlorobutadiene	ND		0.40		ug/L			10/10/13 16:24	1
Isopropyl ether	ND		10		ug/L			10/10/13 16:24	1
Isopropylbenzene	ND		1.0		ug/L			10/10/13 16:24	1
Methyl tert-butyl ether	ND		1.0		ug/L			10/10/13 16:24	1
Methylene Chloride	ND		1.0		ug/L			10/10/13 16:24	1
m-Xylene & p-Xylene	ND		2.0		ug/L			10/10/13 16:24	1
Naphthalene	ND		5.0		ug/L			10/10/13 16:24	1
n-Butylbenzene	ND		1.0		ug/L			10/10/13 16:24	1
N-Propylbenzene	ND		1.0		ug/L			10/10/13 16:24	1
o-Xylene	ND		1.0		ug/L			10/10/13 16:24	1
sec-Butylbenzene	ND		1.0		ug/L			10/10/13 16:24	1
Styrene	ND		1.0		ug/L			10/10/13 16:24	1
Tert-amyl methyl ether	ND		5.0		ug/L			10/10/13 16:24	1
Tert-butyl ethyl ether	ND		5.0		ug/L			10/10/13 16:24	1
tert-Butylbenzene	ND		1.0		ug/L			10/10/13 16:24	1
Tetrachloroethene	ND		1.0		ug/L			10/10/13 16:24	1
Tetrahydrofuran	ND		10		ug/L			10/10/13 16:24	1
Toluene	ND		1.0		ug/L			10/10/13 16:24	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			10/10/13 16:24	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			10/10/13 16:24	1
Trichloroethene	**3.1**		1.0		ug/L			10/10/13 16:24	1
Trichlorofluoromethane	ND		1.0		ug/L			10/10/13 16:24	1
Vinyl chloride	ND		1.0		ug/L			10/10/13 16:24	1
Dibromomethane	ND		1.0		ug/L			10/10/13 16:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*93*		*70 - 130*		*10/10/13 16:24*	*1*
1,2-Dichloroethane-d4 (Surr)	*97*		*70 - 130*		*10/10/13 16:24*	*1*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*		*10/10/13 16:24*	*1*

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20		ug/L		10/10/13 15:20	10/11/13 13:42	1

Client Sample ID: MW-1022-20131002-01

Lab Sample ID: 480-47046-9

Date Collected: 10/01/13 16:05

Matrix: Water

Date Received: 10/03/13 02:00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	80		70 - 130	10/10/13 15:20	10/11/13 13:42	1

Client Sample ID: MW-1011-20131002-01

Lab Sample ID: 480-47046-10

Date Collected: 10/02/13 09:22

Matrix: Water

Date Received: 10/03/13 02:00

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			10/10/13 16:50	1
1,1,1-Trichloroethane	ND		1.0		ug/L			10/10/13 16:50	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			10/10/13 16:50	1
1,1,2-Trichloroethane	ND		1.0		ug/L			10/10/13 16:50	1
1,1-Dichloroethane	ND		1.0		ug/L			10/10/13 16:50	1
1,1-Dichloroethene	ND		1.0		ug/L			10/10/13 16:50	1
1,1-Dichloropropene	ND		1.0		ug/L			10/10/13 16:50	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			10/10/13 16:50	1
1,2,3-Trichloropropane	ND		1.0		ug/L			10/10/13 16:50	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			10/10/13 16:50	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			10/10/13 16:50	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			10/10/13 16:50	1
1,2-Dichlorobenzene	ND		1.0		ug/L			10/10/13 16:50	1
1,2-Dichloroethane	ND		1.0		ug/L			10/10/13 16:50	1
1,2-Dichloropropane	ND		1.0		ug/L			10/10/13 16:50	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			10/10/13 16:50	1
1,3-Dichlorobenzene	ND		1.0		ug/L			10/10/13 16:50	1
1,3-Dichloropropane	ND		1.0		ug/L			10/10/13 16:50	1
1,4-Dichlorobenzene	ND		1.0		ug/L			10/10/13 16:50	1
1,4-Dioxane	ND		50		ug/L			10/10/13 16:50	1
2,2-Dichloropropane	ND		1.0		ug/L			10/10/13 16:50	1
2-Butanone (MEK)	ND	*	10		ug/L			10/10/13 16:50	1
2-Chlorotoluene	ND		1.0		ug/L			10/10/13 16:50	1
2-Hexanone	ND		10		ug/L			10/10/13 16:50	1
4-Chlorotoluene	ND		1.0		ug/L			10/10/13 16:50	1
4-Isopropyltoluene	ND		1.0		ug/L			10/10/13 16:50	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			10/10/13 16:50	1
Acetone	ND		50		ug/L			10/10/13 16:50	1
Benzene	ND		1.0		ug/L			10/10/13 16:50	1
Bromobenzene	ND		1.0		ug/L			10/10/13 16:50	1
Bromoform	ND		1.0		ug/L			10/10/13 16:50	1
Bromomethane	ND		2.0		ug/L			10/10/13 16:50	1
Carbon disulfide	ND		10		ug/L			10/10/13 16:50	1
Carbon tetrachloride	ND		1.0		ug/L			10/10/13 16:50	1
Chlorobenzene	ND		1.0		ug/L			10/10/13 16:50	1
Chlorobromomethane	ND		1.0		ug/L			10/10/13 16:50	1
Chlorodibromomethane	ND		0.50		ug/L			10/10/13 16:50	1
Chloroethane	ND		2.0		ug/L			10/10/13 16:50	1
Chloroform	ND		1.0		ug/L			10/10/13 16:50	1
Chloromethane	ND		2.0		ug/L			10/10/13 16:50	1
cis-1,2-Dichloroethene	**4.0**		1.0		ug/L			10/10/13 16:50	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			10/10/13 16:50	1

Client Sample ID: MW-1011-20131002-01

Lab Sample ID: 480-47046-10

Date Collected: 10/02/13 09:22

Matrix: Water

Date Received: 10/03/13 02:00

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorobromomethane	ND		0.50		ug/L			10/10/13 16:50	1
Dichlorodifluoromethane	ND		1.0		ug/L			10/10/13 16:50	1
Ethyl ether	ND		1.0		ug/L			10/10/13 16:50	1
Ethylbenzene	ND		1.0		ug/L			10/10/13 16:50	1
Ethylene Dibromide	ND		1.0		ug/L			10/10/13 16:50	1
Hexachlorobutadiene	ND		0.40		ug/L			10/10/13 16:50	1
Isopropyl ether	ND		10		ug/L			10/10/13 16:50	1
Isopropylbenzene	ND		1.0		ug/L			10/10/13 16:50	1
Methyl tert-butyl ether	ND		1.0		ug/L			10/10/13 16:50	1
Methylene Chloride	ND		1.0		ug/L			10/10/13 16:50	1
m-Xylene & p-Xylene	ND		2.0		ug/L			10/10/13 16:50	1
Naphthalene	ND		5.0		ug/L			10/10/13 16:50	1
n-Butylbenzene	ND		1.0		ug/L			10/10/13 16:50	1
N-Propylbenzene	ND		1.0		ug/L			10/10/13 16:50	1
o-Xylene	ND		1.0		ug/L			10/10/13 16:50	1
sec-Butylbenzene	ND		1.0		ug/L			10/10/13 16:50	1
Styrene	ND		1.0		ug/L			10/10/13 16:50	1
Tert-amyl methyl ether	ND		5.0		ug/L			10/10/13 16:50	1
Tert-butyl ethyl ether	ND		5.0		ug/L			10/10/13 16:50	1
tert-Butylbenzene	ND		1.0		ug/L			10/10/13 16:50	1
Tetrachloroethene	ND		1.0		ug/L			10/10/13 16:50	1
Tetrahydrofuran	ND		10		ug/L			10/10/13 16:50	1
Toluene	ND		1.0		ug/L			10/10/13 16:50	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			10/10/13 16:50	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			10/10/13 16:50	1
Trichloroethene	**12**		1.0		ug/L			10/10/13 16:50	1
Trichlorofluoromethane	ND		1.0		ug/L			10/10/13 16:50	1
Vinyl chloride	ND		1.0		ug/L			10/10/13 16:50	1
Dibromomethane	ND		1.0		ug/L			10/10/13 16:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*95*		*70 - 130*		*10/10/13 16:50*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*		*10/10/13 16:50*	*1*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*		*10/10/13 16:50*	*1*

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	**0.20**		0.20		ug/L		10/06/13 08:30	10/07/13 14:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*76*		*70 - 130*	*10/06/13 08:30*	*10/07/13 14:47*	*1*

Client Sample ID: DUP-002-20131002-01

Lab Sample ID: 480-47046-11

Date Collected: 10/02/13 12:12

Matrix: Water

Date Received: 10/03/13 02:00

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			10/10/13 17:15	1
1,1,1-Trichloroethane	ND		1.0		ug/L			10/10/13 17:15	1

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-47046-1

Client Sample ID: DUP-002-20131002-01
Date Collected: 10/02/13 12:12
Date Received: 10/03/13 02:00

Lab Sample ID: 480-47046-11
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			10/10/13 17:15	1
1,1,2-Trichloroethane	ND		1.0		ug/L			10/10/13 17:15	1
1,1-Dichloroethane	ND		1.0		ug/L			10/10/13 17:15	1
1,1-Dichloroethene	**1.4**		1.0		ug/L			10/10/13 17:15	1
1,1-Dichloropropene	ND		1.0		ug/L			10/10/13 17:15	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			10/10/13 17:15	1
1,2,3-Trichloropropane	ND		1.0		ug/L			10/10/13 17:15	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			10/10/13 17:15	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			10/10/13 17:15	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			10/10/13 17:15	1
1,2-Dichlorobenzene	ND		1.0		ug/L			10/10/13 17:15	1
1,2-Dichloroethane	ND		1.0		ug/L			10/10/13 17:15	1
1,2-Dichloropropane	ND		1.0		ug/L			10/10/13 17:15	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			10/10/13 17:15	1
1,3-Dichlorobenzene	ND		1.0		ug/L			10/10/13 17:15	1
1,3-Dichloropropane	ND		1.0		ug/L			10/10/13 17:15	1
1,4-Dichlorobenzene	ND		1.0		ug/L			10/10/13 17:15	1
1,4-Dioxane	ND		50		ug/L			10/10/13 17:15	1
2,2-Dichloropropane	ND		1.0		ug/L			10/10/13 17:15	1
2-Butanone (MEK)	ND	*	10		ug/L			10/10/13 17:15	1
2-Chlorotoluene	ND		1.0		ug/L			10/10/13 17:15	1
2-Hexanone	ND		10		ug/L			10/10/13 17:15	1
4-Chlorotoluene	ND		1.0		ug/L			10/10/13 17:15	1
4-Isopropyltoluene	ND		1.0		ug/L			10/10/13 17:15	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			10/10/13 17:15	1
Acetone	ND		50		ug/L			10/10/13 17:15	1
Benzene	ND		1.0		ug/L			10/10/13 17:15	1
Bromobenzene	ND		1.0		ug/L			10/10/13 17:15	1
Bromoform	ND		1.0		ug/L			10/10/13 17:15	1
Bromomethane	ND		2.0		ug/L			10/10/13 17:15	1
Carbon disulfide	ND		10		ug/L			10/10/13 17:15	1
Carbon tetrachloride	ND		1.0		ug/L			10/10/13 17:15	1
Chlorobenzene	ND		1.0		ug/L			10/10/13 17:15	1
Chlorobromomethane	ND		1.0		ug/L			10/10/13 17:15	1
Chlorodibromomethane	ND		0.50		ug/L			10/10/13 17:15	1
Chloroethane	ND		2.0		ug/L			10/10/13 17:15	1
Chloroform	ND		1.0		ug/L			10/10/13 17:15	1
Chloromethane	ND		2.0		ug/L			10/10/13 17:15	1
cis-1,2-Dichloroethene	**3.4**		1.0		ug/L			10/10/13 17:15	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			10/10/13 17:15	1
Dichlorobromomethane	ND		0.50		ug/L			10/10/13 17:15	1
Dichlorodifluoromethane	ND		1.0		ug/L			10/10/13 17:15	1
Ethyl ether	ND		1.0		ug/L			10/10/13 17:15	1
Ethylbenzene	ND		1.0		ug/L			10/10/13 17:15	1
Ethylene Dibromide	ND		1.0		ug/L			10/10/13 17:15	1
Hexachlorobutadiene	ND		0.40		ug/L			10/10/13 17:15	1
Isopropyl ether	ND		10		ug/L			10/10/13 17:15	1
Isopropylbenzene	ND		1.0		ug/L			10/10/13 17:15	1
Methyl tert-butyl ether	ND		1.0		ug/L			10/10/13 17:15	1

Client Sample ID: DUP-002-20131002-01

Lab Sample ID: 480-47046-11

Date Collected: 10/02/13 12:12

Matrix: Water

Date Received: 10/03/13 02:00

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		1.0		ug/L			10/10/13 17:15	1
m-Xylene & p-Xylene	ND		2.0		ug/L			10/10/13 17:15	1
Naphthalene	ND		5.0		ug/L			10/10/13 17:15	1
n-Butylbenzene	ND		1.0		ug/L			10/10/13 17:15	1
N-Propylbenzene	ND		1.0		ug/L			10/10/13 17:15	1
o-Xylene	ND		1.0		ug/L			10/10/13 17:15	1
sec-Butylbenzene	ND		1.0		ug/L			10/10/13 17:15	1
Styrene	ND		1.0		ug/L			10/10/13 17:15	1
Tert-amyl methyl ether	ND		5.0		ug/L			10/10/13 17:15	1
Tert-butyl ethyl ether	ND		5.0		ug/L			10/10/13 17:15	1
tert-Butylbenzene	ND		1.0		ug/L			10/10/13 17:15	1
Tetrachloroethene	ND		1.0		ug/L			10/10/13 17:15	1
Tetrahydrofuran	ND		10		ug/L			10/10/13 17:15	1
Toluene	ND		1.0		ug/L			10/10/13 17:15	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			10/10/13 17:15	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			10/10/13 17:15	1
Trichloroethene	**32**		1.0		ug/L			10/10/13 17:15	1
Trichlorofluoromethane	ND		1.0		ug/L			10/10/13 17:15	1
Vinyl chloride	ND		1.0		ug/L			10/10/13 17:15	1
Dibromomethane	ND		1.0		ug/L			10/10/13 17:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*93*		*70 - 130*		*10/10/13 17:15*	*1*
1,2-Dichloroethane-d4 (Surr)	*95*		*70 - 130*		*10/10/13 17:15*	*1*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*		*10/10/13 17:15*	*1*

Client Sample ID: TB-002-20131002-01

Lab Sample ID: 480-47046-12

Date Collected: 10/02/13 00:00

Matrix: Water

Date Received: 10/03/13 02:00

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			10/10/13 17:41	1
1,1,1-Trichloroethane	ND		1.0		ug/L			10/10/13 17:41	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			10/10/13 17:41	1
1,1,2-Trichloroethane	ND		1.0		ug/L			10/10/13 17:41	1
1,1-Dichloroethane	ND		1.0		ug/L			10/10/13 17:41	1
1,1-Dichloroethene	ND		1.0		ug/L			10/10/13 17:41	1
1,1-Dichloropropene	ND		1.0		ug/L			10/10/13 17:41	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			10/10/13 17:41	1
1,2,3-Trichloropropane	ND		1.0		ug/L			10/10/13 17:41	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			10/10/13 17:41	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			10/10/13 17:41	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			10/10/13 17:41	1
1,2-Dichlorobenzene	ND		1.0		ug/L			10/10/13 17:41	1
1,2-Dichloroethane	ND		1.0		ug/L			10/10/13 17:41	1
1,2-Dichloropropane	ND		1.0		ug/L			10/10/13 17:41	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			10/10/13 17:41	1
1,3-Dichlorobenzene	ND		1.0		ug/L			10/10/13 17:41	1
1,3-Dichloropropane	ND		1.0		ug/L			10/10/13 17:41	1

Client Sample ID: TB-002-20131002-01
Date Collected: 10/02/13 00:00
Date Received: 10/03/13 02:00

Lab Sample ID: 480-47046-12
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	ND		1.0		ug/L			10/10/13 17:41	1
1,4-Dioxane	ND		50		ug/L			10/10/13 17:41	1
2,2-Dichloropropane	ND		1.0		ug/L			10/10/13 17:41	1
2-Butanone (MEK)	ND	*	10		ug/L			10/10/13 17:41	1
2-Chlorotoluene	ND		1.0		ug/L			10/10/13 17:41	1
2-Hexanone	ND		10		ug/L			10/10/13 17:41	1
4-Chlorotoluene	ND		1.0		ug/L			10/10/13 17:41	1
4-Isopropyltoluene	ND		1.0		ug/L			10/10/13 17:41	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			10/10/13 17:41	1
Acetone	ND		50		ug/L			10/10/13 17:41	1
Benzene	ND		1.0		ug/L			10/10/13 17:41	1
Bromobenzene	ND		1.0		ug/L			10/10/13 17:41	1
Bromoform	ND		1.0		ug/L			10/10/13 17:41	1
Bromomethane	ND		2.0		ug/L			10/10/13 17:41	1
Carbon disulfide	ND		10		ug/L			10/10/13 17:41	1
Carbon tetrachloride	ND		1.0		ug/L			10/10/13 17:41	1
Chlorobenzene	ND		1.0		ug/L			10/10/13 17:41	1
Chlorobromomethane	ND		1.0		ug/L			10/10/13 17:41	1
Chlorodibromomethane	ND		0.50		ug/L			10/10/13 17:41	1
Chloroethane	ND		2.0		ug/L			10/10/13 17:41	1
Chloroform	ND		1.0		ug/L			10/10/13 17:41	1
Chloromethane	ND		2.0		ug/L			10/10/13 17:41	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			10/10/13 17:41	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			10/10/13 17:41	1
Dichlorobromomethane	ND		0.50		ug/L			10/10/13 17:41	1
Dichlorodifluoromethane	ND		1.0		ug/L			10/10/13 17:41	1
Ethyl ether	ND		1.0		ug/L			10/10/13 17:41	1
Ethylbenzene	ND		1.0		ug/L			10/10/13 17:41	1
Ethylene Dibromide	ND		1.0		ug/L			10/10/13 17:41	1
Hexachlorobutadiene	ND		0.40		ug/L			10/10/13 17:41	1
Isopropyl ether	ND		10		ug/L			10/10/13 17:41	1
Isopropylbenzene	ND		1.0		ug/L			10/10/13 17:41	1
Methyl tert-butyl ether	ND		1.0		ug/L			10/10/13 17:41	1
Methylene Chloride	ND		1.0		ug/L			10/10/13 17:41	1
m-Xylene & p-Xylene	ND		2.0		ug/L			10/10/13 17:41	1
Naphthalene	ND		5.0		ug/L			10/10/13 17:41	1
n-Butylbenzene	ND		1.0		ug/L			10/10/13 17:41	1
N-Propylbenzene	ND		1.0		ug/L			10/10/13 17:41	1
o-Xylene	ND		1.0		ug/L			10/10/13 17:41	1
sec-Butylbenzene	ND		1.0		ug/L			10/10/13 17:41	1
Styrene	ND		1.0		ug/L			10/10/13 17:41	1
Tert-amyl methyl ether	ND		5.0		ug/L			10/10/13 17:41	1
Tert-butyl ethyl ether	ND		5.0		ug/L			10/10/13 17:41	1
tert-Butylbenzene	ND		1.0		ug/L			10/10/13 17:41	1
Tetrachloroethene	ND		1.0		ug/L			10/10/13 17:41	1
Tetrahydrofuran	ND		10		ug/L			10/10/13 17:41	1
Toluene	ND		1.0		ug/L			10/10/13 17:41	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			10/10/13 17:41	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			10/10/13 17:41	1

Client Sample ID: TB-002-20131002-01

Lab Sample ID: 480-47046-12

Date Collected: 10/02/13 00:00

Matrix: Water

Date Received: 10/03/13 02:00

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	ND		1.0		ug/L			10/10/13 17:41	1
Trichlorofluoromethane	ND		1.0		ug/L			10/10/13 17:41	1
Vinyl chloride	ND		1.0		ug/L			10/10/13 17:41	1
Dibromomethane	ND		1.0		ug/L			10/10/13 17:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*95*		*70 - 130*		*10/10/13 17:41*	*1*
1,2-Dichloroethane-d4 (Surr)	*97*		*70 - 130*		*10/10/13 17:41*	*1*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*		*10/10/13 17:41*	*1*

Client Sample ID: MW-1002M-20131002-01

Lab Sample ID: 480-47046-13

Date Collected: 10/02/13 14:35

Matrix: Water

Date Received: 10/03/13 02:00

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			10/10/13 18:06	1
1,1,1-Trichloroethane	ND		1.0		ug/L			10/10/13 18:06	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			10/10/13 18:06	1
1,1,2-Trichloroethane	ND		1.0		ug/L			10/10/13 18:06	1
1,1-Dichloroethane	ND		1.0		ug/L			10/10/13 18:06	1
1,1-Dichloroethene	ND		1.0		ug/L			10/10/13 18:06	1
1,1-Dichloropropene	ND		1.0		ug/L			10/10/13 18:06	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			10/10/13 18:06	1
1,2,3-Trichloropropane	ND		1.0		ug/L			10/10/13 18:06	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			10/10/13 18:06	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			10/10/13 18:06	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			10/10/13 18:06	1
1,2-Dichlorobenzene	ND		1.0		ug/L			10/10/13 18:06	1
1,2-Dichloroethane	ND		1.0		ug/L			10/10/13 18:06	1
1,2-Dichloropropane	ND		1.0		ug/L			10/10/13 18:06	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			10/10/13 18:06	1
1,3-Dichlorobenzene	ND		1.0		ug/L			10/10/13 18:06	1
1,3-Dichloropropane	ND		1.0		ug/L			10/10/13 18:06	1
1,4-Dichlorobenzene	ND		1.0		ug/L			10/10/13 18:06	1
1,4-Dioxane	ND		50		ug/L			10/10/13 18:06	1
2,2-Dichloropropane	ND		1.0		ug/L			10/10/13 18:06	1
2-Butanone (MEK)	ND	*	10		ug/L			10/10/13 18:06	1
2-Chlorotoluene	ND		1.0		ug/L			10/10/13 18:06	1
2-Hexanone	ND		10		ug/L			10/10/13 18:06	1
4-Chlorotoluene	ND		1.0		ug/L			10/10/13 18:06	1
4-Isopropyltoluene	ND		1.0		ug/L			10/10/13 18:06	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			10/10/13 18:06	1
Acetone	ND		50		ug/L			10/10/13 18:06	1
Benzene	ND		1.0		ug/L			10/10/13 18:06	1
Bromobenzene	ND		1.0		ug/L			10/10/13 18:06	1
Bromoform	ND		1.0		ug/L			10/10/13 18:06	1
Bromomethane	ND		2.0		ug/L			10/10/13 18:06	1
Carbon disulfide	ND		10		ug/L			10/10/13 18:06	1
Carbon tetrachloride	ND		1.0		ug/L			10/10/13 18:06	1

Client Sample ID: MW-1002M-20131002-01

Lab Sample ID: 480-47046-13

Date Collected: 10/02/13 14:35
Matrix: Water
Date Received: 10/03/13 02:00

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	ND		1.0		ug/L			10/10/13 18:06	1
Chlorobromomethane	ND		1.0		ug/L			10/10/13 18:06	1
Chlorodibromomethane	ND		0.50		ug/L			10/10/13 18:06	1
Chloroethane	ND		2.0		ug/L			10/10/13 18:06	1
Chloroform	ND		1.0		ug/L			10/10/13 18:06	1
Chloromethane	ND		2.0		ug/L			10/10/13 18:06	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			10/10/13 18:06	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			10/10/13 18:06	1
Dichlorobromomethane	ND		0.50		ug/L			10/10/13 18:06	1
Dichlorodifluoromethane	ND		1.0		ug/L			10/10/13 18:06	1
Ethyl ether	ND		1.0		ug/L			10/10/13 18:06	1
Ethylbenzene	ND		1.0		ug/L			10/10/13 18:06	1
Ethylene Dibromide	ND		1.0		ug/L			10/10/13 18:06	1
Hexachlorobutadiene	ND		0.40		ug/L			10/10/13 18:06	1
Isopropyl ether	ND		10		ug/L			10/10/13 18:06	1
Isopropylbenzene	ND		1.0		ug/L			10/10/13 18:06	1
Methyl tert-butyl ether	ND		1.0		ug/L			10/10/13 18:06	1
Methylene Chloride	ND		1.0		ug/L			10/10/13 18:06	1
m-Xylene & p-Xylene	ND		2.0		ug/L			10/10/13 18:06	1
Naphthalene	ND		5.0		ug/L			10/10/13 18:06	1
n-Butylbenzene	ND		1.0		ug/L			10/10/13 18:06	1
N-Propylbenzene	ND		1.0		ug/L			10/10/13 18:06	1
o-Xylene	ND		1.0		ug/L			10/10/13 18:06	1
sec-Butylbenzene	ND		1.0		ug/L			10/10/13 18:06	1
Styrene	ND		1.0		ug/L			10/10/13 18:06	1
Tert-amyl methyl ether	ND		5.0		ug/L			10/10/13 18:06	1
Tert-butyl ethyl ether	ND		5.0		ug/L			10/10/13 18:06	1
tert-Butylbenzene	ND		1.0		ug/L			10/10/13 18:06	1
Tetrachloroethene	ND		1.0		ug/L			10/10/13 18:06	1
Tetrahydrofuran	ND		10		ug/L			10/10/13 18:06	1
Toluene	ND		1.0		ug/L			10/10/13 18:06	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			10/10/13 18:06	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			10/10/13 18:06	1
Trichloroethene	ND		1.0		ug/L			10/10/13 18:06	1
Trichlorofluoromethane	ND		1.0		ug/L			10/10/13 18:06	1
Vinyl chloride	ND		1.0		ug/L			10/10/13 18:06	1
Dibromomethane	ND		1.0		ug/L			10/10/13 18:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*91*		*70 - 130*		*10/10/13 18:06*	*1*
1,2-Dichloroethane-d4 (Surr)	*96*		*70 - 130*		*10/10/13 18:06*	*1*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*		*10/10/13 18:06*	*1*

Client Sample ID: MW-1027-20131002-01

Lab Sample ID: 480-47046-14

Date Collected: 10/02/13 13:08
Matrix: Water
Date Received: 10/03/13 02:00

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			10/10/13 18:31	1

Client Sample ID: MW-1027-20131002-01
Date Collected: 10/02/13 13:08
Date Received: 10/03/13 02:00

Lab Sample ID: 480-47046-14
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0		ug/L			10/10/13 18:31	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			10/10/13 18:31	1
1,1,2-Trichloroethane	ND		1.0		ug/L			10/10/13 18:31	1
1,1-Dichloroethane	ND		1.0		ug/L			10/10/13 18:31	1
1,1-Dichloroethene	ND		1.0		ug/L			10/10/13 18:31	1
1,1-Dichloropropene	ND		1.0		ug/L			10/10/13 18:31	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			10/10/13 18:31	1
1,2,3-Trichloropropane	ND		1.0		ug/L			10/10/13 18:31	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			10/10/13 18:31	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			10/10/13 18:31	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			10/10/13 18:31	1
1,2-Dichlorobenzene	ND		1.0		ug/L			10/10/13 18:31	1
1,2-Dichloroethane	ND		1.0		ug/L			10/10/13 18:31	1
1,2-Dichloropropane	ND		1.0		ug/L			10/10/13 18:31	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			10/10/13 18:31	1
1,3-Dichlorobenzene	ND		1.0		ug/L			10/10/13 18:31	1
1,3-Dichloropropane	ND		1.0		ug/L			10/10/13 18:31	1
1,4-Dichlorobenzene	ND		1.0		ug/L			10/10/13 18:31	1
1,4-Dioxane	ND		50		ug/L			10/10/13 18:31	1
2,2-Dichloropropane	ND		1.0		ug/L			10/10/13 18:31	1
2-Butanone (MEK)	ND	*	10		ug/L			10/10/13 18:31	1
2-Chlorotoluene	ND		1.0		ug/L			10/10/13 18:31	1
2-Hexanone	ND		10		ug/L			10/10/13 18:31	1
4-Chlorotoluene	ND		1.0		ug/L			10/10/13 18:31	1
4-Isopropyltoluene	ND		1.0		ug/L			10/10/13 18:31	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			10/10/13 18:31	1
Acetone	ND		50		ug/L			10/10/13 18:31	1
Benzene	ND		1.0		ug/L			10/10/13 18:31	1
Bromobenzene	ND		1.0		ug/L			10/10/13 18:31	1
Bromoform	ND		1.0		ug/L			10/10/13 18:31	1
Bromomethane	ND		2.0		ug/L			10/10/13 18:31	1
Carbon disulfide	**19**		10		ug/L			10/10/13 18:31	1
Carbon tetrachloride	ND		1.0		ug/L			10/10/13 18:31	1
Chlorobenzene	ND		1.0		ug/L			10/10/13 18:31	1
Chlorobromomethane	ND		1.0		ug/L			10/10/13 18:31	1
Chlorodibromomethane	ND		0.50		ug/L			10/10/13 18:31	1
Chloroethane	ND		2.0		ug/L			10/10/13 18:31	1
Chloroform	ND		1.0		ug/L			10/10/13 18:31	1
Chloromethane	ND		2.0		ug/L			10/10/13 18:31	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			10/10/13 18:31	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			10/10/13 18:31	1
Dichlorobromomethane	ND		0.50		ug/L			10/10/13 18:31	1
Dichlorodifluoromethane	ND		1.0		ug/L			10/10/13 18:31	1
Ethyl ether	ND		1.0		ug/L			10/10/13 18:31	1
Ethylbenzene	ND		1.0		ug/L			10/10/13 18:31	1
Ethylene Dibromide	ND		1.0		ug/L			10/10/13 18:31	1
Hexachlorobutadiene	ND		0.40		ug/L			10/10/13 18:31	1
Isopropyl ether	ND		10		ug/L			10/10/13 18:31	1
Isopropylbenzene	ND		1.0		ug/L			10/10/13 18:31	1

Client Sample ID: MW-1027-20131002-01

Lab Sample ID: 480-47046-14

Date Collected: 10/02/13 13:08

Matrix: Water

Date Received: 10/03/13 02:00

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		1.0		ug/L			10/10/13 18:31	1
Methylene Chloride	ND		1.0		ug/L			10/10/13 18:31	1
m-Xylene & p-Xylene	ND		2.0		ug/L			10/10/13 18:31	1
Naphthalene	ND		5.0		ug/L			10/10/13 18:31	1
n-Butylbenzene	ND		1.0		ug/L			10/10/13 18:31	1
N-Propylbenzene	ND		1.0		ug/L			10/10/13 18:31	1
o-Xylene	ND		1.0		ug/L			10/10/13 18:31	1
sec-Butylbenzene	ND		1.0		ug/L			10/10/13 18:31	1
Styrene	ND		1.0		ug/L			10/10/13 18:31	1
Tert-amyl methyl ether	ND		5.0		ug/L			10/10/13 18:31	1
Tert-butyl ethyl ether	ND		5.0		ug/L			10/10/13 18:31	1
tert-Butylbenzene	ND		1.0		ug/L			10/10/13 18:31	1
Tetrachloroethene	ND		1.0		ug/L			10/10/13 18:31	1
Tetrahydrofuran	ND		10		ug/L			10/10/13 18:31	1
Toluene	ND		1.0		ug/L			10/10/13 18:31	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			10/10/13 18:31	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			10/10/13 18:31	1
Trichloroethene	ND		1.0		ug/L			10/10/13 18:31	1
Trichlorofluoromethane	ND		1.0		ug/L			10/10/13 18:31	1
Vinyl chloride	ND		1.0		ug/L			10/10/13 18:31	1
Dibromomethane	ND		1.0		ug/L			10/10/13 18:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*90*		*70 - 130*		*10/10/13 18:31*	*1*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 130*		*10/10/13 18:31*	*1*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*		*10/10/13 18:31*	*1*

Client Sample ID: MW-1018-20131002-01

Lab Sample ID: 480-47046-15

Date Collected: 10/02/13 14:15

Matrix: Water

Date Received: 10/03/13 02:00

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			10/11/13 16:47	1
1,1,1-Trichloroethane	**17**		1.0		ug/L			10/11/13 16:47	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			10/11/13 16:47	1
1,1,2-Trichloroethane	ND		1.0		ug/L			10/11/13 16:47	1
1,1-Dichloroethane	ND		1.0		ug/L			10/11/13 16:47	1
1,1-Dichloroethene	**1.0**		1.0		ug/L			10/11/13 16:47	1
1,1-Dichloropropene	ND		1.0		ug/L			10/11/13 16:47	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			10/11/13 16:47	1
1,2,3-Trichloropropane	ND		1.0		ug/L			10/11/13 16:47	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			10/11/13 16:47	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			10/11/13 16:47	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			10/11/13 16:47	1
1,2-Dichlorobenzene	ND		1.0		ug/L			10/11/13 16:47	1
1,2-Dichloroethane	ND		1.0		ug/L			10/11/13 16:47	1
1,2-Dichloropropane	ND		1.0		ug/L			10/11/13 16:47	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			10/11/13 16:47	1
1,3-Dichlorobenzene	ND		1.0		ug/L			10/11/13 16:47	1

Client Sample ID: MW-1018-20131002-01
Date Collected: 10/02/13 14:15
Date Received: 10/03/13 02:00

Lab Sample ID: 480-47046-15
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichloropropane	ND		1.0		ug/L			10/11/13 16:47	1
1,4-Dichlorobenzene	ND		1.0		ug/L			10/11/13 16:47	1
1,4-Dioxane	ND		50		ug/L			10/11/13 16:47	1
2,2-Dichloropropane	ND		1.0		ug/L			10/11/13 16:47	1
2-Butanone (MEK)	ND	*	10		ug/L			10/11/13 16:47	1
2-Chlorotoluene	ND		1.0		ug/L			10/11/13 16:47	1
2-Hexanone	ND		10		ug/L			10/11/13 16:47	1
4-Chlorotoluene	ND		1.0		ug/L			10/11/13 16:47	1
4-Isopropyltoluene	ND		1.0		ug/L			10/11/13 16:47	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			10/11/13 16:47	1
Acetone	ND		50		ug/L			10/11/13 16:47	1
Benzene	ND		1.0		ug/L			10/11/13 16:47	1
Bromobenzene	ND		1.0		ug/L			10/11/13 16:47	1
Bromoform	ND		1.0		ug/L			10/11/13 16:47	1
Bromomethane	ND		2.0		ug/L			10/11/13 16:47	1
Carbon disulfide	ND		10		ug/L			10/11/13 16:47	1
Carbon tetrachloride	ND		1.0		ug/L			10/11/13 16:47	1
Chlorobenzene	ND		1.0		ug/L			10/11/13 16:47	1
Chlorobromomethane	ND		1.0		ug/L			10/11/13 16:47	1
Chlorodibromomethane	ND		0.50		ug/L			10/11/13 16:47	1
Chloroethane	ND		2.0		ug/L			10/11/13 16:47	1
Chloroform	ND		1.0		ug/L			10/11/13 16:47	1
Chloromethane	ND		2.0		ug/L			10/11/13 16:47	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			10/11/13 16:47	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			10/11/13 16:47	1
Dichlorobromomethane	ND		0.50		ug/L			10/11/13 16:47	1
Dichlorodifluoromethane	ND		1.0		ug/L			10/11/13 16:47	1
Ethyl ether	ND		1.0		ug/L			10/11/13 16:47	1
Ethylbenzene	ND		1.0		ug/L			10/11/13 16:47	1
Ethylene Dibromide	ND		1.0		ug/L			10/11/13 16:47	1
Hexachlorobutadiene	ND		0.40		ug/L			10/11/13 16:47	1
Isopropyl ether	ND		10		ug/L			10/11/13 16:47	1
Isopropylbenzene	ND		1.0		ug/L			10/11/13 16:47	1
Methyl tert-butyl ether	**10**		1.0		ug/L			10/11/13 16:47	1
Methylene Chloride	ND		1.0		ug/L			10/11/13 16:47	1
m-Xylene & p-Xylene	ND		2.0		ug/L			10/11/13 16:47	1
Naphthalene	ND		5.0		ug/L			10/11/13 16:47	1
n-Butylbenzene	ND		1.0		ug/L			10/11/13 16:47	1
N-Propylbenzene	ND		1.0		ug/L			10/11/13 16:47	1
o-Xylene	ND		1.0		ug/L			10/11/13 16:47	1
sec-Butylbenzene	ND		1.0		ug/L			10/11/13 16:47	1
Styrene	ND		1.0		ug/L			10/11/13 16:47	1
Tert-amyl methyl ether	ND		5.0		ug/L			10/11/13 16:47	1
Tert-butyl ethyl ether	ND		5.0		ug/L			10/11/13 16:47	1
tert-Butylbenzene	ND		1.0		ug/L			10/11/13 16:47	1
Tetrachloroethene	ND		1.0		ug/L			10/11/13 16:47	1
Tetrahydrofuran	ND		10		ug/L			10/11/13 16:47	1
Toluene	ND		1.0		ug/L			10/11/13 16:47	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			10/11/13 16:47	1

Client Sample ID: MW-1018-20131002-01

Lab Sample ID: 480-47046-15

Date Collected: 10/02/13 14:15

Matrix: Water

Date Received: 10/03/13 02:00

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	ND		0.40		ug/L			10/11/13 16:47	1
Trichloroethene	**59**		1.0		ug/L			10/11/13 16:47	1
Trichlorofluoromethane	ND		1.0		ug/L			10/11/13 16:47	1
Vinyl chloride	ND		1.0		ug/L			10/11/13 16:47	1
Dibromomethane	ND		1.0		ug/L			10/11/13 16:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*94*		*70 - 130*		*10/11/13 16:47*	*1*
1,2-Dichloroethane-d4 (Surr)	*93*		*70 - 130*		*10/11/13 16:47*	*1*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*		*10/11/13 16:47*	*1*

Client Sample ID: MW-1034-20131002-01

Lab Sample ID: 480-47046-16

Date Collected: 10/02/13 14:40

Matrix: Water

Date Received: 10/03/13 02:00

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			10/10/13 19:21	1
1,1,1-Trichloroethane	ND		1.0		ug/L			10/10/13 19:21	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			10/10/13 19:21	1
1,1,2-Trichloroethane	ND		1.0		ug/L			10/10/13 19:21	1
1,1-Dichloroethane	ND		1.0		ug/L			10/10/13 19:21	1
1,1-Dichloroethene	ND		1.0		ug/L			10/10/13 19:21	1
1,1-Dichloropropene	ND		1.0		ug/L			10/10/13 19:21	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			10/10/13 19:21	1
1,2,3-Trichloropropane	ND		1.0		ug/L			10/10/13 19:21	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			10/10/13 19:21	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			10/10/13 19:21	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			10/10/13 19:21	1
1,2-Dichlorobenzene	ND		1.0		ug/L			10/10/13 19:21	1
1,2-Dichloroethane	ND		1.0		ug/L			10/10/13 19:21	1
1,2-Dichloropropane	ND		1.0		ug/L			10/10/13 19:21	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			10/10/13 19:21	1
1,3-Dichlorobenzene	ND		1.0		ug/L			10/10/13 19:21	1
1,3-Dichloropropane	ND		1.0		ug/L			10/10/13 19:21	1
1,4-Dichlorobenzene	ND		1.0		ug/L			10/10/13 19:21	1
1,4-Dioxane	ND		50		ug/L			10/10/13 19:21	1
2,2-Dichloropropane	ND		1.0		ug/L			10/10/13 19:21	1
2-Butanone (MEK)	ND	*	10		ug/L			10/10/13 19:21	1
2-Chlorotoluene	ND		1.0		ug/L			10/10/13 19:21	1
2-Hexanone	ND		10		ug/L			10/10/13 19:21	1
4-Chlorotoluene	ND		1.0		ug/L			10/10/13 19:21	1
4-Isopropyltoluene	ND		1.0		ug/L			10/10/13 19:21	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			10/10/13 19:21	1
Acetone	ND		50		ug/L			10/10/13 19:21	1
Benzene	ND		1.0		ug/L			10/10/13 19:21	1
Bromobenzene	ND		1.0		ug/L			10/10/13 19:21	1
Bromoform	ND		1.0		ug/L			10/10/13 19:21	1
Bromomethane	ND		2.0		ug/L			10/10/13 19:21	1
Carbon disulfide	ND		10		ug/L			10/10/13 19:21	1

Client Sample ID: MW-1034-20131002-01

Lab Sample ID: 480-47046-16

Date Collected: 10/02/13 14:40

Matrix: Water

Date Received: 10/03/13 02:00

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	ND		1.0		ug/L			10/10/13 19:21	1
Chlorobenzene	ND		1.0		ug/L			10/10/13 19:21	1
Chlorobromomethane	ND		1.0		ug/L			10/10/13 19:21	1
Chlorodibromomethane	ND		0.50		ug/L			10/10/13 19:21	1
Chloroethane	ND		2.0		ug/L			10/10/13 19:21	1
Chloroform	ND		1.0		ug/L			10/10/13 19:21	1
Chloromethane	ND		2.0		ug/L			10/10/13 19:21	1
cis-1,2-Dichloroethene	**16**		1.0		ug/L			10/10/13 19:21	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			10/10/13 19:21	1
Dichlorobromomethane	ND		0.50		ug/L			10/10/13 19:21	1
Dichlorodifluoromethane	ND		1.0		ug/L			10/10/13 19:21	1
Ethyl ether	ND		1.0		ug/L			10/10/13 19:21	1
Ethylbenzene	ND		1.0		ug/L			10/10/13 19:21	1
Ethylene Dibromide	ND		1.0		ug/L			10/10/13 19:21	1
Hexachlorobutadiene	ND		0.40		ug/L			10/10/13 19:21	1
Isopropyl ether	ND		10		ug/L			10/10/13 19:21	1
Isopropylbenzene	ND		1.0		ug/L			10/10/13 19:21	1
Methyl tert-butyl ether	ND		1.0		ug/L			10/10/13 19:21	1
Methylene Chloride	ND		1.0		ug/L			10/10/13 19:21	1
m-Xylene & p-Xylene	ND		2.0		ug/L			10/10/13 19:21	1
Naphthalene	ND		5.0		ug/L			10/10/13 19:21	1
n-Butylbenzene	ND		1.0		ug/L			10/10/13 19:21	1
N-Propylbenzene	ND		1.0		ug/L			10/10/13 19:21	1
o-Xylene	ND		1.0		ug/L			10/10/13 19:21	1
sec-Butylbenzene	ND		1.0		ug/L			10/10/13 19:21	1
Styrene	ND		1.0		ug/L			10/10/13 19:21	1
Tert-amyl methyl ether	ND		5.0		ug/L			10/10/13 19:21	1
Tert-butyl ethyl ether	ND		5.0		ug/L			10/10/13 19:21	1
tert-Butylbenzene	ND		1.0		ug/L			10/10/13 19:21	1
Tetrachloroethene	ND		1.0		ug/L			10/10/13 19:21	1
Tetrahydrofuran	ND		10		ug/L			10/10/13 19:21	1
Toluene	ND		1.0		ug/L			10/10/13 19:21	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			10/10/13 19:21	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			10/10/13 19:21	1
Trichloroethene	**44**		1.0		ug/L			10/10/13 19:21	1
Trichlorofluoromethane	ND		1.0		ug/L			10/10/13 19:21	1
Vinyl chloride	ND		1.0		ug/L			10/10/13 19:21	1
Dibromomethane	ND		1.0		ug/L			10/10/13 19:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*93*		*70 - 130*		*10/10/13 19:21*	*1*
1,2-Dichloroethane-d4 (Surr)	*96*		*70 - 130*		*10/10/13 19:21*	*1*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*		*10/10/13 19:21*	*1*

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	**0.63**		0.20		ug/L		10/10/13 15:20	10/11/13 14:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*73*		*70 - 130*	*10/10/13 15:20*	*10/11/13 14:04*	*1*

Surrogate Summary

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-47046-1

Method: 8260C - Volatile Organic Compounds (GC/MS)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		TOL	12DCE	BFB
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	(70-130)
480-47046-1	DUP-003-20131002-01	94	99	100
480-47046-2	MW-1006-20131002-01	95	101	101
480-47046-3	MW-1015D-20131002-01	96	99	100
480-47046-4	MW-1028-20131002-01	95	100	104
480-47046-5	MW-1009-20131002-01	93	94	103
480-47046-6	MW-1004-20131002-01	94	97	103
480-47046-7	MW-1010M-20131002-01	97	98	102
480-47046-8	MW-1010D-20131002-01	95	97	104
480-47046-9	MW-1022-20131002-01	93	97	102
480-47046-10	MW-1011-20131002-01	95	99	105
480-47046-11	DUP-002-20131002-01	93	95	102
480-47046-12	TB-002-20131002-01	95	97	104
480-47046-13	MW-1002M-20131002-01	91	96	101
480-47046-14	MW-1027-20131002-01	90	94	101
480-47046-15	MW-1018-20131002-01	94	93	106
480-47046-15 MS	MW-1018-20131002-01	99	98	100
480-47046-15 MSD	MW-1018-20131002-01	100	102	104
480-47046-16	MW-1034-20131002-01	93	96	106
LCS 480-143681/5	Lab Control Sample	92	96	101
LCS 480-143864/4	Lab Control Sample	94	98	106
LCS 480-143960/5	Lab Control Sample	93	98	104
LCS 480-144314/5	Lab Control Sample	92	97	105
LCS 480-145302/5	Lab Control Sample	99	102	101
LCSD 480-143681/6	Lab Control Sample Dup	97	97	106
LCSD 480-143864/5	Lab Control Sample Dup	94	99	105
LCSD 480-143960/6	Lab Control Sample Dup	93	97	103
LCSD 480-144314/6	Lab Control Sample Dup	92	97	105
LCSD 480-145302/8	Lab Control Sample Dup	99	98	100
MB 480-143681/8	Method Blank	94	94	101
MB 480-143864/7	Method Blank	97	95	104
MB 480-143960/8	Method Blank	94	96	103
MB 480-144314/8	Method Blank	92	93	102
MB 480-145302/7	Method Blank	100	101	98

Surrogate Legend

TOL = Toluene-d8 (Surr)
12DCE = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
		14DD8
Lab Sample ID	Client Sample ID	(70-130)
480-47046-9	MW-1022-20131002-01	80
480-47046-10	MW-1011-20131002-01	76
480-47046-16	MW-1034-20131002-01	73
LCS 200-62238/2-A	Lab Control Sample	88

Surrogate Summary

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-47046-1

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM) (Continued)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)							
Lab Sample ID	**Client Sample ID**	**14DD8 (70-130)**							
LCS 200-62540/2-A	Lab Control Sample	76							
MB 200-62238/1-A	Method Blank	83							
MB 200-62540/1-A	Method Blank	89							

Surrogate Legend

14DD8 = 1,4-Dioxane-d8 (Surr)

Method: 8260C - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-143681/8
Matrix: Water
Analysis Batch: 143681

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			10/09/13 13:06	1
1,1,1-Trichloroethane	ND		1.0		ug/L			10/09/13 13:06	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			10/09/13 13:06	1
1,1,2-Trichloroethane	ND		1.0		ug/L			10/09/13 13:06	1
1,1-Dichloroethane	ND		1.0		ug/L			10/09/13 13:06	1
1,1-Dichloroethene	ND		1.0		ug/L			10/09/13 13:06	1
1,1-Dichloropropene	ND		1.0		ug/L			10/09/13 13:06	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			10/09/13 13:06	1
1,2,3-Trichloropropane	ND		1.0		ug/L			10/09/13 13:06	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			10/09/13 13:06	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			10/09/13 13:06	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			10/09/13 13:06	1
1,2-Dichlorobenzene	ND		1.0		ug/L			10/09/13 13:06	1
1,2-Dichloroethane	ND		1.0		ug/L			10/09/13 13:06	1
1,2-Dichloropropane	ND		1.0		ug/L			10/09/13 13:06	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			10/09/13 13:06	1
1,3-Dichlorobenzene	ND		1.0		ug/L			10/09/13 13:06	1
1,3-Dichloropropane	ND		1.0		ug/L			10/09/13 13:06	1
1,4-Dichlorobenzene	ND		1.0		ug/L			10/09/13 13:06	1
1,4-Dioxane	ND		50		ug/L			10/09/13 13:06	1
2,2-Dichloropropane	ND		1.0		ug/L			10/09/13 13:06	1
2-Butanone (MEK)	ND		10		ug/L			10/09/13 13:06	1
2-Chlorotoluene	ND		1.0		ug/L			10/09/13 13:06	1
2-Hexanone	ND		10		ug/L			10/09/13 13:06	1
4-Chlorotoluene	ND		1.0		ug/L			10/09/13 13:06	1
4-Isopropyltoluene	ND		1.0		ug/L			10/09/13 13:06	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			10/09/13 13:06	1
Acetone	ND		50		ug/L			10/09/13 13:06	1
Benzene	ND		1.0		ug/L			10/09/13 13:06	1
Bromobenzene	ND		1.0		ug/L			10/09/13 13:06	1
Bromoform	ND		1.0		ug/L			10/09/13 13:06	1
Bromomethane	ND		2.0		ug/L			10/09/13 13:06	1
Carbon disulfide	ND		10		ug/L			10/09/13 13:06	1
Carbon tetrachloride	ND		1.0		ug/L			10/09/13 13:06	1
Chlorobenzene	ND		1.0		ug/L			10/09/13 13:06	1
Chlorobromomethane	ND		1.0		ug/L			10/09/13 13:06	1
Chlorodibromomethane	ND		0.50		ug/L			10/09/13 13:06	1
Chloroethane	ND		2.0		ug/L			10/09/13 13:06	1
Chloroform	ND		1.0		ug/L			10/09/13 13:06	1
Chloromethane	ND		2.0		ug/L			10/09/13 13:06	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			10/09/13 13:06	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			10/09/13 13:06	1
Dichlorobromomethane	ND		0.50		ug/L			10/09/13 13:06	1
Dichlorodifluoromethane	ND		1.0		ug/L			10/09/13 13:06	1
Ethyl ether	ND		1.0		ug/L			10/09/13 13:06	1
Ethylbenzene	ND		1.0		ug/L			10/09/13 13:06	1
Ethylene Dibromide	ND		1.0		ug/L			10/09/13 13:06	1
Hexachlorobutadiene	ND		0.40		ug/L			10/09/13 13:06	1

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-143681/8
Matrix: Water
Analysis Batch: 143681

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropyl ether	ND		10		ug/L			10/09/13 13:06	1
Isopropylbenzene	ND		1.0		ug/L			10/09/13 13:06	1
Methyl tert-butyl ether	ND		1.0		ug/L			10/09/13 13:06	1
Methylene Chloride	ND		1.0		ug/L			10/09/13 13:06	1
m-Xylene & p-Xylene	ND		2.0		ug/L			10/09/13 13:06	1
Naphthalene	ND		5.0		ug/L			10/09/13 13:06	1
n-Butylbenzene	ND		1.0		ug/L			10/09/13 13:06	1
N-Propylbenzene	ND		1.0		ug/L			10/09/13 13:06	1
o-Xylene	ND		1.0		ug/L			10/09/13 13:06	1
sec-Butylbenzene	ND		1.0		ug/L			10/09/13 13:06	1
Styrene	ND		1.0		ug/L			10/09/13 13:06	1
Tert-amyl methyl ether	ND		5.0		ug/L			10/09/13 13:06	1
Tert-butyl ethyl ether	ND		5.0		ug/L			10/09/13 13:06	1
tert-Butylbenzene	ND		1.0		ug/L			10/09/13 13:06	1
Tetrachloroethene	ND		1.0		ug/L			10/09/13 13:06	1
Tetrahydrofuran	ND		10		ug/L			10/09/13 13:06	1
Toluene	ND		1.0		ug/L			10/09/13 13:06	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			10/09/13 13:06	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			10/09/13 13:06	1
Trichloroethene	ND		1.0		ug/L			10/09/13 13:06	1
Trichlorofluoromethane	ND		1.0		ug/L			10/09/13 13:06	1
Vinyl chloride	ND		1.0		ug/L			10/09/13 13:06	1
Dibromomethane	ND		1.0		ug/L			10/09/13 13:06	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*94*		*70 - 130*		*10/09/13 13:06*	*1*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 130*		*10/09/13 13:06*	*1*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*		*10/09/13 13:06*	*1*

Lab Sample ID: LCS 480-143681/5
Matrix: Water
Analysis Batch: 143681

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	25.0	26.8		ug/L		107	70 - 130
1,1,1-Trichloroethane	25.0	28.2		ug/L		113	70 - 130
1,1,2,2-Tetrachloroethane	25.0	25.1		ug/L		100	70 - 130
1,1,2-Trichloroethane	25.0	25.0		ug/L		100	70 - 130
1,1-Dichloroethane	25.0	27.8		ug/L		111	70 - 130
1,1-Dichloroethene	25.0	28.1		ug/L		112	70 - 130
1,1-Dichloropropene	25.0	28.3		ug/L		113	70 - 130
1,2,3-Trichlorobenzene	25.0	25.7		ug/L		103	70 - 130
1,2,3-Trichloropropane	25.0	24.5		ug/L		98	70 - 130
1,2,4-Trichlorobenzene	25.0	26.0		ug/L		104	70 - 130
1,2,4-Trimethylbenzene	25.0	25.8		ug/L		103	70 - 130
1,2-Dibromo-3-Chloropropane	25.0	23.0		ug/L		92	70 - 130
1,2-Dichlorobenzene	25.0	25.4		ug/L		102	70 - 130
1,2-Dichloroethane	25.0	25.9		ug/L		104	70 - 130

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-143681/5
Matrix: Water
Analysis Batch: 143681

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichloropropane	25.0	26.8		ug/L		107	70 - 130
1,3,5-Trimethylbenzene	25.0	25.9		ug/L		104	70 - 130
1,3-Dichlorobenzene	25.0	25.4		ug/L		102	70 - 130
1,3-Dichloropropane	25.0	25.0		ug/L		100	70 - 130
1,4-Dichlorobenzene	25.0	25.1		ug/L		100	70 - 130
1,4-Dioxane	1000	1210		ug/L		121	70 - 130
2,2-Dichloropropane	25.0	28.9		ug/L		116	70 - 130
2-Butanone (MEK)	125	190	*	ug/L		152	70 - 130
2-Chlorotoluene	25.0	30.5		ug/L		122	70 - 130
2-Hexanone	125	131		ug/L		105	70 - 130
4-Chlorotoluene	25.0	28.3		ug/L		113	70 - 130
4-Isopropyltoluene	25.0	26.0		ug/L		104	70 - 130
4-Methyl-2-pentanone (MIBK)	125	130		ug/L		104	70 - 130
Acetone	125	141		ug/L		113	70 - 130
Benzene	25.0	26.9		ug/L		108	70 - 130
Bromobenzene	25.0	25.4		ug/L		101	70 - 130
Bromoform	25.0	27.7		ug/L		111	70 - 130
Bromomethane	25.0	27.8		ug/L		111	70 - 130
Carbon disulfide	25.0	29.5		ug/L		118	70 - 130
Carbon tetrachloride	25.0	28.8		ug/L		115	70 - 130
Chlorobenzene	25.0	25.6		ug/L		102	70 - 130
Chlorobromomethane	25.0	27.7		ug/L		111	70 - 130
Chlorodibromomethane	25.0	26.7		ug/L		107	70 - 130
Chloroethane	25.0	28.6		ug/L		114	70 - 130
Chloroform	25.0	26.8		ug/L		107	70 - 130
Chloromethane	25.0	27.2		ug/L		109	70 - 130
cis-1,2-Dichloroethene	25.0	26.4		ug/L		105	70 - 130
cis-1,3-Dichloropropene	25.0	28.0		ug/L		112	70 - 130
Dichlorobromomethane	25.0	27.4		ug/L		110	70 - 130
Dichlorodifluoromethane	50.0	70.9	*	ug/L		142	70 - 130
Ethyl ether	25.0	26.9		ug/L		108	70 - 130
Ethylbenzene	25.0	25.9		ug/L		103	70 - 130
Ethylene Dibromide	25.0	25.1		ug/L		100	70 - 130
Hexachlorobutadiene	25.0	27.1		ug/L		109	70 - 130
Isopropyl ether	25.0	26.8		ug/L		107	70 - 130
Isopropylbenzene	25.0	26.1		ug/L		104	70 - 130
Methyl tert-butyl ether	25.0	28.9		ug/L		116	70 - 130
Methylene Chloride	25.0	26.8		ug/L		107	70 - 130
m-Xylene & p-Xylene	50.0	52.3		ug/L		105	70 - 130
Naphthalene	25.0	25.3		ug/L		101	70 - 130
n-Butylbenzene	25.0	26.0		ug/L		104	70 - 130
N-Propylbenzene	25.0	26.5		ug/L		106	70 - 130
o-Xylene	25.0	26.1		ug/L		104	70 - 130
sec-Butylbenzene	25.0	26.2		ug/L		105	70 - 130
Styrene	25.0	25.7		ug/L		103	70 - 130
Tert-amyl methyl ether	25.0	26.8		ug/L		107	70 - 130
Tert-butyl ethyl ether	25.0	25.4		ug/L		102	70 - 130
tert-Butylbenzene	25.0	25.9		ug/L		104	70 - 130

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-143681/5
Matrix: Water
Analysis Batch: 143681

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Tetrachloroethene	25.0	27.5		ug/L		110	70 - 130
Tetrahydrofuran	125	131		ug/L		105	70 - 130
Toluene	25.0	25.7		ug/L		103	70 - 130
trans-1,2-Dichloroethene	25.0	27.4		ug/L		110	70 - 130
trans-1,3-Dichloropropene	25.0	26.8		ug/L		107	70 - 130
Trichloroethene	25.0	27.8		ug/L		111	70 - 130
Trichlorofluoromethane	25.0	29.8		ug/L		119	70 - 130
Vinyl chloride	25.0	29.2		ug/L		117	70 - 130
Dibromomethane	25.0	26.3		ug/L		105	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*92*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*96*		*70 - 130*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*

Lab Sample ID: LCSD 480-143681/6
Matrix: Water
Analysis Batch: 143681

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	25.0	26.5		ug/L		106	70 - 130	1	20
1,1,1-Trichloroethane	25.0	26.5		ug/L		106	70 - 130	6	20
1,1,2,2-Tetrachloroethane	25.0	25.1		ug/L		101	70 - 130	0	20
1,1,2-Trichloroethane	25.0	25.7		ug/L		103	70 - 130	3	20
1,1-Dichloroethane	25.0	26.0		ug/L		104	70 - 130	7	20
1,1-Dichloroethene	25.0	26.3		ug/L		105	70 - 130	7	20
1,1-Dichloropropene	25.0	26.5		ug/L		106	70 - 130	6	20
1,2,3-Trichlorobenzene	25.0	25.6		ug/L		102	70 - 130	0	20
1,2,3-Trichloropropane	25.0	24.6		ug/L		99	70 - 130	1	20
1,2,4-Trichlorobenzene	25.0	25.4		ug/L		101	70 - 130	2	20
1,2,4-Trimethylbenzene	25.0	24.7		ug/L		99	70 - 130	4	20
1,2-Dibromo-3-Chloropropane	25.0	24.0		ug/L		96	70 - 130	4	20
1,2-Dichlorobenzene	25.0	24.5		ug/L		98	70 - 130	4	20
1,2-Dichloroethane	25.0	25.1		ug/L		100	70 - 130	3	20
1,2-Dichloropropane	25.0	25.7		ug/L		103	70 - 130	4	20
1,3,5-Trimethylbenzene	25.0	24.9		ug/L		99	70 - 130	4	20
1,3-Dichlorobenzene	25.0	24.5		ug/L		98	70 - 130	4	20
1,3-Dichloropropane	25.0	25.5		ug/L		102	70 - 130	2	20
1,4-Dichlorobenzene	25.0	24.7		ug/L		99	70 - 130	1	20
1,4-Dioxane	1000	1250		ug/L		125	70 - 130	3	20
2,2-Dichloropropane	25.0	26.6		ug/L		107	70 - 130	8	20
2-Butanone (MEK)	125	193	*	ug/L		154	70 - 130	2	20
2-Chlorotoluene	25.0	30.4		ug/L		122	70 - 130	0	20
2-Hexanone	125	141		ug/L		113	70 - 130	7	20
4-Chlorotoluene	25.0	27.0		ug/L		108	70 - 130	5	20
4-Isopropyltoluene	25.0	24.9		ug/L		100	70 - 130	4	20
4-Methyl-2-pentanone (MIBK)	125	136		ug/L		109	70 - 130	4	20
Acetone	125	143		ug/L		114	70 - 130	1	20

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 480-143681/6
Matrix: Water
Analysis Batch: 143681

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	25.0	25.6		ug/L		103	70 - 130	5	20
Bromobenzene	25.0	25.0		ug/L		100	70 - 130	1	20
Bromoform	25.0	28.7		ug/L		115	70 - 130	4	20
Bromomethane	25.0	26.1		ug/L		104	70 - 130	6	20
Carbon disulfide	25.0	26.6		ug/L		106	70 - 130	10	20
Carbon tetrachloride	25.0	27.0		ug/L		108	70 - 130	6	20
Chlorobenzene	25.0	25.6		ug/L		102	70 - 130	0	20
Chlorobromomethane	25.0	26.4		ug/L		106	70 - 130	5	20
Chlorodibromomethane	25.0	27.3		ug/L		109	70 - 130	2	20
Chloroethane	25.0	26.5		ug/L		106	70 - 130	7	20
Chloroform	25.0	25.4		ug/L		102	70 - 130	5	20
Chloromethane	25.0	25.3		ug/L		101	70 - 130	7	20
cis-1,2-Dichloroethene	25.0	25.6		ug/L		102	70 - 130	3	20
cis-1,3-Dichloropropene	25.0	27.7		ug/L		111	70 - 130	1	20
Dichlorobromomethane	25.0	26.7		ug/L		107	70 - 130	3	20
Dichlorodifluoromethane	50.0	65.1		ug/L		130	70 - 130	9	20
Ethyl ether	25.0	26.3		ug/L		105	70 - 130	2	20
Ethylbenzene	25.0	25.7		ug/L		103	70 - 130	1	20
Ethylene Dibromide	25.0	25.8		ug/L		103	70 - 130	3	20
Hexachlorobutadiene	25.0	25.9		ug/L		103	70 - 130	5	20
Isopropyl ether	25.0	25.5		ug/L		102	70 - 130	5	20
Isopropylbenzene	25.0	24.7		ug/L		99	70 - 130	5	20
Methyl tert-butyl ether	25.0	28.3		ug/L		113	70 - 130	2	20
Methylene Chloride	25.0	25.1		ug/L		101	70 - 130	7	20
m-Xylene & p-Xylene	50.0	51.2		ug/L		102	70 - 130	2	20
Naphthalene	25.0	25.9		ug/L		104	70 - 130	3	20
n-Butylbenzene	25.0	25.0		ug/L		100	70 - 130	4	20
N-Propylbenzene	25.0	25.2		ug/L		101	70 - 130	5	20
o-Xylene	25.0	26.1		ug/L		104	70 - 130	0	20
sec-Butylbenzene	25.0	24.6		ug/L		98	70 - 130	6	20
Styrene	25.0	25.6		ug/L		102	70 - 130	0	20
Tert-amyl methyl ether	25.0	26.2		ug/L		105	70 - 130	2	20
Tert-butyl ethyl ether	25.0	24.7		ug/L		99	70 - 130	3	20
tert-Butylbenzene	25.0	24.8		ug/L		99	70 - 130	4	20
Tetrachloroethene	25.0	27.7		ug/L		111	70 - 130	1	20
Tetrahydrofuran	125	133		ug/L		106	70 - 130	2	20
Toluene	25.0	25.4		ug/L		101	70 - 130	1	20
trans-1,2-Dichloroethene	25.0	25.6		ug/L		102	70 - 130	7	20
trans-1,3-Dichloropropene	25.0	27.5		ug/L		110	70 - 130	2	20
Trichloroethene	25.0	26.4		ug/L		106	70 - 130	5	20
Trichlorofluoromethane	25.0	27.5		ug/L		110	70 - 130	8	20
Vinyl chloride	25.0	27.3		ug/L		109	70 - 130	6	20
Dibromomethane	25.0	26.0		ug/L		104	70 - 130	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*97*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*97*		*70 - 130*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-143864/7
Matrix: Water
Analysis Batch: 143864

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			10/10/13 00:45	1
1,1,1-Trichloroethane	ND		1.0		ug/L			10/10/13 00:45	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			10/10/13 00:45	1
1,1,2-Trichloroethane	ND		1.0		ug/L			10/10/13 00:45	1
1,1-Dichloroethane	ND		1.0		ug/L			10/10/13 00:45	1
1,1-Dichloroethene	ND		1.0		ug/L			10/10/13 00:45	1
1,1-Dichloropropene	ND		1.0		ug/L			10/10/13 00:45	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			10/10/13 00:45	1
1,2,3-Trichloropropane	ND		1.0		ug/L			10/10/13 00:45	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			10/10/13 00:45	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			10/10/13 00:45	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			10/10/13 00:45	1
1,2-Dichlorobenzene	ND		1.0		ug/L			10/10/13 00:45	1
1,2-Dichloroethane	ND		1.0		ug/L			10/10/13 00:45	1
1,2-Dichloropropane	ND		1.0		ug/L			10/10/13 00:45	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			10/10/13 00:45	1
1,3-Dichlorobenzene	ND		1.0		ug/L			10/10/13 00:45	1
1,3-Dichloropropane	ND		1.0		ug/L			10/10/13 00:45	1
1,4-Dichlorobenzene	ND		1.0		ug/L			10/10/13 00:45	1
1,4-Dioxane	ND		50		ug/L			10/10/13 00:45	1
2,2-Dichloropropane	ND		1.0		ug/L			10/10/13 00:45	1
2-Butanone (MEK)	ND		10		ug/L			10/10/13 00:45	1
2-Chlorotoluene	ND		1.0		ug/L			10/10/13 00:45	1
2-Hexanone	ND		10		ug/L			10/10/13 00:45	1
4-Chlorotoluene	ND		1.0		ug/L			10/10/13 00:45	1
4-Isopropyltoluene	ND		1.0		ug/L			10/10/13 00:45	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			10/10/13 00:45	1
Acetone	ND		50		ug/L			10/10/13 00:45	1
Benzene	ND		1.0		ug/L			10/10/13 00:45	1
Bromobenzene	ND		1.0		ug/L			10/10/13 00:45	1
Bromoform	ND		1.0		ug/L			10/10/13 00:45	1
Bromomethane	ND		2.0		ug/L			10/10/13 00:45	1
Carbon disulfide	ND		10		ug/L			10/10/13 00:45	1
Carbon tetrachloride	ND		1.0		ug/L			10/10/13 00:45	1
Chlorobenzene	ND		1.0		ug/L			10/10/13 00:45	1
Chlorobromomethane	ND		1.0		ug/L			10/10/13 00:45	1
Chlorodibromomethane	ND		0.50		ug/L			10/10/13 00:45	1
Chloroethane	ND		2.0		ug/L			10/10/13 00:45	1
Chloroform	ND		1.0		ug/L			10/10/13 00:45	1
Chloromethane	ND		2.0		ug/L			10/10/13 00:45	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			10/10/13 00:45	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			10/10/13 00:45	1
Dichlorobromomethane	ND		0.50		ug/L			10/10/13 00:45	1
Dichlorodifluoromethane	ND		1.0		ug/L			10/10/13 00:45	1
Ethyl ether	ND		1.0		ug/L			10/10/13 00:45	1
Ethylbenzene	ND		1.0		ug/L			10/10/13 00:45	1
Ethylene Dibromide	ND		1.0		ug/L			10/10/13 00:45	1
Hexachlorobutadiene	ND		0.40		ug/L			10/10/13 00:45	1

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-143864/7
Matrix: Water
Analysis Batch: 143864

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropyl ether	ND		10		ug/L			10/10/13 00:45	1
Isopropylbenzene	ND		1.0		ug/L			10/10/13 00:45	1
Methyl tert-butyl ether	ND		1.0		ug/L			10/10/13 00:45	1
Methylene Chloride	ND		1.0		ug/L			10/10/13 00:45	1
m-Xylene & p-Xylene	ND		2.0		ug/L			10/10/13 00:45	1
Naphthalene	ND		5.0		ug/L			10/10/13 00:45	1
n-Butylbenzene	ND		1.0		ug/L			10/10/13 00:45	1
N-Propylbenzene	ND		1.0		ug/L			10/10/13 00:45	1
o-Xylene	ND		1.0		ug/L			10/10/13 00:45	1
sec-Butylbenzene	ND		1.0		ug/L			10/10/13 00:45	1
Styrene	ND		1.0		ug/L			10/10/13 00:45	1
Tert-amyl methyl ether	ND		5.0		ug/L			10/10/13 00:45	1
Tert-butyl ethyl ether	ND		5.0		ug/L			10/10/13 00:45	1
tert-Butylbenzene	ND		1.0		ug/L			10/10/13 00:45	1
Tetrachloroethene	ND		1.0		ug/L			10/10/13 00:45	1
Tetrahydrofuran	ND		10		ug/L			10/10/13 00:45	1
Toluene	ND		1.0		ug/L			10/10/13 00:45	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			10/10/13 00:45	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			10/10/13 00:45	1
Trichloroethene	ND		1.0		ug/L			10/10/13 00:45	1
Trichlorofluoromethane	ND		1.0		ug/L			10/10/13 00:45	1
Vinyl chloride	ND		1.0		ug/L			10/10/13 00:45	1
Dibromomethane	ND		1.0		ug/L			10/10/13 00:45	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*97*		*70 - 130*		*10/10/13 00:45*	*1*
1,2-Dichloroethane-d4 (Surr)	*95*		*70 - 130*		*10/10/13 00:45*	*1*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*		*10/10/13 00:45*	*1*

Lab Sample ID: LCS 480-143864/4
Matrix: Water
Analysis Batch: 143864

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	25.0	25.4		ug/L		102	70 - 130
1,1,1-Trichloroethane	25.0	25.4		ug/L		102	70 - 130
1,1,2,2-Tetrachloroethane	25.0	23.8		ug/L		95	70 - 130
1,1,2-Trichloroethane	25.0	24.7		ug/L		99	70 - 130
1,1-Dichloroethane	25.0	25.4		ug/L		102	70 - 130
1,1-Dichloroethene	25.0	25.6		ug/L		102	70 - 130
1,1-Dichloropropene	25.0	25.9		ug/L		104	70 - 130
1,2,3-Trichlorobenzene	25.0	24.2		ug/L		97	70 - 130
1,2,3-Trichloropropane	25.0	24.4		ug/L		97	70 - 130
1,2,4-Trichlorobenzene	25.0	23.7		ug/L		95	70 - 130
1,2,4-Trimethylbenzene	25.0	23.3		ug/L		93	70 - 130
1,2-Dibromo-3-Chloropropane	25.0	21.6		ug/L		86	70 - 130
1,2-Dichlorobenzene	25.0	23.5		ug/L		94	70 - 130
1,2-Dichloroethane	25.0	24.3		ug/L		97	70 - 130

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-143864/4
Matrix: Water
Analysis Batch: 143864

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichloropropane	25.0	24.9		ug/L		100	70 - 130
1,3,5-Trimethylbenzene	25.0	23.4		ug/L		94	70 - 130
1,3-Dichlorobenzene	25.0	23.4		ug/L		94	70 - 130
1,3-Dichloropropane	25.0	24.5		ug/L		98	70 - 130
1,4-Dichlorobenzene	25.0	23.4		ug/L		94	70 - 130
1,4-Dioxane	1000	1210		ug/L		121	70 - 130
2,2-Dichloropropane	25.0	24.8		ug/L		99	70 - 130
2-Butanone (MEK)	125	178	*	ug/L		143	70 - 130
2-Chlorotoluene	25.0	28.4		ug/L		114	70 - 130
2-Hexanone	125	126		ug/L		101	70 - 130
4-Chlorotoluene	25.0	26.1		ug/L		105	70 - 130
4-Isopropyltoluene	25.0	23.7		ug/L		95	70 - 130
4-Methyl-2-pentanone (MIBK)	125	122		ug/L		97	70 - 130
Acetone	125	134		ug/L		107	70 - 130
Benzene	25.0	25.1		ug/L		101	70 - 130
Bromobenzene	25.0	23.7		ug/L		95	70 - 130
Bromoform	25.0	27.2		ug/L		109	70 - 130
Bromomethane	25.0	25.7		ug/L		103	70 - 130
Carbon disulfide	25.0	24.4		ug/L		98	70 - 130
Carbon tetrachloride	25.0	25.9		ug/L		103	70 - 130
Chlorobenzene	25.0	24.5		ug/L		98	70 - 130
Chlorobromomethane	25.0	25.9		ug/L		104	70 - 130
Chlorodibromomethane	25.0	26.0		ug/L		104	70 - 130
Chloroethane	25.0	26.2		ug/L		105	70 - 130
Chloroform	25.0	24.8		ug/L		99	70 - 130
Chloromethane	25.0	24.5		ug/L		98	70 - 130
cis-1,2-Dichloroethene	25.0	24.9		ug/L		100	70 - 130
cis-1,3-Dichloropropene	25.0	26.5		ug/L		106	70 - 130
Dichlorobromomethane	25.0	25.4		ug/L		102	70 - 130
Dichlorodifluoromethane	50.0	58.0		ug/L		116	70 - 130
Ethyl ether	25.0	26.0		ug/L		104	70 - 130
Ethylbenzene	25.0	24.4		ug/L		97	70 - 130
Ethylene Dibromide	25.0	24.6		ug/L		99	70 - 130
Hexachlorobutadiene	25.0	24.6		ug/L		99	70 - 130
Isopropyl ether	25.0	25.5		ug/L		102	70 - 130
Isopropylbenzene	25.0	23.5		ug/L		94	70 - 130
Methyl tert-butyl ether	25.0	25.7		ug/L		103	70 - 130
Methylene Chloride	25.0	25.0		ug/L		100	70 - 130
m-Xylene & p-Xylene	50.0	48.9		ug/L		98	70 - 130
Naphthalene	25.0	23.5		ug/L		94	70 - 130
n-Butylbenzene	25.0	23.4		ug/L		94	70 - 130
N-Propylbenzene	25.0	23.6		ug/L		95	70 - 130
o-Xylene	25.0	24.6		ug/L		98	70 - 130
sec-Butylbenzene	25.0	23.6		ug/L		95	70 - 130
Styrene	25.0	24.6		ug/L		98	70 - 130
Tert-amyl methyl ether	25.0	25.4		ug/L		101	70 - 130
Tert-butyl ethyl ether	25.0	24.6		ug/L		98	70 - 130
tert-Butylbenzene	25.0	23.4		ug/L		94	70 - 130

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-143864/4
Matrix: Water
Analysis Batch: 143864

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Tetrachloroethene	25.0	28.0		ug/L		112	70 - 130
Tetrahydrofuran	125	122		ug/L		98	70 - 130
Toluene	25.0	24.3		ug/L		97	70 - 130
trans-1,2-Dichloroethene	25.0	25.2		ug/L		101	70 - 130
trans-1,3-Dichloropropene	25.0	25.4		ug/L		101	70 - 130
Trichloroethene	25.0	25.5		ug/L		102	70 - 130
Trichlorofluoromethane	25.0	26.7		ug/L		107	70 - 130
Vinyl chloride	25.0	26.6		ug/L		106	70 - 130
Dibromomethane	25.0	25.3		ug/L		101	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*94*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 130*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*

Lab Sample ID: LCSD 480-143864/5
Matrix: Water
Analysis Batch: 143864

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	25.0	25.2		ug/L		101	70 - 130	1	20
1,1,1-Trichloroethane	25.0	25.2		ug/L		101	70 - 130	1	20
1,1,2,2-Tetrachloroethane	25.0	24.2		ug/L		97	70 - 130	1	20
1,1,2-Trichloroethane	25.0	25.0		ug/L		100	70 - 130	1	20
1,1-Dichloroethane	25.0	25.0		ug/L		100	70 - 130	1	20
1,1-Dichloroethene	25.0	25.4		ug/L		102	70 - 130	1	20
1,1-Dichloropropene	25.0	25.8		ug/L		103	70 - 130	0	20
1,2,3-Trichlorobenzene	25.0	24.9		ug/L		100	70 - 130	3	20
1,2,3-Trichloropropane	25.0	24.0		ug/L		96	70 - 130	2	20
1,2,4-Trichlorobenzene	25.0	24.2		ug/L		97	70 - 130	2	20
1,2,4-Trimethylbenzene	25.0	23.9		ug/L		96	70 - 130	2	20
1,2-Dibromo-3-Chloropropane	25.0	22.0		ug/L		88	70 - 130	2	20
1,2-Dichlorobenzene	25.0	24.0		ug/L		96	70 - 130	2	20
1,2-Dichloroethane	25.0	24.7		ug/L		99	70 - 130	2	20
1,2-Dichloropropane	25.0	25.3		ug/L		101	70 - 130	1	20
1,3,5-Trimethylbenzene	25.0	23.8		ug/L		95	70 - 130	2	20
1,3-Dichlorobenzene	25.0	24.0		ug/L		96	70 - 130	2	20
1,3-Dichloropropane	25.0	24.8		ug/L		99	70 - 130	1	20
1,4-Dichlorobenzene	25.0	24.1		ug/L		96	70 - 130	3	20
1,4-Dioxane	1000	1310	*	ug/L		131	70 - 130	8	20
2,2-Dichloropropane	25.0	24.6		ug/L		99	70 - 130	1	20
2-Butanone (MEK)	125	178	*	ug/L		142	70 - 130	0	20
2-Chlorotoluene	25.0	28.6		ug/L		115	70 - 130	1	20
2-Hexanone	125	126		ug/L		101	70 - 130	0	20
4-Chlorotoluene	25.0	25.9		ug/L		104	70 - 130	1	20
4-Isopropyltoluene	25.0	23.6		ug/L		94	70 - 130	0	20
4-Methyl-2-pentanone (MIBK)	125	123		ug/L		98	70 - 130	1	20
Acetone	125	136		ug/L		109	70 - 130	2	20

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 480-143864/5
Matrix: Water
Analysis Batch: 143864

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	25.0	24.8		ug/L		99	70 - 130	1	20
Bromobenzene	25.0	24.1		ug/L		97	70 - 130	2	20
Bromoform	25.0	27.4		ug/L		110	70 - 130	0	20
Bromomethane	25.0	24.8		ug/L		99	70 - 130	4	20
Carbon disulfide	25.0	24.4		ug/L		98	70 - 130	0	20
Carbon tetrachloride	25.0	25.5		ug/L		102	70 - 130	1	20
Chlorobenzene	25.0	24.6		ug/L		98	70 - 130	0	20
Chlorobromomethane	25.0	25.9		ug/L		104	70 - 130	0	20
Chlorodibromomethane	25.0	26.5		ug/L		106	70 - 130	2	20
Chloroethane	25.0	25.4		ug/L		102	70 - 130	3	20
Chloroform	25.0	24.8		ug/L		99	70 - 130	0	20
Chloromethane	25.0	23.9		ug/L		96	70 - 130	2	20
cis-1,2-Dichloroethene	25.0	24.8		ug/L		99	70 - 130	1	20
cis-1,3-Dichloropropene	25.0	27.0		ug/L		108	70 - 130	2	20
Dichlorobromomethane	25.0	25.5		ug/L		102	70 - 130	0	20
Dichlorodifluoromethane	50.0	55.7		ug/L		111	70 - 130	4	20
Ethyl ether	25.0	25.9		ug/L		104	70 - 130	0	20
Ethylbenzene	25.0	24.4		ug/L		98	70 - 130	0	20
Ethylene Dibromide	25.0	24.8		ug/L		99	70 - 130	1	20
Hexachlorobutadiene	25.0	25.1		ug/L		101	70 - 130	2	20
Isopropyl ether	25.0	25.4		ug/L		102	70 - 130	0	20
Isopropylbenzene	25.0	23.5		ug/L		94	70 - 130	0	20
Methyl tert-butyl ether	25.0	25.4		ug/L		101	70 - 130	1	20
Methylene Chloride	25.0	25.1		ug/L		100	70 - 130	0	20
m-Xylene & p-Xylene	50.0	49.7		ug/L		99	70 - 130	2	20
Naphthalene	25.0	24.4		ug/L		98	70 - 130	4	20
n-Butylbenzene	25.0	23.6		ug/L		94	70 - 130	1	20
N-Propylbenzene	25.0	23.9		ug/L		96	70 - 130	1	20
o-Xylene	25.0	24.9		ug/L		100	70 - 130	1	20
sec-Butylbenzene	25.0	23.7		ug/L		95	70 - 130	0	20
Styrene	25.0	24.9		ug/L		100	70 - 130	1	20
Tert-amyl methyl ether	25.0	25.7		ug/L		103	70 - 130	1	20
Tert-butyl ethyl ether	25.0	24.2		ug/L		97	70 - 130	2	20
tert-Butylbenzene	25.0	24.1		ug/L		96	70 - 130	3	20
Tetrachloroethene	25.0	28.5		ug/L		114	70 - 130	2	20
Tetrahydrofuran	125	122		ug/L		98	70 - 130	0	20
Toluene	25.0	24.1		ug/L		96	70 - 130	1	20
trans-1,2-Dichloroethene	25.0	25.0		ug/L		100	70 - 130	1	20
trans-1,3-Dichloropropene	25.0	25.7		ug/L		103	70 - 130	1	20
Trichloroethene	25.0	25.5		ug/L		102	70 - 130	0	20
Trichlorofluoromethane	25.0	26.1		ug/L		104	70 - 130	2	20
Vinyl chloride	25.0	26.1		ug/L		104	70 - 130	2	20
Dibromomethane	25.0	25.6		ug/L		102	70 - 130	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*94*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-143960/8
Matrix: Water
Analysis Batch: 143960

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			10/10/13 12:50	1
1,1,1-Trichloroethane	ND		1.0		ug/L			10/10/13 12:50	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			10/10/13 12:50	1
1,1,2-Trichloroethane	ND		1.0		ug/L			10/10/13 12:50	1
1,1-Dichloroethane	ND		1.0		ug/L			10/10/13 12:50	1
1,1-Dichloroethene	ND		1.0		ug/L			10/10/13 12:50	1
1,1-Dichloropropene	ND		1.0		ug/L			10/10/13 12:50	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			10/10/13 12:50	1
1,2,3-Trichloropropane	ND		1.0		ug/L			10/10/13 12:50	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			10/10/13 12:50	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			10/10/13 12:50	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			10/10/13 12:50	1
1,2-Dichlorobenzene	ND		1.0		ug/L			10/10/13 12:50	1
1,2-Dichloroethane	ND		1.0		ug/L			10/10/13 12:50	1
1,2-Dichloropropane	ND		1.0		ug/L			10/10/13 12:50	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			10/10/13 12:50	1
1,3-Dichlorobenzene	ND		1.0		ug/L			10/10/13 12:50	1
1,3-Dichloropropane	ND		1.0		ug/L			10/10/13 12:50	1
1,4-Dichlorobenzene	ND		1.0		ug/L			10/10/13 12:50	1
1,4-Dioxane	ND		50		ug/L			10/10/13 12:50	1
2,2-Dichloropropane	ND		1.0		ug/L			10/10/13 12:50	1
2-Butanone (MEK)	ND		10		ug/L			10/10/13 12:50	1
2-Chlorotoluene	ND		1.0		ug/L			10/10/13 12:50	1
2-Hexanone	ND		10		ug/L			10/10/13 12:50	1
4-Chlorotoluene	ND		1.0		ug/L			10/10/13 12:50	1
4-Isopropyltoluene	ND		1.0		ug/L			10/10/13 12:50	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			10/10/13 12:50	1
Acetone	ND		50		ug/L			10/10/13 12:50	1
Benzene	ND		1.0		ug/L			10/10/13 12:50	1
Bromobenzene	ND		1.0		ug/L			10/10/13 12:50	1
Bromoform	ND		1.0		ug/L			10/10/13 12:50	1
Bromomethane	ND		2.0		ug/L			10/10/13 12:50	1
Carbon disulfide	ND		10		ug/L			10/10/13 12:50	1
Carbon tetrachloride	ND		1.0		ug/L			10/10/13 12:50	1
Chlorobenzene	ND		1.0		ug/L			10/10/13 12:50	1
Chlorobromomethane	ND		1.0		ug/L			10/10/13 12:50	1
Chlorodibromomethane	ND		0.50		ug/L			10/10/13 12:50	1
Chloroethane	ND		2.0		ug/L			10/10/13 12:50	1
Chloroform	ND		1.0		ug/L			10/10/13 12:50	1
Chloromethane	ND		2.0		ug/L			10/10/13 12:50	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			10/10/13 12:50	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			10/10/13 12:50	1
Dichlorobromomethane	ND		0.50		ug/L			10/10/13 12:50	1
Dichlorodifluoromethane	ND		1.0		ug/L			10/10/13 12:50	1
Ethyl ether	ND		1.0		ug/L			10/10/13 12:50	1
Ethylbenzene	ND		1.0		ug/L			10/10/13 12:50	1
Ethylene Dibromide	ND		1.0		ug/L			10/10/13 12:50	1
Hexachlorobutadiene	ND		0.40		ug/L			10/10/13 12:50	1

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-143960/8
Matrix: Water
Analysis Batch: 143960

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropyl ether	ND		10		ug/L			10/10/13 12:50	1
Isopropylbenzene	ND		1.0		ug/L			10/10/13 12:50	1
Methyl tert-butyl ether	ND		1.0		ug/L			10/10/13 12:50	1
Methylene Chloride	ND		1.0		ug/L			10/10/13 12:50	1
m-Xylene & p-Xylene	ND		2.0		ug/L			10/10/13 12:50	1
Naphthalene	ND		5.0		ug/L			10/10/13 12:50	1
n-Butylbenzene	ND		1.0		ug/L			10/10/13 12:50	1
N-Propylbenzene	ND		1.0		ug/L			10/10/13 12:50	1
o-Xylene	ND		1.0		ug/L			10/10/13 12:50	1
sec-Butylbenzene	ND		1.0		ug/L			10/10/13 12:50	1
Styrene	ND		1.0		ug/L			10/10/13 12:50	1
Tert-amyl methyl ether	ND		5.0		ug/L			10/10/13 12:50	1
Tert-butyl ethyl ether	ND		5.0		ug/L			10/10/13 12:50	1
tert-Butylbenzene	ND		1.0		ug/L			10/10/13 12:50	1
Tetrachloroethene	ND		1.0		ug/L			10/10/13 12:50	1
Tetrahydrofuran	ND		10		ug/L			10/10/13 12:50	1
Toluene	ND		1.0		ug/L			10/10/13 12:50	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			10/10/13 12:50	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			10/10/13 12:50	1
Trichloroethene	ND		1.0		ug/L			10/10/13 12:50	1
Trichlorofluoromethane	ND		1.0		ug/L			10/10/13 12:50	1
Vinyl chloride	ND		1.0		ug/L			10/10/13 12:50	1
Dibromomethane	ND		1.0		ug/L			10/10/13 12:50	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*94*		*70 - 130*		*10/10/13 12:50*	*1*
1,2-Dichloroethane-d4 (Surr)	*96*		*70 - 130*		*10/10/13 12:50*	*1*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*		*10/10/13 12:50*	*1*

Lab Sample ID: LCS 480-143960/5
Matrix: Water
Analysis Batch: 143960

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	25.0	26.0		ug/L		104	70 - 130
1,1,1-Trichloroethane	25.0	26.6		ug/L		106	70 - 130
1,1,2,2-Tetrachloroethane	25.0	24.0		ug/L		96	70 - 130
1,1,2-Trichloroethane	25.0	24.9		ug/L		100	70 - 130
1,1-Dichloroethane	25.0	26.6		ug/L		106	70 - 130
1,1-Dichloroethene	25.0	26.6		ug/L		107	70 - 130
1,1-Dichloropropene	25.0	26.8		ug/L		107	70 - 130
1,2,3-Trichlorobenzene	25.0	24.3		ug/L		97	70 - 130
1,2,3-Trichloropropane	25.0	23.7		ug/L		95	70 - 130
1,2,4-Trichlorobenzene	25.0	24.5		ug/L		98	70 - 130
1,2,4-Trimethylbenzene	25.0	24.5		ug/L		98	70 - 130
1,2-Dibromo-3-Chloropropane	25.0	21.9		ug/L		88	70 - 130
1,2-Dichlorobenzene	25.0	24.3		ug/L		97	70 - 130
1,2-Dichloroethane	25.0	24.8		ug/L		99	70 - 130

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-143960/5
Matrix: Water
Analysis Batch: 143960

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichloropropane	25.0	25.9		ug/L		104	70 - 130
1,3,5-Trimethylbenzene	25.0	24.4		ug/L		98	70 - 130
1,3-Dichlorobenzene	25.0	24.4		ug/L		98	70 - 130
1,3-Dichloropropane	25.0	24.8		ug/L		99	70 - 130
1,4-Dichlorobenzene	25.0	24.3		ug/L		97	70 - 130
1,4-Dioxane	1000	1260		ug/L		126	70 - 130
2,2-Dichloropropane	25.0	27.2		ug/L		109	70 - 130
2-Butanone (MEK)	125	186	*	ug/L		149	70 - 130
2-Chlorotoluene	25.0	30.0		ug/L		120	70 - 130
2-Hexanone	125	130		ug/L		104	70 - 130
4-Chlorotoluene	25.0	26.7		ug/L		107	70 - 130
4-Isopropyltoluene	25.0	24.8		ug/L		99	70 - 130
4-Methyl-2-pentanone (MIBK)	125	128		ug/L		102	70 - 130
Acetone	125	143		ug/L		115	70 - 130
Benzene	25.0	26.2		ug/L		105	70 - 130
Bromobenzene	25.0	24.7		ug/L		99	70 - 130
Bromoform	25.0	27.6		ug/L		111	70 - 130
Bromomethane	25.0	26.3		ug/L		105	70 - 130
Carbon disulfide	25.0	27.6		ug/L		110	70 - 130
Carbon tetrachloride	25.0	27.5		ug/L		110	70 - 130
Chlorobenzene	25.0	25.4		ug/L		102	70 - 130
Chlorobromomethane	25.0	26.9		ug/L		107	70 - 130
Chlorodibromomethane	25.0	26.5		ug/L		106	70 - 130
Chloroethane	25.0	27.3		ug/L		109	70 - 130
Chloroform	25.0	25.7		ug/L		103	70 - 130
Chloromethane	25.0	25.2		ug/L		101	70 - 130
cis-1,2-Dichloroethene	25.0	25.6		ug/L		102	70 - 130
cis-1,3-Dichloropropene	25.0	27.7		ug/L		111	70 - 130
Dichlorobromomethane	25.0	26.3		ug/L		105	70 - 130
Dichlorodifluoromethane	50.0	58.1		ug/L		116	70 - 130
Ethyl ether	25.0	25.5		ug/L		102	70 - 130
Ethylbenzene	25.0	25.2		ug/L		101	70 - 130
Ethylene Dibromide	25.0	24.6		ug/L		98	70 - 130
Hexachlorobutadiene	25.0	25.8		ug/L		103	70 - 130
Isopropyl ether	25.0	25.2		ug/L		101	70 - 130
Isopropylbenzene	25.0	24.5		ug/L		98	70 - 130
Methyl tert-butyl ether	25.0	27.5		ug/L		110	70 - 130
Methylene Chloride	25.0	26.0		ug/L		104	70 - 130
m-Xylene & p-Xylene	50.0	50.8		ug/L		102	70 - 130
Naphthalene	25.0	23.3		ug/L		93	70 - 130
n-Butylbenzene	25.0	24.8		ug/L		99	70 - 130
N-Propylbenzene	25.0	24.9		ug/L		99	70 - 130
o-Xylene	25.0	25.2		ug/L		101	70 - 130
sec-Butylbenzene	25.0	24.5		ug/L		98	70 - 130
Styrene	25.0	25.0		ug/L		100	70 - 130
Tert-amyl methyl ether	25.0	25.5		ug/L		102	70 - 130
Tert-butyl ethyl ether	25.0	24.2		ug/L		97	70 - 130
tert-Butylbenzene	25.0	24.6		ug/L		98	70 - 130

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-143960/5
Matrix: Water
Analysis Batch: 143960

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Tetrachloroethene	25.0	26.8		ug/L		107	70 - 130
Tetrahydrofuran	125	127		ug/L		102	70 - 130
Toluene	25.0	25.0		ug/L		100	70 - 130
trans-1,2-Dichloroethene	25.0	26.3		ug/L		105	70 - 130
trans-1,3-Dichloropropene	25.0	26.1		ug/L		105	70 - 130
Trichloroethene	25.0	26.7		ug/L		107	70 - 130
Trichlorofluoromethane	25.0	28.4		ug/L		114	70 - 130
Vinyl chloride	25.0	27.8		ug/L		111	70 - 130
Dibromomethane	25.0	25.8		ug/L		103	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*93*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 130*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*

Lab Sample ID: LCSD 480-143960/6
Matrix: Water
Analysis Batch: 143960

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	25.0	26.5		ug/L		106	70 - 130	2	20
1,1,1-Trichloroethane	25.0	27.5		ug/L		110	70 - 130	3	20
1,1,2,2-Tetrachloroethane	25.0	24.1		ug/L		97	70 - 130	1	20
1,1,2-Trichloroethane	25.0	25.0		ug/L		100	70 - 130	1	20
1,1-Dichloroethane	25.0	26.8		ug/L		107	70 - 130	1	20
1,1-Dichloroethene	25.0	28.0		ug/L		112	70 - 130	5	20
1,1-Dichloropropene	25.0	27.9		ug/L		112	70 - 130	4	20
1,2,3-Trichlorobenzene	25.0	25.3		ug/L		101	70 - 130	4	20
1,2,3-Trichloropropane	25.0	23.3		ug/L		93	70 - 130	2	20
1,2,4-Trichlorobenzene	25.0	25.3		ug/L		101	70 - 130	3	20
1,2,4-Trimethylbenzene	25.0	24.8		ug/L		99	70 - 130	1	20
1,2-Dibromo-3-Chloropropane	25.0	22.1		ug/L		88	70 - 130	1	20
1,2-Dichlorobenzene	25.0	24.5		ug/L		98	70 - 130	1	20
1,2-Dichloroethane	25.0	24.9		ug/L		100	70 - 130	0	20
1,2-Dichloropropane	25.0	26.4		ug/L		106	70 - 130	2	20
1,3,5-Trimethylbenzene	25.0	25.0		ug/L		100	70 - 130	2	20
1,3-Dichlorobenzene	25.0	24.8		ug/L		99	70 - 130	2	20
1,3-Dichloropropane	25.0	25.5		ug/L		102	70 - 130	3	20
1,4-Dichlorobenzene	25.0	24.5		ug/L		98	70 - 130	1	20
1,4-Dioxane	1000	1290		ug/L		129	70 - 130	2	20
2,2-Dichloropropane	25.0	27.6		ug/L		111	70 - 130	1	20
2-Butanone (MEK)	125	185	*	ug/L		148	70 - 130	1	20
2-Chlorotoluene	25.0	30.5		ug/L		122	70 - 130	2	20
2-Hexanone	125	131		ug/L		105	70 - 130	1	20
4-Chlorotoluene	25.0	27.5		ug/L		110	70 - 130	3	20
4-Isopropyltoluene	25.0	25.4		ug/L		102	70 - 130	2	20
4-Methyl-2-pentanone (MIBK)	125	128		ug/L		102	70 - 130	0	20
Acetone	125	144		ug/L		115	70 - 130	0	20

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 480-143960/6
Matrix: Water
Analysis Batch: 143960

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	25.0	26.7		ug/L		107	70 - 130	2	20
Bromobenzene	25.0	25.0		ug/L		100	70 - 130	2	20
Bromoform	25.0	27.9		ug/L		111	70 - 130	1	20
Bromomethane	25.0	26.7		ug/L		107	70 - 130	1	20
Carbon disulfide	25.0	28.8		ug/L		115	70 - 130	4	20
Carbon tetrachloride	25.0	28.6		ug/L		114	70 - 130	4	20
Chlorobenzene	25.0	25.9		ug/L		104	70 - 130	2	20
Chlorobromomethane	25.0	27.5		ug/L		110	70 - 130	2	20
Chlorodibromomethane	25.0	26.9		ug/L		107	70 - 130	1	20
Chloroethane	25.0	28.3		ug/L		113	70 - 130	4	20
Chloroform	25.0	26.2		ug/L		105	70 - 130	2	20
Chloromethane	25.0	26.0		ug/L		104	70 - 130	3	20
cis-1,2-Dichloroethene	25.0	26.4		ug/L		105	70 - 130	3	20
cis-1,3-Dichloropropene	25.0	28.0		ug/L		112	70 - 130	1	20
Dichlorobromomethane	25.0	27.0		ug/L		108	70 - 130	3	20
Dichlorodifluoromethane	50.0	61.1		ug/L		122	70 - 130	5	20
Ethyl ether	25.0	25.8		ug/L		103	70 - 130	1	20
Ethylbenzene	25.0	26.1		ug/L		105	70 - 130	4	20
Ethylene Dibromide	25.0	25.6		ug/L		103	70 - 130	4	20
Hexachlorobutadiene	25.0	27.1		ug/L		108	70 - 130	5	20
Isopropyl ether	25.0	25.8		ug/L		103	70 - 130	2	20
Isopropylbenzene	25.0	25.2		ug/L		101	70 - 130	3	20
Methyl tert-butyl ether	25.0	27.7		ug/L		111	70 - 130	1	20
Methylene Chloride	25.0	26.2		ug/L		105	70 - 130	1	20
m-Xylene & p-Xylene	50.0	53.0		ug/L		106	70 - 130	4	20
Naphthalene	25.0	24.6		ug/L		98	70 - 130	5	20
n-Butylbenzene	25.0	25.4		ug/L		102	70 - 130	2	20
N-Propylbenzene	25.0	25.7		ug/L		103	70 - 130	3	20
o-Xylene	25.0	26.3		ug/L		105	70 - 130	4	20
sec-Butylbenzene	25.0	25.2		ug/L		101	70 - 130	3	20
Styrene	25.0	26.1		ug/L		104	70 - 130	4	20
Tert-amyl methyl ether	25.0	26.0		ug/L		104	70 - 130	2	20
Tert-butyl ethyl ether	25.0	24.7		ug/L		99	70 - 130	2	20
tert-Butylbenzene	25.0	25.4		ug/L		102	70 - 130	3	20
Tetrachloroethene	25.0	28.3		ug/L		113	70 - 130	5	20
Tetrahydrofuran	125	130		ug/L		104	70 - 130	2	20
Toluene	25.0	26.0		ug/L		104	70 - 130	4	20
trans-1,2-Dichloroethene	25.0	27.5		ug/L		110	70 - 130	4	20
trans-1,3-Dichloropropene	25.0	26.8		ug/L		107	70 - 130	2	20
Trichloroethene	25.0	27.6		ug/L		110	70 - 130	3	20
Trichlorofluoromethane	25.0	29.8		ug/L		119	70 - 130	5	20
Vinyl chloride	25.0	29.4		ug/L		118	70 - 130	6	20
Dibromomethane	25.0	26.4		ug/L		106	70 - 130	2	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*93*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*97*		*70 - 130*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-144314/8
Matrix: Water
Analysis Batch: 144314

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			10/11/13 15:36	1
1,1,1-Trichloroethane	ND		1.0		ug/L			10/11/13 15:36	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			10/11/13 15:36	1
1,1,2-Trichloroethane	ND		1.0		ug/L			10/11/13 15:36	1
1,1-Dichloroethane	ND		1.0		ug/L			10/11/13 15:36	1
1,1-Dichloroethene	ND		1.0		ug/L			10/11/13 15:36	1
1,1-Dichloropropene	ND		1.0		ug/L			10/11/13 15:36	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			10/11/13 15:36	1
1,2,3-Trichloropropane	ND		1.0		ug/L			10/11/13 15:36	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			10/11/13 15:36	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			10/11/13 15:36	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			10/11/13 15:36	1
1,2-Dichlorobenzene	ND		1.0		ug/L			10/11/13 15:36	1
1,2-Dichloroethane	ND		1.0		ug/L			10/11/13 15:36	1
1,2-Dichloropropane	ND		1.0		ug/L			10/11/13 15:36	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			10/11/13 15:36	1
1,3-Dichlorobenzene	ND		1.0		ug/L			10/11/13 15:36	1
1,3-Dichloropropane	ND		1.0		ug/L			10/11/13 15:36	1
1,4-Dichlorobenzene	ND		1.0		ug/L			10/11/13 15:36	1
1,4-Dioxane	ND		50		ug/L			10/11/13 15:36	1
2,2-Dichloropropane	ND		1.0		ug/L			10/11/13 15:36	1
2-Butanone (MEK)	ND		10		ug/L			10/11/13 15:36	1
2-Chlorotoluene	ND		1.0		ug/L			10/11/13 15:36	1
2-Hexanone	ND		10		ug/L			10/11/13 15:36	1
4-Chlorotoluene	ND		1.0		ug/L			10/11/13 15:36	1
4-Isopropyltoluene	ND		1.0		ug/L			10/11/13 15:36	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			10/11/13 15:36	1
Acetone	ND		50		ug/L			10/11/13 15:36	1
Benzene	ND		1.0		ug/L			10/11/13 15:36	1
Bromobenzene	ND		1.0		ug/L			10/11/13 15:36	1
Bromoform	ND		1.0		ug/L			10/11/13 15:36	1
Bromomethane	ND		2.0		ug/L			10/11/13 15:36	1
Carbon disulfide	ND		10		ug/L			10/11/13 15:36	1
Carbon tetrachloride	ND		1.0		ug/L			10/11/13 15:36	1
Chlorobenzene	ND		1.0		ug/L			10/11/13 15:36	1
Chlorobromomethane	ND		1.0		ug/L			10/11/13 15:36	1
Chlorodibromomethane	ND		0.50		ug/L			10/11/13 15:36	1
Chloroethane	ND		2.0		ug/L			10/11/13 15:36	1
Chloroform	ND		1.0		ug/L			10/11/13 15:36	1
Chloromethane	ND		2.0		ug/L			10/11/13 15:36	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			10/11/13 15:36	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			10/11/13 15:36	1
Dichlorobromomethane	ND		0.50		ug/L			10/11/13 15:36	1
Dichlorodifluoromethane	ND		1.0		ug/L			10/11/13 15:36	1
Ethyl ether	ND		1.0		ug/L			10/11/13 15:36	1
Ethylbenzene	ND		1.0		ug/L			10/11/13 15:36	1
Ethylene Dibromide	ND		1.0		ug/L			10/11/13 15:36	1
Hexachlorobutadiene	ND		0.40		ug/L			10/11/13 15:36	1

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-144314/8
Matrix: Water
Analysis Batch: 144314

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropyl ether	ND		10		ug/L			10/11/13 15:36	1
Isopropylbenzene	ND		1.0		ug/L			10/11/13 15:36	1
Methyl tert-butyl ether	ND		1.0		ug/L			10/11/13 15:36	1
Methylene Chloride	ND		1.0		ug/L			10/11/13 15:36	1
m-Xylene & p-Xylene	ND		2.0		ug/L			10/11/13 15:36	1
Naphthalene	ND		5.0		ug/L			10/11/13 15:36	1
n-Butylbenzene	ND		1.0		ug/L			10/11/13 15:36	1
N-Propylbenzene	ND		1.0		ug/L			10/11/13 15:36	1
o-Xylene	ND		1.0		ug/L			10/11/13 15:36	1
sec-Butylbenzene	ND		1.0		ug/L			10/11/13 15:36	1
Styrene	ND		1.0		ug/L			10/11/13 15:36	1
Tert-amyl methyl ether	ND		5.0		ug/L			10/11/13 15:36	1
Tert-butyl ethyl ether	ND		5.0		ug/L			10/11/13 15:36	1
tert-Butylbenzene	ND		1.0		ug/L			10/11/13 15:36	1
Tetrachloroethene	ND		1.0		ug/L			10/11/13 15:36	1
Tetrahydrofuran	ND		10		ug/L			10/11/13 15:36	1
Toluene	ND		1.0		ug/L			10/11/13 15:36	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			10/11/13 15:36	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			10/11/13 15:36	1
Trichloroethene	ND		1.0		ug/L			10/11/13 15:36	1
Trichlorofluoromethane	ND		1.0		ug/L			10/11/13 15:36	1
Vinyl chloride	ND		1.0		ug/L			10/11/13 15:36	1
Dibromomethane	ND		1.0		ug/L			10/11/13 15:36	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*92*		*70 - 130*		*10/11/13 15:36*	*1*
1,2-Dichloroethane-d4 (Surr)	*93*		*70 - 130*		*10/11/13 15:36*	*1*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*		*10/11/13 15:36*	*1*

Lab Sample ID: LCS 480-144314/5
Matrix: Water
Analysis Batch: 144314

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	25.0	23.7		ug/L		95	70 - 130
1,1,1-Trichloroethane	25.0	26.3		ug/L		105	70 - 130
1,1,2,2-Tetrachloroethane	25.0	24.0		ug/L		96	70 - 130
1,1,2-Trichloroethane	25.0	23.8		ug/L		95	70 - 130
1,1-Dichloroethane	25.0	26.0		ug/L		104	70 - 130
1,1-Dichloroethene	25.0	26.9		ug/L		108	70 - 130
1,1-Dichloropropene	25.0	25.9		ug/L		104	70 - 130
1,2,3-Trichlorobenzene	25.0	23.4		ug/L		94	70 - 130
1,2,3-Trichloropropane	25.0	24.0		ug/L		96	70 - 130
1,2,4-Trichlorobenzene	25.0	23.6		ug/L		95	70 - 130
1,2,4-Trimethylbenzene	25.0	23.8		ug/L		95	70 - 130
1,2-Dibromo-3-Chloropropane	25.0	22.3		ug/L		89	70 - 130
1,2-Dichlorobenzene	25.0	23.3		ug/L		93	70 - 130
1,2-Dichloroethane	25.0	24.3		ug/L		97	70 - 130

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-144314/5
Matrix: Water
Analysis Batch: 144314

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichloropropane	25.0	25.7		ug/L		103	70 - 130
1,3,5-Trimethylbenzene	25.0	23.5		ug/L		94	70 - 130
1,3-Dichlorobenzene	25.0	23.6		ug/L		94	70 - 130
1,3-Dichloropropane	25.0	24.1		ug/L		96	70 - 130
1,4-Dichlorobenzene	25.0	23.3		ug/L		93	70 - 130
1,4-Dioxane	1000	1240		ug/L		124	70 - 130
2,2-Dichloropropane	25.0	26.8		ug/L		107	70 - 130
2-Butanone (MEK)	125	178	*	ug/L		142	70 - 130
2-Chlorotoluene	25.0	29.7		ug/L		119	70 - 130
2-Hexanone	125	121		ug/L		97	70 - 130
4-Chlorotoluene	25.0	26.9		ug/L		108	70 - 130
4-Isopropyltoluene	25.0	23.6		ug/L		94	70 - 130
4-Methyl-2-pentanone (MIBK)	125	115		ug/L		92	70 - 130
Acetone	125	131		ug/L		105	70 - 130
Benzene	25.0	25.3		ug/L		101	70 - 130
Bromobenzene	25.0	24.1		ug/L		97	70 - 130
Bromoform	25.0	26.9		ug/L		108	70 - 130
Bromomethane	25.0	25.1		ug/L		101	70 - 130
Carbon disulfide	25.0	23.7		ug/L		95	70 - 130
Carbon tetrachloride	25.0	27.2		ug/L		109	70 - 130
Chlorobenzene	25.0	24.4		ug/L		98	70 - 130
Chlorobromomethane	25.0	26.7		ug/L		107	70 - 130
Chlorodibromomethane	25.0	26.0		ug/L		104	70 - 130
Chloroethane	25.0	26.0		ug/L		104	70 - 130
Chloroform	25.0	25.4		ug/L		102	70 - 130
Chloromethane	25.0	23.2		ug/L		93	70 - 130
cis-1,2-Dichloroethene	25.0	24.8		ug/L		99	70 - 130
cis-1,3-Dichloropropene	25.0	28.3		ug/L		113	70 - 130
Dichlorobromomethane	25.0	26.0		ug/L		104	70 - 130
Dichlorodifluoromethane	50.0	49.3		ug/L		99	70 - 130
Ethyl ether	25.0	25.8		ug/L		103	70 - 130
Ethylbenzene	25.0	23.9		ug/L		96	70 - 130
Ethylene Dibromide	25.0	24.6		ug/L		98	70 - 130
Hexachlorobutadiene	25.0	24.1		ug/L		96	70 - 130
Isopropyl ether	25.0	25.7		ug/L		103	70 - 130
Isopropylbenzene	25.0	23.4		ug/L		94	70 - 130
Methyl tert-butyl ether	25.0	26.1		ug/L		104	70 - 130
Methylene Chloride	25.0	25.7		ug/L		103	70 - 130
m-Xylene & p-Xylene	50.0	49.0		ug/L		98	70 - 130
Naphthalene	25.0	23.2		ug/L		93	70 - 130
n-Butylbenzene	25.0	23.6		ug/L		94	70 - 130
N-Propylbenzene	25.0	24.2		ug/L		97	70 - 130
o-Xylene	25.0	24.0		ug/L		96	70 - 130
sec-Butylbenzene	25.0	23.6		ug/L		94	70 - 130
Styrene	25.0	24.4		ug/L		97	70 - 130
Tert-amyl methyl ether	25.0	29.1		ug/L		116	70 - 130
Tert-butyl ethyl ether	25.0	27.6		ug/L		110	70 - 130
tert-Butylbenzene	25.0	22.7		ug/L		91	70 - 130

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-144314/5
Matrix: Water
Analysis Batch: 144314

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Tetrachloroethene	25.0	25.6		ug/L		102	70 - 130
Tetrahydrofuran	125	122		ug/L		98	70 - 130
Toluene	25.0	23.6		ug/L		95	70 - 130
trans-1,2-Dichloroethene	25.0	25.8		ug/L		103	70 - 130
trans-1,3-Dichloropropene	25.0	25.8		ug/L		103	70 - 130
Trichloroethene	25.0	25.5		ug/L		102	70 - 130
Trichlorofluoromethane	25.0	27.4		ug/L		110	70 - 130
Vinyl chloride	25.0	26.1		ug/L		104	70 - 130
Dibromomethane	25.0	25.8		ug/L		103	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*92*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*97*		*70 - 130*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*

Lab Sample ID: LCSD 480-144314/6
Matrix: Water
Analysis Batch: 144314

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	25.0	24.1		ug/L		96	70 - 130	1	20
1,1,1-Trichloroethane	25.0	25.1		ug/L		100	70 - 130	5	20
1,1,2,2-Tetrachloroethane	25.0	22.9		ug/L		92	70 - 130	5	20
1,1,2-Trichloroethane	25.0	23.0		ug/L		92	70 - 130	3	20
1,1-Dichloroethane	25.0	24.7		ug/L		99	70 - 130	5	20
1,1-Dichloroethene	25.0	24.8		ug/L		99	70 - 130	8	20
1,1-Dichloropropene	25.0	25.2		ug/L		101	70 - 130	3	20
1,2,3-Trichlorobenzene	25.0	23.5		ug/L		94	70 - 130	1	20
1,2,3-Trichloropropane	25.0	22.9		ug/L		92	70 - 130	5	20
1,2,4-Trichlorobenzene	25.0	23.4		ug/L		94	70 - 130	1	20
1,2,4-Trimethylbenzene	25.0	22.8		ug/L		91	70 - 130	4	20
1,2-Dibromo-3-Chloropropane	25.0	21.7		ug/L		87	70 - 130	3	20
1,2-Dichlorobenzene	25.0	22.9		ug/L		92	70 - 130	2	20
1,2-Dichloroethane	25.0	23.8		ug/L		95	70 - 130	2	20
1,2-Dichloropropane	25.0	24.6		ug/L		98	70 - 130	5	20
1,3,5-Trimethylbenzene	25.0	22.5		ug/L		90	70 - 130	4	20
1,3-Dichlorobenzene	25.0	22.8		ug/L		91	70 - 130	4	20
1,3-Dichloropropane	25.0	23.6		ug/L		94	70 - 130	2	20
1,4-Dichlorobenzene	25.0	22.8		ug/L		91	70 - 130	2	20
1,4-Dioxane	1000	1200		ug/L		120	70 - 130	3	20
2,2-Dichloropropane	25.0	25.2		ug/L		101	70 - 130	6	20
2-Butanone (MEK)	125	174	*	ug/L		139	70 - 130	2	20
2-Chlorotoluene	25.0	28.0		ug/L		112	70 - 130	6	20
2-Hexanone	125	119		ug/L		95	70 - 130	2	20
4-Chlorotoluene	25.0	25.8		ug/L		103	70 - 130	4	20
4-Isopropyltoluene	25.0	22.8		ug/L		91	70 - 130	3	20
4-Methyl-2-pentanone (MIBK)	125	116		ug/L		92	70 - 130	0	20
Acetone	125	126		ug/L		101	70 - 130	4	20

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 480-144314/6
Matrix: Water
Analysis Batch: 144314

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	25.0	24.5		ug/L		98	70 - 130	3	20
Bromobenzene	25.0	23.2		ug/L		93	70 - 130	4	20
Bromoform	25.0	26.2		ug/L		105	70 - 130	3	20
Bromomethane	25.0	23.9		ug/L		96	70 - 130	5	20
Carbon disulfide	25.0	22.6		ug/L		90	70 - 130	5	20
Carbon tetrachloride	25.0	25.3		ug/L		101	70 - 130	7	20
Chlorobenzene	25.0	23.6		ug/L		94	70 - 130	3	20
Chlorobromomethane	25.0	25.9		ug/L		104	70 - 130	3	20
Chlorodibromomethane	25.0	25.2		ug/L		101	70 - 130	3	20
Chloroethane	25.0	24.4		ug/L		97	70 - 130	7	20
Chloroform	25.0	24.3		ug/L		97	70 - 130	5	20
Chloromethane	25.0	21.8		ug/L		87	70 - 130	6	20
cis-1,2-Dichloroethene	25.0	24.1		ug/L		96	70 - 130	3	20
cis-1,3-Dichloropropene	25.0	26.7		ug/L		107	70 - 130	6	20
Dichlorobromomethane	25.0	25.5		ug/L		102	70 - 130	2	20
Dichlorodifluoromethane	50.0	45.8		ug/L		92	70 - 130	7	20
Ethyl ether	25.0	24.8		ug/L		99	70 - 130	4	20
Ethylbenzene	25.0	23.1		ug/L		92	70 - 130	3	20
Ethylene Dibromide	25.0	23.7		ug/L		95	70 - 130	4	20
Hexachlorobutadiene	25.0	23.2		ug/L		93	70 - 130	4	20
Isopropyl ether	25.0	24.9		ug/L		100	70 - 130	3	20
Isopropylbenzene	25.0	22.4		ug/L		90	70 - 130	4	20
Methyl tert-butyl ether	25.0	25.5		ug/L		102	70 - 130	2	20
Methylene Chloride	25.0	24.4		ug/L		98	70 - 130	5	20
m-Xylene & p-Xylene	50.0	46.8		ug/L		94	70 - 130	5	20
Naphthalene	25.0	23.4		ug/L		94	70 - 130	1	20
n-Butylbenzene	25.0	22.4		ug/L		90	70 - 130	5	20
N-Propylbenzene	25.0	22.8		ug/L		91	70 - 130	6	20
o-Xylene	25.0	24.0		ug/L		96	70 - 130	0	20
sec-Butylbenzene	25.0	22.4		ug/L		90	70 - 130	5	20
Styrene	25.0	23.7		ug/L		95	70 - 130	3	20
Tert-amyl methyl ether	25.0	28.3		ug/L		113	70 - 130	3	20
Tert-butyl ethyl ether	25.0	26.9		ug/L		107	70 - 130	3	20
tert-Butylbenzene	25.0	21.9		ug/L		88	70 - 130	4	20
Tetrachloroethene	25.0	24.9		ug/L		100	70 - 130	2	20
Tetrahydrofuran	125	115		ug/L		92	70 - 130	6	20
Toluene	25.0	22.8		ug/L		91	70 - 130	4	20
trans-1,2-Dichloroethene	25.0	24.3		ug/L		97	70 - 130	6	20
trans-1,3-Dichloropropene	25.0	25.2		ug/L		101	70 - 130	2	20
Trichloroethene	25.0	25.3		ug/L		101	70 - 130	1	20
Trichlorofluoromethane	25.0	25.5		ug/L		102	70 - 130	7	20
Vinyl chloride	25.0	24.5		ug/L		98	70 - 130	6	20
Dibromomethane	25.0	24.5		ug/L		98	70 - 130	5	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*92*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*97*		*70 - 130*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-145302/7
Matrix: Water
Analysis Batch: 145302

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			10/16/13 12:46	1
1,1,1-Trichloroethane	ND		1.0		ug/L			10/16/13 12:46	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			10/16/13 12:46	1
1,1,2-Trichloroethane	ND		1.0		ug/L			10/16/13 12:46	1
1,1-Dichloroethane	ND		1.0		ug/L			10/16/13 12:46	1
1,1-Dichloroethene	ND		1.0		ug/L			10/16/13 12:46	1
1,1-Dichloropropene	ND		1.0		ug/L			10/16/13 12:46	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			10/16/13 12:46	1
1,2,3-Trichloropropane	ND		1.0		ug/L			10/16/13 12:46	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			10/16/13 12:46	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			10/16/13 12:46	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			10/16/13 12:46	1
1,2-Dichlorobenzene	ND		1.0		ug/L			10/16/13 12:46	1
1,2-Dichloroethane	ND		1.0		ug/L			10/16/13 12:46	1
1,2-Dichloropropane	ND		1.0		ug/L			10/16/13 12:46	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			10/16/13 12:46	1
1,3-Dichlorobenzene	ND		1.0		ug/L			10/16/13 12:46	1
1,3-Dichloropropane	ND		1.0		ug/L			10/16/13 12:46	1
1,4-Dichlorobenzene	ND		1.0		ug/L			10/16/13 12:46	1
1,4-Dioxane	ND		50		ug/L			10/16/13 12:46	1
2,2-Dichloropropane	ND		1.0		ug/L			10/16/13 12:46	1
2-Butanone (MEK)	ND		10		ug/L			10/16/13 12:46	1
2-Chlorotoluene	ND		1.0		ug/L			10/16/13 12:46	1
2-Hexanone	ND		10		ug/L			10/16/13 12:46	1
4-Chlorotoluene	ND		1.0		ug/L			10/16/13 12:46	1
4-Isopropyltoluene	ND		1.0		ug/L			10/16/13 12:46	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			10/16/13 12:46	1
Acetone	ND		50		ug/L			10/16/13 12:46	1
Benzene	ND		1.0		ug/L			10/16/13 12:46	1
Bromobenzene	ND		1.0		ug/L			10/16/13 12:46	1
Bromoform	ND		1.0		ug/L			10/16/13 12:46	1
Bromomethane	ND		2.0		ug/L			10/16/13 12:46	1
Carbon disulfide	ND		10		ug/L			10/16/13 12:46	1
Carbon tetrachloride	ND		1.0		ug/L			10/16/13 12:46	1
Chlorobenzene	ND		1.0		ug/L			10/16/13 12:46	1
Chlorobromomethane	ND		1.0		ug/L			10/16/13 12:46	1
Chlorodibromomethane	ND		0.50		ug/L			10/16/13 12:46	1
Chloroethane	ND		2.0		ug/L			10/16/13 12:46	1
Chloroform	ND		1.0		ug/L			10/16/13 12:46	1
Chloromethane	ND		2.0		ug/L			10/16/13 12:46	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			10/16/13 12:46	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			10/16/13 12:46	1
Dichlorobromomethane	ND		0.50		ug/L			10/16/13 12:46	1
Dichlorodifluoromethane	ND		1.0		ug/L			10/16/13 12:46	1
Ethyl ether	ND		1.0		ug/L			10/16/13 12:46	1
Ethylbenzene	ND		1.0		ug/L			10/16/13 12:46	1
Ethylene Dibromide	ND		1.0		ug/L			10/16/13 12:46	1
Hexachlorobutadiene	ND		0.40		ug/L			10/16/13 12:46	1

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-145302/7
Matrix: Water
Analysis Batch: 145302

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropyl ether	ND		10		ug/L			10/16/13 12:46	1
Isopropylbenzene	ND		1.0		ug/L			10/16/13 12:46	1
Methyl tert-butyl ether	ND		1.0		ug/L			10/16/13 12:46	1
Methylene Chloride	ND		1.0		ug/L			10/16/13 12:46	1
m-Xylene & p-Xylene	ND		2.0		ug/L			10/16/13 12:46	1
Naphthalene	ND		5.0		ug/L			10/16/13 12:46	1
n-Butylbenzene	ND		1.0		ug/L			10/16/13 12:46	1
N-Propylbenzene	ND		1.0		ug/L			10/16/13 12:46	1
o-Xylene	ND		1.0		ug/L			10/16/13 12:46	1
sec-Butylbenzene	ND		1.0		ug/L			10/16/13 12:46	1
Styrene	ND		1.0		ug/L			10/16/13 12:46	1
Tert-amyl methyl ether	ND		5.0		ug/L			10/16/13 12:46	1
Tert-butyl ethyl ether	ND		5.0		ug/L			10/16/13 12:46	1
tert-Butylbenzene	ND		1.0		ug/L			10/16/13 12:46	1
Tetrachloroethene	ND		1.0		ug/L			10/16/13 12:46	1
Tetrahydrofuran	ND		10		ug/L			10/16/13 12:46	1
Toluene	ND		1.0		ug/L			10/16/13 12:46	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			10/16/13 12:46	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			10/16/13 12:46	1
Trichloroethene	ND		1.0		ug/L			10/16/13 12:46	1
Trichlorofluoromethane	ND		1.0		ug/L			10/16/13 12:46	1
Vinyl chloride	ND		1.0		ug/L			10/16/13 12:46	1
Dibromomethane	ND		1.0		ug/L			10/16/13 12:46	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*100*		*70 - 130*		*10/16/13 12:46*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 130*		*10/16/13 12:46*	*1*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*		*10/16/13 12:46*	*1*

Lab Sample ID: LCS 480-145302/5
Matrix: Water
Analysis Batch: 145302

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	25.0	26.1		ug/L		105	70 - 130
1,1,1-Trichloroethane	25.0	25.2		ug/L		101	70 - 130
1,1,2,2-Tetrachloroethane	25.0	24.6		ug/L		98	70 - 130
1,1,2-Trichloroethane	25.0	24.6		ug/L		98	70 - 130
1,1-Dichloroethane	25.0	24.9		ug/L		100	70 - 130
1,1-Dichloroethene	25.0	22.6		ug/L		90	70 - 130
1,1-Dichloropropene	25.0	24.8		ug/L		99	70 - 130
1,2,3-Trichlorobenzene	25.0	26.4		ug/L		106	70 - 130
1,2,3-Trichloropropane	25.0	24.2		ug/L		97	70 - 130
1,2,4-Trichlorobenzene	25.0	25.9		ug/L		104	70 - 130
1,2,4-Trimethylbenzene	25.0	25.0		ug/L		100	70 - 130
1,2-Dibromo-3-Chloropropane	25.0	27.9		ug/L		112	70 - 130
1,2-Dichlorobenzene	25.0	24.4		ug/L		98	70 - 130
1,2-Dichloroethane	25.0	25.2		ug/L		101	70 - 130

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-145302/5
Matrix: Water
Analysis Batch: 145302

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichloropropane	25.0	24.7		ug/L		99	70 - 130
1,3,5-Trimethylbenzene	25.0	24.7		ug/L		99	70 - 130
1,3-Dichlorobenzene	25.0	24.8		ug/L		99	70 - 130
1,3-Dichloropropane	25.0	24.1		ug/L		96	70 - 130
1,4-Dichlorobenzene	25.0	25.2		ug/L		101	70 - 130
1,4-Dioxane	1000	1030		ug/L		103	70 - 130
2,2-Dichloropropane	25.0	24.6		ug/L		98	70 - 130
2-Butanone (MEK)	125	185	*	ug/L		148	70 - 130
2-Chlorotoluene	25.0	24.3		ug/L		97	70 - 130
2-Hexanone	125	134		ug/L		107	70 - 130
4-Chlorotoluene	25.0	24.6		ug/L		98	70 - 130
4-Isopropyltoluene	25.0	24.5		ug/L		98	70 - 130
4-Methyl-2-pentanone (MIBK)	125	132		ug/L		106	70 - 130
Acetone	125	132		ug/L		106	70 - 130
Benzene	25.0	25.0		ug/L		100	70 - 130
Bromobenzene	25.0	24.9		ug/L		100	70 - 130
Bromoform	25.0	26.1		ug/L		104	70 - 130
Bromomethane	25.0	26.3		ug/L		105	70 - 130
Carbon disulfide	25.0	28.1		ug/L		112	70 - 130
Carbon tetrachloride	25.0	25.5		ug/L		102	70 - 130
Chlorobenzene	25.0	24.8		ug/L		99	70 - 130
Chlorobromomethane	25.0	25.3		ug/L		101	70 - 130
Chlorodibromomethane	25.0	26.2		ug/L		105	70 - 130
Chloroethane	25.0	26.0		ug/L		104	70 - 130
Chloroform	25.0	24.9		ug/L		99	70 - 130
Chloromethane	25.0	24.7		ug/L		99	70 - 130
cis-1,2-Dichloroethene	25.0	24.8		ug/L		99	70 - 130
cis-1,3-Dichloropropene	25.0	26.4		ug/L		106	70 - 130
Dichlorobromomethane	25.0	25.8		ug/L		103	70 - 130
Dichlorodifluoromethane	50.0	57.4		ug/L		115	70 - 130
Ethyl ether	25.0	25.9		ug/L		103	70 - 130
Ethylbenzene	25.0	24.7		ug/L		99	70 - 130
Ethylene Dibromide	25.0	24.6		ug/L		98	70 - 130
Hexachlorobutadiene	25.0	25.8		ug/L		103	70 - 130
Isopropyl ether	25.0	26.6		ug/L		107	70 - 130
Isopropylbenzene	25.0	24.4		ug/L		97	70 - 130
Methyl tert-butyl ether	25.0	26.9		ug/L		107	70 - 130
Methylene Chloride	25.0	25.8		ug/L		103	70 - 130
m-Xylene & p-Xylene	50.0	50.1		ug/L		100	70 - 130
Naphthalene	25.0	26.0		ug/L		104	70 - 130
n-Butylbenzene	25.0	25.3		ug/L		101	70 - 130
N-Propylbenzene	25.0	25.0		ug/L		100	70 - 130
o-Xylene	25.0	24.9		ug/L		100	70 - 130
sec-Butylbenzene	25.0	24.8		ug/L		99	70 - 130
Styrene	25.0	25.1		ug/L		100	70 - 130
Tert-amyl methyl ether	25.0	25.3		ug/L		101	70 - 130
Tert-butyl ethyl ether	25.0	26.0		ug/L		104	70 - 130
tert-Butylbenzene	25.0	25.1		ug/L		100	70 - 130

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-145302/5
Matrix: Water
Analysis Batch: 145302

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Tetrachloroethene	25.0	25.2		ug/L		101	70 - 130
Tetrahydrofuran	125	131		ug/L		105	70 - 130
Toluene	25.0	24.5		ug/L		98	70 - 130
trans-1,2-Dichloroethene	25.0	25.4		ug/L		102	70 - 130
trans-1,3-Dichloropropene	25.0	26.2		ug/L		105	70 - 130
Trichloroethene	25.0	25.5		ug/L		102	70 - 130
Trichlorofluoromethane	25.0	26.7		ug/L		107	70 - 130
Vinyl chloride	25.0	25.8		ug/L		103	70 - 130
Dibromomethane	25.0	25.0		ug/L		100	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*99*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 130*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*

Lab Sample ID: LCSD 480-145302/8
Matrix: Water
Analysis Batch: 145302

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	25.0	24.8		ug/L		99	70 - 130	5	20
1,1,1-Trichloroethane	25.0	23.6		ug/L		94	70 - 130	7	20
1,1,2,2-Tetrachloroethane	25.0	24.7		ug/L		99	70 - 130	0	20
1,1,2-Trichloroethane	25.0	23.7		ug/L		95	70 - 130	4	20
1,1-Dichloroethane	25.0	23.4		ug/L		93	70 - 130	6	20
1,1-Dichloroethene	25.0	22.6		ug/L		90	70 - 130	0	20
1,1-Dichloropropene	25.0	22.9		ug/L		91	70 - 130	8	20
1,2,3-Trichlorobenzene	25.0	24.7		ug/L		99	70 - 130	7	20
1,2,3-Trichloropropane	25.0	24.4		ug/L		98	70 - 130	1	20
1,2,4-Trichlorobenzene	25.0	25.8		ug/L		103	70 - 130	0	20
1,2,4-Trimethylbenzene	25.0	24.6		ug/L		98	70 - 130	2	20
1,2-Dibromo-3-Chloropropane	25.0	28.2		ug/L		113	70 - 130	1	20
1,2-Dichlorobenzene	25.0	24.2		ug/L		97	70 - 130	1	20
1,2-Dichloroethane	25.0	24.2		ug/L		97	70 - 130	4	20
1,2-Dichloropropane	25.0	24.3		ug/L		97	70 - 130	2	20
1,3,5-Trimethylbenzene	25.0	24.1		ug/L		97	70 - 130	2	20
1,3-Dichlorobenzene	25.0	23.8		ug/L		95	70 - 130	4	20
1,3-Dichloropropane	25.0	23.9		ug/L		95	70 - 130	1	20
1,4-Dichlorobenzene	25.0	24.0		ug/L		96	70 - 130	5	20
1,4-Dioxane	1000	1060		ug/L		106	70 - 130	2	20
2,2-Dichloropropane	25.0	22.7		ug/L		91	70 - 130	8	20
2-Butanone (MEK)	125	178	*	ug/L		142	70 - 130	4	20
2-Chlorotoluene	25.0	24.4		ug/L		98	70 - 130	1	20
2-Hexanone	125	134		ug/L		107	70 - 130	0	20
4-Chlorotoluene	25.0	24.3		ug/L		97	70 - 130	1	20
4-Isopropyltoluene	25.0	23.8		ug/L		95	70 - 130	3	20
4-Methyl-2-pentanone (MIBK)	125	131		ug/L		105	70 - 130	1	20
Acetone	125	126		ug/L		101	70 - 130	4	20

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 480-145302/8
Matrix: Water
Analysis Batch: 145302

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	25.0	23.7		ug/L		95	70 - 130	5	20
Bromobenzene	25.0	24.1		ug/L		97	70 - 130	3	20
Bromoform	25.0	26.7		ug/L		107	70 - 130	2	20
Bromomethane	25.0	22.4		ug/L		90	70 - 130	16	20
Carbon disulfide	25.0	25.7		ug/L		103	70 - 130	9	20
Carbon tetrachloride	25.0	23.9		ug/L		96	70 - 130	6	20
Chlorobenzene	25.0	24.2		ug/L		97	70 - 130	2	20
Chlorobromomethane	25.0	23.9		ug/L		96	70 - 130	6	20
Chlorodibromomethane	25.0	25.1		ug/L		100	70 - 130	4	20
Chloroethane	25.0	23.5		ug/L		94	70 - 130	10	20
Chloroform	25.0	23.5		ug/L		94	70 - 130	6	20
Chloromethane	25.0	23.4		ug/L		94	70 - 130	5	20
cis-1,2-Dichloroethene	25.0	22.5		ug/L		90	70 - 130	10	20
cis-1,3-Dichloropropene	25.0	25.5		ug/L		102	70 - 130	3	20
Dichlorobromomethane	25.0	25.2		ug/L		101	70 - 130	2	20
Dichlorodifluoromethane	50.0	53.6		ug/L		107	70 - 130	7	20
Ethyl ether	25.0	25.0		ug/L		100	70 - 130	3	20
Ethylbenzene	25.0	24.0		ug/L		96	70 - 130	3	20
Ethylene Dibromide	25.0	24.0		ug/L		96	70 - 130	3	20
Hexachlorobutadiene	25.0	25.4		ug/L		101	70 - 130	2	20
Isopropyl ether	25.0	25.7		ug/L		103	70 - 130	4	20
Isopropylbenzene	25.0	24.2		ug/L		97	70 - 130	1	20
Methyl tert-butyl ether	25.0	25.6		ug/L		103	70 - 130	5	20
Methylene Chloride	25.0	24.2		ug/L		97	70 - 130	6	20
m-Xylene & p-Xylene	50.0	48.5		ug/L		97	70 - 130	3	20
Naphthalene	25.0	26.2		ug/L		105	70 - 130	1	20
n-Butylbenzene	25.0	24.0		ug/L		96	70 - 130	5	20
N-Propylbenzene	25.0	24.4		ug/L		97	70 - 130	3	20
o-Xylene	25.0	24.7		ug/L		99	70 - 130	1	20
sec-Butylbenzene	25.0	24.1		ug/L		97	70 - 130	3	20
Styrene	25.0	24.5		ug/L		98	70 - 130	3	20
Tert-amyl methyl ether	25.0	24.5		ug/L		98	70 - 130	3	20
Tert-butyl ethyl ether	25.0	24.7		ug/L		99	70 - 130	5	20
tert-Butylbenzene	25.0	24.6		ug/L		98	70 - 130	2	20
Tetrachloroethene	25.0	25.1		ug/L		100	70 - 130	0	20
Tetrahydrofuran	125	127		ug/L		102	70 - 130	3	20
Toluene	25.0	23.7		ug/L		95	70 - 130	3	20
trans-1,2-Dichloroethene	25.0	23.2		ug/L		93	70 - 130	9	20
trans-1,3-Dichloropropene	25.0	26.4		ug/L		106	70 - 130	1	20
Trichloroethene	25.0	23.6		ug/L		94	70 - 130	8	20
Trichlorofluoromethane	25.0	24.7		ug/L		99	70 - 130	8	20
Vinyl chloride	25.0	23.3		ug/L		93	70 - 130	10	20
Dibromomethane	25.0	24.1		ug/L		96	70 - 130	4	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*99*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 130*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 480-47046-15 MS
Matrix: Water
Analysis Batch: 145302

Client Sample ID: MW-1018-20131002-01
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	ND		25.0	25.2		ug/L		101	70 - 130
1,1,1-Trichloroethane	17		25.0	39.4		ug/L		92	70 - 130
1,1,2,2-Tetrachloroethane	ND		25.0	25.7		ug/L		103	70 - 130
1,1,2-Trichloroethane	ND		25.0	25.0		ug/L		100	70 - 130
1,1-Dichloroethane	ND		25.0	25.7		ug/L		103	70 - 130
1,1-Dichloroethene	1.0		25.0	24.6		ug/L		94	70 - 130
1,1-Dichloropropene	ND		25.0	25.3		ug/L		101	70 - 130
1,2,3-Trichlorobenzene	ND		25.0	26.0		ug/L		104	70 - 130
1,2,3-Trichloropropane	ND		25.0	25.2		ug/L		101	70 - 130
1,2,4-Trichlorobenzene	ND		25.0	26.4		ug/L		106	70 - 130
1,2,4-Trimethylbenzene	ND		25.0	25.7		ug/L		103	70 - 130
1,2-Dibromo-3-Chloropropane	ND		25.0	27.4		ug/L		109	70 - 130
1,2-Dichlorobenzene	ND		25.0	24.6		ug/L		98	70 - 130
1,2-Dichloroethane	ND		25.0	24.9		ug/L		100	70 - 130
1,2-Dichloropropane	ND		25.0	25.0		ug/L		100	70 - 130
1,3,5-Trimethylbenzene	ND		25.0	25.7		ug/L		103	70 - 130
1,3-Dichlorobenzene	ND		25.0	25.1		ug/L		101	70 - 130
1,3-Dichloropropane	ND		25.0	24.8		ug/L		99	70 - 130
1,4-Dichlorobenzene	ND		25.0	24.8		ug/L		99	70 - 130
1,4-Dioxane	ND		1000	1020		ug/L		102	70 - 130
2,2-Dichloropropane	ND		25.0	21.1		ug/L		85	70 - 130
2-Butanone (MEK)	ND	*	125	180	F	ug/L		144	70 - 130
2-Chlorotoluene	ND		25.0	25.6		ug/L		102	70 - 130
2-Hexanone	ND		125	138		ug/L		110	70 - 130
4-Chlorotoluene	ND		25.0	25.6		ug/L		102	70 - 130
4-Isopropyltoluene	ND		25.0	25.5		ug/L		102	70 - 130
4-Methyl-2-pentanone (MIBK)	ND		125	133		ug/L		107	70 - 130
Acetone	ND		125	133		ug/L		107	70 - 130
Benzene	ND		25.0	24.9		ug/L		100	70 - 130
Bromobenzene	ND		25.0	25.4		ug/L		102	70 - 130
Bromoform	ND		25.0	23.3		ug/L		93	70 - 130
Bromomethane	ND		25.0	28.1		ug/L		112	70 - 130
Carbon disulfide	ND		25.0	27.7		ug/L		111	70 - 130
Carbon tetrachloride	ND		25.0	23.5		ug/L		94	70 - 130
Chlorobenzene	ND		25.0	24.7		ug/L		99	70 - 130
Chlorobromomethane	ND		25.0	25.0		ug/L		100	70 - 130
Chlorodibromomethane	ND		25.0	25.0		ug/L		100	70 - 130
Chloroethane	ND		25.0	26.2		ug/L		105	70 - 130
Chloroform	ND		25.0	25.0		ug/L		100	70 - 130
Chloromethane	ND		25.0	22.4		ug/L		90	70 - 130
cis-1,2-Dichloroethene	ND		25.0	24.8		ug/L		99	70 - 130
cis-1,3-Dichloropropene	ND		25.0	23.9		ug/L		96	70 - 130
Dichlorobromomethane	ND		25.0	24.9		ug/L		99	70 - 130
Dichlorodifluoromethane	ND		50.0	61.6		ug/L		123	70 - 130
Ethyl ether	ND		25.0	25.5		ug/L		102	70 - 130
Ethylbenzene	ND		25.0	24.6		ug/L		98	70 - 130
Ethylene Dibromide	ND		25.0	25.3		ug/L		101	70 - 130
Hexachlorobutadiene	ND		25.0	27.0		ug/L		108	70 - 130

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 480-47046-15 MS — **Client Sample ID: MW-1018-20131002-01**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 145302

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Isopropyl ether	ND		25.0	26.4		ug/L		106	70 - 130
Isopropylbenzene	ND		25.0	25.5		ug/L		102	70 - 130
Methyl tert-butyl ether	10		25.0	36.4		ug/L		106	70 - 130
Methylene Chloride	ND		25.0	25.0		ug/L		100	70 - 130
m-Xylene & p-Xylene	ND		50.0	50.1		ug/L		100	70 - 130
Naphthalene	ND		25.0	26.7		ug/L		104	70 - 130
n-Butylbenzene	ND		25.0	26.0		ug/L		104	70 - 130
N-Propylbenzene	ND		25.0	25.2		ug/L		101	70 - 130
o-Xylene	ND		25.0	25.2		ug/L		101	70 - 130
sec-Butylbenzene	ND		25.0	26.1		ug/L		104	70 - 130
Styrene	ND		25.0	25.3		ug/L		101	70 - 130
Tert-amyl methyl ether	ND		25.0	27.3		ug/L		103	70 - 130
Tert-butyl ethyl ether	ND		25.0	26.4		ug/L		106	70 - 130
tert-Butylbenzene	ND		25.0	26.3		ug/L		105	70 - 130
Tetrachloroethene	ND		25.0	27.4		ug/L		110	70 - 130
Tetrahydrofuran	ND		125	131		ug/L		105	70 - 130
Toluene	ND		25.0	25.0		ug/L		100	70 - 130
trans-1,2-Dichloroethene	ND		25.0	25.7		ug/L		103	70 - 130
trans-1,3-Dichloropropene	ND		25.0	23.7		ug/L		95	70 - 130
Trichloroethene	59		25.0	74.5	F	ug/L		62	70 - 130
Trichlorofluoromethane	ND		25.0	28.5		ug/L		114	70 - 130
Vinyl chloride	ND		25.0	26.2		ug/L		105	70 - 130
Dibromomethane	ND		25.0	25.1		ug/L		100	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Toluene-d8 (Surr)	*99*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 130*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*

Lab Sample ID: 480-47046-15 MSD — **Client Sample ID: MW-1018-20131002-01**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 145302

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	ND		25.0	26.7		ug/L		107	70 - 130	6	20
1,1,1-Trichloroethane	17		25.0	41.1		ug/L		98	70 - 130	4	20
1,1,2,2-Tetrachloroethane	ND		25.0	26.2		ug/L		105	70 - 130	2	20
1,1,2-Trichloroethane	ND		25.0	24.9		ug/L		100	70 - 130	0	20
1,1-Dichloroethane	ND		25.0	26.6		ug/L		106	70 - 130	3	20
1,1-Dichloroethene	1.0		25.0	26.2		ug/L		101	70 - 130	6	20
1,1-Dichloropropene	ND		25.0	27.7		ug/L		111	70 - 130	9	20
1,2,3-Trichlorobenzene	ND		25.0	27.3		ug/L		109	70 - 130	5	20
1,2,3-Trichloropropane	ND		25.0	24.9		ug/L		99	70 - 130	1	20
1,2,4-Trichlorobenzene	ND		25.0	27.4		ug/L		110	70 - 130	4	20
1,2,4-Trimethylbenzene	ND		25.0	27.1		ug/L		108	70 - 130	5	20
1,2-Dibromo-3-Chloropropane	ND		25.0	26.8		ug/L		107	70 - 130	2	20
1,2-Dichlorobenzene	ND		25.0	25.7		ug/L		103	70 - 130	5	20
1,2-Dichloroethane	ND		25.0	25.6		ug/L		102	70 - 130	3	20

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 480-47046-15 MSD
Matrix: Water
Analysis Batch: 145302

Client Sample ID: MW-1018-20131002-01
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Dichloropropane	ND		25.0	26.1		ug/L		104	70 - 130	4	20
1,3,5-Trimethylbenzene	ND		25.0	26.7		ug/L		107	70 - 130	4	20
1,3-Dichlorobenzene	ND		25.0	26.2		ug/L		105	70 - 130	4	20
1,3-Dichloropropane	ND		25.0	24.9		ug/L		100	70 - 130	0	20
1,4-Dichlorobenzene	ND		25.0	26.5		ug/L		106	70 - 130	6	20
1,4-Dioxane	ND		1000	1050		ug/L		105	70 - 130	3	20
2,2-Dichloropropane	ND		25.0	22.9		ug/L		91	70 - 130	8	20
2-Butanone (MEK)	ND	*	125	176	F	ug/L		141	70 - 130	2	20
2-Chlorotoluene	ND		25.0	26.6		ug/L		106	70 - 130	4	20
2-Hexanone	ND		125	134		ug/L		107	70 - 130	3	20
4-Chlorotoluene	ND		25.0	26.4		ug/L		106	70 - 130	3	20
4-Isopropyltoluene	ND		25.0	27.0		ug/L		108	70 - 130	6	20
4-Methyl-2-pentanone (MIBK)	ND		125	130		ug/L		104	70 - 130	3	20
Acetone	ND		125	126		ug/L		101	70 - 130	5	20
Benzene	ND		25.0	26.3		ug/L		105	70 - 130	5	20
Bromobenzene	ND		25.0	26.7		ug/L		107	70 - 130	5	20
Bromoform	ND		25.0	23.8		ug/L		95	70 - 130	2	20
Bromomethane	ND		25.0	29.4		ug/L		117	70 - 130	5	20
Carbon disulfide	ND		25.0	28.1		ug/L		112	70 - 130	1	20
Carbon tetrachloride	ND		25.0	26.2		ug/L		105	70 - 130	11	20
Chlorobenzene	ND		25.0	25.6		ug/L		103	70 - 130	4	20
Chlorobromomethane	ND		25.0	26.0		ug/L		104	70 - 130	4	20
Chlorodibromomethane	ND		25.0	25.1		ug/L		100	70 - 130	0	20
Chloroethane	ND		25.0	30.7		ug/L		123	70 - 130	16	20
Chloroform	ND		25.0	25.9		ug/L		103	70 - 130	3	20
Chloromethane	ND		25.0	24.1		ug/L		96	70 - 130	7	20
cis-1,2-Dichloroethene	ND		25.0	26.4		ug/L		105	70 - 130	6	20
cis-1,3-Dichloropropene	ND		25.0	24.8		ug/L		99	70 - 130	3	20
Dichlorobromomethane	ND		25.0	26.1		ug/L		104	70 - 130	5	20
Dichlorodifluoromethane	ND		50.0	67.1	F	ug/L		134	70 - 130	8	20
Ethyl ether	ND		25.0	27.0		ug/L		108	70 - 130	6	20
Ethylbenzene	ND		25.0	26.5		ug/L		106	70 - 130	8	20
Ethylene Dibromide	ND		25.0	25.3		ug/L		101	70 - 130	0	20
Hexachlorobutadiene	ND		25.0	29.5		ug/L		118	70 - 130	9	20
Isopropyl ether	ND		25.0	27.3		ug/L		109	70 - 130	3	20
Isopropylbenzene	ND		25.0	27.2		ug/L		109	70 - 130	6	20
Methyl tert-butyl ether	10		25.0	36.0		ug/L		104	70 - 130	1	20
Methylene Chloride	ND		25.0	26.9		ug/L		107	70 - 130	7	20
m-Xylene & p-Xylene	ND		50.0	52.9		ug/L		106	70 - 130	5	20
Naphthalene	ND		25.0	27.2		ug/L		106	70 - 130	2	20
n-Butylbenzene	ND		25.0	28.0		ug/L		112	70 - 130	7	20
N-Propylbenzene	ND		25.0	26.1		ug/L		104	70 - 130	4	20
o-Xylene	ND		25.0	26.7		ug/L		107	70 - 130	6	20
sec-Butylbenzene	ND		25.0	27.6		ug/L		110	70 - 130	5	20
Styrene	ND		25.0	26.4		ug/L		106	70 - 130	4	20
Tert-amyl methyl ether	ND		25.0	27.4		ug/L		103	70 - 130	0	20
Tert-butyl ethyl ether	ND		25.0	26.2		ug/L		105	70 - 130	1	20
tert-Butylbenzene	ND		25.0	27.5		ug/L		110	70 - 130	4	20

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 480-47046-15 MSD — **Client Sample ID: MW-1018-20131002-01**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 145302

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Tetrachloroethene	ND		25.0	29.0		ug/L		116	70 - 130	6	20
Tetrahydrofuran	ND		125	124		ug/L		100	70 - 130	5	20
Toluene	ND		25.0	26.1		ug/L		104	70 - 130	4	20
trans-1,2-Dichloroethene	ND		25.0	26.6		ug/L		106	70 - 130	3	20
trans-1,3-Dichloropropene	ND		25.0	24.4		ug/L		98	70 - 130	3	20
Trichloroethene	59		25.0	76.2	F	ug/L		69	70 - 130	2	20
Trichlorofluoromethane	ND		25.0	31.1		ug/L		124	70 - 130	9	20
Vinyl chloride	ND		25.0	28.6		ug/L		114	70 - 130	9	20
Dibromomethane	ND		25.0	25.6		ug/L		102	70 - 130	2	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*100*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 130*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Lab Sample ID: MB 200-62238/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 62267 — **Prep Batch: 62238**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20		ug/L		10/06/13 08:30	10/07/13 12:28	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*83*		*70 - 130*	*10/06/13 08:30*	*10/07/13 12:28*	*1*

Lab Sample ID: LCS 200-62238/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 62267 — **Prep Batch: 62238**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dioxane	0.200	0.226		ug/L		113	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,4-Dioxane-d8 (Surr)	*88*		*70 - 130*

Lab Sample ID: MB 200-62540/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 62590 — **Prep Batch: 62540**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20		ug/L		10/10/13 15:20	10/11/13 12:27	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*89*		*70 - 130*	*10/10/13 15:20*	*10/11/13 12:27*	*1*

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM) (Continued)

Lab Sample ID: LCS 200-62540/2-A
Matrix: Water
Analysis Batch: 62590

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 62540

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,4-Dioxane			8.00	6.89		ug/L		86	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,4-Dioxane-d8 (Surr)	*76*		*70 - 130*

QC Association Summary

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-47046-1

GC/MS VOA

Analysis Batch: 143681

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-47046-7	MW-1010M-20131002-01	Total/NA	Water	8260C	
LCS 480-143681/5	Lab Control Sample	Total/NA	Water	8260C	
LCSD 480-143681/6	Lab Control Sample Dup	Total/NA	Water	8260C	
MB 480-143681/8	Method Blank	Total/NA	Water	8260C	

Analysis Batch: 143864

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-47046-1	DUP-003-20131002-01	Total/NA	Water	8260C	
480-47046-2	MW-1006-20131002-01	Total/NA	Water	8260C	
480-47046-3	MW-1015D-20131002-01	Total/NA	Water	8260C	
480-47046-4	MW-1028-20131002-01	Total/NA	Water	8260C	
LCS 480-143864/4	Lab Control Sample	Total/NA	Water	8260C	
LCSD 480-143864/5	Lab Control Sample Dup	Total/NA	Water	8260C	
MB 480-143864/7	Method Blank	Total/NA	Water	8260C	

Analysis Batch: 143960

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-47046-5	MW-1009-20131002-01	Total/NA	Water	8260C	
480-47046-6	MW-1004-20131002-01	Total/NA	Water	8260C	
480-47046-8	MW-1010D-20131002-01	Total/NA	Water	8260C	
480-47046-9	MW-1022-20131002-01	Total/NA	Water	8260C	
480-47046-10	MW-1011-20131002-01	Total/NA	Water	8260C	
480-47046-11	DUP-002-20131002-01	Total/NA	Water	8260C	
480-47046-12	TB-002-20131002-01	Total/NA	Water	8260C	
480-47046-13	MW-1002M-20131002-01	Total/NA	Water	8260C	
480-47046-14	MW-1027-20131002-01	Total/NA	Water	8260C	
480-47046-16	MW-1034-20131002-01	Total/NA	Water	8260C	
LCS 480-143960/5	Lab Control Sample	Total/NA	Water	8260C	
LCSD 480-143960/6	Lab Control Sample Dup	Total/NA	Water	8260C	
MB 480-143960/8	Method Blank	Total/NA	Water	8260C	

Analysis Batch: 144314

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-47046-15	MW-1018-20131002-01	Total/NA	Water	8260C	
LCS 480-144314/5	Lab Control Sample	Total/NA	Water	8260C	
LCSD 480-144314/6	Lab Control Sample Dup	Total/NA	Water	8260C	
MB 480-144314/8	Method Blank	Total/NA	Water	8260C	

Analysis Batch: 145302

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-47046-15 MS	MW-1018-20131002-01	Total/NA	Water	8260C	
480-47046-15 MSD	MW-1018-20131002-01	Total/NA	Water	8260C	
LCS 480-145302/5	Lab Control Sample	Total/NA	Water	8260C	
LCSD 480-145302/8	Lab Control Sample Dup	Total/NA	Water	8260C	
MB 480-145302/7	Method Blank	Total/NA	Water	8260C	

QC Association Summary

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-47046-1

GC/MS Semi VOA

Prep Batch: 62238

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-47046-10	MW-1011-20131002-01	Total/NA	Water	3535A	
LCS 200-62238/2-A	Lab Control Sample	Total/NA	Water	3535A	
MB 200-62238/1-A	Method Blank	Total/NA	Water	3535A	

Analysis Batch: 62267

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-47046-10	MW-1011-20131002-01	Total/NA	Water	522 MOD	62238
LCS 200-62238/2-A	Lab Control Sample	Total/NA	Water	522 MOD	62238
MB 200-62238/1-A	Method Blank	Total/NA	Water	522 MOD	62238

Prep Batch: 62540

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-47046-9	MW-1022-20131002-01	Total/NA	Water	3535A	
480-47046-16	MW-1034-20131002-01	Total/NA	Water	3535A	
LCS 200-62540/2-A	Lab Control Sample	Total/NA	Water	3535A	
MB 200-62540/1-A	Method Blank	Total/NA	Water	3535A	

Analysis Batch: 62590

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-47046-9	MW-1022-20131002-01	Total/NA	Water	522 MOD	62540
480-47046-16	MW-1034-20131002-01	Total/NA	Water	522 MOD	62540
LCS 200-62540/2-A	Lab Control Sample	Total/NA	Water	522 MOD	62540
MB 200-62540/1-A	Method Blank	Total/NA	Water	522 MOD	62540

Lab Chronicle

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-47046-1

Client Sample ID: DUP-003-20131002-01 — Lab Sample ID: 480-47046-1

Date Collected: 10/02/13 11:11 — **Matrix: Water**
Date Received: 10/03/13 02:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	143864	10/10/13 07:17	LCH	TAL BUF

Client Sample ID: MW-1006-20131002-01 — Lab Sample ID: 480-47046-2

Date Collected: 10/02/13 09:25 — **Matrix: Water**
Date Received: 10/03/13 02:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	143864	10/10/13 07:42	LCH	TAL BUF

Client Sample ID: MW-1015D-20131002-01 — Lab Sample ID: 480-47046-3

Date Collected: 10/02/13 13:00 — **Matrix: Water**
Date Received: 10/03/13 02:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	143864	10/10/13 08:07	LCH	TAL BUF

Client Sample ID: MW-1028-20131002-01 — Lab Sample ID: 480-47046-4

Date Collected: 10/02/13 12:10 — **Matrix: Water**
Date Received: 10/03/13 02:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	143864	10/10/13 08:32	LCH	TAL BUF

Client Sample ID: MW-1009-20131002-01 — Lab Sample ID: 480-47046-5

Date Collected: 10/02/13 09:30 — **Matrix: Water**
Date Received: 10/03/13 02:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	143960	10/10/13 14:44	NMD1	TAL BUF

Client Sample ID: MW-1004-20131002-01 — Lab Sample ID: 480-47046-6

Date Collected: 10/02/13 10:26 — **Matrix: Water**
Date Received: 10/03/13 02:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	143960	10/10/13 15:09	NMD1	TAL BUF

Lab Chronicle

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-47046-1

Client Sample ID: MW-1010M-20131002-01 — Lab Sample ID: 480-47046-7

Date Collected: 10/02/13 11:40 — **Matrix: Water**
Date Received: 10/03/13 02:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	143681	10/09/13 13:45	RAL	TAL BUF

Client Sample ID: MW-1010D-20131002-01 — Lab Sample ID: 480-47046-8

Date Collected: 10/02/13 10:40 — **Matrix: Water**
Date Received: 10/03/13 02:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	143960	10/10/13 15:59	NMD1	TAL BUF

Client Sample ID: MW-1022-20131002-01 — Lab Sample ID: 480-47046-9

Date Collected: 10/01/13 16:05 — **Matrix: Water**
Date Received: 10/03/13 02:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	143960	10/10/13 16:24	NMD1	TAL BUF
Total/NA	Prep	3535A			62540	10/10/13 15:20	MLT	TAL BUR
Total/NA	Analysis	522 MOD		1	62590	10/11/13 13:42	BRM	TAL BUR

Client Sample ID: MW-1011-20131002-01 — Lab Sample ID: 480-47046-10

Date Collected: 10/02/13 09:22 — **Matrix: Water**
Date Received: 10/03/13 02:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	143960	10/10/13 16:50	NMD1	TAL BUF
Total/NA	Prep	3535A			62238	10/06/13 08:30	MLT	TAL BUR
Total/NA	Analysis	522 MOD		1	62267	10/07/13 14:47	BRM	TAL BUR

Client Sample ID: DUP-002-20131002-01 — Lab Sample ID: 480-47046-11

Date Collected: 10/02/13 12:12 — **Matrix: Water**
Date Received: 10/03/13 02:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	143960	10/10/13 17:15	NMD1	TAL BUF

Client Sample ID: TB-002-20131002-01 — Lab Sample ID: 480-47046-12

Date Collected: 10/02/13 00:00 — **Matrix: Water**
Date Received: 10/03/13 02:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	143960	10/10/13 17:41	NMD1	TAL BUF

Lab Chronicle

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-47046-1

Client Sample ID: MW-1002M-20131002-01 — Lab Sample ID: 480-47046-13

Date Collected: 10/02/13 14:35 — **Matrix: Water**
Date Received: 10/03/13 02:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	143960	10/10/13 18:06	NMD1	TAL BUF

Client Sample ID: MW-1027-20131002-01 — Lab Sample ID: 480-47046-14

Date Collected: 10/02/13 13:08 — **Matrix: Water**
Date Received: 10/03/13 02:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	143960	10/10/13 18:31	NMD1	TAL BUF

Client Sample ID: MW-1018-20131002-01 — Lab Sample ID: 480-47046-15

Date Collected: 10/02/13 14:15 — **Matrix: Water**
Date Received: 10/03/13 02:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	144314	10/11/13 16:47	PJQ	TAL BUF

Client Sample ID: MW-1034-20131002-01 — Lab Sample ID: 480-47046-16

Date Collected: 10/02/13 14:40 — **Matrix: Water**
Date Received: 10/03/13 02:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	143960	10/10/13 19:21	NMD1	TAL BUF
Total/NA	Prep	3535A			62540	10/10/13 15:20	MLT	TAL BUR
Total/NA	Analysis	522 MOD		1	62590	10/11/13 14:04	BRM	TAL BUR

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

TAL BUR = TestAmerica Burlington, 30 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

Certification Summary

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-47046-1

Laboratory: TestAmerica Buffalo

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Arkansas DEQ	State Program	6	88-0686	07-06-13 *
California	NELAP	9	1169CA	09-30-14
Connecticut	State Program	1	PH-0568	09-30-14
Florida	NELAP	4	E87672	06-30-14
Georgia	State Program	4	N/A	03-31-14
Iowa	State Program	7	374	03-15-15
Kansas	NELAP	7	E-10187	01-31-14
Kentucky	State Program	4	90029	12-31-13
Kentucky (UST)	State Program	4	30	04-01-14
Louisiana	NELAP	6	02031	06-30-14
Maine	State Program	1	NY00044	12-04-14
Maryland	State Program	3	294	03-31-14
Massachusetts	State Program	1	M-NY044	06-30-14
Michigan	State Program	5	9937	04-01-14
Minnesota	NELAP	5	036-999-337	12-31-13
New Hampshire	NELAP	1	2973	09-11-14
New Jersey	NELAP	2	NY455	06-30-14
New York	NELAP	2	10026	04-01-14
North Dakota	State Program	8	R-176	03-31-14
Oklahoma	State Program	6	9421	08-31-14
Oregon	NELAP	10	NY200003	06-09-14
Pennsylvania	NELAP	3	68-00281	07-31-14
Rhode Island	State Program	1	LAO00328	12-31-13
Tennessee	State Program	4	TN02970	04-01-14
Texas	NELAP	6	T104704412-11-2	07-31-14
USDA	Federal		P330-11-00386	11-22-14
Virginia	NELAP	3	460185	09-14-14
Washington	State Program	10	C784	02-10-14
West Virginia DEP	State Program	3	252	12-31-13
Wisconsin	State Program	5	998310390	08-31-14

Laboratory: TestAmerica Burlington

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Connecticut	State Program	1	PH-0751	09-30-13 *
DE Haz. Subst. Cleanup Act (HSCA)	State Program	3	NA	02-13-15
Florida	NELAP	4	E87467	06-30-14
L-A-B	DoD ELAP		L2336	10-26-13 *
Louisiana	NELAP	6	176292	06-30-14
Maine	State Program	1	VT00008	04-17-15
Minnesota	NELAP	5	050-999-436	12-31-13
New Hampshire	NELAP	1	2006	12-18-13
New Jersey	NELAP	2	VT972	06-30-14
New York	NELAP	2	10391	04-01-14
Pennsylvania	NELAP	3	68-00489	04-30-14
Rhode Island	State Program	1	LAO00298	12-30-13
US Fish & Wildlife	Federal		LE-058448-0	02-28-14
USDA	Federal		P330-11-00093	02-17-14
Vermont	State Program	1	VT-4000	12-31-13

* Expired certification is currently pending renewal and is considered valid.

Method Summary

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-47046-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds (GC/MS)	MA DEP	TAL BUF
522 MOD	1,4 Dioxane (GC/MS SIM)	EPA	TAL BUR

Protocol References:

EPA = US Environmental Protection Agency

MA DEP = Massachusetts Department Of Environmental Protection

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

TAL BUR = TestAmerica Burlington, 30 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

Sample Summary

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-47046-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-47046-1	DUP-003-20131002-01	Water	10/02/13 11:11	10/03/13 02:00
480-47046-2	MW-1006-20131002-01	Water	10/02/13 09:25	10/03/13 02:00
480-47046-3	MW-1015D-20131002-01	Water	10/02/13 13:00	10/03/13 02:00
480-47046-4	MW-1028-20131002-01	Water	10/02/13 12:10	10/03/13 02:00
480-47046-5	MW-1009-20131002-01	Water	10/02/13 09:30	10/03/13 02:00
480-47046-6	MW-1004-20131002-01	Water	10/02/13 10:26	10/03/13 02:00
480-47046-7	MW-1010M-20131002-01	Water	10/02/13 11:40	10/03/13 02:00
480-47046-8	MW-1010D-20131002-01	Water	10/02/13 10:40	10/03/13 02:00
480-47046-9	MW-1022-20131002-01	Water	10/01/13 16:05	10/03/13 02:00
480-47046-10	MW-1011-20131002-01	Water	10/02/13 09:22	10/03/13 02:00
480-47046-11	DUP-002-20131002-01	Water	10/02/13 12:12	10/03/13 02:00
480-47046-12	TB-002-20131002-01	Water	10/02/13 00:00	10/03/13 02:00
480-47046-13	MW-1002M-20131002-01	Water	10/02/13 14:35	10/03/13 02:00
480-47046-14	MW-1027-20131002-01	Water	10/02/13 13:08	10/03/13 02:00
480-47046-15	MW-1018-20131002-01	Water	10/02/13 14:15	10/03/13 02:00
480-47046-16	MW-1034-20131002-01	Water	10/02/13 14:40	10/03/13 02:00

Login Sample Receipt Checklist

Client: ERM-Northeast

Job Number: 480-47046-1

Login Number: 47046

List Source: TestAmerica Buffalo

List Number: 1

Creator: Wienke, Robert K

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

Login Sample Receipt Checklist

Client: ERM-Northeast

Job Number: 480-47046-1

Login Number: 47046
List Number: 1
Creator: Poucher, Stephanie A

List Source: TestAmerica Burlington
List Creation: 10/04/13 02:18 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	True	957685
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	4.0ºC IR GUN ID 181. CF -0.2
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	Check done at department level as required.

Chain of Custody Record

Temperature on Receipt _____

Drinking Water? Yes ☐ No ☒

TestAmerica

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TAL-4124 (1007)

Client	Project Manager	Date	Chain of Custody Number
ERM	Lyndsey Colburn	10/2/13	238090
Address	**Telephone Number (Area Code)/Fax Number**	**Lab Number**	
1 Beacon St 5th Floor	1-617 646-7829		Page 1 of 2

City	State	Zip Code	Site Contact	Lab Contact
Boston	MA	02108	Stacey Briggs	Becky Moon

Project Name and Location (State): JDS Wayland Wayland, MA

Carrier/Waybill Number:

Contract/Purchase Order/Quote No.: C109270 01

Analysis (Attach list if more space is needed): 8260B; 522 MOD 1,4 Dioxane; 8260B SIM 1,4 Dioxane

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Ascorbic Acid	8260B	522 MOD 1,4 Dioxane	8260B SIM 1,4 Dioxane	Special Instructions/ Conditions of Receipt
DUP-003-20131002-01	10/2/13	11:11		X						X				3			
MW-1006-20131002-01	10/2/13	9:25		X						X				3			
MW-1015D-20131002-01	10/2/13	13:00		X						X				3			
MW-1028-20131002-01	10/2/13	12:10		X						X				3			
MW-1009-20131002-01	10/2/13	9:30		X						X				3			
MW-1004-20131002-01	10/2/13	10:20		X						X				3			
MW-1010M-20131002-01	10/2/13	11:40		X									X	3			Preserved with ascorbic acid & 7 Day TAT * * *
MW-1010D-20131002-01	10/2/13	10:40		X						X				3			
MW-1022-20131001-01	10/1/13	10:05		X						X				3	2	1	522 to run after SIM for 1,4 Dioxane
MW-1011-20131002-01	10/2/13	9:22		X						X				3		1	
DUP-002-20131002-01	10/2/13	12:12		X						X				3			
TB-002-20131002-01	10/2/13			X						X				2			

Possible Hazard Identification: ☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal: ☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required: ☐ 24 Hours ☐ 48 Hours ☒ 7 Days ☐ 14 Days ☐ 21 Days ☐ Other _____

QC Requirements (Specify):

	Date	Time		Date	Time
1. Relinquished By: [signature]	10/2/13	15:30 ~~13:30~~	1. Received By: [signature] TAL	10/2/13	15:30
2. Relinquished By: [signature] TAL	10/2/13	1630	2. Received By: [signature] TAL	10/3/13	0200
3. Relinquished By			3. Received By		

Comments: 2.24H1

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Temperature on Receipt _____

Drinking Water? Yes ☐ No ☒

TAL-4124 (1007)

Client	Project Manager	Date	Chain of Custody Number
ERM	Lyndsey Colburn	10/2/13	238031
Address	**Telephone Number (Area Code)/Fax Number**	**Lab Number**	**Page 2 of 2**
1 Beacon St. 5th Floor	1-617-646-7829		

City	State	Zip Code	Site Contact	Lab Contact
Boston	MA	02108	Stacey Bruya	Becky Mason

Project Name and Location (State): IDS Wayland Wayland, MA

Carrier/Waybill Number:

Contract/Purchase Order/Quote No.: 0169270.01

Analysis (Attach list if more space is needed): 8260B - MCD; 8260B SIM 1,4 Dioxane; 522 MCD 1,4 Dioxane

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Air	Aqueous	Sed.	Soil	Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	8260B - MCD	8260B SIM 1,4 Dioxane	522 MCD 1,4 Dioxane	Special Instructions/ Conditions of Receipt
MW-1002M-20131002-01	10/2/13	14.35		X						X			3			
MW-1027-20131002-01	10/2/13	13.00		X						X			2			
MW-1018-20131002-01-MSD	10/2/13	14.15		X						X			3			
MW-1018-20131002-01	10/2/13	14.15		X						X			3			
MW-1018-20131002-01-MS	10/2/13	14.15		X						X			3			
MW-1034-20131002-01	10/2/13	14.40		X						X			3	2	1	522 run after SIM for 1,4 Dioxane

Possible Hazard Identification: ☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal: ☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required: ☐ 24 Hours ☐ 48 Hours ☒ 7 Days ☐ 14 Days ☐ 21 Days ☐ Other _____

QC Requirements (Specify):

1. Relinquished By	Date 10/2/13	Time 15.30 ~~15.30~~	1. Received By TAL	Date 10/2/13	Time 15.30
2. Relinquished By TAL	Date 10/2/13	Time 1630	2. Received By TAL	Date 10 3-13	Time 0200
3. Relinquished By	Date	Time	3. Received By	Date	Time

Comments: 2.4#1

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

TestAmerica Job ID: 480-47163-1
Client Project/Site: IDS Wayland

For:
ERM-Northeast
One Beacon Steet
5th Floor
Boston, Massachusetts 02108

Attn: Jason Flattery

Authorized for release by:
10/14/2013 10:24:02 AM

Becky Mason, Project Manager II
(413)572-4000
becky.mason@testamericainc.com

LINKS

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The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-47163-1

Job ID: 480-47163-1

Laboratory: TestAmerica Buffalo

Narrative

Receipt
The samples were received on 10/4/2013 1:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.7º C.

GC/MS VOA
Method 8260C: The following samples were diluted to bring the concentration of target analytes within the calibration range: MW-1025D-20131003-01 (480-47163-2), MW-1025M-20131003-01 (480-47163-4). Elevated reporting limits (RLs) are provided.

Method 8260C: The continuing calibration verification (CCV) for 4-Methyl-2-pentanone (MIBK), Chloromethane, and Tetrahydrofuran associated with batch 143927 recovered above the MCP upper control limit. MCP protocol allows for 20% of the target compounds to be outside the 20% difference but not over 40% difference.

Method 8260C: The continuing calibration verification (CCV) for 4-Methyl-2-pentanone associated with batch 144151 recovered above the upper control limit. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

With the exception of diluted samples, per question G on the MassDEP Analytical Protocol Certification Form, TestAmerica's routine reporting limits do not achieve the CAM reporting limits specified in this CAM protocol for 1,2-dibromo-3-chloropropane, Carbon Disulfide, Isopropyl Ether, Naphthalene, tert-Butyl Ethyl Ether, tert-Amyl Methyl Ether, & Tetrahydrofuran.

No other analytical or quality issues were noted.

GC/MS Semi VOA
No analytical or quality issues were noted.

Organic Prep
No analytical or quality issues were noted.

MassDEP Analytical Protocol Certification Form

Laboratory Name: **TestAmerica Buffalo** Project #: **480-47163-1**

Project Location: **Wayland** RTN:

This form provides certifications for the following data set: list Laboratory Sample ID Number(s):

480-47163-1[1-10]

Matrices: [X] Groundwater/Surface Water [ ] Soil/Sediment [ ] Drinking Water [ ] Air [ ] Other:

CAM Protocols (check all that apply below):

8260 VOC CAM II A [X]	7470/7471 Hg CAM III B [ ]	Mass DEP VPH CAM IV A [ ]	8081 Pesticides CAM V B [ ]	7196 Hex Cr CAM VI B [ ]	Mass DEP APH CAM IX A [ ]
8270 SVOC CAM II B [ ]	6010 Metals CAM III C [ ]	Mass DEP EPH CAM IV B [ ]	8151 Herbicides CAM V C [ ]	8330 Explosives CAM VIII A [ ]	TO-15 VOC CAM IX B [ ]
6010 Metals CAM III A [ ]	6020 Metals CAM III D [ ]	8082 PCB CAM V A [ ]	9014 Total Cyanide/PAC CAM VI A [ ]	6860 Perchlorate CAM VIII B [ ]	

Affirmative Responses to Questions A through F are required for "Presumptive Certainty" status

A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding time.	[X] Yes [ ] No
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	[X] Yes [ ] No
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	[X] Yes [ ] No
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	[X] Yes [ ] No
E	a. VPH, EPH and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications). b. APH and TO-15 Methods only: Was the complete analyte list reported for each method?	[ ] Yes [ ] No [ ] Yes [ ] No
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	[X] Yes [ ] No

Responses to Questions G, H and I below are required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	[ ] Yes [X] No[1]

***Data User Note:* Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WCS-07-350**

H	Were **all** QC performance standards specified in the CAM protocol(s) achieved?	[ ] Yes [X] No[1]
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s) ?	[X] Yes [ ] No[1]

[1] All negative responses must be addressed in an attached laboratory narrative.

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, is accurate and complete.

Signature: Position: Project Manager

Printed Name: Becky Mason Date: 10/14/13 10:05

This form has been electronically signed and approved

Detection Summary

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-47163-1

Client Sample ID: MW-1024D-20131003-01 — Lab Sample ID: 480-47163-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	18		1.0		ug/L	1		8260C	Total/NA
Trichloroethene	72		1.0		ug/L	1		8260C	Total/NA
1,4-Dioxane	0.55		0.20		ug/L	1		522 MOD	Total/NA

Client Sample ID: MW-1025D-20131003-01 — Lab Sample ID: 480-47163-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	17		2.0		ug/L	2		8260C	Total/NA
Trichloroethene	110		2.0		ug/L	2		8260C	Total/NA
1,4-Dioxane	0.39		0.20		ug/L	1		522 MOD	Total/NA

Client Sample ID: MW-1008-20131003-01 — Lab Sample ID: 480-47163-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Trichloroethene	3.4		1.0		ug/L	1		8260C	Total/NA

Client Sample ID: MW-1025M-20131003-01 — Lab Sample ID: 480-47163-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	6.8		1.6		ug/L	1		8260C SIM	Total/NA
1,1,1-Trichloroethane	3.3		2.0		ug/L	2		8260C	Total/NA
1,1-Dichloroethane	2.3		2.0		ug/L	2		8260C	Total/NA
1,1-Dichloroethene	9.2		2.0		ug/L	2		8260C	Total/NA
Methyl tert-butyl ether	12		2.0		ug/L	2		8260C	Total/NA
Trichloroethene	130		2.0		ug/L	2		8260C	Total/NA

Client Sample ID: MW-1016D-20131003-01 — Lab Sample ID: 480-47163-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethene	2.2		1.0		ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	18		1.0		ug/L	1		8260C	Total/NA
Tetrachloroethene	1.4		1.0		ug/L	1		8260C	Total/NA
Trichloroethene	35		1.0		ug/L	1		8260C	Total/NA

Client Sample ID: TB-003-20131003-01 — Lab Sample ID: 480-47163-6

No Detections.

Client Sample ID: MW-1014-20131003-01 — Lab Sample ID: 480-47163-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	1.4		1.0		ug/L	1		8260C	Total/NA
Trichloroethene	21		1.0		ug/L	1		8260C	Total/NA

Client Sample ID: MW-1013-20131003-01 — Lab Sample ID: 480-47163-8

No Detections.

Client Sample ID: MW-1033-20131003-01 — Lab Sample ID: 480-47163-9

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-47163-1

Client Sample ID: MW-1033-20131003-01 (Continued) — Lab Sample ID: 480-47163-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	2.3		1.6		ug/L	1		8260C SIM	Total/NA
Trichloroethene	5.3		1.0		ug/L	1		8260C	Total/NA

Client Sample ID: MW-1003-20131003-01 — Lab Sample ID: 480-47163-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	3.4		1.0		ug/L	1		8260C	Total/NA
Trichloroethene	3.8		1.0		ug/L	1		8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-47163-1

Client Sample ID: MW-1024D-20131003-01

Lab Sample ID: 480-47163-1

Date Collected: 10/03/13 10:30
Matrix: Water
Date Received: 10/04/13 01:30

Method: 8260C SIM - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		1.6		ug/L			10/07/13 17:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
TBA-d9 (Surr)	*85*		*50 - 150*		*10/07/13 17:04*	*1*
Dibromofluoromethane (Surr)	*107*		*50 - 150*		*10/07/13 17:04*	*1*

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			10/10/13 13:30	1
1,1,1-Trichloroethane	ND		1.0		ug/L			10/10/13 13:30	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			10/10/13 13:30	1
1,1,2-Trichloroethane	ND		1.0		ug/L			10/10/13 13:30	1
1,1-Dichloroethane	ND		1.0		ug/L			10/10/13 13:30	1
1,1-Dichloroethene	ND		1.0		ug/L			10/10/13 13:30	1
1,1-Dichloropropene	ND		1.0		ug/L			10/10/13 13:30	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			10/10/13 13:30	1
1,2,3-Trichloropropane	ND		1.0		ug/L			10/10/13 13:30	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			10/10/13 13:30	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			10/10/13 13:30	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			10/10/13 13:30	1
1,2-Dichlorobenzene	ND		1.0		ug/L			10/10/13 13:30	1
1,2-Dichloroethane	ND		1.0		ug/L			10/10/13 13:30	1
1,2-Dichloropropane	ND		1.0		ug/L			10/10/13 13:30	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			10/10/13 13:30	1
1,3-Dichlorobenzene	ND		1.0		ug/L			10/10/13 13:30	1
1,3-Dichloropropane	ND		1.0		ug/L			10/10/13 13:30	1
1,4-Dichlorobenzene	ND		1.0		ug/L			10/10/13 13:30	1
1,4-Dioxane	ND		50		ug/L			10/10/13 13:30	1
2,2-Dichloropropane	ND		1.0		ug/L			10/10/13 13:30	1
2-Butanone (MEK)	ND		10		ug/L			10/10/13 13:30	1
2-Chlorotoluene	ND		1.0		ug/L			10/10/13 13:30	1
2-Hexanone	ND		10		ug/L			10/10/13 13:30	1
4-Chlorotoluene	ND		1.0		ug/L			10/10/13 13:30	1
4-Isopropyltoluene	ND		1.0		ug/L			10/10/13 13:30	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			10/10/13 13:30	1
Acetone	ND		50		ug/L			10/10/13 13:30	1
Benzene	ND		1.0		ug/L			10/10/13 13:30	1
Bromobenzene	ND		1.0		ug/L			10/10/13 13:30	1
Bromoform	ND		1.0		ug/L			10/10/13 13:30	1
Bromomethane	ND		2.0		ug/L			10/10/13 13:30	1
Carbon disulfide	ND		10		ug/L			10/10/13 13:30	1
Carbon tetrachloride	ND		1.0		ug/L			10/10/13 13:30	1
Chlorobenzene	ND		1.0		ug/L			10/10/13 13:30	1
Chlorobromomethane	ND		1.0		ug/L			10/10/13 13:30	1
Chlorodibromomethane	ND		0.50		ug/L			10/10/13 13:30	1
Chloroethane	ND		2.0		ug/L			10/10/13 13:30	1
Chloroform	ND		1.0		ug/L			10/10/13 13:30	1
Chloromethane	ND		2.0		ug/L			10/10/13 13:30	1
cis-1,2-Dichloroethene	**18**		1.0		ug/L			10/10/13 13:30	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			10/10/13 13:30	1

Client Sample ID: MW-1024D-20131003-01

Lab Sample ID: 480-47163-1

Date Collected: 10/03/13 10:30

Matrix: Water

Date Received: 10/04/13 01:30

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorobromomethane	ND		0.50		ug/L			10/10/13 13:30	1
Dichlorodifluoromethane	ND		1.0		ug/L			10/10/13 13:30	1
Ethyl ether	ND		1.0		ug/L			10/10/13 13:30	1
Ethylbenzene	ND		1.0		ug/L			10/10/13 13:30	1
Ethylene Dibromide	ND		1.0		ug/L			10/10/13 13:30	1
Hexachlorobutadiene	ND		0.40		ug/L			10/10/13 13:30	1
Isopropyl ether	ND		10		ug/L			10/10/13 13:30	1
Isopropylbenzene	ND		1.0		ug/L			10/10/13 13:30	1
Methyl tert-butyl ether	ND		1.0		ug/L			10/10/13 13:30	1
Methylene Chloride	ND		1.0		ug/L			10/10/13 13:30	1
m-Xylene & p-Xylene	ND		2.0		ug/L			10/10/13 13:30	1
Naphthalene	ND		5.0		ug/L			10/10/13 13:30	1
n-Butylbenzene	ND		1.0		ug/L			10/10/13 13:30	1
N-Propylbenzene	ND		1.0		ug/L			10/10/13 13:30	1
o-Xylene	ND		1.0		ug/L			10/10/13 13:30	1
sec-Butylbenzene	ND		1.0		ug/L			10/10/13 13:30	1
Styrene	ND		1.0		ug/L			10/10/13 13:30	1
Tert-amyl methyl ether	ND		5.0		ug/L			10/10/13 13:30	1
Tert-butyl ethyl ether	ND		5.0		ug/L			10/10/13 13:30	1
tert-Butylbenzene	ND		1.0		ug/L			10/10/13 13:30	1
Tetrachloroethene	ND		1.0		ug/L			10/10/13 13:30	1
Tetrahydrofuran	ND		10		ug/L			10/10/13 13:30	1
Toluene	ND		1.0		ug/L			10/10/13 13:30	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			10/10/13 13:30	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			10/10/13 13:30	1
Trichloroethene	**72**		1.0		ug/L			10/10/13 13:30	1
Trichlorofluoromethane	ND		1.0		ug/L			10/10/13 13:30	1
Vinyl chloride	ND		1.0		ug/L			10/10/13 13:30	1
Dibromomethane	ND		1.0		ug/L			10/10/13 13:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*92*		*70 - 130*		*10/10/13 13:30*	*1*
1,2-Dichloroethane-d4 (Surr)	*88*		*70 - 130*		*10/10/13 13:30*	*1*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*		*10/10/13 13:30*	*1*

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	**0.55**		0.20		ug/L		10/06/13 08:30	10/07/13 13:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*84*		*70 - 130*	*10/06/13 08:30*	*10/07/13 13:12*	*1*

Client Sample ID: MW-1025D-20131003-01

Lab Sample ID: 480-47163-2

Date Collected: 10/03/13 09:15

Matrix: Water

Date Received: 10/04/13 01:30

Method: 8260C SIM - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		1.6		ug/L			10/07/13 17:28	1

Client Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-47163-1

Client Sample ID: MW-1025D-20131003-01

Lab Sample ID: 480-47163-2

Date Collected: 10/03/13 09:15

Matrix: Water

Date Received: 10/04/13 01:30

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
TBA-d9 (Surr)	*81*		*50 - 150*		*10/07/13 17:28*	*1*
Dibromofluoromethane (Surr)	*109*		*50 - 150*		*10/07/13 17:28*	*1*

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		2.0		ug/L			10/10/13 13:54	2
1,1,1-Trichloroethane	ND		2.0		ug/L			10/10/13 13:54	2
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			10/10/13 13:54	2
1,1,2-Trichloroethane	ND		2.0		ug/L			10/10/13 13:54	2
1,1-Dichloroethane	ND		2.0		ug/L			10/10/13 13:54	2
1,1-Dichloroethene	ND		2.0		ug/L			10/10/13 13:54	2
1,1-Dichloropropene	ND		2.0		ug/L			10/10/13 13:54	2
1,2,3-Trichlorobenzene	ND		2.0		ug/L			10/10/13 13:54	2
1,2,3-Trichloropropane	ND		2.0		ug/L			10/10/13 13:54	2
1,2,4-Trichlorobenzene	ND		2.0		ug/L			10/10/13 13:54	2
1,2,4-Trimethylbenzene	ND		2.0		ug/L			10/10/13 13:54	2
1,2-Dibromo-3-Chloropropane	ND		10		ug/L			10/10/13 13:54	2
1,2-Dichlorobenzene	ND		2.0		ug/L			10/10/13 13:54	2
1,2-Dichloroethane	ND		2.0		ug/L			10/10/13 13:54	2
1,2-Dichloropropane	ND		2.0		ug/L			10/10/13 13:54	2
1,3,5-Trimethylbenzene	ND		2.0		ug/L			10/10/13 13:54	2
1,3-Dichlorobenzene	ND		2.0		ug/L			10/10/13 13:54	2
1,3-Dichloropropane	ND		2.0		ug/L			10/10/13 13:54	2
1,4-Dichlorobenzene	ND		2.0		ug/L			10/10/13 13:54	2
1,4-Dioxane	ND		100		ug/L			10/10/13 13:54	2
2,2-Dichloropropane	ND		2.0		ug/L			10/10/13 13:54	2
2-Butanone (MEK)	ND		20		ug/L			10/10/13 13:54	2
2-Chlorotoluene	ND		2.0		ug/L			10/10/13 13:54	2
2-Hexanone	ND		20		ug/L			10/10/13 13:54	2
4-Chlorotoluene	ND		2.0		ug/L			10/10/13 13:54	2
4-Isopropyltoluene	ND		2.0		ug/L			10/10/13 13:54	2
4-Methyl-2-pentanone (MIBK)	ND		20		ug/L			10/10/13 13:54	2
Acetone	ND		100		ug/L			10/10/13 13:54	2
Benzene	ND		2.0		ug/L			10/10/13 13:54	2
Bromobenzene	ND		2.0		ug/L			10/10/13 13:54	2
Bromoform	ND		2.0		ug/L			10/10/13 13:54	2
Bromomethane	ND		4.0		ug/L			10/10/13 13:54	2
Carbon disulfide	ND		20		ug/L			10/10/13 13:54	2
Carbon tetrachloride	ND		2.0		ug/L			10/10/13 13:54	2
Chlorobenzene	ND		2.0		ug/L			10/10/13 13:54	2
Chlorobromomethane	ND		2.0		ug/L			10/10/13 13:54	2
Chlorodibromomethane	ND		1.0		ug/L			10/10/13 13:54	2
Chloroethane	ND		4.0		ug/L			10/10/13 13:54	2
Chloroform	ND		2.0		ug/L			10/10/13 13:54	2
Chloromethane	ND		4.0		ug/L			10/10/13 13:54	2
cis-1,2-Dichloroethene	**17**		2.0		ug/L			10/10/13 13:54	2
cis-1,3-Dichloropropene	ND		0.80		ug/L			10/10/13 13:54	2
Dichlorobromomethane	ND		1.0		ug/L			10/10/13 13:54	2
Dichlorodifluoromethane	ND		2.0		ug/L			10/10/13 13:54	2
Ethyl ether	ND		2.0		ug/L			10/10/13 13:54	2

Client Sample ID: MW-1025D-20131003-01

Lab Sample ID: 480-47163-2

Date Collected: 10/03/13 09:15

Matrix: Water

Date Received: 10/04/13 01:30

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		2.0		ug/L			10/10/13 13:54	2
Ethylene Dibromide	ND		2.0		ug/L			10/10/13 13:54	2
Hexachlorobutadiene	ND		0.80		ug/L			10/10/13 13:54	2
Isopropyl ether	ND		20		ug/L			10/10/13 13:54	2
Isopropylbenzene	ND		2.0		ug/L			10/10/13 13:54	2
Methyl tert-butyl ether	ND		2.0		ug/L			10/10/13 13:54	2
Methylene Chloride	ND		2.0		ug/L			10/10/13 13:54	2
m-Xylene & p-Xylene	ND		4.0		ug/L			10/10/13 13:54	2
Naphthalene	ND		10		ug/L			10/10/13 13:54	2
n-Butylbenzene	ND		2.0		ug/L			10/10/13 13:54	2
N-Propylbenzene	ND		2.0		ug/L			10/10/13 13:54	2
o-Xylene	ND		2.0		ug/L			10/10/13 13:54	2
sec-Butylbenzene	ND		2.0		ug/L			10/10/13 13:54	2
Styrene	ND		2.0		ug/L			10/10/13 13:54	2
Tert-amyl methyl ether	ND		10		ug/L			10/10/13 13:54	2
Tert-butyl ethyl ether	ND		10		ug/L			10/10/13 13:54	2
tert-Butylbenzene	ND		2.0		ug/L			10/10/13 13:54	2
Tetrachloroethene	ND		2.0		ug/L			10/10/13 13:54	2
Tetrahydrofuran	ND		20		ug/L			10/10/13 13:54	2
Toluene	ND		2.0		ug/L			10/10/13 13:54	2
trans-1,2-Dichloroethene	ND		2.0		ug/L			10/10/13 13:54	2
trans-1,3-Dichloropropene	ND		0.80		ug/L			10/10/13 13:54	2
Trichloroethene	**110**		2.0		ug/L			10/10/13 13:54	2
Trichlorofluoromethane	ND		2.0		ug/L			10/10/13 13:54	2
Vinyl chloride	ND		2.0		ug/L			10/10/13 13:54	2
Dibromomethane	ND		2.0		ug/L			10/10/13 13:54	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*95*		*70 - 130*		*10/10/13 13:54*	*2*
1,2-Dichloroethane-d4 (Surr)	*89*		*70 - 130*		*10/10/13 13:54*	*2*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*		*10/10/13 13:54*	*2*

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	**0.39**		0.20		ug/L		10/06/13 08:30	10/07/13 13:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*73*		*70 - 130*	*10/06/13 08:30*	*10/07/13 13:36*	*1*

Client Sample ID: MW-1008-20131003-01

Lab Sample ID: 480-47163-3

Date Collected: 10/03/13 09:12

Matrix: Water

Date Received: 10/04/13 01:30

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			10/10/13 14:17	1
1,1,1-Trichloroethane	ND		1.0		ug/L			10/10/13 14:17	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			10/10/13 14:17	1
1,1,2-Trichloroethane	ND		1.0		ug/L			10/10/13 14:17	1
1,1-Dichloroethane	ND		1.0		ug/L			10/10/13 14:17	1

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-47163-1

Client Sample ID: MW-1008-20131003-01
Date Collected: 10/03/13 09:12
Date Received: 10/04/13 01:30

Lab Sample ID: 480-47163-3
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		1.0		ug/L			10/10/13 14:17	1
1,1-Dichloropropene	ND		1.0		ug/L			10/10/13 14:17	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			10/10/13 14:17	1
1,2,3-Trichloropropane	ND		1.0		ug/L			10/10/13 14:17	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			10/10/13 14:17	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			10/10/13 14:17	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			10/10/13 14:17	1
1,2-Dichlorobenzene	ND		1.0		ug/L			10/10/13 14:17	1
1,2-Dichloroethane	ND		1.0		ug/L			10/10/13 14:17	1
1,2-Dichloropropane	ND		1.0		ug/L			10/10/13 14:17	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			10/10/13 14:17	1
1,3-Dichlorobenzene	ND		1.0		ug/L			10/10/13 14:17	1
1,3-Dichloropropane	ND		1.0		ug/L			10/10/13 14:17	1
1,4-Dichlorobenzene	ND		1.0		ug/L			10/10/13 14:17	1
1,4-Dioxane	ND		50		ug/L			10/10/13 14:17	1
2,2-Dichloropropane	ND		1.0		ug/L			10/10/13 14:17	1
2-Butanone (MEK)	ND		10		ug/L			10/10/13 14:17	1
2-Chlorotoluene	ND		1.0		ug/L			10/10/13 14:17	1
2-Hexanone	ND		10		ug/L			10/10/13 14:17	1
4-Chlorotoluene	ND		1.0		ug/L			10/10/13 14:17	1
4-Isopropyltoluene	ND		1.0		ug/L			10/10/13 14:17	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			10/10/13 14:17	1
Acetone	ND		50		ug/L			10/10/13 14:17	1
Benzene	ND		1.0		ug/L			10/10/13 14:17	1
Bromobenzene	ND		1.0		ug/L			10/10/13 14:17	1
Bromoform	ND		1.0		ug/L			10/10/13 14:17	1
Bromomethane	ND		2.0		ug/L			10/10/13 14:17	1
Carbon disulfide	ND		10		ug/L			10/10/13 14:17	1
Carbon tetrachloride	ND		1.0		ug/L			10/10/13 14:17	1
Chlorobenzene	ND		1.0		ug/L			10/10/13 14:17	1
Chlorobromomethane	ND		1.0		ug/L			10/10/13 14:17	1
Chlorodibromomethane	ND		0.50		ug/L			10/10/13 14:17	1
Chloroethane	ND		2.0		ug/L			10/10/13 14:17	1
Chloroform	ND		1.0		ug/L			10/10/13 14:17	1
Chloromethane	ND		2.0		ug/L			10/10/13 14:17	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			10/10/13 14:17	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			10/10/13 14:17	1
Dichlorobromomethane	ND		0.50		ug/L			10/10/13 14:17	1
Dichlorodifluoromethane	ND		1.0		ug/L			10/10/13 14:17	1
Ethyl ether	ND		1.0		ug/L			10/10/13 14:17	1
Ethylbenzene	ND		1.0		ug/L			10/10/13 14:17	1
Ethylene Dibromide	ND		1.0		ug/L			10/10/13 14:17	1
Hexachlorobutadiene	ND		0.40		ug/L			10/10/13 14:17	1
Isopropyl ether	ND		10		ug/L			10/10/13 14:17	1
Isopropylbenzene	ND		1.0		ug/L			10/10/13 14:17	1
Methyl tert-butyl ether	ND		1.0		ug/L			10/10/13 14:17	1
Methylene Chloride	ND		1.0		ug/L			10/10/13 14:17	1
m-Xylene & p-Xylene	ND		2.0		ug/L			10/10/13 14:17	1
Naphthalene	ND		5.0		ug/L			10/10/13 14:17	1

Client Sample ID: MW-1008-20131003-01

Lab Sample ID: 480-47163-3

Date Collected: 10/03/13 09:12

Matrix: Water

Date Received: 10/04/13 01:30

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
n-Butylbenzene	ND		1.0		ug/L			10/10/13 14:17	1
N-Propylbenzene	ND		1.0		ug/L			10/10/13 14:17	1
o-Xylene	ND		1.0		ug/L			10/10/13 14:17	1
sec-Butylbenzene	ND		1.0		ug/L			10/10/13 14:17	1
Styrene	ND		1.0		ug/L			10/10/13 14:17	1
Tert-amyl methyl ether	ND		5.0		ug/L			10/10/13 14:17	1
Tert-butyl ethyl ether	ND		5.0		ug/L			10/10/13 14:17	1
tert-Butylbenzene	ND		1.0		ug/L			10/10/13 14:17	1
Tetrachloroethene	ND		1.0		ug/L			10/10/13 14:17	1
Tetrahydrofuran	ND		10		ug/L			10/10/13 14:17	1
Toluene	ND		1.0		ug/L			10/10/13 14:17	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			10/10/13 14:17	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			10/10/13 14:17	1
Trichloroethene	**3.4**		1.0		ug/L			10/10/13 14:17	1
Trichlorofluoromethane	ND		1.0		ug/L			10/10/13 14:17	1
Vinyl chloride	ND		1.0		ug/L			10/10/13 14:17	1
Dibromomethane	ND		1.0		ug/L			10/10/13 14:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*95*		*70 - 130*		*10/10/13 14:17*	*1*
1,2-Dichloroethane-d4 (Surr)	*88*		*70 - 130*		*10/10/13 14:17*	*1*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*		*10/10/13 14:17*	*1*

Client Sample ID: MW-1025M-20131003-01

Lab Sample ID: 480-47163-4

Date Collected: 10/03/13 10:35

Matrix: Water

Date Received: 10/04/13 01:30

Method: 8260C SIM - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	**6.8**		1.6		ug/L			10/07/13 17:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
TBA-d9 (Surr)	*66*		*50 - 150*		*10/07/13 17:53*	*1*
Dibromofluoromethane (Surr)	*111*		*50 - 150*		*10/07/13 17:53*	*1*

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		2.0		ug/L			10/11/13 00:20	2
1,1,1-Trichloroethane	**3.3**		2.0		ug/L			10/11/13 00:20	2
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			10/11/13 00:20	2
1,1,2-Trichloroethane	ND		2.0		ug/L			10/11/13 00:20	2
1,1-Dichloroethane	**2.3**		2.0		ug/L			10/11/13 00:20	2
1,1-Dichloroethene	**9.2**		2.0		ug/L			10/11/13 00:20	2
1,1-Dichloropropene	ND		2.0		ug/L			10/11/13 00:20	2
1,2,3-Trichlorobenzene	ND		2.0		ug/L			10/11/13 00:20	2
1,2,3-Trichloropropane	ND		2.0		ug/L			10/11/13 00:20	2
1,2,4-Trichlorobenzene	ND		2.0		ug/L			10/11/13 00:20	2
1,2,4-Trimethylbenzene	ND		2.0		ug/L			10/11/13 00:20	2
1,2-Dibromo-3-Chloropropane	ND		10		ug/L			10/11/13 00:20	2
1,2-Dichlorobenzene	ND		2.0		ug/L			10/11/13 00:20	2

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-47163-1

Client Sample ID: MW-1025M-20131003-01
Date Collected: 10/03/13 10:35
Date Received: 10/04/13 01:30

Lab Sample ID: 480-47163-4
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	ND		2.0		ug/L			10/11/13 00:20	2
1,2-Dichloropropane	ND		2.0		ug/L			10/11/13 00:20	2
1,3,5-Trimethylbenzene	ND		2.0		ug/L			10/11/13 00:20	2
1,3-Dichlorobenzene	ND		2.0		ug/L			10/11/13 00:20	2
1,3-Dichloropropane	ND		2.0		ug/L			10/11/13 00:20	2
1,4-Dichlorobenzene	ND		2.0		ug/L			10/11/13 00:20	2
1,4-Dioxane	ND		100		ug/L			10/11/13 00:20	2
2,2-Dichloropropane	ND		2.0		ug/L			10/11/13 00:20	2
2-Butanone (MEK)	ND		20		ug/L			10/11/13 00:20	2
2-Chlorotoluene	ND		2.0		ug/L			10/11/13 00:20	2
2-Hexanone	ND		20		ug/L			10/11/13 00:20	2
4-Chlorotoluene	ND		2.0		ug/L			10/11/13 00:20	2
4-Isopropyltoluene	ND		2.0		ug/L			10/11/13 00:20	2
4-Methyl-2-pentanone (MIBK)	ND		20		ug/L			10/11/13 00:20	2
Acetone	ND		100		ug/L			10/11/13 00:20	2
Benzene	ND		2.0		ug/L			10/11/13 00:20	2
Bromobenzene	ND		2.0		ug/L			10/11/13 00:20	2
Bromoform	ND		2.0		ug/L			10/11/13 00:20	2
Bromomethane	ND		4.0		ug/L			10/11/13 00:20	2
Carbon disulfide	ND		20		ug/L			10/11/13 00:20	2
Carbon tetrachloride	ND		2.0		ug/L			10/11/13 00:20	2
Chlorobenzene	ND		2.0		ug/L			10/11/13 00:20	2
Chlorobromomethane	ND		2.0		ug/L			10/11/13 00:20	2
Chlorodibromomethane	ND		1.0		ug/L			10/11/13 00:20	2
Chloroethane	ND		4.0		ug/L			10/11/13 00:20	2
Chloroform	ND		2.0		ug/L			10/11/13 00:20	2
Chloromethane	ND		4.0		ug/L			10/11/13 00:20	2
cis-1,2-Dichloroethene	ND		2.0		ug/L			10/11/13 00:20	2
cis-1,3-Dichloropropene	ND		0.80		ug/L			10/11/13 00:20	2
Dichlorobromomethane	ND		1.0		ug/L			10/11/13 00:20	2
Dichlorodifluoromethane	ND		2.0		ug/L			10/11/13 00:20	2
Ethyl ether	ND		2.0		ug/L			10/11/13 00:20	2
Ethylbenzene	ND		2.0		ug/L			10/11/13 00:20	2
Ethylene Dibromide	ND		2.0		ug/L			10/11/13 00:20	2
Hexachlorobutadiene	ND		0.80		ug/L			10/11/13 00:20	2
Isopropyl ether	ND		20		ug/L			10/11/13 00:20	2
Isopropylbenzene	ND		2.0		ug/L			10/11/13 00:20	2
Methyl tert-butyl ether	**12**		2.0		ug/L			10/11/13 00:20	2
Methylene Chloride	ND		2.0		ug/L			10/11/13 00:20	2
m-Xylene & p-Xylene	ND		4.0		ug/L			10/11/13 00:20	2
Naphthalene	ND		10		ug/L			10/11/13 00:20	2
n-Butylbenzene	ND		2.0		ug/L			10/11/13 00:20	2
N-Propylbenzene	ND		2.0		ug/L			10/11/13 00:20	2
o-Xylene	ND		2.0		ug/L			10/11/13 00:20	2
sec-Butylbenzene	ND		2.0		ug/L			10/11/13 00:20	2
Styrene	ND		2.0		ug/L			10/11/13 00:20	2
Tert-amyl methyl ether	ND		10		ug/L			10/11/13 00:20	2
Tert-butyl ethyl ether	ND		10		ug/L			10/11/13 00:20	2
tert-Butylbenzene	ND		2.0		ug/L			10/11/13 00:20	2

Client Sample ID: MW-1025M-20131003-01

Lab Sample ID: 480-47163-4

Date Collected: 10/03/13 10:35

Matrix: Water

Date Received: 10/04/13 01:30

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	ND		2.0		ug/L			10/11/13 00:20	2
Tetrahydrofuran	ND		20		ug/L			10/11/13 00:20	2
Toluene	ND		2.0		ug/L			10/11/13 00:20	2
trans-1,2-Dichloroethene	ND		2.0		ug/L			10/11/13 00:20	2
trans-1,3-Dichloropropene	ND		0.80		ug/L			10/11/13 00:20	2
Trichloroethene	**130**		2.0		ug/L			10/11/13 00:20	2
Trichlorofluoromethane	ND		2.0		ug/L			10/11/13 00:20	2
Vinyl chloride	ND		2.0		ug/L			10/11/13 00:20	2
Dibromomethane	ND		2.0		ug/L			10/11/13 00:20	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*96*		*70 - 130*		*10/11/13 00:20*	*2*
1,2-Dichloroethane-d4 (Surr)	*88*		*70 - 130*		*10/11/13 00:20*	*2*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*		*10/11/13 00:20*	*2*

Client Sample ID: MW-1016D-20131003-01

Lab Sample ID: 480-47163-5

Date Collected: 10/03/13 12:45

Matrix: Water

Date Received: 10/04/13 01:30

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			10/10/13 15:05	1
1,1,1-Trichloroethane	ND		1.0		ug/L			10/10/13 15:05	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			10/10/13 15:05	1
1,1,2-Trichloroethane	ND		1.0		ug/L			10/10/13 15:05	1
1,1-Dichloroethane	ND		1.0		ug/L			10/10/13 15:05	1
1,1-Dichloroethene	**2.2**		1.0		ug/L			10/10/13 15:05	1
1,1-Dichloropropene	ND		1.0		ug/L			10/10/13 15:05	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			10/10/13 15:05	1
1,2,3-Trichloropropane	ND		1.0		ug/L			10/10/13 15:05	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			10/10/13 15:05	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			10/10/13 15:05	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			10/10/13 15:05	1
1,2-Dichlorobenzene	ND		1.0		ug/L			10/10/13 15:05	1
1,2-Dichloroethane	ND		1.0		ug/L			10/10/13 15:05	1
1,2-Dichloropropane	ND		1.0		ug/L			10/10/13 15:05	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			10/10/13 15:05	1
1,3-Dichlorobenzene	ND		1.0		ug/L			10/10/13 15:05	1
1,3-Dichloropropane	ND		1.0		ug/L			10/10/13 15:05	1
1,4-Dichlorobenzene	ND		1.0		ug/L			10/10/13 15:05	1
1,4-Dioxane	ND		50		ug/L			10/10/13 15:05	1
2,2-Dichloropropane	ND		1.0		ug/L			10/10/13 15:05	1
2-Butanone (MEK)	ND		10		ug/L			10/10/13 15:05	1
2-Chlorotoluene	ND		1.0		ug/L			10/10/13 15:05	1
2-Hexanone	ND		10		ug/L			10/10/13 15:05	1
4-Chlorotoluene	ND		1.0		ug/L			10/10/13 15:05	1
4-Isopropyltoluene	ND		1.0		ug/L			10/10/13 15:05	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			10/10/13 15:05	1
Acetone	ND		50		ug/L			10/10/13 15:05	1
Benzene	ND		1.0		ug/L			10/10/13 15:05	1

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-47163-1

Client Sample ID: MW-1016D-20131003-01
Date Collected: 10/03/13 12:45
Date Received: 10/04/13 01:30

Lab Sample ID: 480-47163-5
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromobenzene	ND		1.0		ug/L			10/10/13 15:05	1
Bromoform	ND		1.0		ug/L			10/10/13 15:05	1
Bromomethane	ND		2.0		ug/L			10/10/13 15:05	1
Carbon disulfide	ND		10		ug/L			10/10/13 15:05	1
Carbon tetrachloride	ND		1.0		ug/L			10/10/13 15:05	1
Chlorobenzene	ND		1.0		ug/L			10/10/13 15:05	1
Chlorobromomethane	ND		1.0		ug/L			10/10/13 15:05	1
Chlorodibromomethane	ND		0.50		ug/L			10/10/13 15:05	1
Chloroethane	ND		2.0		ug/L			10/10/13 15:05	1
Chloroform	ND		1.0		ug/L			10/10/13 15:05	1
Chloromethane	ND		2.0		ug/L			10/10/13 15:05	1
cis-1,2-Dichloroethene	**18**		1.0		ug/L			10/10/13 15:05	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			10/10/13 15:05	1
Dichlorobromomethane	ND		0.50		ug/L			10/10/13 15:05	1
Dichlorodifluoromethane	ND		1.0		ug/L			10/10/13 15:05	1
Ethyl ether	ND		1.0		ug/L			10/10/13 15:05	1
Ethylbenzene	ND		1.0		ug/L			10/10/13 15:05	1
Ethylene Dibromide	ND		1.0		ug/L			10/10/13 15:05	1
Hexachlorobutadiene	ND		0.40		ug/L			10/10/13 15:05	1
Isopropyl ether	ND		10		ug/L			10/10/13 15:05	1
Isopropylbenzene	ND		1.0		ug/L			10/10/13 15:05	1
Methyl tert-butyl ether	ND		1.0		ug/L			10/10/13 15:05	1
Methylene Chloride	ND		1.0		ug/L			10/10/13 15:05	1
m-Xylene & p-Xylene	ND		2.0		ug/L			10/10/13 15:05	1
Naphthalene	ND		5.0		ug/L			10/10/13 15:05	1
n-Butylbenzene	ND		1.0		ug/L			10/10/13 15:05	1
N-Propylbenzene	ND		1.0		ug/L			10/10/13 15:05	1
o-Xylene	ND		1.0		ug/L			10/10/13 15:05	1
sec-Butylbenzene	ND		1.0		ug/L			10/10/13 15:05	1
Styrene	ND		1.0		ug/L			10/10/13 15:05	1
Tert-amyl methyl ether	ND		5.0		ug/L			10/10/13 15:05	1
Tert-butyl ethyl ether	ND		5.0		ug/L			10/10/13 15:05	1
tert-Butylbenzene	ND		1.0		ug/L			10/10/13 15:05	1
Tetrachloroethene	**1.4**		1.0		ug/L			10/10/13 15:05	1
Tetrahydrofuran	ND		10		ug/L			10/10/13 15:05	1
Toluene	ND		1.0		ug/L			10/10/13 15:05	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			10/10/13 15:05	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			10/10/13 15:05	1
Trichloroethene	**35**		1.0		ug/L			10/10/13 15:05	1
Trichlorofluoromethane	ND		1.0		ug/L			10/10/13 15:05	1
Vinyl chloride	ND		1.0		ug/L			10/10/13 15:05	1
Dibromomethane	ND		1.0		ug/L			10/10/13 15:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*93*		*70 - 130*		*10/10/13 15:05*	*1*
1,2-Dichloroethane-d4 (Surr)	*87*		*70 - 130*		*10/10/13 15:05*	*1*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*		*10/10/13 15:05*	*1*

Client Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-47163-1

Client Sample ID: TB-003-20131003-01

Lab Sample ID: 480-47163-6

Date Collected: 10/03/13 00:00
Matrix: Water
Date Received: 10/04/13 01:30

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			10/10/13 15:29	1
1,1,1-Trichloroethane	ND		1.0		ug/L			10/10/13 15:29	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			10/10/13 15:29	1
1,1,2-Trichloroethane	ND		1.0		ug/L			10/10/13 15:29	1
1,1-Dichloroethane	ND		1.0		ug/L			10/10/13 15:29	1
1,1-Dichloroethene	ND		1.0		ug/L			10/10/13 15:29	1
1,1-Dichloropropene	ND		1.0		ug/L			10/10/13 15:29	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			10/10/13 15:29	1
1,2,3-Trichloropropane	ND		1.0		ug/L			10/10/13 15:29	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			10/10/13 15:29	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			10/10/13 15:29	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			10/10/13 15:29	1
1,2-Dichlorobenzene	ND		1.0		ug/L			10/10/13 15:29	1
1,2-Dichloroethane	ND		1.0		ug/L			10/10/13 15:29	1
1,2-Dichloropropane	ND		1.0		ug/L			10/10/13 15:29	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			10/10/13 15:29	1
1,3-Dichlorobenzene	ND		1.0		ug/L			10/10/13 15:29	1
1,3-Dichloropropane	ND		1.0		ug/L			10/10/13 15:29	1
1,4-Dichlorobenzene	ND		1.0		ug/L			10/10/13 15:29	1
1,4-Dioxane	ND		50		ug/L			10/10/13 15:29	1
2,2-Dichloropropane	ND		1.0		ug/L			10/10/13 15:29	1
2-Butanone (MEK)	ND		10		ug/L			10/10/13 15:29	1
2-Chlorotoluene	ND		1.0		ug/L			10/10/13 15:29	1
2-Hexanone	ND		10		ug/L			10/10/13 15:29	1
4-Chlorotoluene	ND		1.0		ug/L			10/10/13 15:29	1
4-Isopropyltoluene	ND		1.0		ug/L			10/10/13 15:29	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			10/10/13 15:29	1
Acetone	ND		50		ug/L			10/10/13 15:29	1
Benzene	ND		1.0		ug/L			10/10/13 15:29	1
Bromobenzene	ND		1.0		ug/L			10/10/13 15:29	1
Bromoform	ND		1.0		ug/L			10/10/13 15:29	1
Bromomethane	ND		2.0		ug/L			10/10/13 15:29	1
Carbon disulfide	ND		10		ug/L			10/10/13 15:29	1
Carbon tetrachloride	ND		1.0		ug/L			10/10/13 15:29	1
Chlorobenzene	ND		1.0		ug/L			10/10/13 15:29	1
Chlorobromomethane	ND		1.0		ug/L			10/10/13 15:29	1
Chlorodibromomethane	ND		0.50		ug/L			10/10/13 15:29	1
Chloroethane	ND		2.0		ug/L			10/10/13 15:29	1
Chloroform	ND		1.0		ug/L			10/10/13 15:29	1
Chloromethane	ND		2.0		ug/L			10/10/13 15:29	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			10/10/13 15:29	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			10/10/13 15:29	1
Dichlorobromomethane	ND		0.50		ug/L			10/10/13 15:29	1
Dichlorodifluoromethane	ND		1.0		ug/L			10/10/13 15:29	1
Ethyl ether	ND		1.0		ug/L			10/10/13 15:29	1
Ethylbenzene	ND		1.0		ug/L			10/10/13 15:29	1
Ethylene Dibromide	ND		1.0		ug/L			10/10/13 15:29	1
Hexachlorobutadiene	ND		0.40		ug/L			10/10/13 15:29	1
Isopropyl ether	ND		10		ug/L			10/10/13 15:29	1

Client Sample ID: TB-003-20131003-01

Lab Sample ID: 480-47163-6

Date Collected: 10/03/13 00:00

Matrix: Water

Date Received: 10/04/13 01:30

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	ND		1.0		ug/L			10/10/13 15:29	1
Methyl tert-butyl ether	ND		1.0		ug/L			10/10/13 15:29	1
Methylene Chloride	ND		1.0		ug/L			10/10/13 15:29	1
m-Xylene & p-Xylene	ND		2.0		ug/L			10/10/13 15:29	1
Naphthalene	ND		5.0		ug/L			10/10/13 15:29	1
n-Butylbenzene	ND		1.0		ug/L			10/10/13 15:29	1
N-Propylbenzene	ND		1.0		ug/L			10/10/13 15:29	1
o-Xylene	ND		1.0		ug/L			10/10/13 15:29	1
sec-Butylbenzene	ND		1.0		ug/L			10/10/13 15:29	1
Styrene	ND		1.0		ug/L			10/10/13 15:29	1
Tert-amyl methyl ether	ND		5.0		ug/L			10/10/13 15:29	1
Tert-butyl ethyl ether	ND		5.0		ug/L			10/10/13 15:29	1
tert-Butylbenzene	ND		1.0		ug/L			10/10/13 15:29	1
Tetrachloroethene	ND		1.0		ug/L			10/10/13 15:29	1
Tetrahydrofuran	ND		10		ug/L			10/10/13 15:29	1
Toluene	ND		1.0		ug/L			10/10/13 15:29	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			10/10/13 15:29	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			10/10/13 15:29	1
Trichloroethene	ND		1.0		ug/L			10/10/13 15:29	1
Trichlorofluoromethane	ND		1.0		ug/L			10/10/13 15:29	1
Vinyl chloride	ND		1.0		ug/L			10/10/13 15:29	1
Dibromomethane	ND		1.0		ug/L			10/10/13 15:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*94*		*70 - 130*		*10/10/13 15:29*	*1*
1,2-Dichloroethane-d4 (Surr)	*92*		*70 - 130*		*10/10/13 15:29*	*1*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*		*10/10/13 15:29*	*1*

Client Sample ID: MW-1014-20131003-01

Lab Sample ID: 480-47163-7

Date Collected: 10/03/13 14:40

Matrix: Water

Date Received: 10/04/13 01:30

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			10/10/13 15:52	1
1,1,1-Trichloroethane	ND		1.0		ug/L			10/10/13 15:52	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			10/10/13 15:52	1
1,1,2-Trichloroethane	ND		1.0		ug/L			10/10/13 15:52	1
1,1-Dichloroethane	ND		1.0		ug/L			10/10/13 15:52	1
1,1-Dichloroethene	ND		1.0		ug/L			10/10/13 15:52	1
1,1-Dichloropropene	ND		1.0		ug/L			10/10/13 15:52	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			10/10/13 15:52	1
1,2,3-Trichloropropane	ND		1.0		ug/L			10/10/13 15:52	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			10/10/13 15:52	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			10/10/13 15:52	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			10/10/13 15:52	1
1,2-Dichlorobenzene	ND		1.0		ug/L			10/10/13 15:52	1
1,2-Dichloroethane	ND		1.0		ug/L			10/10/13 15:52	1
1,2-Dichloropropane	ND		1.0		ug/L			10/10/13 15:52	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			10/10/13 15:52	1

Client Sample ID: MW-1014-20131003-01
Date Collected: 10/03/13 14:40
Date Received: 10/04/13 01:30

Lab Sample ID: 480-47163-7
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	ND		1.0		ug/L			10/10/13 15:52	1
1,3-Dichloropropane	ND		1.0		ug/L			10/10/13 15:52	1
1,4-Dichlorobenzene	ND		1.0		ug/L			10/10/13 15:52	1
1,4-Dioxane	ND		50		ug/L			10/10/13 15:52	1
2,2-Dichloropropane	ND		1.0		ug/L			10/10/13 15:52	1
2-Butanone (MEK)	ND		10		ug/L			10/10/13 15:52	1
2-Chlorotoluene	ND		1.0		ug/L			10/10/13 15:52	1
2-Hexanone	ND		10		ug/L			10/10/13 15:52	1
4-Chlorotoluene	ND		1.0		ug/L			10/10/13 15:52	1
4-Isopropyltoluene	ND		1.0		ug/L			10/10/13 15:52	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			10/10/13 15:52	1
Acetone	ND		50		ug/L			10/10/13 15:52	1
Benzene	ND		1.0		ug/L			10/10/13 15:52	1
Bromobenzene	ND		1.0		ug/L			10/10/13 15:52	1
Bromoform	ND		1.0		ug/L			10/10/13 15:52	1
Bromomethane	ND		2.0		ug/L			10/10/13 15:52	1
Carbon disulfide	ND		10		ug/L			10/10/13 15:52	1
Carbon tetrachloride	ND		1.0		ug/L			10/10/13 15:52	1
Chlorobenzene	ND		1.0		ug/L			10/10/13 15:52	1
Chlorobromomethane	ND		1.0		ug/L			10/10/13 15:52	1
Chlorodibromomethane	ND		0.50		ug/L			10/10/13 15:52	1
Chloroethane	ND		2.0		ug/L			10/10/13 15:52	1
Chloroform	ND		1.0		ug/L			10/10/13 15:52	1
Chloromethane	ND		2.0		ug/L			10/10/13 15:52	1
cis-1,2-Dichloroethene	**1.4**		1.0		ug/L			10/10/13 15:52	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			10/10/13 15:52	1
Dichlorobromomethane	ND		0.50		ug/L			10/10/13 15:52	1
Dichlorodifluoromethane	ND		1.0		ug/L			10/10/13 15:52	1
Ethyl ether	ND		1.0		ug/L			10/10/13 15:52	1
Ethylbenzene	ND		1.0		ug/L			10/10/13 15:52	1
Ethylene Dibromide	ND		1.0		ug/L			10/10/13 15:52	1
Hexachlorobutadiene	ND		0.40		ug/L			10/10/13 15:52	1
Isopropyl ether	ND		10		ug/L			10/10/13 15:52	1
Isopropylbenzene	ND		1.0		ug/L			10/10/13 15:52	1
Methyl tert-butyl ether	ND		1.0		ug/L			10/10/13 15:52	1
Methylene Chloride	ND		1.0		ug/L			10/10/13 15:52	1
m-Xylene & p-Xylene	ND		2.0		ug/L			10/10/13 15:52	1
Naphthalene	ND		5.0		ug/L			10/10/13 15:52	1
n-Butylbenzene	ND		1.0		ug/L			10/10/13 15:52	1
N-Propylbenzene	ND		1.0		ug/L			10/10/13 15:52	1
o-Xylene	ND		1.0		ug/L			10/10/13 15:52	1
sec-Butylbenzene	ND		1.0		ug/L			10/10/13 15:52	1
Styrene	ND		1.0		ug/L			10/10/13 15:52	1
Tert-amyl methyl ether	ND		5.0		ug/L			10/10/13 15:52	1
Tert-butyl ethyl ether	ND		5.0		ug/L			10/10/13 15:52	1
tert-Butylbenzene	ND		1.0		ug/L			10/10/13 15:52	1
Tetrachloroethene	ND		1.0		ug/L			10/10/13 15:52	1
Tetrahydrofuran	ND		10		ug/L			10/10/13 15:52	1
Toluene	ND		1.0		ug/L			10/10/13 15:52	1

Client Sample ID: MW-1014-20131003-01

Lab Sample ID: 480-47163-7

Date Collected: 10/03/13 14:40

Matrix: Water

Date Received: 10/04/13 01:30

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	ND		1.0		ug/L			10/10/13 15:52	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			10/10/13 15:52	1
Trichloroethene	**21**		1.0		ug/L			10/10/13 15:52	1
Trichlorofluoromethane	ND		1.0		ug/L			10/10/13 15:52	1
Vinyl chloride	ND		1.0		ug/L			10/10/13 15:52	1
Dibromomethane	ND		1.0		ug/L			10/10/13 15:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*93*		*70 - 130*		*10/10/13 15:52*	*1*
1,2-Dichloroethane-d4 (Surr)	*91*		*70 - 130*		*10/10/13 15:52*	*1*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*		*10/10/13 15:52*	*1*

Client Sample ID: MW-1013-20131003-01

Lab Sample ID: 480-47163-8

Date Collected: 10/03/13 14:35

Matrix: Water

Date Received: 10/04/13 01:30

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			10/10/13 16:16	1
1,1,1-Trichloroethane	ND		1.0		ug/L			10/10/13 16:16	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			10/10/13 16:16	1
1,1,2-Trichloroethane	ND		1.0		ug/L			10/10/13 16:16	1
1,1-Dichloroethane	ND		1.0		ug/L			10/10/13 16:16	1
1,1-Dichloroethene	ND		1.0		ug/L			10/10/13 16:16	1
1,1-Dichloropropene	ND		1.0		ug/L			10/10/13 16:16	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			10/10/13 16:16	1
1,2,3-Trichloropropane	ND		1.0		ug/L			10/10/13 16:16	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			10/10/13 16:16	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			10/10/13 16:16	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			10/10/13 16:16	1
1,2-Dichlorobenzene	ND		1.0		ug/L			10/10/13 16:16	1
1,2-Dichloroethane	ND		1.0		ug/L			10/10/13 16:16	1
1,2-Dichloropropane	ND		1.0		ug/L			10/10/13 16:16	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			10/10/13 16:16	1
1,3-Dichlorobenzene	ND		1.0		ug/L			10/10/13 16:16	1
1,3-Dichloropropane	ND		1.0		ug/L			10/10/13 16:16	1
1,4-Dichlorobenzene	ND		1.0		ug/L			10/10/13 16:16	1
1,4-Dioxane	ND		50		ug/L			10/10/13 16:16	1
2,2-Dichloropropane	ND		1.0		ug/L			10/10/13 16:16	1
2-Butanone (MEK)	ND		10		ug/L			10/10/13 16:16	1
2-Chlorotoluene	ND		1.0		ug/L			10/10/13 16:16	1
2-Hexanone	ND		10		ug/L			10/10/13 16:16	1
4-Chlorotoluene	ND		1.0		ug/L			10/10/13 16:16	1
4-Isopropyltoluene	ND		1.0		ug/L			10/10/13 16:16	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			10/10/13 16:16	1
Acetone	ND		50		ug/L			10/10/13 16:16	1
Benzene	ND		1.0		ug/L			10/10/13 16:16	1
Bromobenzene	ND		1.0		ug/L			10/10/13 16:16	1
Bromoform	ND		1.0		ug/L			10/10/13 16:16	1
Bromomethane	ND		2.0		ug/L			10/10/13 16:16	1

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-47163-1

Client Sample ID: MW-1013-20131003-01
Date Collected: 10/03/13 14:35
Date Received: 10/04/13 01:30

Lab Sample ID: 480-47163-8
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	ND		10		ug/L			10/10/13 16:16	1
Carbon tetrachloride	ND		1.0		ug/L			10/10/13 16:16	1
Chlorobenzene	ND		1.0		ug/L			10/10/13 16:16	1
Chlorobromomethane	ND		1.0		ug/L			10/10/13 16:16	1
Chlorodibromomethane	ND		0.50		ug/L			10/10/13 16:16	1
Chloroethane	ND		2.0		ug/L			10/10/13 16:16	1
Chloroform	ND		1.0		ug/L			10/10/13 16:16	1
Chloromethane	ND		2.0		ug/L			10/10/13 16:16	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			10/10/13 16:16	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			10/10/13 16:16	1
Dichlorobromomethane	ND		0.50		ug/L			10/10/13 16:16	1
Dichlorodifluoromethane	ND		1.0		ug/L			10/10/13 16:16	1
Ethyl ether	ND		1.0		ug/L			10/10/13 16:16	1
Ethylbenzene	ND		1.0		ug/L			10/10/13 16:16	1
Ethylene Dibromide	ND		1.0		ug/L			10/10/13 16:16	1
Hexachlorobutadiene	ND		0.40		ug/L			10/10/13 16:16	1
Isopropyl ether	ND		10		ug/L			10/10/13 16:16	1
Isopropylbenzene	ND		1.0		ug/L			10/10/13 16:16	1
Methyl tert-butyl ether	ND		1.0		ug/L			10/10/13 16:16	1
Methylene Chloride	ND		1.0		ug/L			10/10/13 16:16	1
m-Xylene & p-Xylene	ND		2.0		ug/L			10/10/13 16:16	1
Naphthalene	ND		5.0		ug/L			10/10/13 16:16	1
n-Butylbenzene	ND		1.0		ug/L			10/10/13 16:16	1
N-Propylbenzene	ND		1.0		ug/L			10/10/13 16:16	1
o-Xylene	ND		1.0		ug/L			10/10/13 16:16	1
sec-Butylbenzene	ND		1.0		ug/L			10/10/13 16:16	1
Styrene	ND		1.0		ug/L			10/10/13 16:16	1
Tert-amyl methyl ether	ND		5.0		ug/L			10/10/13 16:16	1
Tert-butyl ethyl ether	ND		5.0		ug/L			10/10/13 16:16	1
tert-Butylbenzene	ND		1.0		ug/L			10/10/13 16:16	1
Tetrachloroethene	ND		1.0		ug/L			10/10/13 16:16	1
Tetrahydrofuran	ND		10		ug/L			10/10/13 16:16	1
Toluene	ND		1.0		ug/L			10/10/13 16:16	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			10/10/13 16:16	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			10/10/13 16:16	1
Trichloroethene	ND		1.0		ug/L			10/10/13 16:16	1
Trichlorofluoromethane	ND		1.0		ug/L			10/10/13 16:16	1
Vinyl chloride	ND		1.0		ug/L			10/10/13 16:16	1
Dibromomethane	ND		1.0		ug/L			10/10/13 16:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*95*		*70 - 130*		*10/10/13 16:16*	*1*
1,2-Dichloroethane-d4 (Surr)	*90*		*70 - 130*		*10/10/13 16:16*	*1*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*		*10/10/13 16:16*	*1*

Client Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-47163-1

Client Sample ID: MW-1033-20131003-01

Lab Sample ID: 480-47163-9

Date Collected: 10/03/13 13:10
Matrix: Water
Date Received: 10/04/13 01:30

Method: 8260C SIM - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.3		1.6		ug/L			10/07/13 18:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
TBA-d9 (Surr)	*77*		*50 - 150*		*10/07/13 18:17*	*1*
Dibromofluoromethane (Surr)	*108*		*50 - 150*		*10/07/13 18:17*	*1*

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			10/10/13 16:39	1
1,1,1-Trichloroethane	ND		1.0		ug/L			10/10/13 16:39	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			10/10/13 16:39	1
1,1,2-Trichloroethane	ND		1.0		ug/L			10/10/13 16:39	1
1,1-Dichloroethane	ND		1.0		ug/L			10/10/13 16:39	1
1,1-Dichloroethene	ND		1.0		ug/L			10/10/13 16:39	1
1,1-Dichloropropene	ND		1.0		ug/L			10/10/13 16:39	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			10/10/13 16:39	1
1,2,3-Trichloropropane	ND		1.0		ug/L			10/10/13 16:39	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			10/10/13 16:39	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			10/10/13 16:39	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			10/10/13 16:39	1
1,2-Dichlorobenzene	ND		1.0		ug/L			10/10/13 16:39	1
1,2-Dichloroethane	ND		1.0		ug/L			10/10/13 16:39	1
1,2-Dichloropropane	ND		1.0		ug/L			10/10/13 16:39	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			10/10/13 16:39	1
1,3-Dichlorobenzene	ND		1.0		ug/L			10/10/13 16:39	1
1,3-Dichloropropane	ND		1.0		ug/L			10/10/13 16:39	1
1,4-Dichlorobenzene	ND		1.0		ug/L			10/10/13 16:39	1
1,4-Dioxane	ND		50		ug/L			10/10/13 16:39	1
2,2-Dichloropropane	ND		1.0		ug/L			10/10/13 16:39	1
2-Butanone (MEK)	ND		10		ug/L			10/10/13 16:39	1
2-Chlorotoluene	ND		1.0		ug/L			10/10/13 16:39	1
2-Hexanone	ND		10		ug/L			10/10/13 16:39	1
4-Chlorotoluene	ND		1.0		ug/L			10/10/13 16:39	1
4-Isopropyltoluene	ND		1.0		ug/L			10/10/13 16:39	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			10/10/13 16:39	1
Acetone	ND		50		ug/L			10/10/13 16:39	1
Benzene	ND		1.0		ug/L			10/10/13 16:39	1
Bromobenzene	ND		1.0		ug/L			10/10/13 16:39	1
Bromoform	ND		1.0		ug/L			10/10/13 16:39	1
Bromomethane	ND		2.0		ug/L			10/10/13 16:39	1
Carbon disulfide	ND		10		ug/L			10/10/13 16:39	1
Carbon tetrachloride	ND		1.0		ug/L			10/10/13 16:39	1
Chlorobenzene	ND		1.0		ug/L			10/10/13 16:39	1
Chlorobromomethane	ND		1.0		ug/L			10/10/13 16:39	1
Chlorodibromomethane	ND		0.50		ug/L			10/10/13 16:39	1
Chloroethane	ND		2.0		ug/L			10/10/13 16:39	1
Chloroform	ND		1.0		ug/L			10/10/13 16:39	1
Chloromethane	ND		2.0		ug/L			10/10/13 16:39	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			10/10/13 16:39	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			10/10/13 16:39	1

Client Sample ID: MW-1033-20131003-01

Lab Sample ID: 480-47163-9

Date Collected: 10/03/13 13:10

Matrix: Water

Date Received: 10/04/13 01:30

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorobromomethane	ND		0.50		ug/L			10/10/13 16:39	1
Dichlorodifluoromethane	ND		1.0		ug/L			10/10/13 16:39	1
Ethyl ether	ND		1.0		ug/L			10/10/13 16:39	1
Ethylbenzene	ND		1.0		ug/L			10/10/13 16:39	1
Ethylene Dibromide	ND		1.0		ug/L			10/10/13 16:39	1
Hexachlorobutadiene	ND		0.40		ug/L			10/10/13 16:39	1
Isopropyl ether	ND		10		ug/L			10/10/13 16:39	1
Isopropylbenzene	ND		1.0		ug/L			10/10/13 16:39	1
Methyl tert-butyl ether	ND		1.0		ug/L			10/10/13 16:39	1
Methylene Chloride	ND		1.0		ug/L			10/10/13 16:39	1
m-Xylene & p-Xylene	ND		2.0		ug/L			10/10/13 16:39	1
Naphthalene	ND		5.0		ug/L			10/10/13 16:39	1
n-Butylbenzene	ND		1.0		ug/L			10/10/13 16:39	1
N-Propylbenzene	ND		1.0		ug/L			10/10/13 16:39	1
o-Xylene	ND		1.0		ug/L			10/10/13 16:39	1
sec-Butylbenzene	ND		1.0		ug/L			10/10/13 16:39	1
Styrene	ND		1.0		ug/L			10/10/13 16:39	1
Tert-amyl methyl ether	ND		5.0		ug/L			10/10/13 16:39	1
Tert-butyl ethyl ether	ND		5.0		ug/L			10/10/13 16:39	1
tert-Butylbenzene	ND		1.0		ug/L			10/10/13 16:39	1
Tetrachloroethene	ND		1.0		ug/L			10/10/13 16:39	1
Tetrahydrofuran	ND		10		ug/L			10/10/13 16:39	1
Toluene	ND		1.0		ug/L			10/10/13 16:39	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			10/10/13 16:39	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			10/10/13 16:39	1
Trichloroethene	**5.3**		1.0		ug/L			10/10/13 16:39	1
Trichlorofluoromethane	ND		1.0		ug/L			10/10/13 16:39	1
Vinyl chloride	ND		1.0		ug/L			10/10/13 16:39	1
Dibromomethane	ND		1.0		ug/L			10/10/13 16:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*95*		*70 - 130*		*10/10/13 16:39*	*1*
1,2-Dichloroethane-d4 (Surr)	*89*		*70 - 130*		*10/10/13 16:39*	*1*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*		*10/10/13 16:39*	*1*

Client Sample ID: MW-1003-20131003-01

Lab Sample ID: 480-47163-10

Date Collected: 10/03/13 15:10

Matrix: Water

Date Received: 10/04/13 01:30

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			10/10/13 17:03	1
1,1,1-Trichloroethane	ND		1.0		ug/L			10/10/13 17:03	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			10/10/13 17:03	1
1,1,2-Trichloroethane	ND		1.0		ug/L			10/10/13 17:03	1
1,1-Dichloroethane	ND		1.0		ug/L			10/10/13 17:03	1
1,1-Dichloroethene	ND		1.0		ug/L			10/10/13 17:03	1
1,1-Dichloropropene	ND		1.0		ug/L			10/10/13 17:03	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			10/10/13 17:03	1
1,2,3-Trichloropropane	ND		1.0		ug/L			10/10/13 17:03	1

Client Sample ID: MW-1003-20131003-01
Date Collected: 10/03/13 15:10
Date Received: 10/04/13 01:30

Lab Sample ID: 480-47163-10
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		1.0		ug/L			10/10/13 17:03	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			10/10/13 17:03	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			10/10/13 17:03	1
1,2-Dichlorobenzene	ND		1.0		ug/L			10/10/13 17:03	1
1,2-Dichloroethane	ND		1.0		ug/L			10/10/13 17:03	1
1,2-Dichloropropane	ND		1.0		ug/L			10/10/13 17:03	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			10/10/13 17:03	1
1,3-Dichlorobenzene	ND		1.0		ug/L			10/10/13 17:03	1
1,3-Dichloropropane	ND		1.0		ug/L			10/10/13 17:03	1
1,4-Dichlorobenzene	ND		1.0		ug/L			10/10/13 17:03	1
1,4-Dioxane	ND		50		ug/L			10/10/13 17:03	1
2,2-Dichloropropane	ND		1.0		ug/L			10/10/13 17:03	1
2-Butanone (MEK)	ND		10		ug/L			10/10/13 17:03	1
2-Chlorotoluene	ND		1.0		ug/L			10/10/13 17:03	1
2-Hexanone	ND		10		ug/L			10/10/13 17:03	1
4-Chlorotoluene	ND		1.0		ug/L			10/10/13 17:03	1
4-Isopropyltoluene	ND		1.0		ug/L			10/10/13 17:03	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			10/10/13 17:03	1
Acetone	ND		50		ug/L			10/10/13 17:03	1
Benzene	ND		1.0		ug/L			10/10/13 17:03	1
Bromobenzene	ND		1.0		ug/L			10/10/13 17:03	1
Bromoform	ND		1.0		ug/L			10/10/13 17:03	1
Bromomethane	ND		2.0		ug/L			10/10/13 17:03	1
Carbon disulfide	ND		10		ug/L			10/10/13 17:03	1
Carbon tetrachloride	ND		1.0		ug/L			10/10/13 17:03	1
Chlorobenzene	ND		1.0		ug/L			10/10/13 17:03	1
Chlorobromomethane	ND		1.0		ug/L			10/10/13 17:03	1
Chlorodibromomethane	ND		0.50		ug/L			10/10/13 17:03	1
Chloroethane	ND		2.0		ug/L			10/10/13 17:03	1
Chloroform	ND		1.0		ug/L			10/10/13 17:03	1
Chloromethane	ND		2.0		ug/L			10/10/13 17:03	1
cis-1,2-Dichloroethene	**3.4**		1.0		ug/L			10/10/13 17:03	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			10/10/13 17:03	1
Dichlorobromomethane	ND		0.50		ug/L			10/10/13 17:03	1
Dichlorodifluoromethane	ND		1.0		ug/L			10/10/13 17:03	1
Ethyl ether	ND		1.0		ug/L			10/10/13 17:03	1
Ethylbenzene	ND		1.0		ug/L			10/10/13 17:03	1
Ethylene Dibromide	ND		1.0		ug/L			10/10/13 17:03	1
Hexachlorobutadiene	ND		0.40		ug/L			10/10/13 17:03	1
Isopropyl ether	ND		10		ug/L			10/10/13 17:03	1
Isopropylbenzene	ND		1.0		ug/L			10/10/13 17:03	1
Methyl tert-butyl ether	ND		1.0		ug/L			10/10/13 17:03	1
Methylene Chloride	ND		1.0		ug/L			10/10/13 17:03	1
m-Xylene & p-Xylene	ND		2.0		ug/L			10/10/13 17:03	1
Naphthalene	ND		5.0		ug/L			10/10/13 17:03	1
n-Butylbenzene	ND		1.0		ug/L			10/10/13 17:03	1
N-Propylbenzene	ND		1.0		ug/L			10/10/13 17:03	1
o-Xylene	ND		1.0		ug/L			10/10/13 17:03	1
sec-Butylbenzene	ND		1.0		ug/L			10/10/13 17:03	1

Client Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-47163-1

Client Sample ID: MW-1003-20131003-01

Lab Sample ID: 480-47163-10

Date Collected: 10/03/13 15:10
Matrix: Water
Date Received: 10/04/13 01:30

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	ND		1.0		ug/L			10/10/13 17:03	1
Tert-amyl methyl ether	ND		5.0		ug/L			10/10/13 17:03	1
Tert-butyl ethyl ether	ND		5.0		ug/L			10/10/13 17:03	1
tert-Butylbenzene	ND		1.0		ug/L			10/10/13 17:03	1
Tetrachloroethene	ND		1.0		ug/L			10/10/13 17:03	1
Tetrahydrofuran	ND		10		ug/L			10/10/13 17:03	1
Toluene	ND		1.0		ug/L			10/10/13 17:03	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			10/10/13 17:03	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			10/10/13 17:03	1
Trichloroethene	**3.8**		1.0		ug/L			10/10/13 17:03	1
Trichlorofluoromethane	ND		1.0		ug/L			10/10/13 17:03	1
Vinyl chloride	ND		1.0		ug/L			10/10/13 17:03	1
Dibromomethane	ND		1.0		ug/L			10/10/13 17:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*94*		*70 - 130*		*10/10/13 17:03*	*1*
1,2-Dichloroethane-d4 (Surr)	*89*		*70 - 130*		*10/10/13 17:03*	*1*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*		*10/10/13 17:03*	*1*

Surrogate Summary

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-47163-1

Method: 8260C - Volatile Organic Compounds (GC/MS)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		TOL	12DCE	BFB
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	(70-130)
480-47163-1	MW-1024D-20131003-01	92	88	105
480-47163-2	MW-1025D-20131003-01	95	89	106
480-47163-3	MW-1008-20131003-01	95	88	107
480-47163-4	MW-1025M-20131003-01	96	88	108
480-47163-5	MW-1016D-20131003-01	93	87	109
480-47163-6	TB-003-20131003-01	94	92	107
480-47163-7	MW-1014-20131003-01	93	91	106
480-47163-8	MW-1013-20131003-01	95	90	107
480-47163-9	MW-1033-20131003-01	95	89	107
480-47163-10	MW-1003-20131003-01	94	89	106
LCS 480-143927/5	Lab Control Sample	97	86	111
LCS 480-144151/4	Lab Control Sample	94	82	108
LCSD 480-143927/6	Lab Control Sample Dup	97	84	114
LCSD 480-144151/5	Lab Control Sample Dup	95	85	110
MB 480-143927/8	Method Blank	96	90	108
MB 480-144151/7	Method Blank	94	86	106

Surrogate Legend

TOL = Toluene-d8 (Surr)
12DCE = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)

Method: 8260C SIM - Volatile Organic Compounds (GC/MS)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		BA-d9 (Sur	DBFM
Lab Sample ID	Client Sample ID	(50-150)	(50-150)
480-47163-1	MW-1024D-20131003-01	85	107
480-47163-2	MW-1025D-20131003-01	81	109
480-47163-4	MW-1025M-20131003-01	66	111
480-47163-9	MW-1033-20131003-01	77	108
LCS 480-143145/5	Lab Control Sample	84	103
LCSD 480-143145/30	Lab Control Sample Dup	84	112
MB 480-143145/6	Method Blank	86	100

Surrogate Legend

TBA-d9 (Surr) = TBA-d9 (Surr)
DBFM = Dibromofluoromethane (Surr)

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
		14DD8
Lab Sample ID	Client Sample ID	(70-130)
480-47163-1	MW-1024D-20131003-01	84
480-47163-2	MW-1025D-20131003-01	73
LCS 200-62238/2-A	Lab Control Sample	88
MB 200-62238/1-A	Method Blank	83

Surrogate Summary

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-47163-1

Surrogate Legend

14DD8 = 1,4-Dioxane-d8 (Surr)

Method: 8260C - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-143927/8
Matrix: Water
Analysis Batch: 143927

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			10/10/13 12:30	1
1,1,1-Trichloroethane	ND		1.0		ug/L			10/10/13 12:30	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			10/10/13 12:30	1
1,1,2-Trichloroethane	ND		1.0		ug/L			10/10/13 12:30	1
1,1-Dichloroethane	ND		1.0		ug/L			10/10/13 12:30	1
1,1-Dichloroethene	ND		1.0		ug/L			10/10/13 12:30	1
1,1-Dichloropropene	ND		1.0		ug/L			10/10/13 12:30	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			10/10/13 12:30	1
1,2,3-Trichloropropane	ND		1.0		ug/L			10/10/13 12:30	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			10/10/13 12:30	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			10/10/13 12:30	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			10/10/13 12:30	1
1,2-Dichlorobenzene	ND		1.0		ug/L			10/10/13 12:30	1
1,2-Dichloroethane	ND		1.0		ug/L			10/10/13 12:30	1
1,2-Dichloropropane	ND		1.0		ug/L			10/10/13 12:30	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			10/10/13 12:30	1
1,3-Dichlorobenzene	ND		1.0		ug/L			10/10/13 12:30	1
1,3-Dichloropropane	ND		1.0		ug/L			10/10/13 12:30	1
1,4-Dichlorobenzene	ND		1.0		ug/L			10/10/13 12:30	1
1,4-Dioxane	ND		50		ug/L			10/10/13 12:30	1
2,2-Dichloropropane	ND		1.0		ug/L			10/10/13 12:30	1
2-Butanone (MEK)	ND		10		ug/L			10/10/13 12:30	1
2-Chlorotoluene	ND		1.0		ug/L			10/10/13 12:30	1
2-Hexanone	ND		10		ug/L			10/10/13 12:30	1
4-Chlorotoluene	ND		1.0		ug/L			10/10/13 12:30	1
4-Isopropyltoluene	ND		1.0		ug/L			10/10/13 12:30	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			10/10/13 12:30	1
Acetone	ND		50		ug/L			10/10/13 12:30	1
Benzene	ND		1.0		ug/L			10/10/13 12:30	1
Bromobenzene	ND		1.0		ug/L			10/10/13 12:30	1
Bromoform	ND		1.0		ug/L			10/10/13 12:30	1
Bromomethane	ND		2.0		ug/L			10/10/13 12:30	1
Carbon disulfide	ND		10		ug/L			10/10/13 12:30	1
Carbon tetrachloride	ND		1.0		ug/L			10/10/13 12:30	1
Chlorobenzene	ND		1.0		ug/L			10/10/13 12:30	1
Chlorobromomethane	ND		1.0		ug/L			10/10/13 12:30	1
Chlorodibromomethane	ND		0.50		ug/L			10/10/13 12:30	1
Chloroethane	ND		2.0		ug/L			10/10/13 12:30	1
Chloroform	ND		1.0		ug/L			10/10/13 12:30	1
Chloromethane	ND		2.0		ug/L			10/10/13 12:30	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			10/10/13 12:30	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			10/10/13 12:30	1
Dichlorobromomethane	ND		0.50		ug/L			10/10/13 12:30	1
Dichlorodifluoromethane	ND		1.0		ug/L			10/10/13 12:30	1
Ethyl ether	ND		1.0		ug/L			10/10/13 12:30	1
Ethylbenzene	ND		1.0		ug/L			10/10/13 12:30	1
Ethylene Dibromide	ND		1.0		ug/L			10/10/13 12:30	1
Hexachlorobutadiene	ND		0.40		ug/L			10/10/13 12:30	1

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-143927/8
Matrix: Water
Analysis Batch: 143927

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropyl ether	ND		10		ug/L			10/10/13 12:30	1
Isopropylbenzene	ND		1.0		ug/L			10/10/13 12:30	1
Methyl tert-butyl ether	ND		1.0		ug/L			10/10/13 12:30	1
Methylene Chloride	ND		1.0		ug/L			10/10/13 12:30	1
m-Xylene & p-Xylene	ND		2.0		ug/L			10/10/13 12:30	1
Naphthalene	ND		5.0		ug/L			10/10/13 12:30	1
n-Butylbenzene	ND		1.0		ug/L			10/10/13 12:30	1
N-Propylbenzene	ND		1.0		ug/L			10/10/13 12:30	1
o-Xylene	ND		1.0		ug/L			10/10/13 12:30	1
sec-Butylbenzene	ND		1.0		ug/L			10/10/13 12:30	1
Styrene	ND		1.0		ug/L			10/10/13 12:30	1
Tert-amyl methyl ether	ND		5.0		ug/L			10/10/13 12:30	1
Tert-butyl ethyl ether	ND		5.0		ug/L			10/10/13 12:30	1
tert-Butylbenzene	ND		1.0		ug/L			10/10/13 12:30	1
Tetrachloroethene	ND		1.0		ug/L			10/10/13 12:30	1
Tetrahydrofuran	ND		10		ug/L			10/10/13 12:30	1
Toluene	ND		1.0		ug/L			10/10/13 12:30	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			10/10/13 12:30	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			10/10/13 12:30	1
Trichloroethene	ND		1.0		ug/L			10/10/13 12:30	1
Trichlorofluoromethane	ND		1.0		ug/L			10/10/13 12:30	1
Vinyl chloride	ND		1.0		ug/L			10/10/13 12:30	1
Dibromomethane	ND		1.0		ug/L			10/10/13 12:30	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*96*		*70 - 130*		*10/10/13 12:30*	*1*
1,2-Dichloroethane-d4 (Surr)	*90*		*70 - 130*		*10/10/13 12:30*	*1*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*		*10/10/13 12:30*	*1*

Lab Sample ID: LCS 480-143927/5
Matrix: Water
Analysis Batch: 143927

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	25.0	25.6		ug/L		102	70 - 130
1,1,1-Trichloroethane	25.0	24.7		ug/L		99	70 - 130
1,1,2,2-Tetrachloroethane	25.0	22.1		ug/L		89	70 - 130
1,1,2-Trichloroethane	25.0	23.4		ug/L		94	70 - 130
1,1-Dichloroethane	25.0	24.1		ug/L		96	70 - 130
1,1-Dichloroethene	25.0	26.8		ug/L		107	70 - 130
1,1-Dichloropropene	25.0	24.3		ug/L		97	70 - 130
1,2,3-Trichlorobenzene	25.0	27.2		ug/L		109	70 - 130
1,2,3-Trichloropropane	25.0	21.6		ug/L		86	70 - 130
1,2,4-Trichlorobenzene	25.0	26.5		ug/L		106	70 - 130
1,2,4-Trimethylbenzene	25.0	24.6		ug/L		98	70 - 130
1,2-Dibromo-3-Chloropropane	25.0	24.1		ug/L		96	70 - 130
1,2-Dichlorobenzene	25.0	25.7		ug/L		103	70 - 130
1,2-Dichloroethane	25.0	22.3		ug/L		89	70 - 130

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-143927/5
Matrix: Water
Analysis Batch: 143927

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichloropropane	25.0	23.7		ug/L		95	70 - 130
1,3,5-Trimethylbenzene	25.0	25.4		ug/L		102	70 - 130
1,3-Dichlorobenzene	25.0	25.6		ug/L		103	70 - 130
1,3-Dichloropropane	25.0	23.1		ug/L		93	70 - 130
1,4-Dichlorobenzene	25.0	25.9		ug/L		104	70 - 130
1,4-Dioxane	1000	901		ug/L		90	70 - 130
2,2-Dichloropropane	25.0	24.1		ug/L		96	70 - 130
2-Butanone (MEK)	125	150		ug/L		120	70 - 130
2-Chlorotoluene	25.0	24.1		ug/L		97	70 - 130
2-Hexanone	125	107		ug/L		86	70 - 130
4-Chlorotoluene	25.0	24.2		ug/L		97	70 - 130
4-Isopropyltoluene	25.0	26.3		ug/L		105	70 - 130
4-Methyl-2-pentanone (MIBK)	125	104		ug/L		83	70 - 130
Acetone	125	112		ug/L		90	70 - 130
Benzene	25.0	26.4		ug/L		105	70 - 130
Bromobenzene	25.0	25.2		ug/L		101	70 - 130
Bromoform	25.0	23.1		ug/L		92	70 - 130
Bromomethane	25.0	26.7		ug/L		107	70 - 130
Carbon disulfide	25.0	30.6		ug/L		122	70 - 130
Carbon tetrachloride	25.0	24.4		ug/L		97	70 - 130
Chlorobenzene	25.0	25.2		ug/L		101	70 - 130
Chlorobromomethane	25.0	26.9		ug/L		107	70 - 130
Chlorodibromomethane	25.0	22.0		ug/L		88	70 - 130
Chloroethane	25.0	28.0		ug/L		112	70 - 130
Chloroform	25.0	24.9		ug/L		99	70 - 130
Chloromethane	25.0	20.1		ug/L		81	70 - 130
cis-1,2-Dichloroethene	25.0	25.6		ug/L		103	70 - 130
cis-1,3-Dichloropropene	25.0	25.7		ug/L		103	70 - 130
Dichlorobromomethane	25.0	25.2		ug/L		101	70 - 130
Dichlorodifluoromethane	50.0	52.0		ug/L		104	70 - 130
Ethyl ether	25.0	26.5		ug/L		106	70 - 130
Ethylbenzene	25.0	25.2		ug/L		101	70 - 130
Ethylene Dibromide	25.0	24.7		ug/L		99	70 - 130
Hexachlorobutadiene	25.0	28.6		ug/L		114	70 - 130
Isopropyl ether	25.0	22.3		ug/L		89	70 - 130
Isopropylbenzene	25.0	23.8		ug/L		95	70 - 130
Methyl tert-butyl ether	25.0	26.0		ug/L		104	70 - 130
Methylene Chloride	25.0	25.2		ug/L		101	70 - 130
m-Xylene & p-Xylene	50.0	51.7		ug/L		103	70 - 130
Naphthalene	25.0	26.0		ug/L		104	70 - 130
n-Butylbenzene	25.0	25.0		ug/L		100	70 - 130
N-Propylbenzene	25.0	22.3		ug/L		89	70 - 130
o-Xylene	25.0	25.6		ug/L		103	70 - 130
sec-Butylbenzene	25.0	25.1		ug/L		100	70 - 130
Styrene	25.0	26.6		ug/L		107	70 - 130
Tert-amyl methyl ether	25.0	23.1		ug/L		92	70 - 130
Tert-butyl ethyl ether	25.0	22.5		ug/L		90	70 - 130
tert-Butylbenzene	25.0	25.0		ug/L		100	70 - 130

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-143927/5
Matrix: Water
Analysis Batch: 143927

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Tetrachloroethene	25.0	29.4		ug/L		118	70 - 130
Tetrahydrofuran	125	107		ug/L		86	70 - 130
Toluene	25.0	25.1		ug/L		100	70 - 130
trans-1,2-Dichloroethene	25.0	25.6		ug/L		102	70 - 130
trans-1,3-Dichloropropene	25.0	23.9		ug/L		96	70 - 130
Trichloroethene	25.0	25.1		ug/L		101	70 - 130
Trichlorofluoromethane	25.0	27.6		ug/L		110	70 - 130
Vinyl chloride	25.0	27.6		ug/L		110	70 - 130
Dibromomethane	25.0	23.8		ug/L		95	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*97*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*86*		*70 - 130*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*

Lab Sample ID: LCSD 480-143927/6
Matrix: Water
Analysis Batch: 143927

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	25.0	25.2		ug/L		101	70 - 130	1	20
1,1,1-Trichloroethane	25.0	22.5		ug/L		90	70 - 130	9	20
1,1,2,2-Tetrachloroethane	25.0	22.7		ug/L		91	70 - 130	3	20
1,1,2-Trichloroethane	25.0	23.3		ug/L		93	70 - 130	1	20
1,1-Dichloroethane	25.0	22.2		ug/L		89	70 - 130	8	20
1,1-Dichloroethene	25.0	25.0		ug/L		100	70 - 130	7	20
1,1-Dichloropropene	25.0	22.1		ug/L		88	70 - 130	10	20
1,2,3-Trichlorobenzene	25.0	27.2		ug/L		109	70 - 130	0	20
1,2,3-Trichloropropane	25.0	21.8		ug/L		87	70 - 130	1	20
1,2,4-Trichlorobenzene	25.0	27.6		ug/L		110	70 - 130	4	20
1,2,4-Trimethylbenzene	25.0	24.4		ug/L		98	70 - 130	1	20
1,2-Dibromo-3-Chloropropane	25.0	24.7		ug/L		99	70 - 130	3	20
1,2-Dichlorobenzene	25.0	25.6		ug/L		102	70 - 130	0	20
1,2-Dichloroethane	25.0	21.0		ug/L		84	70 - 130	6	20
1,2-Dichloropropane	25.0	22.1		ug/L		89	70 - 130	7	20
1,3,5-Trimethylbenzene	25.0	25.2		ug/L		101	70 - 130	1	20
1,3-Dichlorobenzene	25.0	25.8		ug/L		103	70 - 130	0	20
1,3-Dichloropropane	25.0	23.2		ug/L		93	70 - 130	0	20
1,4-Dichlorobenzene	25.0	25.5		ug/L		102	70 - 130	2	20
1,4-Dioxane	1000	938		ug/L		94	70 - 130	4	20
2,2-Dichloropropane	25.0	21.8		ug/L		87	70 - 130	10	20
2-Butanone (MEK)	125	143		ug/L		115	70 - 130	5	20
2-Chlorotoluene	25.0	24.2		ug/L		97	70 - 130	0	20
2-Hexanone	125	106		ug/L		84	70 - 130	1	20
4-Chlorotoluene	25.0	24.2		ug/L		97	70 - 130	0	20
4-Isopropyltoluene	25.0	26.0		ug/L		104	70 - 130	1	20
4-Methyl-2-pentanone (MIBK)	125	102		ug/L		82	70 - 130	2	20
Acetone	125	107		ug/L		86	70 - 130	4	20

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 480-143927/6
Matrix: Water
Analysis Batch: 143927

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	25.0	24.6		ug/L		98	70 - 130	7	20
Bromobenzene	25.0	25.3		ug/L		101	70 - 130	0	20
Bromoform	25.0	22.8		ug/L		91	70 - 130	1	20
Bromomethane	25.0	23.3		ug/L		93	70 - 130	14	20
Carbon disulfide	25.0	28.5		ug/L		114	70 - 130	7	20
Carbon tetrachloride	25.0	22.6		ug/L		90	70 - 130	8	20
Chlorobenzene	25.0	24.5		ug/L		98	70 - 130	3	20
Chlorobromomethane	25.0	26.0		ug/L		104	70 - 130	3	20
Chlorodibromomethane	25.0	22.4		ug/L		90	70 - 130	2	20
Chloroethane	25.0	25.7		ug/L		103	70 - 130	9	20
Chloroform	25.0	23.3		ug/L		93	70 - 130	7	20
Chloromethane	25.0	18.6		ug/L		74	70 - 130	8	20
cis-1,2-Dichloroethene	25.0	24.2		ug/L		97	70 - 130	6	20
cis-1,3-Dichloropropene	25.0	24.5		ug/L		98	70 - 130	5	20
Dichlorobromomethane	25.0	23.8		ug/L		95	70 - 130	6	20
Dichlorodifluoromethane	50.0	46.5		ug/L		93	70 - 130	11	20
Ethyl ether	25.0	25.1		ug/L		100	70 - 130	6	20
Ethylbenzene	25.0	24.6		ug/L		99	70 - 130	2	20
Ethylene Dibromide	25.0	24.8		ug/L		99	70 - 130	0	20
Hexachlorobutadiene	25.0	27.5		ug/L		110	70 - 130	4	20
Isopropyl ether	25.0	21.4		ug/L		86	70 - 130	4	20
Isopropylbenzene	25.0	24.0		ug/L		96	70 - 130	1	20
Methyl tert-butyl ether	25.0	24.9		ug/L		100	70 - 130	4	20
Methylene Chloride	25.0	23.4		ug/L		93	70 - 130	8	20
m-Xylene & p-Xylene	50.0	50.6		ug/L		101	70 - 130	2	20
Naphthalene	25.0	26.4		ug/L		106	70 - 130	2	20
n-Butylbenzene	25.0	24.5		ug/L		98	70 - 130	2	20
N-Propylbenzene	25.0	22.4		ug/L		90	70 - 130	0	20
o-Xylene	25.0	24.9		ug/L		100	70 - 130	3	20
sec-Butylbenzene	25.0	24.8		ug/L		99	70 - 130	1	20
Styrene	25.0	26.1		ug/L		105	70 - 130	2	20
Tert-amyl methyl ether	25.0	21.9		ug/L		88	70 - 130	5	20
Tert-butyl ethyl ether	25.0	21.7		ug/L		87	70 - 130	4	20
tert-Butylbenzene	25.0	24.7		ug/L		99	70 - 130	1	20
Tetrachloroethene	25.0	29.2		ug/L		117	70 - 130	1	20
Tetrahydrofuran	125	102		ug/L		82	70 - 130	4	20
Toluene	25.0	24.9		ug/L		100	70 - 130	1	20
trans-1,2-Dichloroethene	25.0	24.2		ug/L		97	70 - 130	6	20
trans-1,3-Dichloropropene	25.0	23.4		ug/L		94	70 - 130	2	20
Trichloroethene	25.0	23.8		ug/L		95	70 - 130	6	20
Trichlorofluoromethane	25.0	25.3		ug/L		101	70 - 130	9	20
Vinyl chloride	25.0	25.7		ug/L		103	70 - 130	7	20
Dibromomethane	25.0	23.1		ug/L		92	70 - 130	3	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*97*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*84*		*70 - 130*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-144151/7
Matrix: Water
Analysis Batch: 144151

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			10/10/13 23:31	1
1,1,1-Trichloroethane	ND		1.0		ug/L			10/10/13 23:31	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			10/10/13 23:31	1
1,1,2-Trichloroethane	ND		1.0		ug/L			10/10/13 23:31	1
1,1-Dichloroethane	ND		1.0		ug/L			10/10/13 23:31	1
1,1-Dichloroethene	ND		1.0		ug/L			10/10/13 23:31	1
1,1-Dichloropropene	ND		1.0		ug/L			10/10/13 23:31	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			10/10/13 23:31	1
1,2,3-Trichloropropane	ND		1.0		ug/L			10/10/13 23:31	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			10/10/13 23:31	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			10/10/13 23:31	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			10/10/13 23:31	1
1,2-Dichlorobenzene	ND		1.0		ug/L			10/10/13 23:31	1
1,2-Dichloroethane	ND		1.0		ug/L			10/10/13 23:31	1
1,2-Dichloropropane	ND		1.0		ug/L			10/10/13 23:31	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			10/10/13 23:31	1
1,3-Dichlorobenzene	ND		1.0		ug/L			10/10/13 23:31	1
1,3-Dichloropropane	ND		1.0		ug/L			10/10/13 23:31	1
1,4-Dichlorobenzene	ND		1.0		ug/L			10/10/13 23:31	1
1,4-Dioxane	ND		50		ug/L			10/10/13 23:31	1
2,2-Dichloropropane	ND		1.0		ug/L			10/10/13 23:31	1
2-Butanone (MEK)	ND		10		ug/L			10/10/13 23:31	1
2-Chlorotoluene	ND		1.0		ug/L			10/10/13 23:31	1
2-Hexanone	ND		10		ug/L			10/10/13 23:31	1
4-Chlorotoluene	ND		1.0		ug/L			10/10/13 23:31	1
4-Isopropyltoluene	ND		1.0		ug/L			10/10/13 23:31	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			10/10/13 23:31	1
Acetone	ND		50		ug/L			10/10/13 23:31	1
Benzene	ND		1.0		ug/L			10/10/13 23:31	1
Bromobenzene	ND		1.0		ug/L			10/10/13 23:31	1
Bromoform	ND		1.0		ug/L			10/10/13 23:31	1
Bromomethane	ND		2.0		ug/L			10/10/13 23:31	1
Carbon disulfide	ND		10		ug/L			10/10/13 23:31	1
Carbon tetrachloride	ND		1.0		ug/L			10/10/13 23:31	1
Chlorobenzene	ND		1.0		ug/L			10/10/13 23:31	1
Chlorobromomethane	ND		1.0		ug/L			10/10/13 23:31	1
Chlorodibromomethane	ND		0.50		ug/L			10/10/13 23:31	1
Chloroethane	ND		2.0		ug/L			10/10/13 23:31	1
Chloroform	ND		1.0		ug/L			10/10/13 23:31	1
Chloromethane	ND		2.0		ug/L			10/10/13 23:31	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			10/10/13 23:31	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			10/10/13 23:31	1
Dichlorobromomethane	ND		0.50		ug/L			10/10/13 23:31	1
Dichlorodifluoromethane	ND		1.0		ug/L			10/10/13 23:31	1
Ethyl ether	ND		1.0		ug/L			10/10/13 23:31	1
Ethylbenzene	ND		1.0		ug/L			10/10/13 23:31	1
Ethylene Dibromide	ND		1.0		ug/L			10/10/13 23:31	1
Hexachlorobutadiene	ND		0.40		ug/L			10/10/13 23:31	1

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-144151/7
Matrix: Water
Analysis Batch: 144151

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropyl ether	ND		10		ug/L			10/10/13 23:31	1
Isopropylbenzene	ND		1.0		ug/L			10/10/13 23:31	1
Methyl tert-butyl ether	ND		1.0		ug/L			10/10/13 23:31	1
Methylene Chloride	ND		1.0		ug/L			10/10/13 23:31	1
m-Xylene & p-Xylene	ND		2.0		ug/L			10/10/13 23:31	1
Naphthalene	ND		5.0		ug/L			10/10/13 23:31	1
n-Butylbenzene	ND		1.0		ug/L			10/10/13 23:31	1
N-Propylbenzene	ND		1.0		ug/L			10/10/13 23:31	1
o-Xylene	ND		1.0		ug/L			10/10/13 23:31	1
sec-Butylbenzene	ND		1.0		ug/L			10/10/13 23:31	1
Styrene	ND		1.0		ug/L			10/10/13 23:31	1
Tert-amyl methyl ether	ND		5.0		ug/L			10/10/13 23:31	1
Tert-butyl ethyl ether	ND		5.0		ug/L			10/10/13 23:31	1
tert-Butylbenzene	ND		1.0		ug/L			10/10/13 23:31	1
Tetrachloroethene	ND		1.0		ug/L			10/10/13 23:31	1
Tetrahydrofuran	ND		10		ug/L			10/10/13 23:31	1
Toluene	ND		1.0		ug/L			10/10/13 23:31	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			10/10/13 23:31	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			10/10/13 23:31	1
Trichloroethene	ND		1.0		ug/L			10/10/13 23:31	1
Trichlorofluoromethane	ND		1.0		ug/L			10/10/13 23:31	1
Vinyl chloride	ND		1.0		ug/L			10/10/13 23:31	1
Dibromomethane	ND		1.0		ug/L			10/10/13 23:31	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*94*		*70 - 130*		*10/10/13 23:31*	*1*
1,2-Dichloroethane-d4 (Surr)	*86*		*70 - 130*		*10/10/13 23:31*	*1*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*		*10/10/13 23:31*	*1*

Lab Sample ID: LCS 480-144151/4
Matrix: Water
Analysis Batch: 144151

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	25.0	25.0		ug/L		100	70 - 130
1,1,1-Trichloroethane	25.0	23.4		ug/L		93	70 - 130
1,1,2,2-Tetrachloroethane	25.0	22.2		ug/L		89	70 - 130
1,1,2-Trichloroethane	25.0	22.8		ug/L		91	70 - 130
1,1-Dichloroethane	25.0	22.3		ug/L		89	70 - 130
1,1-Dichloroethene	25.0	26.6		ug/L		106	70 - 130
1,1-Dichloropropene	25.0	23.0		ug/L		92	70 - 130
1,2,3-Trichlorobenzene	25.0	25.4		ug/L		102	70 - 130
1,2,3-Trichloropropane	25.0	22.7		ug/L		91	70 - 130
1,2,4-Trichlorobenzene	25.0	25.8		ug/L		103	70 - 130
1,2,4-Trimethylbenzene	25.0	24.2		ug/L		97	70 - 130
1,2-Dibromo-3-Chloropropane	25.0	24.2		ug/L		97	70 - 130
1,2-Dichlorobenzene	25.0	25.4		ug/L		102	70 - 130
1,2-Dichloroethane	25.0	20.5		ug/L		82	70 - 130

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-144151/4
Matrix: Water
Analysis Batch: 144151

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichloropropane	25.0	22.3		ug/L		89	70 - 130
1,3,5-Trimethylbenzene	25.0	25.3		ug/L		101	70 - 130
1,3-Dichlorobenzene	25.0	25.1		ug/L		100	70 - 130
1,3-Dichloropropane	25.0	22.8		ug/L		91	70 - 130
1,4-Dichlorobenzene	25.0	24.9		ug/L		100	70 - 130
1,4-Dioxane	1000	993		ug/L		99	70 - 130
2,2-Dichloropropane	25.0	20.9		ug/L		83	70 - 130
2-Butanone (MEK)	125	135		ug/L		108	70 - 130
2-Chlorotoluene	25.0	24.2		ug/L		97	70 - 130
2-Hexanone	125	93.9		ug/L		75	70 - 130
4-Chlorotoluene	25.0	24.5		ug/L		98	70 - 130
4-Isopropyltoluene	25.0	25.4		ug/L		102	70 - 130
4-Methyl-2-pentanone (MIBK)	125	93.8		ug/L		75	70 - 130
Acetone	125	96.7		ug/L		77	70 - 130
Benzene	25.0	25.1		ug/L		101	70 - 130
Bromobenzene	25.0	24.9		ug/L		100	70 - 130
Bromoform	25.0	20.5		ug/L		82	70 - 130
Bromomethane	25.0	21.8		ug/L		87	70 - 130
Carbon disulfide	25.0	25.3		ug/L		101	70 - 130
Carbon tetrachloride	25.0	23.1		ug/L		92	70 - 130
Chlorobenzene	25.0	24.7		ug/L		99	70 - 130
Chlorobromomethane	25.0	24.8		ug/L		99	70 - 130
Chlorodibromomethane	25.0	21.7		ug/L		87	70 - 130
Chloroethane	25.0	26.0		ug/L		104	70 - 130
Chloroform	25.0	23.5		ug/L		94	70 - 130
Chloromethane	25.0	19.5		ug/L		78	70 - 130
cis-1,2-Dichloroethene	25.0	24.6		ug/L		98	70 - 130
cis-1,3-Dichloropropene	25.0	24.4		ug/L		98	70 - 130
Dichlorobromomethane	25.0	23.2		ug/L		93	70 - 130
Dichlorodifluoromethane	50.0	60.8		ug/L		122	70 - 130
Ethyl ether	25.0	26.8		ug/L		107	70 - 130
Ethylbenzene	25.0	24.7		ug/L		99	70 - 130
Ethylene Dibromide	25.0	24.5		ug/L		98	70 - 130
Hexachlorobutadiene	25.0	26.2		ug/L		105	70 - 130
Isopropyl ether	25.0	22.0		ug/L		88	70 - 130
Isopropylbenzene	25.0	23.9		ug/L		96	70 - 130
Methyl tert-butyl ether	25.0	22.8		ug/L		91	70 - 130
Methylene Chloride	25.0	23.6		ug/L		95	70 - 130
m-Xylene & p-Xylene	50.0	50.5		ug/L		101	70 - 130
Naphthalene	25.0	24.7		ug/L		99	70 - 130
n-Butylbenzene	25.0	24.4		ug/L		98	70 - 130
N-Propylbenzene	25.0	22.5		ug/L		90	70 - 130
o-Xylene	25.0	25.4		ug/L		102	70 - 130
sec-Butylbenzene	25.0	24.6		ug/L		99	70 - 130
Styrene	25.0	25.9		ug/L		104	70 - 130
Tert-amyl methyl ether	25.0	23.9		ug/L		96	70 - 130
Tert-butyl ethyl ether	25.0	22.7		ug/L		91	70 - 130
tert-Butylbenzene	25.0	25.2		ug/L		101	70 - 130

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-144151/4
Matrix: Water
Analysis Batch: 144151

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Tetrachloroethene	25.0	29.6		ug/L		118	70 - 130
Tetrahydrofuran	125	92.8		ug/L		74	70 - 130
Toluene	25.0	24.4		ug/L		98	70 - 130
trans-1,2-Dichloroethene	25.0	24.4		ug/L		98	70 - 130
trans-1,3-Dichloropropene	25.0	23.6		ug/L		95	70 - 130
Trichloroethene	25.0	23.4		ug/L		93	70 - 130
Trichlorofluoromethane	25.0	28.2		ug/L		113	70 - 130
Vinyl chloride	25.0	25.5		ug/L		102	70 - 130
Dibromomethane	25.0	22.9		ug/L		92	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*94*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*82*		*70 - 130*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*

Lab Sample ID: LCSD 480-144151/5
Matrix: Water
Analysis Batch: 144151

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	25.0	24.8		ug/L		99	70 - 130	1	20
1,1,1-Trichloroethane	25.0	22.6		ug/L		91	70 - 130	3	20
1,1,2,2-Tetrachloroethane	25.0	22.0		ug/L		88	70 - 130	1	20
1,1,2-Trichloroethane	25.0	22.5		ug/L		90	70 - 130	1	20
1,1-Dichloroethane	25.0	22.4		ug/L		89	70 - 130	0	20
1,1-Dichloroethene	25.0	25.9		ug/L		103	70 - 130	3	20
1,1-Dichloropropene	25.0	22.8		ug/L		91	70 - 130	1	20
1,2,3-Trichlorobenzene	25.0	27.0		ug/L		108	70 - 130	6	20
1,2,3-Trichloropropane	25.0	22.4		ug/L		90	70 - 130	1	20
1,2,4-Trichlorobenzene	25.0	26.2		ug/L		105	70 - 130	2	20
1,2,4-Trimethylbenzene	25.0	23.7		ug/L		95	70 - 130	2	20
1,2-Dibromo-3-Chloropropane	25.0	24.0		ug/L		96	70 - 130	1	20
1,2-Dichlorobenzene	25.0	24.8		ug/L		99	70 - 130	2	20
1,2-Dichloroethane	25.0	20.8		ug/L		83	70 - 130	1	20
1,2-Dichloropropane	25.0	22.1		ug/L		88	70 - 130	1	20
1,3,5-Trimethylbenzene	25.0	25.0		ug/L		100	70 - 130	1	20
1,3-Dichlorobenzene	25.0	24.8		ug/L		99	70 - 130	1	20
1,3-Dichloropropane	25.0	22.7		ug/L		91	70 - 130	1	20
1,4-Dichlorobenzene	25.0	25.2		ug/L		101	70 - 130	1	20
1,4-Dioxane	1000	1100		ug/L		110	70 - 130	10	20
2,2-Dichloropropane	25.0	20.6		ug/L		82	70 - 130	1	20
2-Butanone (MEK)	125	137		ug/L		110	70 - 130	2	20
2-Chlorotoluene	25.0	23.3		ug/L		93	70 - 130	3	20
2-Hexanone	125	96.1		ug/L		77	70 - 130	2	20
4-Chlorotoluene	25.0	23.7		ug/L		95	70 - 130	4	20
4-Isopropyltoluene	25.0	25.3		ug/L		101	70 - 130	1	20
4-Methyl-2-pentanone (MIBK)	125	93.0		ug/L		74	70 - 130	1	20
Acetone	125	99.3		ug/L		79	70 - 130	3	20

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 480-144151/5
Matrix: Water
Analysis Batch: 144151

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	25.0	24.2		ug/L		97	70 - 130	4	20
Bromobenzene	25.0	25.0		ug/L		100	70 - 130	1	20
Bromoform	25.0	21.3		ug/L		85	70 - 130	4	20
Bromomethane	25.0	22.3		ug/L		89	70 - 130	3	20
Carbon disulfide	25.0	25.6		ug/L		102	70 - 130	1	20
Carbon tetrachloride	25.0	23.2		ug/L		93	70 - 130	0	20
Chlorobenzene	25.0	24.2		ug/L		97	70 - 130	2	20
Chlorobromomethane	25.0	25.2		ug/L		101	70 - 130	1	20
Chlorodibromomethane	25.0	21.4		ug/L		86	70 - 130	1	20
Chloroethane	25.0	24.3		ug/L		97	70 - 130	7	20
Chloroform	25.0	23.2		ug/L		93	70 - 130	1	20
Chloromethane	25.0	19.7		ug/L		79	70 - 130	1	20
cis-1,2-Dichloroethene	25.0	24.5		ug/L		98	70 - 130	1	20
cis-1,3-Dichloropropene	25.0	24.4		ug/L		98	70 - 130	0	20
Dichlorobromomethane	25.0	23.5		ug/L		94	70 - 130	1	20
Dichlorodifluoromethane	50.0	60.3		ug/L		121	70 - 130	1	20
Ethyl ether	25.0	26.7		ug/L		107	70 - 130	0	20
Ethylbenzene	25.0	23.9		ug/L		95	70 - 130	3	20
Ethylene Dibromide	25.0	24.0		ug/L		96	70 - 130	2	20
Hexachlorobutadiene	25.0	27.5		ug/L		110	70 - 130	5	20
Isopropyl ether	25.0	22.1		ug/L		88	70 - 130	0	20
Isopropylbenzene	25.0	22.9		ug/L		92	70 - 130	4	20
Methyl tert-butyl ether	25.0	23.3		ug/L		93	70 - 130	2	20
Methylene Chloride	25.0	23.9		ug/L		96	70 - 130	1	20
m-Xylene & p-Xylene	50.0	49.1		ug/L		98	70 - 130	3	20
Naphthalene	25.0	26.0		ug/L		104	70 - 130	5	20
n-Butylbenzene	25.0	23.8		ug/L		95	70 - 130	2	20
N-Propylbenzene	25.0	21.8		ug/L		87	70 - 130	3	20
o-Xylene	25.0	24.8		ug/L		99	70 - 130	2	20
sec-Butylbenzene	25.0	24.3		ug/L		97	70 - 130	1	20
Styrene	25.0	25.5		ug/L		102	70 - 130	2	20
Tert-amyl methyl ether	25.0	24.2		ug/L		97	70 - 130	1	20
Tert-butyl ethyl ether	25.0	23.4		ug/L		94	70 - 130	3	20
tert-Butylbenzene	25.0	25.1		ug/L		100	70 - 130	0	20
Tetrachloroethene	25.0	30.5		ug/L		122	70 - 130	3	20
Tetrahydrofuran	125	95.3		ug/L		76	70 - 130	3	20
Toluene	25.0	24.0		ug/L		96	70 - 130	1	20
trans-1,2-Dichloroethene	25.0	23.8		ug/L		95	70 - 130	3	20
trans-1,3-Dichloropropene	25.0	23.2		ug/L		93	70 - 130	2	20
Trichloroethene	25.0	23.4		ug/L		94	70 - 130	0	20
Trichlorofluoromethane	25.0	26.9		ug/L		108	70 - 130	5	20
Vinyl chloride	25.0	25.1		ug/L		100	70 - 130	2	20
Dibromomethane	25.0	22.5		ug/L		90	70 - 130	2	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*95*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*85*		*70 - 130*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*

Method: 8260C SIM - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-143145/6 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 143145

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		1.6		ug/L			10/07/13 11:22	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
TBA-d9 (Surr)	*86*		*50 - 150*		*10/07/13 11:22*	*1*
Dibromofluoromethane (Surr)	*100*		*50 - 150*		*10/07/13 11:22*	*1*

Lab Sample ID: LCS 480-143145/5 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 143145

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dioxane	16.0	16.9		ug/L		106	50 - 150

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
TBA-d9 (Surr)	*84*		*50 - 150*
Dibromofluoromethane (Surr)	*103*		*50 - 150*

Lab Sample ID: LCSD 480-143145/30 — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 143145

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,4-Dioxane	16.0	16.7		ug/L		105	50 - 150	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
TBA-d9 (Surr)	*84*		*50 - 150*
Dibromofluoromethane (Surr)	*112*		*50 - 150*

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Lab Sample ID: MB 200-62238/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 62267 — **Prep Batch: 62238**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20		ug/L		10/06/13 08:30	10/07/13 12:28	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*83*		*70 - 130*	*10/06/13 08:30*	*10/07/13 12:28*	*1*

Lab Sample ID: LCS 200-62238/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 62267 — **Prep Batch: 62238**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dioxane	0.200	0.226		ug/L		113	70 - 130

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM) (Continued)

Lab Sample ID: LCS 200-62238/2-A
Matrix: Water
Analysis Batch: 62267

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 62238

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,4-Dioxane-d8 (Surr)	*88*		*70 - 130*

QC Association Summary

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-47163-1

GC/MS VOA

Analysis Batch: 143145

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-47163-1	MW-1024D-20131003-01	Total/NA	Water	8260C SIM	
480-47163-2	MW-1025D-20131003-01	Total/NA	Water	8260C SIM	
480-47163-4	MW-1025M-20131003-01	Total/NA	Water	8260C SIM	
480-47163-9	MW-1033-20131003-01	Total/NA	Water	8260C SIM	
LCS 480-143145/5	Lab Control Sample	Total/NA	Water	8260C SIM	
LCSD 480-143145/30	Lab Control Sample Dup	Total/NA	Water	8260C SIM	
MB 480-143145/6	Method Blank	Total/NA	Water	8260C SIM	

Analysis Batch: 143927

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-47163-1	MW-1024D-20131003-01	Total/NA	Water	8260C	
480-47163-2	MW-1025D-20131003-01	Total/NA	Water	8260C	
480-47163-3	MW-1008-20131003-01	Total/NA	Water	8260C	
480-47163-5	MW-1016D-20131003-01	Total/NA	Water	8260C	
480-47163-6	TB-003-20131003-01	Total/NA	Water	8260C	
480-47163-7	MW-1014-20131003-01	Total/NA	Water	8260C	
480-47163-8	MW-1013-20131003-01	Total/NA	Water	8260C	
480-47163-9	MW-1033-20131003-01	Total/NA	Water	8260C	
480-47163-10	MW-1003-20131003-01	Total/NA	Water	8260C	
LCS 480-143927/5	Lab Control Sample	Total/NA	Water	8260C	
LCSD 480-143927/6	Lab Control Sample Dup	Total/NA	Water	8260C	
MB 480-143927/8	Method Blank	Total/NA	Water	8260C	

Analysis Batch: 144151

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-47163-4	MW-1025M-20131003-01	Total/NA	Water	8260C	
LCS 480-144151/4	Lab Control Sample	Total/NA	Water	8260C	
LCSD 480-144151/5	Lab Control Sample Dup	Total/NA	Water	8260C	
MB 480-144151/7	Method Blank	Total/NA	Water	8260C	

GC/MS Semi VOA

Prep Batch: 62238

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-47163-1	MW-1024D-20131003-01	Total/NA	Water	3535A	
480-47163-2	MW-1025D-20131003-01	Total/NA	Water	3535A	
LCS 200-62238/2-A	Lab Control Sample	Total/NA	Water	3535A	
MB 200-62238/1-A	Method Blank	Total/NA	Water	3535A	

Analysis Batch: 62267

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-47163-1	MW-1024D-20131003-01	Total/NA	Water	522 MOD	62238
480-47163-2	MW-1025D-20131003-01	Total/NA	Water	522 MOD	62238
LCS 200-62238/2-A	Lab Control Sample	Total/NA	Water	522 MOD	62238
MB 200-62238/1-A	Method Blank	Total/NA	Water	522 MOD	62238

Lab Chronicle

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-47163-1

Client Sample ID: MW-1024D-20131003-01 — Lab Sample ID: 480-47163-1

Date Collected: 10/03/13 10:30 — **Matrix: Water**
Date Received: 10/04/13 01:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C SIM		1	143145	10/07/13 17:04	CDC	TAL BUF
Total/NA	Analysis	8260C		1	143927	10/10/13 13:30	LCH	TAL BUF
Total/NA	Prep	3535A			62238	10/06/13 08:30	MLT	TAL BUR
Total/NA	Analysis	522 MOD		1	62267	10/07/13 13:12	BRM	TAL BUR

Client Sample ID: MW-1025D-20131003-01 — Lab Sample ID: 480-47163-2

Date Collected: 10/03/13 09:15 — **Matrix: Water**
Date Received: 10/04/13 01:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C SIM		1	143145	10/07/13 17:28	CDC	TAL BUF
Total/NA	Analysis	8260C		2	143927	10/10/13 13:54	LCH	TAL BUF
Total/NA	Prep	3535A			62238	10/06/13 08:30	MLT	TAL BUR
Total/NA	Analysis	522 MOD		1	62267	10/07/13 13:36	BRM	TAL BUR

Client Sample ID: MW-1008-20131003-01 — Lab Sample ID: 480-47163-3

Date Collected: 10/03/13 09:12 — **Matrix: Water**
Date Received: 10/04/13 01:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	143927	10/10/13 14:17	LCH	TAL BUF

Client Sample ID: MW-1025M-20131003-01 — Lab Sample ID: 480-47163-4

Date Collected: 10/03/13 10:35 — **Matrix: Water**
Date Received: 10/04/13 01:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C SIM		1	143145	10/07/13 17:53	CDC	TAL BUF
Total/NA	Analysis	8260C		2	144151	10/11/13 00:20	NMD1	TAL BUF

Client Sample ID: MW-1016D-20131003-01 — Lab Sample ID: 480-47163-5

Date Collected: 10/03/13 12:45 — **Matrix: Water**
Date Received: 10/04/13 01:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	143927	10/10/13 15:05	LCH	TAL BUF

Lab Chronicle

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-47163-1

Client Sample ID: TB-003-20131003-01 — Lab Sample ID: 480-47163-6

Date Collected: 10/03/13 00:00 — **Matrix: Water**
Date Received: 10/04/13 01:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	143927	10/10/13 15:29	LCH	TAL BUF

Client Sample ID: MW-1014-20131003-01 — Lab Sample ID: 480-47163-7

Date Collected: 10/03/13 14:40 — **Matrix: Water**
Date Received: 10/04/13 01:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	143927	10/10/13 15:52	LCH	TAL BUF

Client Sample ID: MW-1013-20131003-01 — Lab Sample ID: 480-47163-8

Date Collected: 10/03/13 14:35 — **Matrix: Water**
Date Received: 10/04/13 01:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	143927	10/10/13 16:16	LCH	TAL BUF

Client Sample ID: MW-1033-20131003-01 — Lab Sample ID: 480-47163-9

Date Collected: 10/03/13 13:10 — **Matrix: Water**
Date Received: 10/04/13 01:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C SIM		1	143145	10/07/13 18:17	CDC	TAL BUF
Total/NA	Analysis	8260C		1	143927	10/10/13 16:39	LCH	TAL BUF

Client Sample ID: MW-1003-20131003-01 — Lab Sample ID: 480-47163-10

Date Collected: 10/03/13 15:10 — **Matrix: Water**
Date Received: 10/04/13 01:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	143927	10/10/13 17:03	LCH	TAL BUF

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

TAL BUR = TestAmerica Burlington, 30 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

Certification Summary

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-47163-1

Laboratory: TestAmerica Buffalo

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Arkansas DEQ	State Program	6	88-0686	07-06-13 *
California	NELAP	9	1169CA	09-30-13 *
Connecticut	State Program	1	PH-0568	09-30-14
Florida	NELAP	4	E87672	06-30-14
Georgia	State Program	4	N/A	03-31-14
Iowa	State Program	7	374	03-15-15
Kansas	NELAP	7	E-10187	01-31-14
Kentucky	State Program	4	90029	12-31-13
Kentucky (UST)	State Program	4	30	04-01-14
Louisiana	NELAP	6	02031	06-30-14
Maine	State Program	1	NY00044	12-04-14
Maryland	State Program	3	294	03-31-14
Massachusetts	State Program	1	M-NY044	06-30-14
Michigan	State Program	5	9937	04-01-14
Minnesota	NELAP	5	036-999-337	12-31-13
New Hampshire	NELAP	1	2973	09-11-14
New Jersey	NELAP	2	NY455	06-30-14
New York	NELAP	2	10026	04-01-14
North Dakota	State Program	8	R-176	03-31-14
Oklahoma	State Program	6	9421	08-31-14
Oregon	NELAP	10	NY200003	06-09-14
Pennsylvania	NELAP	3	68-00281	07-31-14
Rhode Island	State Program	1	LAO00328	12-31-13
Tennessee	State Program	4	TN02970	04-01-14
Texas	NELAP	6	T104704412-11-2	07-31-14
USDA	Federal		P330-11-00386	11-22-14
Virginia	NELAP	3	460185	09-14-14
Washington	State Program	10	C784	02-10-14
West Virginia DEP	State Program	3	252	12-31-13
Wisconsin	State Program	5	998310390	08-31-14

Laboratory: TestAmerica Burlington

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Connecticut	State Program	1	PH-0751	09-30-13 *
DE Haz. Subst. Cleanup Act (HSCA)	State Program	3	NA	02-13-15
Florida	NELAP	4	E87467	06-30-14
L-A-B	DoD ELAP		L2336	10-26-13 *
Louisiana	NELAP	6	176292	06-30-14
Maine	State Program	1	VT00008	04-17-15
Minnesota	NELAP	5	050-999-436	12-31-13
New Hampshire	NELAP	1	2006	12-18-13
New Jersey	NELAP	2	VT972	06-30-14
New York	NELAP	2	10391	04-01-14
Pennsylvania	NELAP	3	68-00489	04-30-14
Rhode Island	State Program	1	LAO00298	12-30-13
US Fish & Wildlife	Federal		LE-058448-0	02-28-14
USDA	Federal		P330-11-00093	02-17-14
Vermont	State Program	1	VT-4000	12-31-13

* Expired certification is currently pending renewal and is considered valid.

Method Summary

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-47163-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds (GC/MS)	MA DEP	TAL BUF
8260C SIM	Volatile Organic Compounds (GC/MS)	SW846	TAL BUF
522 MOD	1,4 Dioxane (GC/MS SIM)	EPA	TAL BUR

Protocol References:

EPA = US Environmental Protection Agency

MA DEP = Massachusetts Department Of Environmental Protection

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

TAL BUR = TestAmerica Burlington, 30 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

Sample Summary

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-47163-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-47163-1	MW-1024D-20131003-01	Water	10/03/13 10:30	10/04/13 01:30
480-47163-2	MW-1025D-20131003-01	Water	10/03/13 09:15	10/04/13 01:30
480-47163-3	MW-1008-20131003-01	Water	10/03/13 09:12	10/04/13 01:30
480-47163-4	MW-1025M-20131003-01	Water	10/03/13 10:35	10/04/13 01:30
480-47163-5	MW-1016D-20131003-01	Water	10/03/13 12:45	10/04/13 01:30
480-47163-6	TB-003-20131003-01	Water	10/03/13 00:00	10/04/13 01:30
480-47163-7	MW-1014-20131003-01	Water	10/03/13 14:40	10/04/13 01:30
480-47163-8	MW-1013-20131003-01	Water	10/03/13 14:35	10/04/13 01:30
480-47163-9	MW-1033-20131003-01	Water	10/03/13 13:10	10/04/13 01:30
480-47163-10	MW-1003-20131003-01	Water	10/03/13 15:10	10/04/13 01:30

Login Sample Receipt Checklist

Client: ERM-Northeast

Job Number: 480-47163-1

Login Number: 47163

List Source: TestAmerica Buffalo

List Number: 1

Creator: Wienke, Robert K

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

Login Sample Receipt Checklist

Client: ERM-Northeast

Job Number: 480-47163-1

Login Number: 47163
List Number: 1
Creator: Poucher, Stephanie A

List Source: TestAmerica Burlington
List Creation: 10/05/13 01:07 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	True	957694
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.0ºC IR GUN ID 181. CF -0.2
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	Check done at department level as required.

TestAmerica Westfield
Westfield Executive Park 53 Southampton Road
Westfield, MA 01085
Phone (413) 572-4000 Fax (413) 572-3707

Boston Service Center
240 Bear Hill Rd. Suite 104
Waltham, MA 02451
Phone (781) 466-6900 Fax (781) 466-6901

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information				
Client Contact: Lindsey Colburn	Sampler: Stacey Briggs	Lab PM: Becky Mason	Carrier Tracking No(s):	COC No: 22357
Company: ERM	Phone: 978 675 0420	E-Mail:		Page: 1
Address: 1 Beacon St, 5th Floor	Due Date Requested:			Job #: 0169270 01
City: Boston, MA 02108	TAT Requested (days): 7 days			
State, Zip: MA 02108				
Phone: 1-617-646-7924	Quote #:			
Email: Lyndsey.Colburn@erm.com	PO #:			
Project Name/number: JDS Wayland 0169270.01	WO #:			
Site: Wayland, MA	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, H - Ascorbic Acid, I - Ice, J - DI Water, M - Hexane, N - None, P - Na2O4S, Q - Na2SO3, R - Na2S2SO3, S - H2SO4, Z - other (specify)

Regulatory programs:
MCP [X] GW1/S1 [ ]
RCP [ ] CT RSR [ ]
DEP Form [ ] EDD Required [ ]

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Sampler's Initials	Field Filtered Sample?	Perform MS/MSD?	8260B_MOD (1,4 Dioxane)	8260B SIM (1,4 Dioxane)	522 MOD	Total Number of containers	Special Instructions/Note:
			Preservation Code:									
MW-1024D-20131003-01	10/3/13	10:30	C	W	AW			3	2	1	6	Only run 522 if SIM is ND
MW-1025D-20131003-01	10/3/13	9:15	C	W	SB			3	2	1	6	Only run 522 if SIM is ND
MW-1008-20131003-01	10/3/13	9:12	C	W	AW			3			3	
MW-1025M-20131003-01	10/3/13	10:35	C	W	SB			3	2	1	6	Only run 522 if SIM is ND
MW-1016D-20131003-01	10/3/13	12:45	C	W	SB			3			3	
TB-003-20131003-01	10/3/13			W	SB			3			3	
MW-1014-20131003-01	10/3/13	14:40	C	W	SB			3			3	
MW-1013-20131003-01	10/3/13	14:35	C	W	BR			3			3	
MW-1033-20131003-01	10/3/13	13:10	C	W	JM			3	2	1	6	Only run 522 if SIM is ND
MW-1003-20131003-01	10/3/13	15:10	C	W	JM			3			3	

Possible Hazard Identification
[X] Non-Hazard [ ] Flammable [ ] Skin Irritant [ ] Poison B [ ] Unknown [ ] Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
[ ] Return To Client [X] Disposal By Lab [ ] Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
[signature]	10/3/13 15:15		[signature]		TAC
[signature]	10/3/13 1630	TAC	[signature]	10/4/13 0930	TAC

Custody Seals Intact: [ ] Yes [ ] No
Custody Seal No.:
Cooler Temperature(s) °C and Other Remarks: 2.7 #1

TAL-8245-360 1111

TestAmerica

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ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

TestAmerica Job ID: 480-47164-1
Client Project/Site: IDS Wayland

For:
ERM-Northeast
One Beacon Steet
5th Floor
Boston, Massachusetts 02108

Attn: Jason Flattery

Authorized for release by:
10/14/2013 10:35:02 AM

Becky Mason, Project Manager II
(413)572-4000
becky.mason@testamericainc.com

LINKS

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The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-47164-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
F	MS/MSD Recovery and/or RPD exceeds the control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-47164-1

Job ID: 480-47164-1

Laboratory: TestAmerica Buffalo

Narrative

Receipt
The samples were received on 10/4/2013 1:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.7º C.

GC/MS VOA
Method 8260C: The following samples were diluted to bring the concentration of target analytes within the calibration range: (480-47164-4 MS), (480-47164-4 MSD), MW-217M-2013003-01 (480-47164-4). Elevated reporting limits (RLs) are provided.

Method 8260C: The matrix spike duplicate (MSD) recovery for batch 143927 was outside control limits. The associated laboratory control sample (LCS) recovery met acceptance criteria.

With the exception of diluted samples, per question G on the MassDEP Analytical Protocol Certification Form, TestAmerica's routine reporting limits do not achieve the CAM reporting limits specified in this CAM protocol for 1,2-dibromo-3-chloropropane, Carbon Disulfide, Isopropyl Ether, Naphthalene, tert-Butyl Ethyl Ether, tert-Amyl Methyl Ether, & Tetrahydrofuran.

No other analytical or quality issues were noted.

MassDEP Analytical Protocol Certification Form

Laboratory Name:	**TestAmerica Buffalo**	Project #:	**480-47164-1**
Project Location:	**Wayland**	RTN:	

This form provides certifications for the following data set: list Laboratory Sample ID Number(s):

480-47154-1[1-5]

Matrices: [X] Groundwater/Surface Water [ ] Soil/Sediment [ ] Drinking Water [ ] Air [ ] Other:

CAM Protocols (check all that apply below):

8260 VOC CAM II A [X]	7470/7471 Hg CAM III B [ ]	Mass DEP VPH CAM IV A [ ]	8081 Pesticides CAM V B [ ]	7196 Hex Cr CAM VI B [ ]	Mass DEP APH CAM IX A [ ]
8270 SVOC CAM II B [ ]	6010 Metals CAM III C [ ]	Mass DEP EPH CAM IV B [ ]	8151 Herbicides CAM V C [ ]	8330 Explosives CAM VIII A [ ]	TO-15 VOC CAM IX B [ ]
6010 Metals CAM III A [ ]	6020 Metals CAM III D [ ]	8082 PCB CAM V A [ ]	9014 Total Cyanide/PAC CAM VI A [ ]	6860 Perchlorate CAM VIII B [ ]	

Affirmative Responses to Questions A through F are required for "Presumptive Certainty" status

A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding time.	[X] Yes [ ] No
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	[X] Yes [ ] No
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	[X] Yes [ ] No
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	[X] Yes [ ] No
E	a. VPH, EPH and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications). b. APH and TO-15 Methods only: Was the complete analyte list reported for each method?	[ ] Yes [ ] No [ ] Yes [ ] No
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	[X] Yes [ ] No

Responses to Questions G, H and I below are required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	[ ] Yes [X] No[1]

***Data User Note:* Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WCS-07-350**

H	Were **all** QC performance standards specified in the CAM protocol(s) achieved?	[X] Yes [ ] No[1]
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s) ?	[X] Yes [ ] No[1]

[1] All negative responses must be addressed in an attached laboratory narrative.

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, is accurate and complete.

Signature:	Becky Mason	Position:	Project Manager
Printed Name:	Becky Mason	Date:	10/14/13 10:33

This form has been electronically signed and approved

Detection Summary

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-47164-1

Client Sample ID: MW-217S-2013003-01 — Lab Sample ID: 480-47164-1

No Detections.

Client Sample ID: MW-217D-2013003-01 — Lab Sample ID: 480-47164-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Trichloroethene	3.0		1.0		ug/L	1		8260C	Total/NA

Client Sample ID: DUP-004-2013003-01 — Lab Sample ID: 480-47164-3

No Detections.

Client Sample ID: MW-217M-2013003-01 — Lab Sample ID: 480-47164-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methyl tert-butyl ether	250		4.0		ug/L	4		8260C	Total/NA
Tert-amyl methyl ether	76		20		ug/L	4		8260C	Total/NA
Trichloroethene	5.1		4.0		ug/L	4		8260C	Total/NA

Client Sample ID: Trip Blank — Lab Sample ID: 480-47164-5

No Detections.

This Detection Summary does not include radiochemical test results.

Client Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-47164-1

Client Sample ID: MW-217S-2013003-01

Lab Sample ID: 480-47164-1

Date Collected: 10/03/13 09:15

Matrix: Water

Date Received: 10/04/13 01:30

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			10/10/13 17:27	1
1,1,1-Trichloroethane	ND		1.0		ug/L			10/10/13 17:27	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			10/10/13 17:27	1
1,1,2-Trichloroethane	ND		1.0		ug/L			10/10/13 17:27	1
1,1-Dichloroethane	ND		1.0		ug/L			10/10/13 17:27	1
1,1-Dichloroethene	ND		1.0		ug/L			10/10/13 17:27	1
1,1-Dichloropropene	ND		1.0		ug/L			10/10/13 17:27	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			10/10/13 17:27	1
1,2,3-Trichloropropane	ND		1.0		ug/L			10/10/13 17:27	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			10/10/13 17:27	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			10/10/13 17:27	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			10/10/13 17:27	1
1,2-Dichlorobenzene	ND		1.0		ug/L			10/10/13 17:27	1
1,2-Dichloroethane	ND		1.0		ug/L			10/10/13 17:27	1
1,2-Dichloropropane	ND		1.0		ug/L			10/10/13 17:27	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			10/10/13 17:27	1
1,3-Dichlorobenzene	ND		1.0		ug/L			10/10/13 17:27	1
1,3-Dichloropropane	ND		1.0		ug/L			10/10/13 17:27	1
1,4-Dichlorobenzene	ND		1.0		ug/L			10/10/13 17:27	1
1,4-Dioxane	ND		50		ug/L			10/10/13 17:27	1
2,2-Dichloropropane	ND		1.0		ug/L			10/10/13 17:27	1
2-Butanone (MEK)	ND		10		ug/L			10/10/13 17:27	1
2-Chlorotoluene	ND		1.0		ug/L			10/10/13 17:27	1
2-Hexanone	ND		10		ug/L			10/10/13 17:27	1
4-Chlorotoluene	ND		1.0		ug/L			10/10/13 17:27	1
4-Isopropyltoluene	ND		1.0		ug/L			10/10/13 17:27	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			10/10/13 17:27	1
Acetone	ND		50		ug/L			10/10/13 17:27	1
Benzene	ND		1.0		ug/L			10/10/13 17:27	1
Bromobenzene	ND		1.0		ug/L			10/10/13 17:27	1
Bromoform	ND		1.0		ug/L			10/10/13 17:27	1
Bromomethane	ND		2.0		ug/L			10/10/13 17:27	1
Carbon disulfide	ND		10		ug/L			10/10/13 17:27	1
Carbon tetrachloride	ND		1.0		ug/L			10/10/13 17:27	1
Chlorobenzene	ND		1.0		ug/L			10/10/13 17:27	1
Chlorobromomethane	ND		1.0		ug/L			10/10/13 17:27	1
Chlorodibromomethane	ND		0.50		ug/L			10/10/13 17:27	1
Chloroethane	ND		2.0		ug/L			10/10/13 17:27	1
Chloroform	ND		1.0		ug/L			10/10/13 17:27	1
Chloromethane	ND		2.0		ug/L			10/10/13 17:27	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			10/10/13 17:27	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			10/10/13 17:27	1
Dichlorobromomethane	ND		0.50		ug/L			10/10/13 17:27	1
Dichlorodifluoromethane	ND		1.0		ug/L			10/10/13 17:27	1
Ethyl ether	ND		1.0		ug/L			10/10/13 17:27	1
Ethylbenzene	ND		1.0		ug/L			10/10/13 17:27	1
Ethylene Dibromide	ND		1.0		ug/L			10/10/13 17:27	1
Hexachlorobutadiene	ND		0.40		ug/L			10/10/13 17:27	1
Isopropyl ether	ND		10		ug/L			10/10/13 17:27	1

Client Sample ID: MW-217S-2013003-01

Lab Sample ID: 480-47164-1

Date Collected: 10/03/13 09:15

Matrix: Water

Date Received: 10/04/13 01:30

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	ND		1.0		ug/L			10/10/13 17:27	1
Methyl tert-butyl ether	ND		1.0		ug/L			10/10/13 17:27	1
Methylene Chloride	ND		1.0		ug/L			10/10/13 17:27	1
m-Xylene & p-Xylene	ND		2.0		ug/L			10/10/13 17:27	1
Naphthalene	ND		5.0		ug/L			10/10/13 17:27	1
n-Butylbenzene	ND		1.0		ug/L			10/10/13 17:27	1
N-Propylbenzene	ND		1.0		ug/L			10/10/13 17:27	1
o-Xylene	ND		1.0		ug/L			10/10/13 17:27	1
sec-Butylbenzene	ND		1.0		ug/L			10/10/13 17:27	1
Styrene	ND		1.0		ug/L			10/10/13 17:27	1
Tert-amyl methyl ether	ND		5.0		ug/L			10/10/13 17:27	1
Tert-butyl ethyl ether	ND		5.0		ug/L			10/10/13 17:27	1
tert-Butylbenzene	ND		1.0		ug/L			10/10/13 17:27	1
Tetrachloroethene	ND		1.0		ug/L			10/10/13 17:27	1
Tetrahydrofuran	ND		10		ug/L			10/10/13 17:27	1
Toluene	ND		1.0		ug/L			10/10/13 17:27	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			10/10/13 17:27	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			10/10/13 17:27	1
Trichloroethene	ND		1.0		ug/L			10/10/13 17:27	1
Trichlorofluoromethane	ND		1.0		ug/L			10/10/13 17:27	1
Vinyl chloride	ND		1.0		ug/L			10/10/13 17:27	1
Dibromomethane	ND		1.0		ug/L			10/10/13 17:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*94*		*70 - 130*		*10/10/13 17:27*	*1*
1,2-Dichloroethane-d4 (Surr)	*89*		*70 - 130*		*10/10/13 17:27*	*1*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*		*10/10/13 17:27*	*1*

Client Sample ID: MW-217D-2013003-01

Lab Sample ID: 480-47164-2

Date Collected: 10/03/13 11:15

Matrix: Water

Date Received: 10/04/13 01:30

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			10/10/13 17:50	1
1,1,1-Trichloroethane	ND		1.0		ug/L			10/10/13 17:50	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			10/10/13 17:50	1
1,1,2-Trichloroethane	ND		1.0		ug/L			10/10/13 17:50	1
1,1-Dichloroethane	ND		1.0		ug/L			10/10/13 17:50	1
1,1-Dichloroethene	ND		1.0		ug/L			10/10/13 17:50	1
1,1-Dichloropropene	ND		1.0		ug/L			10/10/13 17:50	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			10/10/13 17:50	1
1,2,3-Trichloropropane	ND		1.0		ug/L			10/10/13 17:50	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			10/10/13 17:50	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			10/10/13 17:50	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			10/10/13 17:50	1
1,2-Dichlorobenzene	ND		1.0		ug/L			10/10/13 17:50	1
1,2-Dichloroethane	ND		1.0		ug/L			10/10/13 17:50	1
1,2-Dichloropropane	ND		1.0		ug/L			10/10/13 17:50	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			10/10/13 17:50	1

Client Sample ID: MW-217D-2013003-01
Date Collected: 10/03/13 11:15
Date Received: 10/04/13 01:30

Lab Sample ID: 480-47164-2
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	ND		1.0		ug/L			10/10/13 17:50	1
1,3-Dichloropropane	ND		1.0		ug/L			10/10/13 17:50	1
1,4-Dichlorobenzene	ND		1.0		ug/L			10/10/13 17:50	1
1,4-Dioxane	ND		50		ug/L			10/10/13 17:50	1
2,2-Dichloropropane	ND		1.0		ug/L			10/10/13 17:50	1
2-Butanone (MEK)	ND		10		ug/L			10/10/13 17:50	1
2-Chlorotoluene	ND		1.0		ug/L			10/10/13 17:50	1
2-Hexanone	ND		10		ug/L			10/10/13 17:50	1
4-Chlorotoluene	ND		1.0		ug/L			10/10/13 17:50	1
4-Isopropyltoluene	ND		1.0		ug/L			10/10/13 17:50	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			10/10/13 17:50	1
Acetone	ND		50		ug/L			10/10/13 17:50	1
Benzene	ND		1.0		ug/L			10/10/13 17:50	1
Bromobenzene	ND		1.0		ug/L			10/10/13 17:50	1
Bromoform	ND		1.0		ug/L			10/10/13 17:50	1
Bromomethane	ND		2.0		ug/L			10/10/13 17:50	1
Carbon disulfide	ND		10		ug/L			10/10/13 17:50	1
Carbon tetrachloride	ND		1.0		ug/L			10/10/13 17:50	1
Chlorobenzene	ND		1.0		ug/L			10/10/13 17:50	1
Chlorobromomethane	ND		1.0		ug/L			10/10/13 17:50	1
Chlorodibromomethane	ND		0.50		ug/L			10/10/13 17:50	1
Chloroethane	ND		2.0		ug/L			10/10/13 17:50	1
Chloroform	ND		1.0		ug/L			10/10/13 17:50	1
Chloromethane	ND		2.0		ug/L			10/10/13 17:50	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			10/10/13 17:50	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			10/10/13 17:50	1
Dichlorobromomethane	ND		0.50		ug/L			10/10/13 17:50	1
Dichlorodifluoromethane	ND		1.0		ug/L			10/10/13 17:50	1
Ethyl ether	ND		1.0		ug/L			10/10/13 17:50	1
Ethylbenzene	ND		1.0		ug/L			10/10/13 17:50	1
Ethylene Dibromide	ND		1.0		ug/L			10/10/13 17:50	1
Hexachlorobutadiene	ND		0.40		ug/L			10/10/13 17:50	1
Isopropyl ether	ND		10		ug/L			10/10/13 17:50	1
Isopropylbenzene	ND		1.0		ug/L			10/10/13 17:50	1
Methyl tert-butyl ether	ND		1.0		ug/L			10/10/13 17:50	1
Methylene Chloride	ND		1.0		ug/L			10/10/13 17:50	1
m-Xylene & p-Xylene	ND		2.0		ug/L			10/10/13 17:50	1
Naphthalene	ND		5.0		ug/L			10/10/13 17:50	1
n-Butylbenzene	ND		1.0		ug/L			10/10/13 17:50	1
N-Propylbenzene	ND		1.0		ug/L			10/10/13 17:50	1
o-Xylene	ND		1.0		ug/L			10/10/13 17:50	1
sec-Butylbenzene	ND		1.0		ug/L			10/10/13 17:50	1
Styrene	ND		1.0		ug/L			10/10/13 17:50	1
Tert-amyl methyl ether	ND		5.0		ug/L			10/10/13 17:50	1
Tert-butyl ethyl ether	ND		5.0		ug/L			10/10/13 17:50	1
tert-Butylbenzene	ND		1.0		ug/L			10/10/13 17:50	1
Tetrachloroethene	ND		1.0		ug/L			10/10/13 17:50	1
Tetrahydrofuran	ND		10		ug/L			10/10/13 17:50	1
Toluene	ND		1.0		ug/L			10/10/13 17:50	1

Client Sample ID: MW-217D-2013003-01

Lab Sample ID: 480-47164-2

Date Collected: 10/03/13 11:15

Matrix: Water

Date Received: 10/04/13 01:30

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	ND		1.0		ug/L			10/10/13 17:50	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			10/10/13 17:50	1
Trichloroethene	**3.0**		1.0		ug/L			10/10/13 17:50	1
Trichlorofluoromethane	ND		1.0		ug/L			10/10/13 17:50	1
Vinyl chloride	ND		1.0		ug/L			10/10/13 17:50	1
Dibromomethane	ND		1.0		ug/L			10/10/13 17:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*92*		*70 - 130*		*10/10/13 17:50*	*1*
1,2-Dichloroethane-d4 (Surr)	*90*		*70 - 130*		*10/10/13 17:50*	*1*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*		*10/10/13 17:50*	*1*

Client Sample ID: DUP-004-2013003-01

Lab Sample ID: 480-47164-3

Date Collected: 10/03/13 11:11

Matrix: Water

Date Received: 10/04/13 01:30

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			10/10/13 18:13	1
1,1,1-Trichloroethane	ND		1.0		ug/L			10/10/13 18:13	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			10/10/13 18:13	1
1,1,2-Trichloroethane	ND		1.0		ug/L			10/10/13 18:13	1
1,1-Dichloroethane	ND		1.0		ug/L			10/10/13 18:13	1
1,1-Dichloroethene	ND		1.0		ug/L			10/10/13 18:13	1
1,1-Dichloropropene	ND		1.0		ug/L			10/10/13 18:13	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			10/10/13 18:13	1
1,2,3-Trichloropropane	ND		1.0		ug/L			10/10/13 18:13	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			10/10/13 18:13	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			10/10/13 18:13	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			10/10/13 18:13	1
1,2-Dichlorobenzene	ND		1.0		ug/L			10/10/13 18:13	1
1,2-Dichloroethane	ND		1.0		ug/L			10/10/13 18:13	1
1,2-Dichloropropane	ND		1.0		ug/L			10/10/13 18:13	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			10/10/13 18:13	1
1,3-Dichlorobenzene	ND		1.0		ug/L			10/10/13 18:13	1
1,3-Dichloropropane	ND		1.0		ug/L			10/10/13 18:13	1
1,4-Dichlorobenzene	ND		1.0		ug/L			10/10/13 18:13	1
1,4-Dioxane	ND		50		ug/L			10/10/13 18:13	1
2,2-Dichloropropane	ND		1.0		ug/L			10/10/13 18:13	1
2-Butanone (MEK)	ND		10		ug/L			10/10/13 18:13	1
2-Chlorotoluene	ND		1.0		ug/L			10/10/13 18:13	1
2-Hexanone	ND		10		ug/L			10/10/13 18:13	1
4-Chlorotoluene	ND		1.0		ug/L			10/10/13 18:13	1
4-Isopropyltoluene	ND		1.0		ug/L			10/10/13 18:13	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			10/10/13 18:13	1
Acetone	ND		50		ug/L			10/10/13 18:13	1
Benzene	ND		1.0		ug/L			10/10/13 18:13	1
Bromobenzene	ND		1.0		ug/L			10/10/13 18:13	1
Bromoform	ND		1.0		ug/L			10/10/13 18:13	1
Bromomethane	ND		2.0		ug/L			10/10/13 18:13	1

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-47164-1

Client Sample ID: DUP-004-2013003-01
Date Collected: 10/03/13 11:11
Date Received: 10/04/13 01:30

Lab Sample ID: 480-47164-3
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	ND		10		ug/L			10/10/13 18:13	1
Carbon tetrachloride	ND		1.0		ug/L			10/10/13 18:13	1
Chlorobenzene	ND		1.0		ug/L			10/10/13 18:13	1
Chlorobromomethane	ND		1.0		ug/L			10/10/13 18:13	1
Chlorodibromomethane	ND		0.50		ug/L			10/10/13 18:13	1
Chloroethane	ND		2.0		ug/L			10/10/13 18:13	1
Chloroform	ND		1.0		ug/L			10/10/13 18:13	1
Chloromethane	ND		2.0		ug/L			10/10/13 18:13	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			10/10/13 18:13	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			10/10/13 18:13	1
Dichlorobromomethane	ND		0.50		ug/L			10/10/13 18:13	1
Dichlorodifluoromethane	ND		1.0		ug/L			10/10/13 18:13	1
Ethyl ether	ND		1.0		ug/L			10/10/13 18:13	1
Ethylbenzene	ND		1.0		ug/L			10/10/13 18:13	1
Ethylene Dibromide	ND		1.0		ug/L			10/10/13 18:13	1
Hexachlorobutadiene	ND		0.40		ug/L			10/10/13 18:13	1
Isopropyl ether	ND		10		ug/L			10/10/13 18:13	1
Isopropylbenzene	ND		1.0		ug/L			10/10/13 18:13	1
Methyl tert-butyl ether	ND		1.0		ug/L			10/10/13 18:13	1
Methylene Chloride	ND		1.0		ug/L			10/10/13 18:13	1
m-Xylene & p-Xylene	ND		2.0		ug/L			10/10/13 18:13	1
Naphthalene	ND		5.0		ug/L			10/10/13 18:13	1
n-Butylbenzene	ND		1.0		ug/L			10/10/13 18:13	1
N-Propylbenzene	ND		1.0		ug/L			10/10/13 18:13	1
o-Xylene	ND		1.0		ug/L			10/10/13 18:13	1
sec-Butylbenzene	ND		1.0		ug/L			10/10/13 18:13	1
Styrene	ND		1.0		ug/L			10/10/13 18:13	1
Tert-amyl methyl ether	ND		5.0		ug/L			10/10/13 18:13	1
Tert-butyl ethyl ether	ND		5.0		ug/L			10/10/13 18:13	1
tert-Butylbenzene	ND		1.0		ug/L			10/10/13 18:13	1
Tetrachloroethene	ND		1.0		ug/L			10/10/13 18:13	1
Tetrahydrofuran	ND		10		ug/L			10/10/13 18:13	1
Toluene	ND		1.0		ug/L			10/10/13 18:13	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			10/10/13 18:13	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			10/10/13 18:13	1
Trichloroethene	ND		1.0		ug/L			10/10/13 18:13	1
Trichlorofluoromethane	ND		1.0		ug/L			10/10/13 18:13	1
Vinyl chloride	ND		1.0		ug/L			10/10/13 18:13	1
Dibromomethane	ND		1.0		ug/L			10/10/13 18:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*96*		*70 - 130*		*10/10/13 18:13*	*1*
1,2-Dichloroethane-d4 (Surr)	*89*		*70 - 130*		*10/10/13 18:13*	*1*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*		*10/10/13 18:13*	*1*

Client Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-47164-1

Client Sample ID: MW-217M-2013003-01

Lab Sample ID: 480-47164-4

Date Collected: 10/03/13 10:10
Matrix: Water
Date Received: 10/04/13 01:30

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		4.0		ug/L			10/10/13 18:37	4
1,1,1-Trichloroethane	ND		4.0		ug/L			10/10/13 18:37	4
1,1,2,2-Tetrachloroethane	ND		2.0		ug/L			10/10/13 18:37	4
1,1,2-Trichloroethane	ND		4.0		ug/L			10/10/13 18:37	4
1,1-Dichloroethane	ND		4.0		ug/L			10/10/13 18:37	4
1,1-Dichloroethene	ND		4.0		ug/L			10/10/13 18:37	4
1,1-Dichloropropene	ND		4.0		ug/L			10/10/13 18:37	4
1,2,3-Trichlorobenzene	ND		4.0		ug/L			10/10/13 18:37	4
1,2,3-Trichloropropane	ND		4.0		ug/L			10/10/13 18:37	4
1,2,4-Trichlorobenzene	ND		4.0		ug/L			10/10/13 18:37	4
1,2,4-Trimethylbenzene	ND		4.0		ug/L			10/10/13 18:37	4
1,2-Dibromo-3-Chloropropane	ND		20		ug/L			10/10/13 18:37	4
1,2-Dichlorobenzene	ND		4.0		ug/L			10/10/13 18:37	4
1,2-Dichloroethane	ND		4.0		ug/L			10/10/13 18:37	4
1,2-Dichloropropane	ND		4.0		ug/L			10/10/13 18:37	4
1,3,5-Trimethylbenzene	ND		4.0		ug/L			10/10/13 18:37	4
1,3-Dichlorobenzene	ND		4.0		ug/L			10/10/13 18:37	4
1,3-Dichloropropane	ND		4.0		ug/L			10/10/13 18:37	4
1,4-Dichlorobenzene	ND		4.0		ug/L			10/10/13 18:37	4
1,4-Dioxane	ND		200		ug/L			10/10/13 18:37	4
2,2-Dichloropropane	ND		4.0		ug/L			10/10/13 18:37	4
2-Butanone (MEK)	ND		40		ug/L			10/10/13 18:37	4
2-Chlorotoluene	ND		4.0		ug/L			10/10/13 18:37	4
2-Hexanone	ND		40		ug/L			10/10/13 18:37	4
4-Chlorotoluene	ND		4.0		ug/L			10/10/13 18:37	4
4-Isopropyltoluene	ND		4.0		ug/L			10/10/13 18:37	4
4-Methyl-2-pentanone (MIBK)	ND		40		ug/L			10/10/13 18:37	4
Acetone	ND		200		ug/L			10/10/13 18:37	4
Benzene	ND		4.0		ug/L			10/10/13 18:37	4
Bromobenzene	ND		4.0		ug/L			10/10/13 18:37	4
Bromoform	ND		4.0		ug/L			10/10/13 18:37	4
Bromomethane	ND		8.0		ug/L			10/10/13 18:37	4
Carbon disulfide	ND		40		ug/L			10/10/13 18:37	4
Carbon tetrachloride	ND		4.0		ug/L			10/10/13 18:37	4
Chlorobenzene	ND		4.0		ug/L			10/10/13 18:37	4
Chlorobromomethane	ND		4.0		ug/L			10/10/13 18:37	4
Chlorodibromomethane	ND		2.0		ug/L			10/10/13 18:37	4
Chloroethane	ND		8.0		ug/L			10/10/13 18:37	4
Chloroform	ND		4.0		ug/L			10/10/13 18:37	4
Chloromethane	ND		8.0		ug/L			10/10/13 18:37	4
cis-1,2-Dichloroethene	ND		4.0		ug/L			10/10/13 18:37	4
cis-1,3-Dichloropropene	ND		1.6		ug/L			10/10/13 18:37	4
Dichlorobromomethane	ND		2.0		ug/L			10/10/13 18:37	4
Dichlorodifluoromethane	ND		4.0		ug/L			10/10/13 18:37	4
Ethyl ether	ND		4.0		ug/L			10/10/13 18:37	4
Ethylbenzene	ND		4.0		ug/L			10/10/13 18:37	4
Ethylene Dibromide	ND		4.0		ug/L			10/10/13 18:37	4
Hexachlorobutadiene	ND		1.6		ug/L			10/10/13 18:37	4
Isopropyl ether	ND		40		ug/L			10/10/13 18:37	4

Client Sample ID: MW-217M-2013003-01

Lab Sample ID: 480-47164-4

Date Collected: 10/03/13 10:10

Matrix: Water

Date Received: 10/04/13 01:30

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	ND		4.0		ug/L			10/10/13 18:37	4
Methyl tert-butyl ether	**250**		4.0		ug/L			10/10/13 18:37	4
Methylene Chloride	ND		4.0		ug/L			10/10/13 18:37	4
m-Xylene & p-Xylene	ND		8.0		ug/L			10/10/13 18:37	4
Naphthalene	ND		20		ug/L			10/10/13 18:37	4
n-Butylbenzene	ND		4.0		ug/L			10/10/13 18:37	4
N-Propylbenzene	ND		4.0		ug/L			10/10/13 18:37	4
o-Xylene	ND		4.0		ug/L			10/10/13 18:37	4
sec-Butylbenzene	ND		4.0		ug/L			10/10/13 18:37	4
Styrene	ND		4.0		ug/L			10/10/13 18:37	4
Tert-amyl methyl ether	**76**		20		ug/L			10/10/13 18:37	4
Tert-butyl ethyl ether	ND		20		ug/L			10/10/13 18:37	4
tert-Butylbenzene	ND		4.0		ug/L			10/10/13 18:37	4
Tetrachloroethene	ND		4.0		ug/L			10/10/13 18:37	4
Tetrahydrofuran	ND		40		ug/L			10/10/13 18:37	4
Toluene	ND		4.0		ug/L			10/10/13 18:37	4
trans-1,2-Dichloroethene	ND		4.0		ug/L			10/10/13 18:37	4
trans-1,3-Dichloropropene	ND		1.6		ug/L			10/10/13 18:37	4
Trichloroethene	**5.1**		4.0		ug/L			10/10/13 18:37	4
Trichlorofluoromethane	ND		4.0		ug/L			10/10/13 18:37	4
Vinyl chloride	ND		4.0		ug/L			10/10/13 18:37	4
Dibromomethane	ND		4.0		ug/L			10/10/13 18:37	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*95*		*70 - 130*		*10/10/13 18:37*	*4*
1,2-Dichloroethane-d4 (Surr)	*88*		*70 - 130*		*10/10/13 18:37*	*4*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*		*10/10/13 18:37*	*4*

Client Sample ID: Trip Blank

Lab Sample ID: 480-47164-5

Date Collected: 10/03/13 00:00

Matrix: Water

Date Received: 10/04/13 01:30

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			10/10/13 19:01	1
1,1,1-Trichloroethane	ND		1.0		ug/L			10/10/13 19:01	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			10/10/13 19:01	1
1,1,2-Trichloroethane	ND		1.0		ug/L			10/10/13 19:01	1
1,1-Dichloroethane	ND		1.0		ug/L			10/10/13 19:01	1
1,1-Dichloroethene	ND		1.0		ug/L			10/10/13 19:01	1
1,1-Dichloropropene	ND		1.0		ug/L			10/10/13 19:01	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			10/10/13 19:01	1
1,2,3-Trichloropropane	ND		1.0		ug/L			10/10/13 19:01	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			10/10/13 19:01	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			10/10/13 19:01	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			10/10/13 19:01	1
1,2-Dichlorobenzene	ND		1.0		ug/L			10/10/13 19:01	1
1,2-Dichloroethane	ND		1.0		ug/L			10/10/13 19:01	1
1,2-Dichloropropane	ND		1.0		ug/L			10/10/13 19:01	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			10/10/13 19:01	1

Client Sample ID: Trip Blank

Lab Sample ID: 480-47164-5

Date Collected: 10/03/13 00:00

Matrix: Water

Date Received: 10/04/13 01:30

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	ND		1.0		ug/L			10/10/13 19:01	1
1,3-Dichloropropane	ND		1.0		ug/L			10/10/13 19:01	1
1,4-Dichlorobenzene	ND		1.0		ug/L			10/10/13 19:01	1
1,4-Dioxane	ND		50		ug/L			10/10/13 19:01	1
2,2-Dichloropropane	ND		1.0		ug/L			10/10/13 19:01	1
2-Butanone (MEK)	ND		10		ug/L			10/10/13 19:01	1
2-Chlorotoluene	ND		1.0		ug/L			10/10/13 19:01	1
2-Hexanone	ND		10		ug/L			10/10/13 19:01	1
4-Chlorotoluene	ND		1.0		ug/L			10/10/13 19:01	1
4-Isopropyltoluene	ND		1.0		ug/L			10/10/13 19:01	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			10/10/13 19:01	1
Acetone	ND		50		ug/L			10/10/13 19:01	1
Benzene	ND		1.0		ug/L			10/10/13 19:01	1
Bromobenzene	ND		1.0		ug/L			10/10/13 19:01	1
Bromoform	ND		1.0		ug/L			10/10/13 19:01	1
Bromomethane	ND		2.0		ug/L			10/10/13 19:01	1
Carbon disulfide	ND		10		ug/L			10/10/13 19:01	1
Carbon tetrachloride	ND		1.0		ug/L			10/10/13 19:01	1
Chlorobenzene	ND		1.0		ug/L			10/10/13 19:01	1
Chlorobromomethane	ND		1.0		ug/L			10/10/13 19:01	1
Chlorodibromomethane	ND		0.50		ug/L			10/10/13 19:01	1
Chloroethane	ND		2.0		ug/L			10/10/13 19:01	1
Chloroform	ND		1.0		ug/L			10/10/13 19:01	1
Chloromethane	ND		2.0		ug/L			10/10/13 19:01	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			10/10/13 19:01	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			10/10/13 19:01	1
Dichlorobromomethane	ND		0.50		ug/L			10/10/13 19:01	1
Dichlorodifluoromethane	ND		1.0		ug/L			10/10/13 19:01	1
Ethyl ether	ND		1.0		ug/L			10/10/13 19:01	1
Ethylbenzene	ND		1.0		ug/L			10/10/13 19:01	1
Ethylene Dibromide	ND		1.0		ug/L			10/10/13 19:01	1
Hexachlorobutadiene	ND		0.40		ug/L			10/10/13 19:01	1
Isopropyl ether	ND		10		ug/L			10/10/13 19:01	1
Isopropylbenzene	ND		1.0		ug/L			10/10/13 19:01	1
Methyl tert-butyl ether	ND		1.0		ug/L			10/10/13 19:01	1
Methylene Chloride	ND		1.0		ug/L			10/10/13 19:01	1
m-Xylene & p-Xylene	ND		2.0		ug/L			10/10/13 19:01	1
Naphthalene	ND		5.0		ug/L			10/10/13 19:01	1
n-Butylbenzene	ND		1.0		ug/L			10/10/13 19:01	1
N-Propylbenzene	ND		1.0		ug/L			10/10/13 19:01	1
o-Xylene	ND		1.0		ug/L			10/10/13 19:01	1
sec-Butylbenzene	ND		1.0		ug/L			10/10/13 19:01	1
Styrene	ND		1.0		ug/L			10/10/13 19:01	1
Tert-amyl methyl ether	ND		5.0		ug/L			10/10/13 19:01	1
Tert-butyl ethyl ether	ND		5.0		ug/L			10/10/13 19:01	1
tert-Butylbenzene	ND		1.0		ug/L			10/10/13 19:01	1
Tetrachloroethene	ND		1.0		ug/L			10/10/13 19:01	1
Tetrahydrofuran	ND		10		ug/L			10/10/13 19:01	1
Toluene	ND		1.0		ug/L			10/10/13 19:01	1

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-47164-1

Client Sample ID: Trip Blank

Lab Sample ID: 480-47164-5

Date Collected: 10/03/13 00:00

Matrix: Water

Date Received: 10/04/13 01:30

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	ND		1.0		ug/L			10/10/13 19:01	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			10/10/13 19:01	1
Trichloroethene	ND		1.0		ug/L			10/10/13 19:01	1
Trichlorofluoromethane	ND		1.0		ug/L			10/10/13 19:01	1
Vinyl chloride	ND		1.0		ug/L			10/10/13 19:01	1
Dibromomethane	ND		1.0		ug/L			10/10/13 19:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*93*		*70 - 130*		*10/10/13 19:01*	*1*
1,2-Dichloroethane-d4 (Surr)	*90*		*70 - 130*		*10/10/13 19:01*	*1*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*		*10/10/13 19:01*	*1*

Surrogate Summary

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-47164-1

Method: 8260C - Volatile Organic Compounds (GC/MS)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		TOL	12DCE	BFB
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	(70-130)
480-47164-1	MW-217S-2013003-01	94	89	106
480-47164-2	MW-217D-2013003-01	92	90	105
480-47164-3	DUP-004-2013003-01	96	89	109
480-47164-4	MW-217M-2013003-01	95	88	108
480-47164-4 MS	MW-217M-2013003-01	95	85	113
480-47164-4 MSD	MW-217M-2013003-01	95	83	110
480-47164-5	Trip Blank	93	90	105
LCS 480-143927/5	Lab Control Sample	97	86	111
LCSD 480-143927/6	Lab Control Sample Dup	97	84	114
MB 480-143927/8	Method Blank	96	90	108

Surrogate Legend

TOL = Toluene-d8 (Surr)

12DCE = 1,2-Dichloroethane-d4 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

Method: 8260C - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-143927/8
Matrix: Water
Analysis Batch: 143927

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			10/10/13 12:30	1
1,1,1-Trichloroethane	ND		1.0		ug/L			10/10/13 12:30	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			10/10/13 12:30	1
1,1,2-Trichloroethane	ND		1.0		ug/L			10/10/13 12:30	1
1,1-Dichloroethane	ND		1.0		ug/L			10/10/13 12:30	1
1,1-Dichloroethene	ND		1.0		ug/L			10/10/13 12:30	1
1,1-Dichloropropene	ND		1.0		ug/L			10/10/13 12:30	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			10/10/13 12:30	1
1,2,3-Trichloropropane	ND		1.0		ug/L			10/10/13 12:30	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			10/10/13 12:30	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			10/10/13 12:30	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			10/10/13 12:30	1
1,2-Dichlorobenzene	ND		1.0		ug/L			10/10/13 12:30	1
1,2-Dichloroethane	ND		1.0		ug/L			10/10/13 12:30	1
1,2-Dichloropropane	ND		1.0		ug/L			10/10/13 12:30	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			10/10/13 12:30	1
1,3-Dichlorobenzene	ND		1.0		ug/L			10/10/13 12:30	1
1,3-Dichloropropane	ND		1.0		ug/L			10/10/13 12:30	1
1,4-Dichlorobenzene	ND		1.0		ug/L			10/10/13 12:30	1
1,4-Dioxane	ND		50		ug/L			10/10/13 12:30	1
2,2-Dichloropropane	ND		1.0		ug/L			10/10/13 12:30	1
2-Butanone (MEK)	ND		10		ug/L			10/10/13 12:30	1
2-Chlorotoluene	ND		1.0		ug/L			10/10/13 12:30	1
2-Hexanone	ND		10		ug/L			10/10/13 12:30	1
4-Chlorotoluene	ND		1.0		ug/L			10/10/13 12:30	1
4-Isopropyltoluene	ND		1.0		ug/L			10/10/13 12:30	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			10/10/13 12:30	1
Acetone	ND		50		ug/L			10/10/13 12:30	1
Benzene	ND		1.0		ug/L			10/10/13 12:30	1
Bromobenzene	ND		1.0		ug/L			10/10/13 12:30	1
Bromoform	ND		1.0		ug/L			10/10/13 12:30	1
Bromomethane	ND		2.0		ug/L			10/10/13 12:30	1
Carbon disulfide	ND		10		ug/L			10/10/13 12:30	1
Carbon tetrachloride	ND		1.0		ug/L			10/10/13 12:30	1
Chlorobenzene	ND		1.0		ug/L			10/10/13 12:30	1
Chlorobromomethane	ND		1.0		ug/L			10/10/13 12:30	1
Chlorodibromomethane	ND		0.50		ug/L			10/10/13 12:30	1
Chloroethane	ND		2.0		ug/L			10/10/13 12:30	1
Chloroform	ND		1.0		ug/L			10/10/13 12:30	1
Chloromethane	ND		2.0		ug/L			10/10/13 12:30	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			10/10/13 12:30	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			10/10/13 12:30	1
Dichlorobromomethane	ND		0.50		ug/L			10/10/13 12:30	1
Dichlorodifluoromethane	ND		1.0		ug/L			10/10/13 12:30	1
Ethyl ether	ND		1.0		ug/L			10/10/13 12:30	1
Ethylbenzene	ND		1.0		ug/L			10/10/13 12:30	1
Ethylene Dibromide	ND		1.0		ug/L			10/10/13 12:30	1
Hexachlorobutadiene	ND		0.40		ug/L			10/10/13 12:30	1

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-143927/8
Matrix: Water
Analysis Batch: 143927

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropyl ether	ND		10		ug/L			10/10/13 12:30	1
Isopropylbenzene	ND		1.0		ug/L			10/10/13 12:30	1
Methyl tert-butyl ether	ND		1.0		ug/L			10/10/13 12:30	1
Methylene Chloride	ND		1.0		ug/L			10/10/13 12:30	1
m-Xylene & p-Xylene	ND		2.0		ug/L			10/10/13 12:30	1
Naphthalene	ND		5.0		ug/L			10/10/13 12:30	1
n-Butylbenzene	ND		1.0		ug/L			10/10/13 12:30	1
N-Propylbenzene	ND		1.0		ug/L			10/10/13 12:30	1
o-Xylene	ND		1.0		ug/L			10/10/13 12:30	1
sec-Butylbenzene	ND		1.0		ug/L			10/10/13 12:30	1
Styrene	ND		1.0		ug/L			10/10/13 12:30	1
Tert-amyl methyl ether	ND		5.0		ug/L			10/10/13 12:30	1
Tert-butyl ethyl ether	ND		5.0		ug/L			10/10/13 12:30	1
tert-Butylbenzene	ND		1.0		ug/L			10/10/13 12:30	1
Tetrachloroethene	ND		1.0		ug/L			10/10/13 12:30	1
Tetrahydrofuran	ND		10		ug/L			10/10/13 12:30	1
Toluene	ND		1.0		ug/L			10/10/13 12:30	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			10/10/13 12:30	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			10/10/13 12:30	1
Trichloroethene	ND		1.0		ug/L			10/10/13 12:30	1
Trichlorofluoromethane	ND		1.0		ug/L			10/10/13 12:30	1
Vinyl chloride	ND		1.0		ug/L			10/10/13 12:30	1
Dibromomethane	ND		1.0		ug/L			10/10/13 12:30	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*96*		*70 - 130*		*10/10/13 12:30*	*1*
1,2-Dichloroethane-d4 (Surr)	*90*		*70 - 130*		*10/10/13 12:30*	*1*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*		*10/10/13 12:30*	*1*

Lab Sample ID: LCS 480-143927/5
Matrix: Water
Analysis Batch: 143927

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	25.0	25.6		ug/L		102	70 - 130
1,1,1-Trichloroethane	25.0	24.7		ug/L		99	70 - 130
1,1,2,2-Tetrachloroethane	25.0	22.1		ug/L		89	70 - 130
1,1,2-Trichloroethane	25.0	23.4		ug/L		94	70 - 130
1,1-Dichloroethane	25.0	24.1		ug/L		96	70 - 130
1,1-Dichloroethene	25.0	26.8		ug/L		107	70 - 130
1,1-Dichloropropene	25.0	24.3		ug/L		97	70 - 130
1,2,3-Trichlorobenzene	25.0	27.2		ug/L		109	70 - 130
1,2,3-Trichloropropane	25.0	21.6		ug/L		86	70 - 130
1,2,4-Trichlorobenzene	25.0	26.5		ug/L		106	70 - 130
1,2,4-Trimethylbenzene	25.0	24.6		ug/L		98	70 - 130
1,2-Dibromo-3-Chloropropane	25.0	24.1		ug/L		96	70 - 130
1,2-Dichlorobenzene	25.0	25.7		ug/L		103	70 - 130
1,2-Dichloroethane	25.0	22.3		ug/L		89	70 - 130

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-143927/5
Matrix: Water
Analysis Batch: 143927

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichloropropane	25.0	23.7		ug/L		95	70 - 130
1,3,5-Trimethylbenzene	25.0	25.4		ug/L		102	70 - 130
1,3-Dichlorobenzene	25.0	25.6		ug/L		103	70 - 130
1,3-Dichloropropane	25.0	23.1		ug/L		93	70 - 130
1,4-Dichlorobenzene	25.0	25.9		ug/L		104	70 - 130
1,4-Dioxane	1000	901		ug/L		90	70 - 130
2,2-Dichloropropane	25.0	24.1		ug/L		96	70 - 130
2-Butanone (MEK)	125	150		ug/L		120	70 - 130
2-Chlorotoluene	25.0	24.1		ug/L		97	70 - 130
2-Hexanone	125	107		ug/L		86	70 - 130
4-Chlorotoluene	25.0	24.2		ug/L		97	70 - 130
4-Isopropyltoluene	25.0	26.3		ug/L		105	70 - 130
4-Methyl-2-pentanone (MIBK)	125	104		ug/L		83	70 - 130
Acetone	125	112		ug/L		90	70 - 130
Benzene	25.0	26.4		ug/L		105	70 - 130
Bromobenzene	25.0	25.2		ug/L		101	70 - 130
Bromoform	25.0	23.1		ug/L		92	70 - 130
Bromomethane	25.0	26.7		ug/L		107	70 - 130
Carbon disulfide	25.0	30.6		ug/L		122	70 - 130
Carbon tetrachloride	25.0	24.4		ug/L		97	70 - 130
Chlorobenzene	25.0	25.2		ug/L		101	70 - 130
Chlorobromomethane	25.0	26.9		ug/L		107	70 - 130
Chlorodibromomethane	25.0	22.0		ug/L		88	70 - 130
Chloroethane	25.0	28.0		ug/L		112	70 - 130
Chloroform	25.0	24.9		ug/L		99	70 - 130
Chloromethane	25.0	20.1		ug/L		81	70 - 130
cis-1,2-Dichloroethene	25.0	25.6		ug/L		103	70 - 130
cis-1,3-Dichloropropene	25.0	25.7		ug/L		103	70 - 130
Dichlorobromomethane	25.0	25.2		ug/L		101	70 - 130
Dichlorodifluoromethane	50.0	52.0		ug/L		104	70 - 130
Ethyl ether	25.0	26.5		ug/L		106	70 - 130
Ethylbenzene	25.0	25.2		ug/L		101	70 - 130
Ethylene Dibromide	25.0	24.7		ug/L		99	70 - 130
Hexachlorobutadiene	25.0	28.6		ug/L		114	70 - 130
Isopropyl ether	25.0	22.3		ug/L		89	70 - 130
Isopropylbenzene	25.0	23.8		ug/L		95	70 - 130
Methyl tert-butyl ether	25.0	26.0		ug/L		104	70 - 130
Methylene Chloride	25.0	25.2		ug/L		101	70 - 130
m-Xylene & p-Xylene	50.0	51.7		ug/L		103	70 - 130
Naphthalene	25.0	26.0		ug/L		104	70 - 130
n-Butylbenzene	25.0	25.0		ug/L		100	70 - 130
N-Propylbenzene	25.0	22.3		ug/L		89	70 - 130
o-Xylene	25.0	25.6		ug/L		103	70 - 130
sec-Butylbenzene	25.0	25.1		ug/L		100	70 - 130
Styrene	25.0	26.6		ug/L		107	70 - 130
Tert-amyl methyl ether	25.0	23.1		ug/L		92	70 - 130
Tert-butyl ethyl ether	25.0	22.5		ug/L		90	70 - 130
tert-Butylbenzene	25.0	25.0		ug/L		100	70 - 130

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-143927/5
Matrix: Water
Analysis Batch: 143927

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Tetrachloroethene	25.0	29.4		ug/L		118	70 - 130
Tetrahydrofuran	125	107		ug/L		86	70 - 130
Toluene	25.0	25.1		ug/L		100	70 - 130
trans-1,2-Dichloroethene	25.0	25.6		ug/L		102	70 - 130
trans-1,3-Dichloropropene	25.0	23.9		ug/L		96	70 - 130
Trichloroethene	25.0	25.1		ug/L		101	70 - 130
Trichlorofluoromethane	25.0	27.6		ug/L		110	70 - 130
Vinyl chloride	25.0	27.6		ug/L		110	70 - 130
Dibromomethane	25.0	23.8		ug/L		95	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*97*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*86*		*70 - 130*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*

Lab Sample ID: LCSD 480-143927/6
Matrix: Water
Analysis Batch: 143927

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	25.0	25.2		ug/L		101	70 - 130	1	20
1,1,1-Trichloroethane	25.0	22.5		ug/L		90	70 - 130	9	20
1,1,2,2-Tetrachloroethane	25.0	22.7		ug/L		91	70 - 130	3	20
1,1,2-Trichloroethane	25.0	23.3		ug/L		93	70 - 130	1	20
1,1-Dichloroethane	25.0	22.2		ug/L		89	70 - 130	8	20
1,1-Dichloroethene	25.0	25.0		ug/L		100	70 - 130	7	20
1,1-Dichloropropene	25.0	22.1		ug/L		88	70 - 130	10	20
1,2,3-Trichlorobenzene	25.0	27.2		ug/L		109	70 - 130	0	20
1,2,3-Trichloropropane	25.0	21.8		ug/L		87	70 - 130	1	20
1,2,4-Trichlorobenzene	25.0	27.6		ug/L		110	70 - 130	4	20
1,2,4-Trimethylbenzene	25.0	24.4		ug/L		98	70 - 130	1	20
1,2-Dibromo-3-Chloropropane	25.0	24.7		ug/L		99	70 - 130	3	20
1,2-Dichlorobenzene	25.0	25.6		ug/L		102	70 - 130	0	20
1,2-Dichloroethane	25.0	21.0		ug/L		84	70 - 130	6	20
1,2-Dichloropropane	25.0	22.1		ug/L		89	70 - 130	7	20
1,3,5-Trimethylbenzene	25.0	25.2		ug/L		101	70 - 130	1	20
1,3-Dichlorobenzene	25.0	25.8		ug/L		103	70 - 130	0	20
1,3-Dichloropropane	25.0	23.2		ug/L		93	70 - 130	0	20
1,4-Dichlorobenzene	25.0	25.5		ug/L		102	70 - 130	2	20
1,4-Dioxane	1000	938		ug/L		94	70 - 130	4	20
2,2-Dichloropropane	25.0	21.8		ug/L		87	70 - 130	10	20
2-Butanone (MEK)	125	143		ug/L		115	70 - 130	5	20
2-Chlorotoluene	25.0	24.2		ug/L		97	70 - 130	0	20
2-Hexanone	125	106		ug/L		84	70 - 130	1	20
4-Chlorotoluene	25.0	24.2		ug/L		97	70 - 130	0	20
4-Isopropyltoluene	25.0	26.0		ug/L		104	70 - 130	1	20
4-Methyl-2-pentanone (MIBK)	125	102		ug/L		82	70 - 130	2	20
Acetone	125	107		ug/L		86	70 - 130	4	20

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 480-143927/6
Matrix: Water
Analysis Batch: 143927

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	25.0	24.6		ug/L		98	70 - 130	7	20
Bromobenzene	25.0	25.3		ug/L		101	70 - 130	0	20
Bromoform	25.0	22.8		ug/L		91	70 - 130	1	20
Bromomethane	25.0	23.3		ug/L		93	70 - 130	14	20
Carbon disulfide	25.0	28.5		ug/L		114	70 - 130	7	20
Carbon tetrachloride	25.0	22.6		ug/L		90	70 - 130	8	20
Chlorobenzene	25.0	24.5		ug/L		98	70 - 130	3	20
Chlorobromomethane	25.0	26.0		ug/L		104	70 - 130	3	20
Chlorodibromomethane	25.0	22.4		ug/L		90	70 - 130	2	20
Chloroethane	25.0	25.7		ug/L		103	70 - 130	9	20
Chloroform	25.0	23.3		ug/L		93	70 - 130	7	20
Chloromethane	25.0	18.6		ug/L		74	70 - 130	8	20
cis-1,2-Dichloroethene	25.0	24.2		ug/L		97	70 - 130	6	20
cis-1,3-Dichloropropene	25.0	24.5		ug/L		98	70 - 130	5	20
Dichlorobromomethane	25.0	23.8		ug/L		95	70 - 130	6	20
Dichlorodifluoromethane	50.0	46.5		ug/L		93	70 - 130	11	20
Ethyl ether	25.0	25.1		ug/L		100	70 - 130	6	20
Ethylbenzene	25.0	24.6		ug/L		99	70 - 130	2	20
Ethylene Dibromide	25.0	24.8		ug/L		99	70 - 130	0	20
Hexachlorobutadiene	25.0	27.5		ug/L		110	70 - 130	4	20
Isopropyl ether	25.0	21.4		ug/L		86	70 - 130	4	20
Isopropylbenzene	25.0	24.0		ug/L		96	70 - 130	1	20
Methyl tert-butyl ether	25.0	24.9		ug/L		100	70 - 130	4	20
Methylene Chloride	25.0	23.4		ug/L		93	70 - 130	8	20
m-Xylene & p-Xylene	50.0	50.6		ug/L		101	70 - 130	2	20
Naphthalene	25.0	26.4		ug/L		106	70 - 130	2	20
n-Butylbenzene	25.0	24.5		ug/L		98	70 - 130	2	20
N-Propylbenzene	25.0	22.4		ug/L		90	70 - 130	0	20
o-Xylene	25.0	24.9		ug/L		100	70 - 130	3	20
sec-Butylbenzene	25.0	24.8		ug/L		99	70 - 130	1	20
Styrene	25.0	26.1		ug/L		105	70 - 130	2	20
Tert-amyl methyl ether	25.0	21.9		ug/L		88	70 - 130	5	20
Tert-butyl ethyl ether	25.0	21.7		ug/L		87	70 - 130	4	20
tert-Butylbenzene	25.0	24.7		ug/L		99	70 - 130	1	20
Tetrachloroethene	25.0	29.2		ug/L		117	70 - 130	1	20
Tetrahydrofuran	125	102		ug/L		82	70 - 130	4	20
Toluene	25.0	24.9		ug/L		100	70 - 130	1	20
trans-1,2-Dichloroethene	25.0	24.2		ug/L		97	70 - 130	6	20
trans-1,3-Dichloropropene	25.0	23.4		ug/L		94	70 - 130	2	20
Trichloroethene	25.0	23.8		ug/L		95	70 - 130	6	20
Trichlorofluoromethane	25.0	25.3		ug/L		101	70 - 130	9	20
Vinyl chloride	25.0	25.7		ug/L		103	70 - 130	7	20
Dibromomethane	25.0	23.1		ug/L		92	70 - 130	3	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*97*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*84*		*70 - 130*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 480-47164-4 MS
Matrix: Water
Analysis Batch: 143927

Client Sample ID: MW-217M-2013003-01
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	ND		100	98.4		ug/L		98	70 - 130
1,1,1-Trichloroethane	ND		100	97.1		ug/L		97	70 - 130
1,1,2,2-Tetrachloroethane	ND		100	88.9		ug/L		89	70 - 130
1,1,2-Trichloroethane	ND		100	95.0		ug/L		95	70 - 130
1,1-Dichloroethane	ND		100	95.6		ug/L		94	70 - 130
1,1-Dichloroethene	ND		100	109		ug/L		109	70 - 130
1,1-Dichloropropene	ND		100	97.1		ug/L		97	70 - 130
1,2,3-Trichlorobenzene	ND		100	104		ug/L		104	70 - 130
1,2,3-Trichloropropane	ND		100	89.0		ug/L		89	70 - 130
1,2,4-Trichlorobenzene	ND		100	106		ug/L		106	70 - 130
1,2,4-Trimethylbenzene	ND		100	97.6		ug/L		98	70 - 130
1,2-Dibromo-3-Chloropropane	ND		100	95.0		ug/L		95	70 - 130
1,2-Dichlorobenzene	ND		100	102		ug/L		102	70 - 130
1,2-Dichloroethane	ND		100	86.5		ug/L		87	70 - 130
1,2-Dichloropropane	ND		100	93.1		ug/L		93	70 - 130
1,3,5-Trimethylbenzene	ND		100	101		ug/L		101	70 - 130
1,3-Dichlorobenzene	ND		100	101		ug/L		101	70 - 130
1,3-Dichloropropane	ND		100	93.7		ug/L		94	70 - 130
1,4-Dichlorobenzene	ND		100	102		ug/L		102	70 - 130
1,4-Dioxane	ND		4000	3830		ug/L		96	70 - 130
2,2-Dichloropropane	ND		100	77.0		ug/L		77	70 - 130
2-Butanone (MEK)	ND		500	568		ug/L		114	70 - 130
2-Chlorotoluene	ND		100	96.1		ug/L		96	70 - 130
2-Hexanone	ND		500	414		ug/L		83	70 - 130
4-Chlorotoluene	ND		100	96.0		ug/L		96	70 - 130
4-Isopropyltoluene	ND		100	104		ug/L		104	70 - 130
4-Methyl-2-pentanone (MIBK)	ND		500	410		ug/L		82	70 - 130
Acetone	ND		500	400		ug/L		80	70 - 130
Benzene	ND		100	103		ug/L		103	70 - 130
Bromobenzene	ND		100	99.4		ug/L		99	70 - 130
Bromoform	ND		100	88.1		ug/L		88	70 - 130
Bromomethane	ND		100	103		ug/L		103	70 - 130
Carbon disulfide	ND		100	107		ug/L		107	70 - 130
Carbon tetrachloride	ND		100	98.3		ug/L		98	70 - 130
Chlorobenzene	ND		100	102		ug/L		102	70 - 130
Chlorobromomethane	ND		100	107		ug/L		107	70 - 130
Chlorodibromomethane	ND		100	86.7		ug/L		87	70 - 130
Chloroethane	ND		100	108		ug/L		108	70 - 130
Chloroform	ND		100	96.7		ug/L		97	70 - 130
Chloromethane	ND		100	85.1		ug/L		85	70 - 130
cis-1,2-Dichloroethene	ND		100	102		ug/L		102	70 - 130
cis-1,3-Dichloropropene	ND		100	97.7		ug/L		98	70 - 130
Dichlorobromomethane	ND		100	97.2		ug/L		97	70 - 130
Dichlorodifluoromethane	ND		200	215		ug/L		108	70 - 130
Ethyl ether	ND		100	105		ug/L		105	70 - 130
Ethylbenzene	ND		100	101		ug/L		101	70 - 130
Ethylene Dibromide	ND		100	95.8		ug/L		96	70 - 130
Hexachlorobutadiene	ND		100	104		ug/L		104	70 - 130

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 480-47164-4 MS
Matrix: Water
Analysis Batch: 143927

Client Sample ID: MW-217M-2013003-01
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Isopropyl ether	ND		100	86.9		ug/L		87	70 - 130
Isopropylbenzene	ND		100	95.9		ug/L		96	70 - 130
Methyl tert-butyl ether	250		100	321		ug/L		70	70 - 130
Methylene Chloride	ND		100	99.9		ug/L		100	70 - 130
m-Xylene & p-Xylene	ND		200	206		ug/L		103	70 - 130
Naphthalene	ND		100	103		ug/L		103	70 - 130
n-Butylbenzene	ND		100	96.6		ug/L		97	70 - 130
N-Propylbenzene	ND		100	88.3		ug/L		88	70 - 130
o-Xylene	ND		100	103		ug/L		103	70 - 130
sec-Butylbenzene	ND		100	98.4		ug/L		98	70 - 130
Styrene	ND		100	106		ug/L		106	70 - 130
Tert-amyl methyl ether	76		100	160		ug/L		84	70 - 130
Tert-butyl ethyl ether	ND		100	86.8		ug/L		87	70 - 130
tert-Butylbenzene	ND		100	97.5		ug/L		98	70 - 130
Tetrachloroethene	ND		100	114		ug/L		114	70 - 130
Tetrahydrofuran	ND		500	410		ug/L		82	70 - 130
Toluene	ND		100	101		ug/L		101	70 - 130
trans-1,2-Dichloroethene	ND		100	101		ug/L		101	70 - 130
trans-1,3-Dichloropropene	ND		100	91.0		ug/L		91	70 - 130
Trichloroethene	5.1		100	102		ug/L		96	70 - 130
Trichlorofluoromethane	ND		100	117		ug/L		117	70 - 130
Vinyl chloride	ND		100	112		ug/L		112	70 - 130
Dibromomethane	ND		100	94.5		ug/L		95	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Toluene-d8 (Surr)	*95*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*85*		*70 - 130*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*

Lab Sample ID: 480-47164-4 MSD
Matrix: Water
Analysis Batch: 143927

Client Sample ID: MW-217M-2013003-01
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	ND		100	97.8		ug/L		98	70 - 130	1	20
1,1,1-Trichloroethane	ND		100	89.4		ug/L		89	70 - 130	8	20
1,1,2,2-Tetrachloroethane	ND		100	87.1		ug/L		87	70 - 130	2	20
1,1,2-Trichloroethane	ND		100	93.1		ug/L		93	70 - 130	2	20
1,1-Dichloroethane	ND		100	90.5		ug/L		89	70 - 130	5	20
1,1-Dichloroethene	ND		100	103		ug/L		103	70 - 130	5	20
1,1-Dichloropropene	ND		100	90.7		ug/L		91	70 - 130	7	20
1,2,3-Trichlorobenzene	ND		100	107		ug/L		107	70 - 130	2	20
1,2,3-Trichloropropane	ND		100	87.0		ug/L		87	70 - 130	2	20
1,2,4-Trichlorobenzene	ND		100	106		ug/L		106	70 - 130	1	20
1,2,4-Trimethylbenzene	ND		100	93.2		ug/L		93	70 - 130	5	20
1,2-Dibromo-3-Chloropropane	ND		100	95.8		ug/L		96	70 - 130	1	20
1,2-Dichlorobenzene	ND		100	100		ug/L		100	70 - 130	2	20
1,2-Dichloroethane	ND		100	83.6		ug/L		84	70 - 130	3	20

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 480-47164-4 MSD
Matrix: Water
Analysis Batch: 143927

Client Sample ID: MW-217M-2013003-01
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Dichloropropane	ND		100	89.5		ug/L		89	70 - 130	4	20
1,3,5-Trimethylbenzene	ND		100	96.9		ug/L		97	70 - 130	4	20
1,3-Dichlorobenzene	ND		100	98.4		ug/L		98	70 - 130	3	20
1,3-Dichloropropane	ND		100	92.5		ug/L		92	70 - 130	1	20
1,4-Dichlorobenzene	ND		100	99.0		ug/L		99	70 - 130	3	20
1,4-Dioxane	ND		4000	4060		ug/L		101	70 - 130	6	20
2,2-Dichloropropane	ND		100	70.6		ug/L		71	70 - 130	9	20
2-Butanone (MEK)	ND		500	552		ug/L		110	70 - 130	3	20
2-Chlorotoluene	ND		100	91.9		ug/L		92	70 - 130	5	20
2-Hexanone	ND		500	406		ug/L		81	70 - 130	2	20
4-Chlorotoluene	ND		100	92.5		ug/L		93	70 - 130	4	20
4-Isopropyltoluene	ND		100	100		ug/L		100	70 - 130	3	20
4-Methyl-2-pentanone (MIBK)	ND		500	400		ug/L		80	70 - 130	3	20
Acetone	ND		500	390		ug/L		78	70 - 130	3	20
Benzene	ND		100	97.5		ug/L		97	70 - 130	5	20
Bromobenzene	ND		100	96.5		ug/L		96	70 - 130	3	20
Bromoform	ND		100	87.9		ug/L		88	70 - 130	0	20
Bromomethane	ND		100	90.9		ug/L		91	70 - 130	12	20
Carbon disulfide	ND		100	100		ug/L		100	70 - 130	7	20
Carbon tetrachloride	ND		100	90.9		ug/L		91	70 - 130	8	20
Chlorobenzene	ND		100	96.7		ug/L		97	70 - 130	5	20
Chlorobromomethane	ND		100	101		ug/L		101	70 - 130	6	20
Chlorodibromomethane	ND		100	87.0		ug/L		87	70 - 130	0	20
Chloroethane	ND		100	97.7		ug/L		98	70 - 130	10	20
Chloroform	ND		100	94.0		ug/L		94	70 - 130	3	20
Chloromethane	ND		100	81.7		ug/L		82	70 - 130	4	20
cis-1,2-Dichloroethene	ND		100	97.4		ug/L		97	70 - 130	5	20
cis-1,3-Dichloropropene	ND		100	93.4		ug/L		93	70 - 130	4	20
Dichlorobromomethane	ND		100	91.9		ug/L		92	70 - 130	6	20
Dichlorodifluoromethane	ND		200	190		ug/L		95	70 - 130	12	20
Ethyl ether	ND		100	102		ug/L		102	70 - 130	3	20
Ethylbenzene	ND		100	96.1		ug/L		96	70 - 130	5	20
Ethylene Dibromide	ND		100	97.3		ug/L		97	70 - 130	2	20
Hexachlorobutadiene	ND		100	106		ug/L		106	70 - 130	2	20
Isopropyl ether	ND		100	83.6		ug/L		84	70 - 130	4	20
Isopropylbenzene	ND		100	91.0		ug/L		91	70 - 130	5	20
Methyl tert-butyl ether	250		100	315	F	ug/L		63	70 - 130	2	20
Methylene Chloride	ND		100	95.7		ug/L		96	70 - 130	4	20
m-Xylene & p-Xylene	ND		200	199		ug/L		100	70 - 130	3	20
Naphthalene	ND		100	103		ug/L		103	70 - 130	1	20
n-Butylbenzene	ND		100	93.7		ug/L		94	70 - 130	3	20
N-Propylbenzene	ND		100	85.6		ug/L		86	70 - 130	3	20
o-Xylene	ND		100	101		ug/L		101	70 - 130	2	20
sec-Butylbenzene	ND		100	94.8		ug/L		95	70 - 130	4	20
Styrene	ND		100	103		ug/L		103	70 - 130	3	20
Tert-amyl methyl ether	76		100	157		ug/L		81	70 - 130	2	20
Tert-butyl ethyl ether	ND		100	85.2		ug/L		85	70 - 130	2	20
tert-Butylbenzene	ND		100	96.9		ug/L		97	70 - 130	1	20

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 480-47164-4 MSD
Matrix: Water
Analysis Batch: 143927

Client Sample ID: MW-217M-2013003-01
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Tetrachloroethene	ND		100	111		ug/L		111	70 - 130	3	20
Tetrahydrofuran	ND		500	400		ug/L		80	70 - 130	2	20
Toluene	ND		100	97.8		ug/L		98	70 - 130	4	20
trans-1,2-Dichloroethene	ND		100	94.9		ug/L		95	70 - 130	7	20
trans-1,3-Dichloropropene	ND		100	91.7		ug/L		92	70 - 130	1	20
Trichloroethene	5.1		100	98.1		ug/L		93	70 - 130	3	20
Trichlorofluoromethane	ND		100	112		ug/L		112	70 - 130	4	20
Vinyl chloride	ND		100	105		ug/L		105	70 - 130	6	20
Dibromomethane	ND		100	92.4		ug/L		92	70 - 130	2	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*95*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*83*		*70 - 130*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*

QC Association Summary

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-47164-1

GC/MS VOA

Analysis Batch: 143927

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-47164-1	MW-217S-2013003-01	Total/NA	Water	8260C	
480-47164-2	MW-217D-2013003-01	Total/NA	Water	8260C	
480-47164-3	DUP-004-2013003-01	Total/NA	Water	8260C	
480-47164-4	MW-217M-2013003-01	Total/NA	Water	8260C	
480-47164-4 MS	MW-217M-2013003-01	Total/NA	Water	8260C	
480-47164-4 MSD	MW-217M-2013003-01	Total/NA	Water	8260C	
480-47164-5	Trip Blank	Total/NA	Water	8260C	
LCS 480-143927/5	Lab Control Sample	Total/NA	Water	8260C	
LCSD 480-143927/6	Lab Control Sample Dup	Total/NA	Water	8260C	
MB 480-143927/8	Method Blank	Total/NA	Water	8260C	

Lab Chronicle

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-47164-1

Client Sample ID: MW-217S-2013003-01 — Lab Sample ID: 480-47164-1

Date Collected: 10/03/13 09:15 — **Matrix: Water**
Date Received: 10/04/13 01:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	143927	10/10/13 17:27	LCH	TAL BUF

Client Sample ID: MW-217D-2013003-01 — Lab Sample ID: 480-47164-2

Date Collected: 10/03/13 11:15 — **Matrix: Water**
Date Received: 10/04/13 01:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	143927	10/10/13 17:50	LCH	TAL BUF

Client Sample ID: DUP-004-2013003-01 — Lab Sample ID: 480-47164-3

Date Collected: 10/03/13 11:11 — **Matrix: Water**
Date Received: 10/04/13 01:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	143927	10/10/13 18:13	LCH	TAL BUF

Client Sample ID: MW-217M-2013003-01 — Lab Sample ID: 480-47164-4

Date Collected: 10/03/13 10:10 — **Matrix: Water**
Date Received: 10/04/13 01:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		4	143927	10/10/13 18:37	LCH	TAL BUF

Client Sample ID: Trip Blank — Lab Sample ID: 480-47164-5

Date Collected: 10/03/13 00:00 — **Matrix: Water**
Date Received: 10/04/13 01:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	143927	10/10/13 19:01	LCH	TAL BUF

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Certification Summary

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-47164-1

Laboratory: TestAmerica Buffalo

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Arkansas DEQ	State Program	6	88-0686	11-06-13
California	NELAP	9	1169CA	10-30-13
Connecticut	State Program	1	PH-0568	09-30-14
Florida	NELAP	4	E87672	06-30-14
Georgia	State Program	4	N/A	03-31-14
Iowa	State Program	7	374	03-15-15
Kansas	NELAP	7	E-10187	01-31-14
Kentucky	State Program	4	90029	12-31-13
Kentucky (UST)	State Program	4	30	04-01-14
Louisiana	NELAP	6	02031	06-30-14
Maine	State Program	1	NY00044	12-04-14
Maryland	State Program	3	294	03-31-14
Massachusetts	State Program	1	M-NY044	06-30-14
Michigan	State Program	5	9937	04-01-14
Minnesota	NELAP	5	036-999-337	12-31-13
New Hampshire	NELAP	1	2973	09-11-14
New Jersey	NELAP	2	NY455	06-30-14
New York	NELAP	2	10026	04-01-14
North Dakota	State Program	8	R-176	03-31-14
Oklahoma	State Program	6	9421	08-31-14
Oregon	NELAP	10	NY200003	06-09-14
Pennsylvania	NELAP	3	68-00281	07-31-14
Rhode Island	State Program	1	LAO00328	12-31-13
Tennessee	State Program	4	TN02970	04-01-14
Texas	NELAP	6	T104704412-11-2	07-31-14
USDA	Federal		P330-11-00386	11-22-14
Virginia	NELAP	3	460185	09-14-14
Washington	State Program	10	C784	02-10-14
West Virginia DEP	State Program	3	252	12-31-13
Wisconsin	State Program	5	998310390	08-31-14

Method Summary

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-47164-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds (GC/MS)	MA DEP	TAL BUF

Protocol References:

MA DEP = Massachusetts Department Of Environmental Protection

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Sample Summary

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-47164-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-47164-1	MW-217S-2013003-01	Water	10/03/13 09:15	10/04/13 01:30
480-47164-2	MW-217D-2013003-01	Water	10/03/13 11:15	10/04/13 01:30
480-47164-3	DUP-004-2013003-01	Water	10/03/13 11:11	10/04/13 01:30
480-47164-4	MW-217M-2013003-01	Water	10/03/13 10:10	10/04/13 01:30
480-47164-5	Trip Blank	Water	10/03/13 00:00	10/04/13 01:30

Login Sample Receipt Checklist

Client: ERM-Northeast

Job Number: 480-47164-1

Login Number: 47164
List Number: 1
Creator: Wienke, Robert K

List Source: TestAmerica Buffalo

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

TestAmerica Westfield
Westfield Executive Park 53 Southampton Road
Westfield, MA 01085
Phone (413) 572-4000 Fax (413) 572-3707

Boston Service Center
240 Bear Hill Rd. Suite 104
Waltham, MA 02451
Phone (781) 466-6900 Fax (781) 466-6901

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Stacey Briggs	Lab PM: Becky Mason	Carrier Tracking No(s):	COC No: 22358
Client Contact: Lyndsey Colburn	Phone: 978-875-0426	E-Mail:		Page: 1/1
Company: ERM				Job #:
Address: 1 Beacon St, 5th Floor	Due Date Requested:			
City: Boston	TAT Requested (days): 7 days			
State, Zip: MA 02108				
Phone: 1-617-646-7829	Quote #			
Email: Lyndsey.Colburn@erm.com	PO #			
Project Name/number: IPS Wayland 0169270 ci	WO #			
Site: Wayland, MA	SSOW#			

Analysis Requested

Preservation Codes:
A - HCL; B - NaOH; C - Zn Acetate; D - Nitric Acid; E - NaHSO4; F - MeOH; H - Ascorbic Acid; I - Ice; J - DI Water; M - Hexane; N - None; P - Na2O4S; Q - Na2SO3; R - Na2S2SO3; S - H2SO4; Z - other (specify)

Regulatory programs:
MCP [X] GW1/S1 [ ]
RCP [ ] CT RSR [ ]
DEP Form [ ] EDD Required [ ]

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Sampler's Initials	Field Filtered Sample?	Perform MS/MSD?	8260B - MCP	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
MW-217S 20131003-01	10/3/13	9:15	C	W	BM			3	3	
MW-217D-20131003-01	10/3/13	11:15	C	W	BM			3	3	
DUP-004-20130003-01	10/3/13	11:11	C	W	BM			3	3	
MW-217M-20131003-01	10/3/13	10:10	C	W	BM			3	3	

Possible Hazard Identification
[X] Non-Hazard [ ] Flammable [ ] Skin Irritant [ ] Poison B [ ] Unknown [ ] Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
[ ] Return To Client [X] Disposal By Lab [ ] Archive For ____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
[signature]	10/3/13 15:15		[signature]	10/3/13 15:15	TAL
[signature]	10/3/13 1630	TAL	[signature]	10/4/13 0930	TAL

Custody Seals Intact:	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:
Δ Yes Δ No		2.7+1

TAL-8245-360 1111

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Buffalo
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TestAmerica Job ID: 480-47165-1
Client Project/Site: IDS Wayland

For:
ERM-Northeast
One Beacon Steet
5th Floor
Boston, Massachusetts 02108

Attn: Jason Flattery

Authorized for release by:
10/14/2013 10:40:50 AM

Becky Mason, Project Manager II
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LINKS

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The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-47165-1

Job ID: 480-47165-1

Laboratory: TestAmerica Buffalo

Narrative

Receipt
The samples were received on 10/4/2013 1:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.7º C.

GC/MS VOA
With the exception of diluted samples, per question G on the MassDEP Analytical Protocol Certification Form, TestAmerica's routine reporting limits do not achieve the CAM reporting limits specified in this CAM protocol for 1,2-dibromo-3-chloropropane, Carbon Disulfide, Isopropyl Ether, Naphthalene, tert-Butyl Ethyl Ether, tert-Amyl Methyl Ether, & Tetrahydrofuran.

No analytical or quality issues were noted.

MassDEP Analytical Protocol Certification Form

Laboratory Name:	**TestAmerica Buffalo**	Project #:	**480-47165-1**
Project Location:	**Wayland**	RTN:	

This form provides certifications for the following data set: list Laboratory Sample ID Number(s):

480-47165-1[1-2]

Matrices: [X] Groundwater/Surface Water [ ] Soil/Sediment [ ] Drinking Water [ ] Air [ ] Other:

CAM Protocols (check all that apply below):

8260 VOC CAM II A [X]	7470/7471 Hg CAM III B [ ]	Mass DEP VPH CAM IV A [ ]	8081 Pesticides CAM V B [ ]	7196 Hex Cr CAM VI B [ ]	Mass DEP APH CAM IX A [ ]
8270 SVOC CAM II B [ ]	6010 Metals CAM III C [ ]	Mass DEP EPH CAM IV B [ ]	8151 Herbicides CAM V C [ ]	8330 Explosives CAM VIII A [ ]	TO-15 VOC CAM IX B [ ]
6010 Metals CAM III A [ ]	6020 Metals CAM III D [ ]	8082 PCB CAM V A [ ]	9014 Total Cyanide/PAC CAM VI A [ ]	6860 Perchlorate CAM VIII B [ ]	

Affirmative Responses to Questions A through F are required for "Presumptive Certainty" status

A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding time.	[X] Yes [ ] No
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	[X] Yes [ ] No
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	[X] Yes [ ] No
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	[X] Yes [ ] No
E	a. VPH, EPH and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications). b. APH and TO-15 Methods only: Was the complete analyte list reported for each method?	[ ] Yes [ ] No [ ] Yes [ ] No
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	[X] Yes [ ] No

Responses to Questions G, H and I below are required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	[ ] Yes [X] No[1]

***Data User Note:* Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WCS-07-350**

H	Were **all** QC performance standards specified in the CAM protocol(s) achieved?	[X] Yes [ ] No[1]
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s) ?	[X] Yes [ ] No[1]

[1] All negative responses must be addressed in an attached laboratory narrative.

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, is accurate and complete.

Signature:	Becky Mason	Position:	Project Manager
Printed Name:	Becky Mason	Date:	10/14/13 10:39

This form has been electronically signed and approved

Detection Summary

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-47165-1

Client Sample ID: SEN-3-2013003-01 — Lab Sample ID: 480-47165-1

No Detections.

Client Sample ID: Trip Blank — Lab Sample ID: 480-47165-2

No Detections.

This Detection Summary does not include radiochemical test results.

Client Sample ID: SEN-3-2013003-01
Date Collected: 10/03/13 10:40
Date Received: 10/04/13 01:30

Lab Sample ID: 480-47165-1
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			10/10/13 19:25	1
1,1,1-Trichloroethane	ND		1.0		ug/L			10/10/13 19:25	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			10/10/13 19:25	1
1,1,2-Trichloroethane	ND		1.0		ug/L			10/10/13 19:25	1
1,1-Dichloroethane	ND		1.0		ug/L			10/10/13 19:25	1
1,1-Dichloroethene	ND		1.0		ug/L			10/10/13 19:25	1
1,1-Dichloropropene	ND		1.0		ug/L			10/10/13 19:25	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			10/10/13 19:25	1
1,2,3-Trichloropropane	ND		1.0		ug/L			10/10/13 19:25	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			10/10/13 19:25	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			10/10/13 19:25	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			10/10/13 19:25	1
1,2-Dichlorobenzene	ND		1.0		ug/L			10/10/13 19:25	1
1,2-Dichloroethane	ND		1.0		ug/L			10/10/13 19:25	1
1,2-Dichloropropane	ND		1.0		ug/L			10/10/13 19:25	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			10/10/13 19:25	1
1,3-Dichlorobenzene	ND		1.0		ug/L			10/10/13 19:25	1
1,3-Dichloropropane	ND		1.0		ug/L			10/10/13 19:25	1
1,4-Dichlorobenzene	ND		1.0		ug/L			10/10/13 19:25	1
1,4-Dioxane	ND		50		ug/L			10/10/13 19:25	1
2,2-Dichloropropane	ND		1.0		ug/L			10/10/13 19:25	1
2-Butanone (MEK)	ND		10		ug/L			10/10/13 19:25	1
2-Chlorotoluene	ND		1.0		ug/L			10/10/13 19:25	1
2-Hexanone	ND		10		ug/L			10/10/13 19:25	1
4-Chlorotoluene	ND		1.0		ug/L			10/10/13 19:25	1
4-Isopropyltoluene	ND		1.0		ug/L			10/10/13 19:25	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			10/10/13 19:25	1
Acetone	ND		50		ug/L			10/10/13 19:25	1
Benzene	ND		1.0		ug/L			10/10/13 19:25	1
Bromobenzene	ND		1.0		ug/L			10/10/13 19:25	1
Bromoform	ND		1.0		ug/L			10/10/13 19:25	1
Bromomethane	ND		2.0		ug/L			10/10/13 19:25	1
Carbon disulfide	ND		10		ug/L			10/10/13 19:25	1
Carbon tetrachloride	ND		1.0		ug/L			10/10/13 19:25	1
Chlorobenzene	ND		1.0		ug/L			10/10/13 19:25	1
Chlorobromomethane	ND		1.0		ug/L			10/10/13 19:25	1
Chlorodibromomethane	ND		0.50		ug/L			10/10/13 19:25	1
Chloroethane	ND		2.0		ug/L			10/10/13 19:25	1
Chloroform	ND		1.0		ug/L			10/10/13 19:25	1
Chloromethane	ND		2.0		ug/L			10/10/13 19:25	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			10/10/13 19:25	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			10/10/13 19:25	1
Dichlorobromomethane	ND		0.50		ug/L			10/10/13 19:25	1
Dichlorodifluoromethane	ND		1.0		ug/L			10/10/13 19:25	1
Ethyl ether	ND		1.0		ug/L			10/10/13 19:25	1
Ethylbenzene	ND		1.0		ug/L			10/10/13 19:25	1
Ethylene Dibromide	ND		1.0		ug/L			10/10/13 19:25	1
Hexachlorobutadiene	ND		0.40		ug/L			10/10/13 19:25	1
Isopropyl ether	ND		10		ug/L			10/10/13 19:25	1

Client Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-47165-1

Client Sample ID: SEN-3-2013003-01

Lab Sample ID: 480-47165-1
Date Collected: 10/03/13 10:40
Matrix: Water
Date Received: 10/04/13 01:30

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	ND		1.0		ug/L			10/10/13 19:25	1
Methyl tert-butyl ether	ND		1.0		ug/L			10/10/13 19:25	1
Methylene Chloride	ND		1.0		ug/L			10/10/13 19:25	1
m-Xylene & p-Xylene	ND		2.0		ug/L			10/10/13 19:25	1
Naphthalene	ND		5.0		ug/L			10/10/13 19:25	1
n-Butylbenzene	ND		1.0		ug/L			10/10/13 19:25	1
N-Propylbenzene	ND		1.0		ug/L			10/10/13 19:25	1
o-Xylene	ND		1.0		ug/L			10/10/13 19:25	1
sec-Butylbenzene	ND		1.0		ug/L			10/10/13 19:25	1
Styrene	ND		1.0		ug/L			10/10/13 19:25	1
Tert-amyl methyl ether	ND		5.0		ug/L			10/10/13 19:25	1
Tert-butyl ethyl ether	ND		5.0		ug/L			10/10/13 19:25	1
tert-Butylbenzene	ND		1.0		ug/L			10/10/13 19:25	1
Tetrachloroethene	ND		1.0		ug/L			10/10/13 19:25	1
Tetrahydrofuran	ND		10		ug/L			10/10/13 19:25	1
Toluene	ND		1.0		ug/L			10/10/13 19:25	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			10/10/13 19:25	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			10/10/13 19:25	1
Trichloroethene	ND		1.0		ug/L			10/10/13 19:25	1
Trichlorofluoromethane	ND		1.0		ug/L			10/10/13 19:25	1
Vinyl chloride	ND		1.0		ug/L			10/10/13 19:25	1
Dibromomethane	ND		1.0		ug/L			10/10/13 19:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*95*		*70 - 130*		*10/10/13 19:25*	*1*
1,2-Dichloroethane-d4 (Surr)	*89*		*70 - 130*		*10/10/13 19:25*	*1*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*		*10/10/13 19:25*	*1*

Client Sample ID: Trip Blank

Lab Sample ID: 480-47165-2
Date Collected: 10/03/13 00:00
Matrix: Water
Date Received: 10/04/13 01:30

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			10/10/13 19:49	1
1,1,1-Trichloroethane	ND		1.0		ug/L			10/10/13 19:49	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			10/10/13 19:49	1
1,1,2-Trichloroethane	ND		1.0		ug/L			10/10/13 19:49	1
1,1-Dichloroethane	ND		1.0		ug/L			10/10/13 19:49	1
1,1-Dichloroethene	ND		1.0		ug/L			10/10/13 19:49	1
1,1-Dichloropropene	ND		1.0		ug/L			10/10/13 19:49	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			10/10/13 19:49	1
1,2,3-Trichloropropane	ND		1.0		ug/L			10/10/13 19:49	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			10/10/13 19:49	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			10/10/13 19:49	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			10/10/13 19:49	1
1,2-Dichlorobenzene	ND		1.0		ug/L			10/10/13 19:49	1
1,2-Dichloroethane	ND		1.0		ug/L			10/10/13 19:49	1
1,2-Dichloropropane	ND		1.0		ug/L			10/10/13 19:49	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			10/10/13 19:49	1

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-47165-1

Client Sample ID: Trip Blank

Lab Sample ID: 480-47165-2

Date Collected: 10/03/13 00:00
Matrix: Water
Date Received: 10/04/13 01:30

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	ND		1.0		ug/L			10/10/13 19:49	1
1,3-Dichloropropane	ND		1.0		ug/L			10/10/13 19:49	1
1,4-Dichlorobenzene	ND		1.0		ug/L			10/10/13 19:49	1
1,4-Dioxane	ND		50		ug/L			10/10/13 19:49	1
2,2-Dichloropropane	ND		1.0		ug/L			10/10/13 19:49	1
2-Butanone (MEK)	ND		10		ug/L			10/10/13 19:49	1
2-Chlorotoluene	ND		1.0		ug/L			10/10/13 19:49	1
2-Hexanone	ND		10		ug/L			10/10/13 19:49	1
4-Chlorotoluene	ND		1.0		ug/L			10/10/13 19:49	1
4-Isopropyltoluene	ND		1.0		ug/L			10/10/13 19:49	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			10/10/13 19:49	1
Acetone	ND		50		ug/L			10/10/13 19:49	1
Benzene	ND		1.0		ug/L			10/10/13 19:49	1
Bromobenzene	ND		1.0		ug/L			10/10/13 19:49	1
Bromoform	ND		1.0		ug/L			10/10/13 19:49	1
Bromomethane	ND		2.0		ug/L			10/10/13 19:49	1
Carbon disulfide	ND		10		ug/L			10/10/13 19:49	1
Carbon tetrachloride	ND		1.0		ug/L			10/10/13 19:49	1
Chlorobenzene	ND		1.0		ug/L			10/10/13 19:49	1
Chlorobromomethane	ND		1.0		ug/L			10/10/13 19:49	1
Chlorodibromomethane	ND		0.50		ug/L			10/10/13 19:49	1
Chloroethane	ND		2.0		ug/L			10/10/13 19:49	1
Chloroform	ND		1.0		ug/L			10/10/13 19:49	1
Chloromethane	ND		2.0		ug/L			10/10/13 19:49	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			10/10/13 19:49	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			10/10/13 19:49	1
Dichlorobromomethane	ND		0.50		ug/L			10/10/13 19:49	1
Dichlorodifluoromethane	ND		1.0		ug/L			10/10/13 19:49	1
Ethyl ether	ND		1.0		ug/L			10/10/13 19:49	1
Ethylbenzene	ND		1.0		ug/L			10/10/13 19:49	1
Ethylene Dibromide	ND		1.0		ug/L			10/10/13 19:49	1
Hexachlorobutadiene	ND		0.40		ug/L			10/10/13 19:49	1
Isopropyl ether	ND		10		ug/L			10/10/13 19:49	1
Isopropylbenzene	ND		1.0		ug/L			10/10/13 19:49	1
Methyl tert-butyl ether	ND		1.0		ug/L			10/10/13 19:49	1
Methylene Chloride	ND		1.0		ug/L			10/10/13 19:49	1
m-Xylene & p-Xylene	ND		2.0		ug/L			10/10/13 19:49	1
Naphthalene	ND		5.0		ug/L			10/10/13 19:49	1
n-Butylbenzene	ND		1.0		ug/L			10/10/13 19:49	1
N-Propylbenzene	ND		1.0		ug/L			10/10/13 19:49	1
o-Xylene	ND		1.0		ug/L			10/10/13 19:49	1
sec-Butylbenzene	ND		1.0		ug/L			10/10/13 19:49	1
Styrene	ND		1.0		ug/L			10/10/13 19:49	1
Tert-amyl methyl ether	ND		5.0		ug/L			10/10/13 19:49	1
Tert-butyl ethyl ether	ND		5.0		ug/L			10/10/13 19:49	1
tert-Butylbenzene	ND		1.0		ug/L			10/10/13 19:49	1
Tetrachloroethene	ND		1.0		ug/L			10/10/13 19:49	1
Tetrahydrofuran	ND		10		ug/L			10/10/13 19:49	1
Toluene	ND		1.0		ug/L			10/10/13 19:49	1

Client Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-47165-1

Client Sample ID: Trip Blank

Lab Sample ID: 480-47165-2

Date Collected: 10/03/13 00:00

Matrix: Water

Date Received: 10/04/13 01:30

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	ND		1.0		ug/L			10/10/13 19:49	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			10/10/13 19:49	1
Trichloroethene	ND		1.0		ug/L			10/10/13 19:49	1
Trichlorofluoromethane	ND		1.0		ug/L			10/10/13 19:49	1
Vinyl chloride	ND		1.0		ug/L			10/10/13 19:49	1
Dibromomethane	ND		1.0		ug/L			10/10/13 19:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*92*		*70 - 130*		*10/10/13 19:49*	*1*
1,2-Dichloroethane-d4 (Surr)	*89*		*70 - 130*		*10/10/13 19:49*	*1*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*		*10/10/13 19:49*	*1*

Surrogate Summary

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-47165-1

Method: 8260C - Volatile Organic Compounds (GC/MS)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		TOL	12DCE	BFB
Lab Sample ID	**Client Sample ID**	(70-130)	(70-130)	(70-130)
480-47165-1	SEN-3-2013003-01	95	89	104
480-47165-2	Trip Blank	92	89	106
LCS 480-143927/5	Lab Control Sample	97	86	111
LCSD 480-143927/6	Lab Control Sample Dup	97	84	114
MB 480-143927/8	Method Blank	96	90	108

Surrogate Legend

TOL = Toluene-d8 (Surr)

12DCE = 1,2-Dichloroethane-d4 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

Method: 8260C - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-143927/8
Matrix: Water
Analysis Batch: 143927

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			10/10/13 12:30	1
1,1,1-Trichloroethane	ND		1.0		ug/L			10/10/13 12:30	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			10/10/13 12:30	1
1,1,2-Trichloroethane	ND		1.0		ug/L			10/10/13 12:30	1
1,1-Dichloroethane	ND		1.0		ug/L			10/10/13 12:30	1
1,1-Dichloroethene	ND		1.0		ug/L			10/10/13 12:30	1
1,1-Dichloropropene	ND		1.0		ug/L			10/10/13 12:30	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			10/10/13 12:30	1
1,2,3-Trichloropropane	ND		1.0		ug/L			10/10/13 12:30	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			10/10/13 12:30	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			10/10/13 12:30	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			10/10/13 12:30	1
1,2-Dichlorobenzene	ND		1.0		ug/L			10/10/13 12:30	1
1,2-Dichloroethane	ND		1.0		ug/L			10/10/13 12:30	1
1,2-Dichloropropane	ND		1.0		ug/L			10/10/13 12:30	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			10/10/13 12:30	1
1,3-Dichlorobenzene	ND		1.0		ug/L			10/10/13 12:30	1
1,3-Dichloropropane	ND		1.0		ug/L			10/10/13 12:30	1
1,4-Dichlorobenzene	ND		1.0		ug/L			10/10/13 12:30	1
1,4-Dioxane	ND		50		ug/L			10/10/13 12:30	1
2,2-Dichloropropane	ND		1.0		ug/L			10/10/13 12:30	1
2-Butanone (MEK)	ND		10		ug/L			10/10/13 12:30	1
2-Chlorotoluene	ND		1.0		ug/L			10/10/13 12:30	1
2-Hexanone	ND		10		ug/L			10/10/13 12:30	1
4-Chlorotoluene	ND		1.0		ug/L			10/10/13 12:30	1
4-Isopropyltoluene	ND		1.0		ug/L			10/10/13 12:30	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			10/10/13 12:30	1
Acetone	ND		50		ug/L			10/10/13 12:30	1
Benzene	ND		1.0		ug/L			10/10/13 12:30	1
Bromobenzene	ND		1.0		ug/L			10/10/13 12:30	1
Bromoform	ND		1.0		ug/L			10/10/13 12:30	1
Bromomethane	ND		2.0		ug/L			10/10/13 12:30	1
Carbon disulfide	ND		10		ug/L			10/10/13 12:30	1
Carbon tetrachloride	ND		1.0		ug/L			10/10/13 12:30	1
Chlorobenzene	ND		1.0		ug/L			10/10/13 12:30	1
Chlorobromomethane	ND		1.0		ug/L			10/10/13 12:30	1
Chlorodibromomethane	ND		0.50		ug/L			10/10/13 12:30	1
Chloroethane	ND		2.0		ug/L			10/10/13 12:30	1
Chloroform	ND		1.0		ug/L			10/10/13 12:30	1
Chloromethane	ND		2.0		ug/L			10/10/13 12:30	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			10/10/13 12:30	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			10/10/13 12:30	1
Dichlorobromomethane	ND		0.50		ug/L			10/10/13 12:30	1
Dichlorodifluoromethane	ND		1.0		ug/L			10/10/13 12:30	1
Ethyl ether	ND		1.0		ug/L			10/10/13 12:30	1
Ethylbenzene	ND		1.0		ug/L			10/10/13 12:30	1
Ethylene Dibromide	ND		1.0		ug/L			10/10/13 12:30	1
Hexachlorobutadiene	ND		0.40		ug/L			10/10/13 12:30	1

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-143927/8
Matrix: Water
Analysis Batch: 143927

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropyl ether	ND		10		ug/L			10/10/13 12:30	1
Isopropylbenzene	ND		1.0		ug/L			10/10/13 12:30	1
Methyl tert-butyl ether	ND		1.0		ug/L			10/10/13 12:30	1
Methylene Chloride	ND		1.0		ug/L			10/10/13 12:30	1
m-Xylene & p-Xylene	ND		2.0		ug/L			10/10/13 12:30	1
Naphthalene	ND		5.0		ug/L			10/10/13 12:30	1
n-Butylbenzene	ND		1.0		ug/L			10/10/13 12:30	1
N-Propylbenzene	ND		1.0		ug/L			10/10/13 12:30	1
o-Xylene	ND		1.0		ug/L			10/10/13 12:30	1
sec-Butylbenzene	ND		1.0		ug/L			10/10/13 12:30	1
Styrene	ND		1.0		ug/L			10/10/13 12:30	1
Tert-amyl methyl ether	ND		5.0		ug/L			10/10/13 12:30	1
Tert-butyl ethyl ether	ND		5.0		ug/L			10/10/13 12:30	1
tert-Butylbenzene	ND		1.0		ug/L			10/10/13 12:30	1
Tetrachloroethene	ND		1.0		ug/L			10/10/13 12:30	1
Tetrahydrofuran	ND		10		ug/L			10/10/13 12:30	1
Toluene	ND		1.0		ug/L			10/10/13 12:30	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			10/10/13 12:30	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			10/10/13 12:30	1
Trichloroethene	ND		1.0		ug/L			10/10/13 12:30	1
Trichlorofluoromethane	ND		1.0		ug/L			10/10/13 12:30	1
Vinyl chloride	ND		1.0		ug/L			10/10/13 12:30	1
Dibromomethane	ND		1.0		ug/L			10/10/13 12:30	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*96*		*70 - 130*		*10/10/13 12:30*	*1*
1,2-Dichloroethane-d4 (Surr)	*90*		*70 - 130*		*10/10/13 12:30*	*1*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*		*10/10/13 12:30*	*1*

Lab Sample ID: LCS 480-143927/5
Matrix: Water
Analysis Batch: 143927

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	25.0	25.6		ug/L		102	70 - 130
1,1,1-Trichloroethane	25.0	24.7		ug/L		99	70 - 130
1,1,2,2-Tetrachloroethane	25.0	22.1		ug/L		89	70 - 130
1,1,2-Trichloroethane	25.0	23.4		ug/L		94	70 - 130
1,1-Dichloroethane	25.0	24.1		ug/L		96	70 - 130
1,1-Dichloroethene	25.0	26.8		ug/L		107	70 - 130
1,1-Dichloropropene	25.0	24.3		ug/L		97	70 - 130
1,2,3-Trichlorobenzene	25.0	27.2		ug/L		109	70 - 130
1,2,3-Trichloropropane	25.0	21.6		ug/L		86	70 - 130
1,2,4-Trichlorobenzene	25.0	26.5		ug/L		106	70 - 130
1,2,4-Trimethylbenzene	25.0	24.6		ug/L		98	70 - 130
1,2-Dibromo-3-Chloropropane	25.0	24.1		ug/L		96	70 - 130
1,2-Dichlorobenzene	25.0	25.7		ug/L		103	70 - 130
1,2-Dichloroethane	25.0	22.3		ug/L		89	70 - 130

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-143927/5
Matrix: Water
Analysis Batch: 143927

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichloropropane	25.0	23.7		ug/L		95	70 - 130
1,3,5-Trimethylbenzene	25.0	25.4		ug/L		102	70 - 130
1,3-Dichlorobenzene	25.0	25.6		ug/L		103	70 - 130
1,3-Dichloropropane	25.0	23.1		ug/L		93	70 - 130
1,4-Dichlorobenzene	25.0	25.9		ug/L		104	70 - 130
1,4-Dioxane	1000	901		ug/L		90	70 - 130
2,2-Dichloropropane	25.0	24.1		ug/L		96	70 - 130
2-Butanone (MEK)	125	150		ug/L		120	70 - 130
2-Chlorotoluene	25.0	24.1		ug/L		97	70 - 130
2-Hexanone	125	107		ug/L		86	70 - 130
4-Chlorotoluene	25.0	24.2		ug/L		97	70 - 130
4-Isopropyltoluene	25.0	26.3		ug/L		105	70 - 130
4-Methyl-2-pentanone (MIBK)	125	104		ug/L		83	70 - 130
Acetone	125	112		ug/L		90	70 - 130
Benzene	25.0	26.4		ug/L		105	70 - 130
Bromobenzene	25.0	25.2		ug/L		101	70 - 130
Bromoform	25.0	23.1		ug/L		92	70 - 130
Bromomethane	25.0	26.7		ug/L		107	70 - 130
Carbon disulfide	25.0	30.6		ug/L		122	70 - 130
Carbon tetrachloride	25.0	24.4		ug/L		97	70 - 130
Chlorobenzene	25.0	25.2		ug/L		101	70 - 130
Chlorobromomethane	25.0	26.9		ug/L		107	70 - 130
Chlorodibromomethane	25.0	22.0		ug/L		88	70 - 130
Chloroethane	25.0	28.0		ug/L		112	70 - 130
Chloroform	25.0	24.9		ug/L		99	70 - 130
Chloromethane	25.0	20.1		ug/L		81	70 - 130
cis-1,2-Dichloroethene	25.0	25.6		ug/L		103	70 - 130
cis-1,3-Dichloropropene	25.0	25.7		ug/L		103	70 - 130
Dichlorobromomethane	25.0	25.2		ug/L		101	70 - 130
Dichlorodifluoromethane	50.0	52.0		ug/L		104	70 - 130
Ethyl ether	25.0	26.5		ug/L		106	70 - 130
Ethylbenzene	25.0	25.2		ug/L		101	70 - 130
Ethylene Dibromide	25.0	24.7		ug/L		99	70 - 130
Hexachlorobutadiene	25.0	28.6		ug/L		114	70 - 130
Isopropyl ether	25.0	22.3		ug/L		89	70 - 130
Isopropylbenzene	25.0	23.8		ug/L		95	70 - 130
Methyl tert-butyl ether	25.0	26.0		ug/L		104	70 - 130
Methylene Chloride	25.0	25.2		ug/L		101	70 - 130
m-Xylene & p-Xylene	50.0	51.7		ug/L		103	70 - 130
Naphthalene	25.0	26.0		ug/L		104	70 - 130
n-Butylbenzene	25.0	25.0		ug/L		100	70 - 130
N-Propylbenzene	25.0	22.3		ug/L		89	70 - 130
o-Xylene	25.0	25.6		ug/L		103	70 - 130
sec-Butylbenzene	25.0	25.1		ug/L		100	70 - 130
Styrene	25.0	26.6		ug/L		107	70 - 130
Tert-amyl methyl ether	25.0	23.1		ug/L		92	70 - 130
Tert-butyl ethyl ether	25.0	22.5		ug/L		90	70 - 130
tert-Butylbenzene	25.0	25.0		ug/L		100	70 - 130

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-143927/5
Matrix: Water
Analysis Batch: 143927

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Tetrachloroethene	25.0	29.4		ug/L		118	70 - 130
Tetrahydrofuran	125	107		ug/L		86	70 - 130
Toluene	25.0	25.1		ug/L		100	70 - 130
trans-1,2-Dichloroethene	25.0	25.6		ug/L		102	70 - 130
trans-1,3-Dichloropropene	25.0	23.9		ug/L		96	70 - 130
Trichloroethene	25.0	25.1		ug/L		101	70 - 130
Trichlorofluoromethane	25.0	27.6		ug/L		110	70 - 130
Vinyl chloride	25.0	27.6		ug/L		110	70 - 130
Dibromomethane	25.0	23.8		ug/L		95	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*97*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*86*		*70 - 130*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*

Lab Sample ID: LCSD 480-143927/6
Matrix: Water
Analysis Batch: 143927

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	25.0	25.2		ug/L		101	70 - 130	1	20
1,1,1-Trichloroethane	25.0	22.5		ug/L		90	70 - 130	9	20
1,1,2,2-Tetrachloroethane	25.0	22.7		ug/L		91	70 - 130	3	20
1,1,2-Trichloroethane	25.0	23.3		ug/L		93	70 - 130	1	20
1,1-Dichloroethane	25.0	22.2		ug/L		89	70 - 130	8	20
1,1-Dichloroethene	25.0	25.0		ug/L		100	70 - 130	7	20
1,1-Dichloropropene	25.0	22.1		ug/L		88	70 - 130	10	20
1,2,3-Trichlorobenzene	25.0	27.2		ug/L		109	70 - 130	0	20
1,2,3-Trichloropropane	25.0	21.8		ug/L		87	70 - 130	1	20
1,2,4-Trichlorobenzene	25.0	27.6		ug/L		110	70 - 130	4	20
1,2,4-Trimethylbenzene	25.0	24.4		ug/L		98	70 - 130	1	20
1,2-Dibromo-3-Chloropropane	25.0	24.7		ug/L		99	70 - 130	3	20
1,2-Dichlorobenzene	25.0	25.6		ug/L		102	70 - 130	0	20
1,2-Dichloroethane	25.0	21.0		ug/L		84	70 - 130	6	20
1,2-Dichloropropane	25.0	22.1		ug/L		89	70 - 130	7	20
1,3,5-Trimethylbenzene	25.0	25.2		ug/L		101	70 - 130	1	20
1,3-Dichlorobenzene	25.0	25.8		ug/L		103	70 - 130	0	20
1,3-Dichloropropane	25.0	23.2		ug/L		93	70 - 130	0	20
1,4-Dichlorobenzene	25.0	25.5		ug/L		102	70 - 130	2	20
1,4-Dioxane	1000	938		ug/L		94	70 - 130	4	20
2,2-Dichloropropane	25.0	21.8		ug/L		87	70 - 130	10	20
2-Butanone (MEK)	125	143		ug/L		115	70 - 130	5	20
2-Chlorotoluene	25.0	24.2		ug/L		97	70 - 130	0	20
2-Hexanone	125	106		ug/L		84	70 - 130	1	20
4-Chlorotoluene	25.0	24.2		ug/L		97	70 - 130	0	20
4-Isopropyltoluene	25.0	26.0		ug/L		104	70 - 130	1	20
4-Methyl-2-pentanone (MIBK)	125	102		ug/L		82	70 - 130	2	20
Acetone	125	107		ug/L		86	70 - 130	4	20

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 480-143927/6
Matrix: Water
Analysis Batch: 143927

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	25.0	24.6		ug/L		98	70 - 130	7	20
Bromobenzene	25.0	25.3		ug/L		101	70 - 130	0	20
Bromoform	25.0	22.8		ug/L		91	70 - 130	1	20
Bromomethane	25.0	23.3		ug/L		93	70 - 130	14	20
Carbon disulfide	25.0	28.5		ug/L		114	70 - 130	7	20
Carbon tetrachloride	25.0	22.6		ug/L		90	70 - 130	8	20
Chlorobenzene	25.0	24.5		ug/L		98	70 - 130	3	20
Chlorobromomethane	25.0	26.0		ug/L		104	70 - 130	3	20
Chlorodibromomethane	25.0	22.4		ug/L		90	70 - 130	2	20
Chloroethane	25.0	25.7		ug/L		103	70 - 130	9	20
Chloroform	25.0	23.3		ug/L		93	70 - 130	7	20
Chloromethane	25.0	18.6		ug/L		74	70 - 130	8	20
cis-1,2-Dichloroethene	25.0	24.2		ug/L		97	70 - 130	6	20
cis-1,3-Dichloropropene	25.0	24.5		ug/L		98	70 - 130	5	20
Dichlorobromomethane	25.0	23.8		ug/L		95	70 - 130	6	20
Dichlorodifluoromethane	50.0	46.5		ug/L		93	70 - 130	11	20
Ethyl ether	25.0	25.1		ug/L		100	70 - 130	6	20
Ethylbenzene	25.0	24.6		ug/L		99	70 - 130	2	20
Ethylene Dibromide	25.0	24.8		ug/L		99	70 - 130	0	20
Hexachlorobutadiene	25.0	27.5		ug/L		110	70 - 130	4	20
Isopropyl ether	25.0	21.4		ug/L		86	70 - 130	4	20
Isopropylbenzene	25.0	24.0		ug/L		96	70 - 130	1	20
Methyl tert-butyl ether	25.0	24.9		ug/L		100	70 - 130	4	20
Methylene Chloride	25.0	23.4		ug/L		93	70 - 130	8	20
m-Xylene & p-Xylene	50.0	50.6		ug/L		101	70 - 130	2	20
Naphthalene	25.0	26.4		ug/L		106	70 - 130	2	20
n-Butylbenzene	25.0	24.5		ug/L		98	70 - 130	2	20
N-Propylbenzene	25.0	22.4		ug/L		90	70 - 130	0	20
o-Xylene	25.0	24.9		ug/L		100	70 - 130	3	20
sec-Butylbenzene	25.0	24.8		ug/L		99	70 - 130	1	20
Styrene	25.0	26.1		ug/L		105	70 - 130	2	20
Tert-amyl methyl ether	25.0	21.9		ug/L		88	70 - 130	5	20
Tert-butyl ethyl ether	25.0	21.7		ug/L		87	70 - 130	4	20
tert-Butylbenzene	25.0	24.7		ug/L		99	70 - 130	1	20
Tetrachloroethene	25.0	29.2		ug/L		117	70 - 130	1	20
Tetrahydrofuran	125	102		ug/L		82	70 - 130	4	20
Toluene	25.0	24.9		ug/L		100	70 - 130	1	20
trans-1,2-Dichloroethene	25.0	24.2		ug/L		97	70 - 130	6	20
trans-1,3-Dichloropropene	25.0	23.4		ug/L		94	70 - 130	2	20
Trichloroethene	25.0	23.8		ug/L		95	70 - 130	6	20
Trichlorofluoromethane	25.0	25.3		ug/L		101	70 - 130	9	20
Vinyl chloride	25.0	25.7		ug/L		103	70 - 130	7	20
Dibromomethane	25.0	23.1		ug/L		92	70 - 130	3	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*97*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*84*		*70 - 130*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*

QC Association Summary

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-47165-1

GC/MS VOA

Analysis Batch: 143927

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-47165-1	SEN-3-2013003-01	Total/NA	Water	8260C	
480-47165-2	Trip Blank	Total/NA	Water	8260C	
LCS 480-143927/5	Lab Control Sample	Total/NA	Water	8260C	
LCSD 480-143927/6	Lab Control Sample Dup	Total/NA	Water	8260C	
MB 480-143927/8	Method Blank	Total/NA	Water	8260C	

Lab Chronicle

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-47165-1

Client Sample ID: SEN-3-2013003-01

Lab Sample ID: 480-47165-1

Date Collected: 10/03/13 10:40

Matrix: Water

Date Received: 10/04/13 01:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	143927	10/10/13 19:25	LCH	TAL BUF

Client Sample ID: Trip Blank

Lab Sample ID: 480-47165-2

Date Collected: 10/03/13 00:00

Matrix: Water

Date Received: 10/04/13 01:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	143927	10/10/13 19:49	LCH	TAL BUF

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Certification Summary

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-47165-1

Laboratory: TestAmerica Buffalo

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Arkansas DEQ	State Program	6	88-0686	11-06-13
California	NELAP	9	1169CA	10-30-13
Connecticut	State Program	1	PH-0568	09-30-14
Florida	NELAP	4	E87672	06-30-14
Georgia	State Program	4	N/A	03-31-14
Iowa	State Program	7	374	03-15-15
Kansas	NELAP	7	E-10187	01-31-14
Kentucky	State Program	4	90029	12-31-13
Kentucky (UST)	State Program	4	30	04-01-14
Louisiana	NELAP	6	02031	06-30-14
Maine	State Program	1	NY00044	12-04-14
Maryland	State Program	3	294	03-31-14
Massachusetts	State Program	1	M-NY044	06-30-14
Michigan	State Program	5	9937	04-01-14
Minnesota	NELAP	5	036-999-337	12-31-13
New Hampshire	NELAP	1	2973	09-11-14
New Jersey	NELAP	2	NY455	06-30-14
New York	NELAP	2	10026	04-01-14
North Dakota	State Program	8	R-176	03-31-14
Oklahoma	State Program	6	9421	08-31-14
Oregon	NELAP	10	NY200003	06-09-14
Pennsylvania	NELAP	3	68-00281	07-31-14
Rhode Island	State Program	1	LAO00328	12-31-13
Tennessee	State Program	4	TN02970	04-01-14
Texas	NELAP	6	T104704412-11-2	07-31-14
USDA	Federal		P330-11-00386	11-22-14
Virginia	NELAP	3	460185	09-14-14
Washington	State Program	10	C784	02-10-14
West Virginia DEP	State Program	3	252	12-31-13
Wisconsin	State Program	5	998310390	08-31-14

Method Summary

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-47165-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds (GC/MS)	MA DEP	TAL BUF

Protocol References:

MA DEP = Massachusetts Department Of Environmental Protection

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Sample Summary

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-47165-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-47165-1	SEN-3-2013003-01	Water	10/03/13 10:40	10/04/13 01:30
480-47165-2	Trip Blank	Water	10/03/13 00:00	10/04/13 01:30

Login Sample Receipt Checklist

Client: ERM-Northeast

Job Number: 480-47165-1

Login Number: 47165
List Number: 1
Creator: Wienke, Robert K

List Source: TestAmerica Buffalo

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

TestAmerica Westfield
Westfield Executive Park 53 Southampton Road
Westfield, MA 01085
Phone (413) 572-4000 Fax (413) 572-3707

Boston Service Center
240 Bear Hill Rd. Suite 104
Waltham, MA 02451
Phone (781) 466-6900 Fax (781) 466-6901

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Stacey Bragg	Lab PM: Becky Mason	Carrier Tracking No(s):	COC No: 22959
Client Contact: Lyndsey Colburn	Phone: 978 275-0426	E-Mail:		Page: 1/1
Company: ERM				Job #:
Address: 1 Beacon St., 5th Floor	Due Date Requested:			
City: Boston	TAT Requested (days): 7 days			
State, Zip: MA, 02108				
Phone: 1-617-646-7829	Quote #			
Email: Lyndsey.Colburn@erm.com	PO #			
Project Name/number: JDS Wayland 0161270 01	WO #			
Site: Wayland, MA	SSOW#			

Analysis Requested

Preservation Codes:
A - HCL; B - NaOH; C - Zn Acetate; D - Nitric Acid; E - NaHSO4; F - MeOH; H - Ascorbic Acid; I - Ice; J - DI Water; M - Hexane; N - None; P - Na2O4S; Q - Na2SO3; R - Na2S2SO3; S - H2SO4; Z - other (specify)

Regulatory programs:
MCP [X] GW1/S1 [ ]
RCP [ ] CT RSR [ ]
DEP Form [ ] EDD Required [ ]

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Sampler's Initials	Field Filtered Sample?	Perform MS/MSD?	8260B-HCP	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
SEW-3-20131003 01	10/3/13	10:40	C	W	SK			3	3	

Possible Hazard Identification
[X] Non-Hazard [ ] Flammable [ ] Skin Irritant [ ] Poison B [ ] Unknown [ ] Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
[ ] Return To Client [X] Disposal By Lab [ ] Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
[signature]	10/3/13 15:15		[signature]		
[signature]	10/3/13 1630	TAC	[signature]	10/3/13 0930	TAC

Custody Seals Intact: [ ] Yes [ ] No
Custody Seal No.:
Cooler Temperature(s) °C and Other Remarks: 2 [illegible]

TAL-8245-360 1111

Field Colorimetry
Data Form
WATER SAMPLES

Analyst: C. Corvi
Date:
Checked by: S. Carvalho
Site Name: Raytheon Wayland
Project Number: 196270.01
Project Manager: Lyndsey Colburn

Sample Name	Collection Date / Time	Preservative (Note)	Color	Measured (ppm)	Dilution (X factor)	Concentration as $KMnO_4$ (ppm)	Concentration as $NaMnO_4$ (ppm)	Concentration as $NaMnO_4$ (%)	Notes
Groundwater Monitoring Locations									
MW-1010M	10/2/2013	Ice only	Pink	6.2	1	6.2	**10**	0.00%	

Appendix C
Stone Environmental Laboratory Reports

Final Data Report for Laboratory Services

PREPARED FOR: ERM

SITE ID: ERM WAYLAND, MA

WAYLAND, MA

Stone Project ID: 13-194

MobiLab™
DEFENSIBLE REAL-TIME ANALYTICS

DATES OF PERFORMANCE: October 15-18, 2013
REPORT DATE: October 30, 2013

Prepared for:
ERM
One Beacon St, 5th Floor
Boston, MA 02108
Tel. / 617.646.7800

Prepared by:
Hillary Easter, Stone Environmental, Inc.
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Montpelier, VT 05602
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MobiLab™

DEFENSIBLE REAL-TIME ANALYTICS

STONE ENVIRONMENTAL, INC. LABORATORY

NARRATIVE

October 30, 2013

This data package presents the analytical results for groundwater samples analyzed by Stone Environmental, Inc. Laboratory (Stone) on-site at the ERM Wayland, MA site. Samples in this sample delivery group (SDG-1W) were collected at the ERM Site between October 14 and 18, 2013. A total of 59 groundwater samples were collected during this period by Stone personnel from the following fifteen locations: APS-200, APS-201, APS-202, APS-203, APS-204, APS-205, APS-206, APS-208, APS-209, APS-211, APS-213, APS-214, APS-215, APS-216, and APS-217. This total sample number includes two field duplicate samples, two matrix spike/matrix spike duplicate (MS/MSD) pairs, and 15 equipment blanks. All samples in SDG-1W were received at the mobile laboratory between October 14 and 18, 2013 and analyzed between October 15 and 18, 2013.

Samples were hand delivered to the laboratory after collection and were kept refrigerated in the laboratory until analysis. As samples were received at the on-site laboratory, they were recorded on Stone's Sample Log Sheet. A copy of the Sample Log Sheet and a summary of samples logged into Stone's laboratory information management system (LIMS) are included in the Sample Login Summary Section of this report.

Samples were analyzed by EPA SW846 Method 8260C (gas chromatography / mass spectrometry (GC/MS)) set in selective ion monitoring (SIM) mode for 25 target volatile organic compounds (VOCs) in accordance with Stone's Standard Operating Procedure (SOP) SEI-10.15.10, "The Determination of Volatile Organic Compounds By GC/MS (SW846 USEPA Method 8260C)". Stone's Method 8260 (GC/MS) is provided under the National Environmental Laboratory Accreditation Program (NELAP) fields of testing. The analytical results associated with the samples presented in this report were generated under a quality system that adheres to requirements specified in the NELAP standards. All QA/QC results associated with these data were found to be within the tolerances set forth in SOP SEI-10.15.10 and NELAP standards. Any exceptions are noted below:

- Initial Calibration (ICAL) Deficiencies:
    - No deficiencies noted.

- Internal Standard Deficiencies:
    - The control limits for internal standard areas are set at 50-150% the internal standard area of the VSTD for that window according to Stone's SOP 10.15.10. The internal standard area for fluorobenzene was less than half the internal standard area for fluorobenzene in VSTD PH for sample APS-216-32.2-2013101-01. Due to volume and time constraints, this sample was not rerun in the field. As there were detections of both trichloroethene and cis-1,2-dichloroethene in the initial sample results, this sample was rerun within holding time constraints at the Stone Environmental fixed facility in Barre, VT on October 25, 2013. Detections were reported off of the second set of sample results and no results were qualified on this basis.
- BFB Tune Deficiencies:
    - Ion 176 in BFB PF was marginally high. This ion was not a target ion so no corrective action was taken and no results were qualified on this basis.
    - Ion 175 in BFB PH was marginally high. This ion was not a target ion so no corrective action was taken and no results were qualified on this basis.
- VSTD Deficiencies:
    - The percent difference (%D) value was outside the acceptance criteria (i.e., >20%) for t-Butyl-methyl ether in VSTD PG. As this compound passed within 20% in LCS PG, no results were qualified on this basis.
    - The %D values were outside the acceptance criteria for both t-Butyl-methyl ether and bromofluorobenzene in VSTD PH. As both of these compounds passed with 20% in LCS PH, no results were qualified on this basis.
- LCS Deficiencies:
    - No deficiencies noted.
- VBLK Deficiencies:
    - No deficiencies noted.
- MS/MSD Sample Deficiencies:
    - No deficiencies noted.
- Field Duplicate Sample Deficiencies:
    - The relative percent difference (RPD) was outside the acceptance criteria (<30%) for cis-1,2-dichloroethene for between APS-205-26.1-20131015-01 and its field duplicate. No results were qualified.

When applicable, the final results were annotated with the following codes:

U - Analyte was not detected and is reported as less than the reported quantitation limit.

J - The reported result is an estimated value (e.g., matrix interference was observed or the analyte was positively identified, but the associated numerical value is between the method detection limit and reporting limit).

Q - One or more quality control criteria failed (e.g., LCS recovery, surrogate spike recovery or CCV)

B - Blank contamination. The recorded result is associated with a contaminated blank.

E - Estimated value, marginally above the calibration levels.

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the laboratory manager or his designee, as verified by the following signature.

Signature: _____

Hillary Easter, Analytical Chemist, Stone Environmental, Inc.

SAMPLE LOGIN SUMMARY

Sample Login Summary

Chain of Custody Records

Lab ID	Location ID	Depth	Matrix	Sample Name	Sample Code	Quantity	Collected By	Collected Date	Collected Time	Collection Method	Received By	Received Date	Received Time	Comments	Lab ID Parent
SEI-1	APS-203	000.01	Groundwater	APS-203-EB-20131014-01	Equipment Blank	2	JAB	10/14/2013	8:55 AM	SEI 10.5.x	MJM	10/14/2013	12:00 PM		
SEI-2	APS-203	024.20	Groundwater	APS-203-24.2-20131014-01	Normal Sample	2	JAB	10/14/2013	12:56 PM	SEI 10.5.x	MJM	10/14/2013	2:00 PM		
SEI-3	APS-203	025.20	Groundwater	APS-203-25.2-20131014-01	Normal Sample	2	JAB	10/14/2013	2:22 PM	SEI 10.5.x	MJM	10/14/2013	4:00 PM		
SEI-4	APS-201	000.01	Groundwater	APS-201-EB-20131014-01	Equipment Blank	2	VLD	10/14/2013	8:30 AM	SEI 10.5.x	MJM	10/14/2013	12:00 PM		
SEI-5	APS-201	024.10	Groundwater	APS-201-24.1-20131014-01	Normal Sample	2	VLD	10/14/2013	11:14 AM	SEI 10.5.x	MJM	10/14/2013	12:00 PM		
SEI-6	APS-201	027.10	Groundwater	APS-201-27.1-20131014-01	Normal Sample	2	VLD	10/14/2013	12:36 PM	SEI 10.5.x	MJM	10/14/2013	2:00 PM		
SEI-7	APS-201	029.20	Groundwater	APS-201-29.2-20131014	Normal Sample	2	VLD	10/14/2013	2:44 PM	SEI 10.5.x	MJM	10/14/2013	4:00 PM		
SEI-8	APS-200	000.01	Groundwater	APS-200-EB-20131014-01	Equipment Blank	2	VLD	10/14/2013	3:30 PM	SEI 10.5.x	MJM	10/14/2013	4:00 PM		
SEI-9	APS-203	027.00	Groundwater	APS-203-27.0-20131014-01	Normal Sample	2	JAB	10/14/2013	4:32 PM	SEI 10.5.x	MJM	10/14/2013	4:35 PM		
SEI-10	APS-200	024.00	Groundwater	APS-200-24.0-20131014-01	Normal Sample	2	VLD	10/14/2013	4:23 PM	SEI 10.5.x	MJM	10/14/2013	4:45 PM		
SEI-11	APS-204	000.01	Groundwater	APS-204-EB-20131015-01	Equipment Blank	2	JAB	10/15/2013	7:47 AM	SEI 10.5.x	MJM	10/15/2013	9:30 AM		
SEI-12	APS-204	020.10	Groundwater	APS-204-20.1-20131015-01	Normal Sample	2	JAB	10/15/2013	9:58 AM	SEI 10.5.x	MJM	10/15/2013	4:00 PM		
SEI-13	APS-204	024.00	Groundwater	APS-204-24.0-20131015-01	Normal Sample	2	JAB	10/15/2013	11:14 AM	SEI 10.5.x	MJM	10/15/2013	4:00 PM		
SEI-14	APS-204	027.00	Groundwater	APS-204-27.0-20131015-01	Normal Sample	2	JAB	10/15/2013	1:39 PM	SEI 10.5.x	MJM	10/15/2013	4:00 PM		
SEI-15	APS-200	027.00	Groundwater	APS-200-27.0-20131015-01	Normal Sample	2	VLD	10/15/2013	7:48 AM	SEI 10.5.x	MJM	10/15/2013	4:00 PM		
SEI-16	APS-200	033.70	Groundwater	APS-200-33.7-20131015-01	Normal Sample	2	VLD	10/15/2013	11:32 AM	SEI 10.5.x	MJM	10/15/2013	4:00 PM		
SEI-17	APS-202	000.01	Groundwater	APS-202-EB-20131015-01	Equipment Blank	2	TWM	10/15/2013	12:23 PM	SEI 10.5.x	MJM	10/15/2013	4:00 PM		
SEI-18	APS-202	026.40	Groundwater	APS-202-26.4-20131015-01	Normal Sample	2	TWM	10/15/2013	3:10 PM	SEI 10.5.x	MJM	10/15/2013	4:00 PM		
SEI-19	APS-202	024.00	Groundwater	APS-202-24.0-20131015-01	Normal Sample	2	TWM	10/15/2013	1:59 PM	SEI 10.5.x	MJM	10/15/2013	4:00 PM		
SEI-20	APS-205	000.01	Groundwater	APS-205-EB-20131015-01	Equipment Blank	2	JAB	10/15/2013	2:22 PM	SEI 10.5.x	MJM	10/15/2013	4:00 PM		
SEI-21	APS-205	026.10	Groundwater	APS-205-26.1-20131015-01	Normal Sample	2	JAB	10/15/2013	5:25 PM	SEI 10.5.x	MJM	10/15/2013	5:30 PM		SEI-21
SEI-21-FD	APS-205	026.10	Groundwater	APS-205-26.1-20131015-01-DUP	Field Duplicate	2	JAB	10/15/2013	5:25 PM	SEI 10.5.x	MJM	10/15/2013	5:30 PM		SEI-21
SEI-23	APS-202	031.80	Groundwater	APS-202-31.8-20131016-01	Normal Sample	2	TWM	10/16/2013	9:35 AM	SEI 10.5.x	MJM	10/16/2013	11:00 AM		
SEI-24	APS-205	031.30	Groundwater	APS-205-31.3-20131016-01	Normal Sample	2	JAB	10/16/2013	10:15 AM	SEI 10.5.x	MJM	10/16/2013	11:00 AM		
SEI-25	APS-206	000.01	Groundwater	APS-206-EB-20131016-01	Equipment Blank	2	TWM	10/16/2013	10:10 AM	SEI 10.5.x	MJM	10/16/2013	11:00 AM		
SEI-26	APS-206	018.30	Groundwater	APS-206-18.3-20131016-01	Normal Sample	2	TWM	10/16/2013	11:48 AM	SEI 10.5.x	MJM	10/16/2013	11:53 AM		
SEI-27	APS-206	021.40	Groundwater	APS-206-21.4-20131016-01	Normal Sample	2	TWM	10/16/2013	12:45 PM	SEI 10.5.x	MJM	10/16/2013	12:54 PM		
SEI-28	APS-209	000.01	Groundwater	APS-209-EB-20131016-01	Equipment Blank	2	JAB	10/16/2013	12:20 PM	SEI 10.5.x	MJM	10/16/2013	12:55 PM		
SEI-29	APS-209	023.80	Groundwater	APS-209-23.8-20131016-01	Normal Sample	2	JAB	10/16/2013	1:28 PM	SEI 10.5.x	MJM	10/16/2013	1:24 PM		
SEI-30	APS-206	026.20	Groundwater	APS-206-26.2-20131016-01	Normal Sample	2	TWM	10/16/2013	1:40 PM	SEI 10.5.x	MJM	10/16/2013	1:55 PM		SEI-30
SEI-30-MS	APS-206	026.20	Groundwater	APS-206-26.2-20131016-01-MS	Matrix Spike	2	TWM	10/16/2013	1:40 PM	SEI 10.5.x	MJM	10/16/2013	1:55 PM		SEI-30
SEI-30-MSD	APS-206	026.20	Groundwater	APS-206-26.2-20131016-01-MSD	Matrix Spike Duplicate	2	TWM	10/16/2013	1:40 PM	SEI 10.5.x	MJM	10/16/2013	1:55 PM		SEI-30
SEI-33	APS-206	031.50	Groundwater	APS-206-31.5-20131016-01	Normal Sample	2	TWM	10/16/2013	3:18 PM	SEI 10.5.x	MJM	10/16/2013	3:25 PM		
SEI-34	APS-209	028.30	Groundwater	APS-209-28.3-20131016-01	Normal Sample	2	JAB	10/16/2013	3:53 PM	SEI 10.5.x	MJM	10/16/2013	3:55 PM		
SEI-35	APS-208	000.01	Groundwater	APS-208-EB-20131016-01	Equipment Blank	2	TWM	10/16/2013	3:55 PM	SEI 10.5.x	MJM	10/16/2013	4:08 PM		
SEI-36	APS-209	033.90	Groundwater	APS-209-33.9-20131017-01	Normal Sample	2	JAB	10/17/2013	9:24 AM	SEI 10.5.x	MJM	10/17/2013	9:34 AM		
SEI-37	APS-208	025.00	Groundwater	APS-208-25.0-20131017-01	Normal Sample	2	TWM	10/17/2013	9:07 AM	SEI 10.5.x	MJM	10/17/2013	9:42 AM		
SEI-38	APS-211	000.01	Groundwater	APS-211-EB-20131017-01	Equipment Blank	2	JAB	10/17/2013	10:00 AM	SEI 10.5.x	MJM	10/17/2013	10:02 AM		
SEI-39	APS-213	000.01	Groundwater	APS-213-EB-20131017-01	Equipment Blank	2	TWM	10/17/2013	11:21 AM	SEI 10.5.x	MJM	10/17/2013	11:27 AM		
SEI-40	APS-211	025.85	Groundwater	APS-211-25.85-20131017-01	Normal Sample	2	JAB	10/17/2013	12:30 PM	SEI 10.5.x	MJM	10/17/2013	12:32 PM		
SEI-41	APS-213	022.50	Groundwater	APS-213-22.5-20131017-01	Normal Sample	2	TWM	10/17/2013	12:32 PM	SEI 10.5.x	MJM	10/17/2013	12:44 PM		
SEI-42	APS-213	024.70	Groundwater	APS-213-24.7-20131017-01	Normal Sample	2	TWM	10/17/2013	1:36 PM	SEI 10.5.x	MJM	10/17/2013	1:42 PM		
SEI-43	APS-211	030.40	Groundwater	APS-211-30.4-20131017-01	Normal Sample	2	JAB	10/17/2013	3:25 PM	SEI 10.5.x	MJM	10/17/2013	3:29 PM		
SEI-44	APS-213	030.50	Groundwater	APS-213-30.5-20131017-01	Normal Sample	2	TWM	10/17/2013	4:05 PM	SEI 10.5.x	MJM	10/17/2013	4:12 PM		
SEI-45	APS-211	033.80	Groundwater	APS-211-33.8-20131017-01	Normal Sample	2	JAB	10/17/2013	4:50 PM	SEI 10.5.x	MJM	10/17/2013	4:52 PM		
SEI-46	APS-215	000.01	Groundwater	APS-215-EB-20131017-01	Equipment Blank	2	JAB	10/17/2013	5:20 PM	SEI 10.5.x	MJM	10/17/2013	5:22 PM		
SEI-47	APS-215	025.40	Groundwater	APS-215-25.4-20131018-01	Normal Sample	2	JAB	10/18/2013	9:26 AM	SEI 10.5.x	MJM	10/18/2013	9:30 AM		
SEI-48	APS-214	000.01	Groundwater	APS-214-EB-20131018-01	Equipment Blank	2	TWM	10/18/2013	7:49 AM	SEI 10.5.x	MJM	10/18/2013	10:31 AM		
SEI-49	APS-214	024.80	Groundwater	APS-214-24.8-20131018-01	Normal Sample	2	TWM	10/18/2013	9:27 AM	SEI 10.5.x	MJM	10/18/2013	10:31 AM		
SEI-50	APS-215	027.40	Groundwater	APS-215-27.4-20131018-01	Normal Sample	2	JAB	10/18/2013	10:37 AM	SEI 10.5.x	MJM	10/18/2013	10:37 AM		SEI-50
SEI-50-FD	APS-215	027.40	Groundwater	APS-215-27.4-20131018-01-DUP	Field Duplicate	2	JAB	10/18/2013	10:37 AM	SEI 10.5.x	MJM	10/18/2013	10:37 AM		SEI-50
SEI-52	APS-214	026.60	Groundwater	APS-214-26.6-20131018-01	Normal Sample	2	TWM	10/18/2013	10:53 AM	SEI 10.5.x	MJM	10/18/2013	11:23 AM		SEI-52

Lab ID	Location ID	Depth	Matrix	Sample Name	Sample Code	Quantity	Collected By	Collected Date	Collected Time	Collection Method	Received By	Received Date	Received Time	Comments	Lab ID Parent
SEI-52-MS	APS-214	026.60	Groundwater	APS-214-26.6-20131018-01-MS	Matrix Spike	2	TWM	10/18/2013	10:53 AM	SEI 10.5.x	MJM	10/18/2013	11:23 AM		SEI-52
SEI-52-MSD	APS-214	026.60	Groundwater	APS-214-26.6-20131018-01-MSD	Matrix Spike Duplicate	2	TWM	10/18/2013	10:53 AM	SEI 10.5.x	MJM	10/18/2013	11:23 AM		SEI-52
SEI-55	APS-214	028.30	Groundwater	APS-214-28.2-20131018-01	Normal Sample	2	TWM	10/18/2013	1:11 PM	SEI 10.5.x	MJM	10/18/2013	1:41 PM		
SEI-56	APS-215	033.20	Groundwater	APS-215-33.2-20131018-01	Normal Sample	2	JAB	10/18/2013	2:16 PM	SEI 10.5.x	MJM	10/18/2013	2:16 PM		
SEI-57	APS-216	000.01	Groundwater	APS-216-EB-20131018-01	Equipment Blank	2	TWM	10/18/2013	2:13 PM	SEI 10.5.x	MJM	10/18/2013	2:22 PM		
SEI-58	APS-217	000.01	Groundwater	APS-217-EB-20131018-01	Equipment Blank	2	JAB	10/18/2013	2:50 PM	SEI 10.5.x	MJM	10/18/2013	2:50 PM		
SEI-59	APS-216	032.20	Groundwater	APS-216-32.2-20131018-01	Normal Sample	2	TWM	10/18/2013	4:17 PM	SEI 10.5.x	MJM	10/18/2013	4:25 PM		

8.44-10^3
0.0844

Mobile Lab ~~1~~ 2 – SAMPLE LOG SHEET

Rev. 10130117

Project ID: 13-~~197~~ 194 ERM, Wayland

Rev: 10130113

Project Location: Wayland Ma

Sampling in accordance with Method / SEI SOP:
- ☐ SEI 10.5.a Groundwater Profiling and KPRO Testing.
- ☐ _____

Sample ID	Collected By	Collected Date	Collected Time	Received By	Received Date	Received Time	Type*	Container**	Number of Containers	Preservation***	ASTM D6520 & Modified 8021/8015	8260	Other ____	Lab ID	Analyst	Comments
APS-203-EB-20131014-01	JAB	10/14/13	0855	~~JAB~~ MJM	10/14/13	1200	1	2	2	–		X		SE1-1	MJM	
APS-203-24.2-20131014-01	JAB		1256			1400	1	2	2	–		X		SE1-2		
APS-203-25.2-20131014-01	JAB		1422			1600								SE1-3		
APS-201-EB-20131014-01	VLD		0830			1200								SE1-4		
APS-201-24.14-20131014-01	"		1114			1200								SE1-5		
APS-201-27.1-20131014-01	"		1236			1400								SE1-6		
APS-201-29.2-20131014-01	"		1444			1600								SE1-7		
APS-200-EB-20131014.01	"		1530			1600								SE1-8		
APS-203-27.0-20131014-01	JAB		1632			1635								SE1-9		
APS-200-24.0-20131014-01	VLD		1623			1645								SE1-10		
APS-204-EB-20131015-01	JAB	10/15/13	0747	MJM	10/15/13	0930	1	2	2	–		X		SE1-11		
APS-204-20.1-20131015-01			0958			1600								SE1-12		
APS-204-24.0-20131015-01			1114			1600								SE1-13		
APS-204-27.0-20131015-01			1339			1600								SE1-14		
APS-200-27.0-20131015-01	VLD		0748			1600								SE1-15		
APS-200-33.7-20131015-01			1132			1600								SE1-16		
APS-202-EB-20131015-01	TWM		1223			1600								SE1-17		
-26.4-			1510			1600								SE1-18		
-24.0-			1359			1600								SE1-19		
APS-205-EB-20131015-01	JAB		1422			1600								SE1-20		

* Type of Sample: (1) water (2) soil
** Container: (1) bag (2) bottle (3) other _____
*** Preservation: (1) ice (2) HCl (3) Other _____

STONE ENVIRONMENTAL INC

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Mobile Lab 1 is VIN# 1UK500G29V1022699 Mobil Lab 2 is VIN# 1UK500F2541047129
Truck 2 is VIN# JW6CEJ1G7SL002457

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Mobile Lab ~~1~~ 2 – SAMPLE LOG SHEET

Project ID: 13-~~107~~ 174 ERM, Wayland

Project Location: Wayland Ma

Sampling in accordance with Method / SEI SOP:
☐ SEI 10.5.a Groundwater Profiling and KPRO Testing
☐ _____

	Sample ID	Collected By	Collected Date	Collected Time	Received By	Received Date	Received Time	Type*	Container**	Number of Containers	Preservation***	ASTM D6520 & Modified 8021/8015	8260	Other ____	Lab ID	Analyst	Comments
APS	205-26.1-20131015-01	JAB	10/15/13	1725	MJM	10/15/13	1730	1	2	2	–		X		SE1-21	MJM	
	" " - DUP	⊥	⊥	1725	⊥	⊥	1730	⊥	⊥	⊥	⊥		⊥		SE1-21-FD	⊥	
APS	202-31.8-20131016-01	TVM	10/16/13	0935	MJM	10/16/13	1100	1	2	2	–		X		SE1-23	MJM	
	205-31.3-20131016-01	JAB		1015			1100								SE1-24		
	206-EB-20131016-01	TVM		1010			1100								SE1-25		
	206-18.3-20131016-01			1148			1153								SE1-26		
	206-21.4-20131016-01	⊥		1245			1254								SE1-27		
	209-EB-20131016-01	JAB		1220			1255								SE1-28		
	209-23.8-20131016-01	⊥		1328			1324	–	⊥	⊥	⊥				SE1-29		
	206-26.2-20131016-01	TVM		1340			1355	1	2	2	–				SE1-30		
	" -MS			1340			1355	1	2	1	–				SE1-30-MS		
	" -MSD			1340			1355	1	2	1	–				SE1-30-MSD		
	206-31.5-20131016-01	⊥		1518			1525	1	2	2	–				SE1-33		
	209-28.3-20131016-01	JAB		1553			1555	1	2	2	–				SE1-34		
	208-EB-20131016-01	TVM	⊥	1555	⊥	⊥	1608	⊥	⊥	⊥	⊥		⊥		SE1-35		
APS	209-33.9-20131017-01	JAB	10/17/13	0924	MJM	10/17/13	0934	1	2	2	–		X		SE1-36		
	208-25.0-20131017-01	TVM		0907			0942								SE1-37		
	211-EB-20131017-01	JAB		1006			1002								SE1-38		
	213-EB-20131017-01	TVM		1121			1127								SE1-39		
	211-25.85-20131017-01	JAB	⊥	1230	⊥	⊥	1232	⊥	⊥	⊥	⊥		⊥		SE1-40	⊥	

* Type of Sample: (1) water (2) soil
** Container: (1) bag (2) bottle (3) other _____
*** Preservation: (1) ice (2) HCl (3) Other _____

STONE ENVIRONMENTAL INC

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Mobile Lab 1 is VIN# 1UK500G29V1022699 Mobil Lab 2 is VIN# 1UK500F2541047129
Truck 2 is VIN# JW6CEJ1G7SL002457

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Mobile Lab ~~1~~ 2 – SAMPLE LOG SHEET

HTE, 10130113

Project ID: 13-197 ERM, Wayland (ISM HTE, 18130113)

Project Location: Wayland Ma

Sampling in accordance with Method / SEI SOP:
☐ SEI 10.5.e Groundwater Profiling and KPRO Testing.
☐ _____

	Sample ID	Collected By	Collected Date	Collected Time	Received By	Received Date	Received Time	Type*	Container**	Number of Containers	Preservation***	Analysis: ASTM D6520 & Modified 8021/8015	Analysis: 8260	Analysis: Other _____	Lab ID	Analyst	Comments
APS	213-22.5-20131017-01	TWM	10/17/13	1232	MJM	10/17/13	1244	1	2	2	-		X		SE1-41	MJM	
	-24.7-20131017-01	↓		1336			1342								SE1-42		
	211-30.4-20131017-01	JAB		1525			1529								SE1-43		
APS	213-30.5-20131017-01	TWM		1605			1612								SE1-44		
	211-33.8-20131017-01	JAB		1650			1652								SE1-45		
	215-EB-20131017-01	↓		1720			1722								SE1-46		
APS	215-25.4-20131018-01	JAB	10/18/13	0926	MJM	10/18/13	0930	1	2	2	-		X		SE1-47	MJM	
	214-EB-20131018-01	TWM		0749			1031								SE1-48		
	214-24.8-20131018-01	↓		0927			1031								SE1-49		
	215-27.4-20131018-01	JAB		1037			1037								SE1-50		
	11-Dup	↓		1037			1037								SE1-50-FD		
	214-26.6-20131018-01	TWM		1053			1123	1	2	2	-				SE1-52		
	11 MS			1053			1123	1	2	1	-				SE1-52-MS		
	11 MSD			1053			1123	1	2	1	-				SE1-52-MSD		
	214-28.2-20131018-01			1311			1341	1	2	2	-				SE1-55		
	215-33.2-20131018-01	JAB		1416			1416	1	2	2	-				SE1-56		
	216-EB-20131018-01	TWM		1413			1422								SE1-57		
	217-EB-20131018-01	JAB		1450			1450								SE1-58		
	216-32.2-20131018-01	TWM		1617			1625								SE1-59		

* Type of Sample: (1) water (2) soil
** Container: (1) bag (2) bottle (3) other _____
*** Preservation: (1) ice (2) HCl (3) Other _____

STONE ENVIRONMENTAL INC

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Mobile Lab 1 is VIN# 1UK500G29V1022699 Mobil Lab 2 is VIN# 1UK500F2541047129
Truck 2 is VIN# JWGCEJJG7NL002457

LABORATORY ANALYTICAL RESULTS

Onsite Laboratory Results Mobile Laboratory 2

Client:	ERM	**Report Date:**	10/28/2013
Location:	Wayland, MA	**Date(s) Sampled:**	10/14/2013 - 10/15/2013
Project ID:	ERM Wayland, MA	**Date(s) Analyzed:**	10/15/2013 - 10/16/2013
SEI Project No.:	13-194	**Test Method:**	8260C,8260C
Matrix:	GW	**Results Given as:**	ug/L
Location ID:	APS-200	**Prep Method:**	Soils (SW), EPA 5035A0H/ASTM D62520-00 Ground Waters (NPW), ASTM D6520-00

All of the tests results were performed in accordance with the NELAP standards and meet all NELAP requirements for parameters for which accreditation is required or available. The reports were completed according to contract specific reporting requirements. Any exceptions to the NELAP standard requirements are noted and the data has been qualified accordingly.

Depth	CAS #	000.01		024.00		027.00		033.70	
Sample Name		APS-200-EB-20131014-01		APS-200-24.0-20131014-01		APS-200-27.0-20131015-01		APS-200-33.7-20131015-01	
Analysis Date		10/15/13 21:15	EB	10/15/13 20:59	N	10/15/13 20:44	N	10/15/13 20:29	N
Chloromethane	74-87-3	5.0	U	5.0	U	5.0	U	5.0	U
Vinyl Chloride	75-01-4	2.0	U	2.0	U	2.0	U	2.0	U
Chloroethane	75-00-3	2.0	U	2.0	U	2.0	U	2.0	U
1,1-Dichloroethene	75-35-4	2.0	U	0.95	J	4.8		0.85	J
t-Butyl-methyl ether	1634-04-4	2.0	U	6.4		8.9		2.0	U
trans-1,2-Dichloroethene	156-60-5	2.0	U	2.0	U	2.0	U	2.0	U
1,1-Dichloroethane	75-34-3	2.0	U	0.49	J	1.2	J	1.4	J
cis-1,2-Dichloroethene	156-59-2	2.0	U	2.0	U	1.8	J	2.1	
Chloroform	67-66-3	2.0	U	2.0	U	2.0	U	2.0	U
1,1,1-Trichloroethane	71-55-6	2.0	U	16		77		2.0	U
Benzene	71-43-2	2.0	U	2.0	U	2.0	U	2.0	U
Trichloroethene	79-01-6	2.0	U	57		340		25	
Toluene	108-88-3	2.0	U	2.0	U	2.0	U	2.0	U
Tetrachloroethene	127-18-4	2.0	U	2.0	U	2.0	U	2.0	U
Ethylbenzene	100-41-4	2.0	U	2.0	U	2.0	U	2.0	U
m,p-Xylenes	136777612	4.0	U	4.0	U	4.0	U	4.0	U
o-Xylene	95-47-6	2.0	U	2.0	U	2.0	U	2.0	U
Styrene	100-42-5	2.0	U	2.0	U	2.0	U	2.0	U
Isopropylbenzene	98-82-8	2.0	U	2.0	U	2.0	U	2.0	U
1,2,4-Trimethylbenzene	95-63-6	2.0	U	2.0	U	2.0	U	2.0	U
1,3,5-Trimethylbenzene	108-67-8	2.0	U	2.0	U	2.0	U	2.0	U
1,3-Dichlorobenzene	541-73-1	2.0	U	2.0	U	2.0	U	2.0	U
1,4-Dichlorobenzene	106-46-7	2.0	U	2.0	U	2.0	U	2.0	U
1,2-Dichlorobenzene	95-50-1	2.0	U	2.0	U	2.0	U	2.0	U
Naphthalene	91-20-3	2.0	U	2.0	U	2.0	U	2.0	U
Bromofluorobenzene (SS)	460-00-4	87	%	88	%	86	%	87	%

U= Not detected above specified RL
J= Estimated value
Q= Associated with QC failure
E= Estimated value, marginally above calibration level
D= Analyzed at dilution
N= Normal sample
EB= Equip. Blank
B= Blank contam.

Onsite Laboratory Results Mobile Laboratory 2

Client:	ERM	**Report Date:**	10/28/2013
Location:	Wayland, MA	**Date(s) Sampled:**	10/14/2013 - 10/14/2013
Project ID:	ERM Wayland, MA	**Date(s) Analyzed:**	10/15/2013 - 10/16/2013
SEI Project No.:	13-194	**Test Method:**	8260C,8260C
Matrix:	GW	**Results Given as:**	ug/L
Location ID:	APS-201	**Prep Method:**	Soils (SW), EPA 5035A0H/ASTM D62520-00 Ground Waters (NPW), ASTM D6520-00

All of the tests results were performed in accordance with the NELAP standards and meet all NELAP requirements for parameters for which accreditation is required or available. The reports were completed according to contract specific reporting requirements. Any exceptions to the NELAP standard requirements are noted and the data has been qualified accordingly.

Depth	CAS #	000.01		024.10		027.10		029.20	
Sample Name		APS-201-EB-20131014-01		APS-201-24.1-20131014-01		APS-201-27.1-20131014-01		APS-201-29.2-20131014	
Analysis Date		10/15/13 22:16	EB	10/15/13 22:00	N	10/15/13 21:45	N	10/15/13 21:30	N
Chloromethane	74-87-3	5.0	U	5.0	U	5.0	U	5.0	U
Vinyl Chloride	75-01-4	2.0	U	2.0	U	2.0	U	2.0	U
Chloroethane	75-00-3	2.0	U	2.0	U	2.0	U	2.0	U
1,1-Dichloroethene	75-35-4	2.0	U	2.0	U	1.9	J	7.2	
t-Butyl-methyl ether	1634-04-4	2.0	U	11		5.1		2.7	
trans-1,2-Dichloroethene	156-60-5	2.0	U	2.0	U	2.0	U	0.54	J
1,1-Dichloroethane	75-34-3	2.0	U	2.0	U	0.77	J	7.5	
cis-1,2-Dichloroethene	156-59-2	2.0	U	2.0	U	1.4	J	3.7	
Chloroform	67-66-3	2.0	U	2.0	U	2.0	U	2.0	U
1,1,1-Trichloroethane	71-55-6	2.0	U	2.2		43		41	
Benzene	71-43-2	2.0	U	2.0	U	2.0	U	0.31	J
Trichloroethene	79-01-6	2.0	U	6.9		150		410	
Toluene	108-88-3	2.0	U	2.0	U	2.0	U	2.0	U
Tetrachloroethene	127-18-4	2.0	U	2.0	U	2.0	U	0.28	J
Ethylbenzene	100-41-4	2.0	U	2.0	U	2.0	U	2.0	U
m,p-Xylenes	136777612	4.0	U	4.0	U	4.0	U	4.0	U
o-Xylene	95-47-6	2.0	U	2.0	U	2.0	U	2.0	U
Styrene	100-42-5	2.0	U	2.0	U	2.0	U	2.0	U
Isopropylbenzene	98-82-8	2.0	U	2.0	U	2.0	U	2.0	U
1,2,4-Trimethylbenzene	95-63-6	2.0	U	2.0	U	2.0	U	2.0	U
1,3,5-Trimethylbenzene	108-67-8	2.0	U	2.0	U	2.0	U	2.0	U
1,3-Dichlorobenzene	541-73-1	2.0	U	2.0	U	2.0	U	2.0	U
1,4-Dichlorobenzene	106-46-7	2.0	U	2.0	U	2.0	U	2.0	U
1,2-Dichlorobenzene	95-50-1	2.0	U	2.0	U	2.0	U	2.0	U
Naphthalene	91-20-3	2.0	U	2.0	U	2.0	U	2.0	U
Bromofluorobenzene (SS)	460-00-4	86	%	90	%	89	%	89	%

U= Not detected above specified RL
J= Estimated value
Q= Associated with QC failure
E= Estimated value, marginally above calibration level
D= Analyzed at dilution
N= Normal sample
EB= Equip. Blank
B= Blank contam.

Onsite Laboratory Results Mobile Laboratory 2

Client:	ERM	**Report Date:**	10/28/2013
Location:	Wayland, MA	**Date(s) Sampled:**	10/15/2013 - 10/16/2013
Project ID:	ERM Wayland, MA	**Date(s) Analyzed:**	10/15/2013 - 10/16/2013
SEI Project No.:	13-194	**Test Method:**	8260C,8260C
Matrix:	GW	**Results Given as:**	ug/L
Location ID:	APS-202	**Prep Method:**	Soils (SW), EPA 5035A0H/ASTM D62520-00 Ground Waters (NPW), ASTM D6520-00

All of the tests results were performed in accordance with the NELAP standards and meet all NELAP requirements for parameters for which accreditation is required or available. The reports were completed according to contract specific reporting requirements. Any exceptions to the NELAP standard requirements are noted and the data has been qualified accordingly.

Depth	CAS #	000.01		024.00		026.40		031.80	
Sample Name		APS-202-EB-20131015-01		APS-202-24.0-20131015-01		APS-202-26.4-20131015-01		APS-202-31.8-20131016-01	
Analysis Date		10/15/13 23:01	EB	10/15/13 22:31	N	10/15/13 22:46	N	10/16/13 11:51	N
Chloromethane	74-87-3	5.0	U	5.0	U	5.0	U	5.0	U
Vinyl Chloride	75-01-4	2.0	U	2.0	U	2.0	U	2.0	U
Chloroethane	75-00-3	2.0	U	2.0	U	2.0	U	2.0	U
1,1-Dichloroethene	75-35-4	2.0	U	2.0	U	2.0		0.57	J
t-Butyl-methyl ether	1634-04-4	2.0	U	15		2.4		0.65	J
trans-1,2-Dichloroethene	156-60-5	2.0	U	2.0	U	2.0	U	2.0	U
1,1-Dichloroethane	75-34-3	2.0	U	2.0	U	0.55	J	0.90	J
cis-1,2-Dichloroethene	156-59-2	2.0	U	2.0	U	0.78	J	1.2	J
Chloroform	67-66-3	2.0	U	2.0	U	2.0	U	2.0	U
1,1,1-Trichloroethane	71-55-6	2.0	U	1.8	J	32		2.0	U
Benzene	71-43-2	2.0	U	2.0	U	2.0	U	2.0	U
Trichloroethene	79-01-6	2.0	U	5.3		110		23	
Toluene	108-88-3	2.0	U	2.0	U	2.0	U	2.0	U
Tetrachloroethene	127-18-4	2.0	U	2.0	U	2.0	U	2.0	U
Ethylbenzene	100-41-4	2.0	U	2.0	U	2.0	U	2.0	U
m,p-Xylenes	136777612	4.0	U	4.0	U	4.0	U	4.0	U
o-Xylene	95-47-6	2.0	U	2.0	U	2.0	U	2.0	U
Styrene	100-42-5	2.0	U	2.0	U	2.0	U	2.0	U
Isopropylbenzene	98-82-8	2.0	U	2.0	U	2.0	U	2.0	U
1,2,4-Trimethylbenzene	95-63-6	2.0	U	2.0	U	2.0	U	2.0	U
1,3,5-Trimethylbenzene	108-67-8	2.0	U	2.0	U	2.0	U	2.0	U
1,3-Dichlorobenzene	541-73-1	2.0	U	2.0	U	2.0	U	2.0	U
1,4-Dichlorobenzene	106-46-7	2.0	U	2.0	U	2.0	U	2.0	U
1,2-Dichlorobenzene	95-50-1	2.0	U	2.0	U	2.0	U	2.0	U
Naphthalene	91-20-3	2.0	U	2.0	U	2.0	U	2.0	U
Bromofluorobenzene (SS)	460-00-4	84	%	87	%	84	%	93	%

U= Not detected above specified RL
J= Estimated value
Q= Associated with QC failure
E= Estimated value, marginally above calibration level
D= Analyzed at dilution
N= Normal sample
EB= Equip. Blank
B= Blank contam.

Onsite Laboratory Results Mobile Laboratory 2

Client:	ERM	**Report Date:**	10/28/2013
Location:	Wayland, MA	**Date(s) Sampled:**	10/14/2013 - 10/14/2013
Project ID:	ERM Wayland, MA	**Date(s) Analyzed:**	10/15/2013 - 10/16/2013
SEI Project No.:	13-194	**Test Method:**	8260C,8260C
Matrix:	GW	**Results Given as:**	ug/L
Location ID:	APS-203	**Prep Method:**	Soils (SW), EPA 5035A0H/ASTM D62520-00 Ground Waters (NPW), ASTM D6520-00

All of the tests results were performed in accordance with the NELAP standards and meet all NELAP requirements for parameters for which accreditation is required or available. The reports were completed according to contract specific reporting requirements. Any exceptions to the NELAP standard requirements are noted and the data has been qualified accordingly.

Depth	CAS #	000.01		024.20		025.20		027.00	
Sample Name		APS-203-EB-20131014-01		APS-203-24.2-20131014-01		APS-203-25.2-20131014-01		APS-203-27.0-20131014-01	
Analysis Date		10/15/13 20:14	EB	10/15/13 19:58	N	10/15/13 19:43	N	10/15/13 19:28	N
Chloromethane	74-87-3	5.0	U	5.0	U	5.0	U	5.0	U
Vinyl Chloride	75-01-4	2.0	U	2.0	U	2.0	U	2.0	U
Chloroethane	75-00-3	2.0	U	2.0	U	2.0	U	2.0	U
1,1-Dichloroethene	75-35-4	2.0	U	2.0	U	1.7	J	6.9	
t-Butyl-methyl ether	1634-04-4	2.0	U	2.0	U	4.2		1.2	J
trans-1,2-Dichloroethene	156-60-5	2.0	U	2.0	U	2.0	U	2.0	U
1,1-Dichloroethane	75-34-3	2.0	U	2.0	U	0.64	J	5.0	
cis-1,2-Dichloroethene	156-59-2	2.0	U	2.0	U	0.59	J	2.3	
Chloroform	67-66-3	2.0	U	2.0	U	2.0	U	2.0	U
1,1,1-Trichloroethane	71-55-6	2.0	U	4.1		30		47	
Benzene	71-43-2	2.0	U	2.0	U	2.0	U	2.0	U
Trichloroethene	79-01-6	2.0	U	14		110		350	
Toluene	108-88-3	2.0	U	2.0	U	2.0	U	2.0	U
Tetrachloroethene	127-18-4	2.0	U	2.0	U	2.0	U	0.23	J
Ethylbenzene	100-41-4	2.0	U	2.0	U	2.0	U	2.0	U
m,p-Xylenes	136777612	4.0	U	4.0	U	4.0	U	4.0	U
o-Xylene	95-47-6	2.0	U	2.0	U	2.0	U	2.0	U
Styrene	100-42-5	2.0	U	2.0	U	2.0	U	2.0	U
Isopropylbenzene	98-82-8	2.0	U	2.0	U	2.0	U	2.0	U
1,2,4-Trimethylbenzene	95-63-6	2.0	U	2.0	U	2.0	U	2.0	U
1,3,5-Trimethylbenzene	108-67-8	2.0	U	2.0	U	2.0	U	2.0	U
1,3-Dichlorobenzene	541-73-1	2.0	U	2.0	U	2.0	U	2.0	U
1,4-Dichlorobenzene	106-46-7	2.0	U	2.0	U	2.0	U	2.0	U
1,2-Dichlorobenzene	95-50-1	2.0	U	2.0	U	2.0	U	2.0	U
Naphthalene	91-20-3	2.0	U	2.0	U	2.0	U	2.0	U
Bromofluorobenzene (SS)	460-00-4	86	%	88	%	88	%	88	%

U= Not detected above specified RL
J= Estimated value
Q= Associated with QC failure
E= Estimated value, marginally above calibration level
D= Analyzed at dilution
N= Normal sample
EB= Equip. Blank
B= Blank contam.

Onsite Laboratory Results Mobile Laboratory 2

Client:	ERM	**Report Date:**	10/28/2013
Location:	Wayland, MA	**Date(s) Sampled:**	10/15/2013 - 10/15/2013
Project ID:	ERM Wayland, MA	**Date(s) Analyzed:**	10/15/2013 - 10/15/2013
SEI Project No.:	13-194	**Test Method:**	8260C,8260C
Matrix:	GW	**Results Given as:**	ug/L
Location ID:	APS-204	**Prep Method:**	Soils (SW), EPA 5035A0H/ASTM D62520-00 Ground Waters (NPW), ASTM D6520-00

All of the tests results were performed in accordance with the NELAP standards and meet all NELAP requirements for parameters for which accreditation is required or available. The reports were completed according to contract specific reporting requirements. Any exceptions to the NELAP standard requirements are noted and the data has been qualified accordingly.

Depth	CAS #	000.01		020.10		024.00		027.00	
Sample Name		APS-204-EB-20131015-01		APS-204-20.1-20131015-01		APS-204-24.0-20131015-01		APS-204-27.0-20131015-01	
Analysis Date		10/15/13 19:13	EB	10/15/13 18:57	N	10/15/13 18:42	N	10/15/13 18:27	N
Chloromethane	74-87-3	5.0	U	5.0	U	5.0	U	5.0	U
Vinyl Chloride	75-01-4	2.0	U	2.0	U	2.0	U	2.0	U
Chloroethane	75-00-3	2.0	U	2.0	U	2.0	U	2.0	U
1,1-Dichloroethene	75-35-4	2.0	U	2.0	U	2.0	U	2.0	U
t-Butyl-methyl ether	1634-04-4	2.0	U	2.0	U	2.1		7.8	
trans-1,2-Dichloroethene	156-60-5	2.0	U	2.0	U	2.0	U	2.0	U
1,1-Dichloroethane	75-34-3	2.0	U	2.0	U	2.0	U	0.55	J
cis-1,2-Dichloroethene	156-59-2	2.0	U	2.0	U	2.0	U	2.0	U
Chloroform	67-66-3	2.0	U	2.0	U	2.0	U	2.0	U
1,1,1-Trichloroethane	71-55-6	2.0	U	2.0	U	4.3		0.18	J
Benzene	71-43-2	2.0	U	2.0	U	2.0	U	0.22	J
Trichloroethene	79-01-6	2.0	U	2.0	U	15		4.8	
Toluene	108-88-3	2.0	U	2.0	U	2.0	U	2.0	U
Tetrachloroethene	127-18-4	2.0	U	2.0	U	2.0	U	0.53	J
Ethylbenzene	100-41-4	2.0	U	2.0	U	2.0	U	2.0	U
m,p-Xylenes	136777612	4.0	U	4.0	U	4.0	U	4.0	U
o-Xylene	95-47-6	2.0	U	2.0	U	2.0	U	2.0	U
Styrene	100-42-5	2.0	U	2.0	U	2.0	U	2.0	U
Isopropylbenzene	98-82-8	2.0	U	2.0	U	2.0	U	2.0	U
1,2,4-Trimethylbenzene	95-63-6	2.0	U	2.0	U	2.0	U	2.0	U
1,3,5-Trimethylbenzene	108-67-8	2.0	U	2.0	U	2.0	U	2.0	U
1,3-Dichlorobenzene	541-73-1	2.0	U	2.0	U	2.0	U	2.0	U
1,4-Dichlorobenzene	106-46-7	2.0	U	2.0	U	2.0	U	2.0	U
1,2-Dichlorobenzene	95-50-1	2.0	U	2.0	U	2.0	U	2.0	U
Naphthalene	91-20-3	2.0	U	2.0	U	2.0	U	2.0	U
Bromofluorobenzene (SS)	460-00-4	88	%	88	%	89	%	88	%

U= Not detected above specified RL
J= Estimated value
Q= Associated with QC failure
E= Estimated value, marginally above calibration level
D= Analyzed at dilution
N= Normal sample
EB= Equip. Blank
B= Blank contam.

Onsite Laboratory Results Mobile Laboratory 2

Client:	ERM	**Report Date:**	10/28/2013
Location:	Wayland, MA	**Date(s) Sampled:**	10/15/2013 - 10/16/2013
Project ID:	ERM Wayland, MA	**Date(s) Analyzed:**	10/15/2013 - 10/16/2013
SEI Project No.:	13-194	**Test Method:**	8260C,8260C
Matrix:	GW	**Results Given as:**	ug/L
Location ID:	APS-205	**Prep Method:**	Soils (SW), EPA 5035A0H/ASTM D62520-00 Ground Waters (NPW), ASTM D6520-00

All of the tests results were performed in accordance with the NELAP standards and meet all NELAP requirements for parameters for which accreditation is required or available. The reports were completed according to contract specific reporting requirements. Any exceptions to the NELAP standard requirements are noted and the data has been qualified accordingly.

Depth	CAS #	000.01		026.10		026.10		031.30	
Sample Name		APS-205-EB-20131015-01		APS-205-26.1-20131015-01-DUP		APS-205-26.1-20131015-01		APS-205-31.3-20131016-01	
Analysis Date		10/15/13 23:17	EB	10/16/13 10:32	FD	10/16/13 10:17	N	10/16/13 11:36	N
Chloromethane	74-87-3	5.0	U	5.0	U	5.0	U	5.0	U
Vinyl Chloride	75-01-4	2.0	U	2.0	U	2.0	U	2.0	U
Chloroethane	75-00-3	2.0	U	2.0	U	2.0	U	2.0	U
1,1-Dichloroethene	75-35-4	2.0	U	2.0	U	2.0	U	2.0	U
t-Butyl-methyl ether	1634-04-4	2.0	U	2.0	U	2.0	U	2.0	U
trans-1,2-Dichloroethene	156-60-5	2.0	U	2.0	U	2.0	U	1.2	J
1,1-Dichloroethane	75-34-3	2.0	U	2.0	U	2.0	U	2.0	U
cis-1,2-Dichloroethene	156-59-2	2.0	U	0.43	J	0.65	J	21	
Chloroform	67-66-3	2.0	U	2.0	U	2.0	U	2.0	U
1,1,1-Trichloroethane	71-55-6	2.0	U	2.0	U	2.0	U	2.0	U
Benzene	71-43-2	2.0	U	2.0	U	2.0	U	2.0	U
Trichloroethene	79-01-6	2.0	U	4.2		4.4		56	
Toluene	108-88-3	2.0	U	2.0	U	2.0	U	2.0	U
Tetrachloroethene	127-18-4	2.0	U	2.0	U	2.0	U	2.0	U
Ethylbenzene	100-41-4	2.0	U	2.0	U	2.0	U	2.0	U
m,p-Xylenes	136777612	4.0	U	4.0	U	4.0	U	4.0	U
o-Xylene	95-47-6	2.0	U	2.0	U	2.0	U	2.0	U
Styrene	100-42-5	2.0	U	2.0	U	2.0	U	2.0	U
Isopropylbenzene	98-82-8	2.0	U	2.0	U	2.0	U	2.0	U
1,2,4-Trimethylbenzene	95-63-6	2.0	U	2.0	U	2.0	U	2.0	U
1,3,5-Trimethylbenzene	108-67-8	2.0	U	2.0	U	2.0	U	2.0	U
1,3-Dichlorobenzene	541-73-1	2.0	U	2.0	U	2.0	U	2.0	U
1,4-Dichlorobenzene	106-46-7	2.0	U	2.0	U	2.0	U	2.0	U
1,2-Dichlorobenzene	95-50-1	2.0	U	2.0	U	2.0	U	2.0	U
Naphthalene	91-20-3	2.0	U	2.0	U	2.0	U	2.0	U
Bromofluorobenzene (SS)	460-00-4	88	%	93	%	90	%	93	%

U= Not detected above specified RL
J= Estimated value
Q= Associated with QC failure
E= Estimated value, marginally above calibration level
D= Analyzed at dilution
N= Normal sample
EB= Equip. Blank
B= Blank contam.

Onsite Laboratory Results Mobile Laboratory 2

Client:	ERM	**Report Date:**	10/28/2013
Location:	Wayland, MA	**Date(s) Sampled:**	10/16/2013 - 10/16/2013
Project ID:	ERM Wayland, MA	**Date(s) Analyzed:**	10/16/2013 - 10/16/2013
SEI Project No.:	13-194	**Test Method:**	8260C,8260C
Matrix:	GW	**Results Given as:**	ug/L
Location ID:	APS-206	**Prep Method:**	Soils (SW), EPA 5035A0H/ASTM D62520-00 Ground Waters (NPW), ASTM D6520-00

All of the tests results were performed in accordance with the NELAP standards and meet all NELAP requirements for parameters for which accreditation is required or available. The reports were completed according to contract specific reporting requirements. Any exceptions to the NELAP standard requirements are noted and the data has been qualified accordingly.

Depth	CAS #	000.01		018.30		021.40		026.20		031.50	
Sample Name		APS-206-EB-20131016-01		APS-206-18.3-20131016-01		APS-206-21.4-20131016-01		APS-206-26.2-20131016-01		APS-206-31.5-20131016-01	
Analysis Date		10/16/13 12:06	EB	10/16/13 12:22	N	10/16/13 13:33	N	10/16/13 14:19	N	10/16/13 15:39	N
Chloromethane	74-87-3	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Vinyl Chloride	75-01-4	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U
Chloroethane	75-00-3	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U
1,1-Dichloroethene	75-35-4	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U
t-Butyl-methyl ether	1634-04-4	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U
trans-1,2-Dichloroethene	156-60-5	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U
1,1-Dichloroethane	75-34-3	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U
cis-1,2-Dichloroethene	156-59-2	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U
Chloroform	67-66-3	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U
1,1,1-Trichloroethane	71-55-6	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U
Benzene	71-43-2	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U
Trichloroethene	79-01-6	2.0	U	0.74	J	2.0	U	0.90	J	2.4	
Toluene	108-88-3	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U
Tetrachloroethene	127-18-4	2.0	U	0.46	J	2.0	U	2.0	U	2.0	U
Ethylbenzene	100-41-4	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U
m,p-Xylenes	136777612	4.0	U	4.0	U	4.0	U	4.0	U	4.0	U
o-Xylene	95-47-6	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U
Styrene	100-42-5	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U
Isopropylbenzene	98-82-8	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U
1,2,4-Trimethylbenzene	95-63-6	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U
1,3,5-Trimethylbenzene	108-67-8	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U
1,3-Dichlorobenzene	541-73-1	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U
1,4-Dichlorobenzene	106-46-7	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U
1,2-Dichlorobenzene	95-50-1	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U
Naphthalene	91-20-3	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U
Bromofluorobenzene (SS)	460-00-4	93	%	93	%	93	%	92	%	96	%

U= Not detected above specified RL
J= Estimated value
Q= Associated with QC failure
E= Estimated value, marginally above calibration level
D= Analyzed at dilution
N= Normal sample
EB= Equip. Blank
B= Blank contam.

Onsite Laboratory Results Mobile Laboratory 2

Client:	ERM	**Report Date:**	10/28/2013
Location:	Wayland, MA	**Date(s) Sampled:**	10/16/2013 - 10/17/2013
Project ID:	ERM Wayland, MA	**Date(s) Analyzed:**	10/16/2013 - 10/17/2013
SEI Project No.:	13-194	**Test Method:**	8260C,8260C
Matrix:	GW	**Results Given as:**	ug/L
Location ID:	APS-208	**Prep Method:**	Soils (SW), EPA 5035A0H/ASTM D62520-00 Ground Waters (NPW), ASTM D6520-00

All of the tests results were performed in accordance with the NELAP standards and meet all NELAP requirements for parameters for which accreditation is required or available. The reports were completed according to contract specific reporting requirements. Any exceptions to the NELAP standard requirements are noted and the data has been qualified accordingly.

Depth	CAS #	000.01		025.00	
Sample Name		APS-208-EB-20131016-01		APS-208-25.0-20131017-01	
Analysis Date		10/16/13 16:18	EB	10/17/13 10:03	N
Chloromethane	74-87-3	5.0	U	5.0	U
Vinyl Chloride	75-01-4	2.0	U	2.0	U
Chloroethane	75-00-3	2.0	U	2.0	U
1,1-Dichloroethene	75-35-4	2.0	U	2.0	U
t-Butyl-methyl ether	1634-04-4	2.0	U	2.0	U
trans-1,2-Dichloroethene	156-60-5	2.0	U	2.0	U
1,1-Dichloroethane	75-34-3	2.0	U	2.0	U
cis-1,2-Dichloroethene	156-59-2	2.0	U	0.86	J
Chloroform	67-66-3	2.0	U	0.35	J
1,1,1-Trichloroethane	71-55-6	2.0	U	2.0	U
Benzene	71-43-2	2.0	U	2.0	U
Trichloroethene	79-01-6	2.0	U	9.6	
Toluene	108-88-3	2.0	U	2.0	U
Tetrachloroethene	127-18-4	2.0	U	0.35	J
Ethylbenzene	100-41-4	2.0	U	2.0	U
m,p-Xylenes	136777612	4.0	U	4.0	U
o-Xylene	95-47-6	2.0	U	2.0	U
Styrene	100-42-5	2.0	U	2.0	U
Isopropylbenzene	98-82-8	2.0	U	2.0	U
1,2,4-Trimethylbenzene	95-63-6	2.0	U	2.0	U
1,3,5-Trimethylbenzene	108-67-8	2.0	U	2.0	U
1,3-Dichlorobenzene	541-73-1	2.0	U	2.0	U
1,4-Dichlorobenzene	106-46-7	2.0	U	2.0	U
1,2-Dichlorobenzene	95-50-1	2.0	U	2.0	U
Naphthalene	91-20-3	2.0	U	2.0	U
Bromofluorobenzene (SS)	460-00-4	94	%	96	%

U= Not detected above specified RL
J= Estimated value
Q= Associated with QC failure
E= Estimated value, marginally above calibration level
D= Analyzed at dilution
N= Normal sample
EB= Equip. Blank
B= Blank contam.

Onsite Laboratory Results Mobile Laboratory 2

Client:	ERM	**Report Date:**	10/28/2013
Location:	Wayland, MA	**Date(s) Sampled:**	10/16/2013 - 10/17/2013
Project ID:	ERM Wayland, MA	**Date(s) Analyzed:**	10/16/2013 - 10/17/2013
SEI Project No.:	13-194	**Test Method:**	8260C,8260C
Matrix:	GW	**Results Given as:**	ug/L
Location ID:	APS-209	**Prep Method:**	Soils (SW), EPA 5035A0H/ASTM D62520-00 Ground Waters (NPW), ASTM D6520-00

All of the tests results were performed in accordance with the NELAP standards and meet all NELAP requirements for parameters for which accreditation is required or available. The reports were completed according to contract specific reporting requirements. Any exceptions to the NELAP standard requirements are noted and the data has been qualified accordingly.

Depth	CAS #	000.01		023.80		028.30		033.90	
Sample Name		APS-209-EB-20131016-01		APS-209-23.8-20131016-01		APS-209-28.3-20131016-01		APS-209-33.9-20131017-01	
Analysis Date		10/16/13 13:48	N	10/16/13 14:04	N	10/16/13 16:02	N	10/17/13 09:47	N
Chloromethane	74-87-3	5.0	U	5.0	U	5.0	U	5.0	U
Vinyl Chloride	75-01-4	2.0	U	2.0	U	2.0	U	2.0	U
Chloroethane	75-00-3	2.0	U	2.0	U	2.0	U	2.0	U
1,1-Dichloroethene	75-35-4	2.0	U	2.0	U	2.0	U	2.0	U
t-Butyl-methyl ether	1634-04-4	2.0	U	2.0	U	2.0	U	2.0	U
trans-1,2-Dichloroethene	156-60-5	2.0	U	2.0	U	2.0	U	2.0	U
1,1-Dichloroethane	75-34-3	2.0	U	2.0	U	2.0	U	0.30	J
cis-1,2-Dichloroethene	156-59-2	2.0	U	2.0	U	0.71	J	0.78	J
Chloroform	67-66-3	2.0	U	0.34	J	2.0	U	2.0	U
1,1,1-Trichloroethane	71-55-6	2.0	U	2.0	U	2.0	U	2.0	U
Benzene	71-43-2	2.0	U	2.0	U	2.0	U	2.0	U
Trichloroethene	79-01-6	2.0	U	5.5		5.9		0.89	J
Toluene	108-88-3	2.0	U	2.0	U	2.0	U	2.0	U
Tetrachloroethene	127-18-4	2.0	U	0.29	J	2.0	U	2.0	U
Ethylbenzene	100-41-4	2.0	U	2.0	U	2.0	U	2.0	U
m,p-Xylenes	136777612	4.0	U	4.0	U	4.0	U	4.0	U
o-Xylene	95-47-6	2.0	U	2.0	U	2.0	U	2.0	U
Styrene	100-42-5	2.0	U	2.0	U	2.0	U	2.0	U
Isopropylbenzene	98-82-8	2.0	U	2.0	U	2.0	U	2.0	U
1,2,4-Trimethylbenzene	95-63-6	2.0	U	2.0	U	2.0	U	2.0	U
1,3,5-Trimethylbenzene	108-67-8	2.0	U	2.0	U	2.0	U	2.0	U
1,3-Dichlorobenzene	541-73-1	2.0	U	2.0	U	2.0	U	2.0	U
1,4-Dichlorobenzene	106-46-7	2.0	U	2.0	U	2.0	U	2.0	U
1,2-Dichlorobenzene	95-50-1	2.0	U	2.0	U	2.0	U	2.0	U
Naphthalene	91-20-3	2.0	U	2.0	U	2.0	U	2.0	U
Bromofluorobenzene (SS)	460-00-4	94	%	95	%	92	%	95	%

U= Not detected above specified RL
J= Estimated value
Q= Associated with QC failure
E= Estimated value, marginally above calibration level
D= Analyzed at dilution
N= Normal sample
EB= Equip. Blank
B= Blank contam.

Onsite Laboratory Results Mobile Laboratory 2

Client:	ERM	**Report Date:**	10/28/2013
Location:	Wayland, MA	**Date(s) Sampled:**	10/17/2013 - 10/17/2013
Project ID:	ERM Wayland, MA	**Date(s) Analyzed:**	10/17/2013 - 10/17/2013
SEI Project No.:	13-194	**Test Method:**	8260C,8260C
Matrix:	GW	**Results Given as:**	ug/L
Location ID:	APS-211	**Prep Method:**	Soils (SW), EPA 5035A0H/ASTM D62520-00 Ground Waters (NPW), ASTM D6520-00

All of the tests results were performed in accordance with the NELAP standards and meet all NELAP requirements for parameters for which accreditation is required or available. The reports were completed according to contract specific reporting requirements. Any exceptions to the NELAP standard requirements are noted and the data has been qualified accordingly.

Depth	CAS #	000.01		025.85		030.40		033.80	
Sample Name		APS-211-EB-20131017-01		APS-211-25.85-20131017-01		APS-211-30.4-20131017-01		APS-211-33.8-20131017-01	
Analysis Date		10/17/13 10:18	EB	10/17/13 12:35	N	10/17/13 15:42	N	10/17/13 16:57	N
Chloromethane	74-87-3	5.0	U	5.0	U	5.0	U	5.0	U
Vinyl Chloride	75-01-4	2.0	U	2.0	U	2.0	U	2.0	U
Chloroethane	75-00-3	2.0	U	2.0	U	2.0	U	2.0	U
1,1-Dichloroethene	75-35-4	2.0	U	1.3	J	3.1		5.9	
t-Butyl-methyl ether	1634-04-4	2.0	U	2.0	U	2.0	U	2.0	U
trans-1,2-Dichloroethene	156-60-5	2.0	U	2.0	U	2.0	U	2.0	U
1,1-Dichloroethane	75-34-3	2.0	U	2.0	U	1.6	J	2.3	
cis-1,2-Dichloroethene	156-59-2	2.0	U	1.1	J	4.0		7.2	
Chloroform	67-66-3	2.0	U	2.0	U	2.0	U	2.0	U
1,1,1-Trichloroethane	71-55-6	2.0	U	2.0	U	2.0	U	2.0	U
Benzene	71-43-2	2.0	U	2.0	U	2.0	U	2.0	U
Trichloroethene	79-01-6	2.0	U	11		11		22	
Toluene	108-88-3	2.0	U	2.0	U	2.0	U	2.0	U
Tetrachloroethene	127-18-4	2.0	U	2.0	U	2.0	U	2.0	U
Ethylbenzene	100-41-4	2.0	U	2.0	U	2.0	U	2.0	U
m,p-Xylenes	136777612	4.0	U	4.0	U	4.0	U	4.0	U
o-Xylene	95-47-6	2.0	U	2.0	U	2.0	U	2.0	U
Styrene	100-42-5	2.0	U	2.0	U	2.0	U	2.0	U
Isopropylbenzene	98-82-8	2.0	U	2.0	U	2.0	U	2.0	U
1,2,4-Trimethylbenzene	95-63-6	2.0	U	2.0	U	2.0	U	2.0	U
1,3,5-Trimethylbenzene	108-67-8	2.0	U	2.0	U	2.0	U	2.0	U
1,3-Dichlorobenzene	541-73-1	2.0	U	2.0	U	2.0	U	2.0	U
1,4-Dichlorobenzene	106-46-7	2.0	U	2.0	U	2.0	U	2.0	U
1,2-Dichlorobenzene	95-50-1	2.0	U	2.0	U	2.0	U	2.0	U
Naphthalene	91-20-3	2.0	U	2.0	U	2.0	U	2.0	U
Bromofluorobenzene (SS)	460-00-4	96	%	97	%	98	%	97	%

U= Not detected above specified RL
J= Estimated value
Q= Associated with QC failure
E= Estimated value, marginally above calibration level
D= Analyzed at dilution
N= Normal sample
EB= Equip. Blank
B= Blank contam.

Onsite Laboratory Results Mobile Laboratory 2

Client:	ERM	**Report Date:**	10/28/2013
Location:	Wayland, MA	**Date(s) Sampled:**	10/17/2013 - 10/17/2013
Project ID:	ERM Wayland, MA	**Date(s) Analyzed:**	10/17/2013 - 10/17/2013
SEI Project No.:	13-194	**Test Method:**	8260C,8260C
Matrix:	GW	**Results Given as:**	ug/L
Location ID:	APS-213	**Prep Method:**	Soils (SW), EPA 5035A0H/ASTM D62520-00 Ground Waters (NPW), ASTM D6520-00

All of the tests results were performed in accordance with the NELAP standards and meet all NELAP requirements for parameters for which accreditation is required or available. The reports were completed according to contract specific reporting requirements. Any exceptions to the NELAP standard requirements are noted and the data has been qualified accordingly.

Depth	CAS #	000.01		022.50		024.70		030.50	
Sample Name		APS-213-EB-20131017-01		APS-213-22.5-20131017-01		APS-213-24.7-20131017-01		APS-213-30.5-20131017-01	
Analysis Date		10/17/13 11:43	EB	10/17/13 12:54	N	10/17/13 13:55	N	10/17/13 16:25	N
Chloromethane	74-87-3	5.0	U	5.0	U	5.0	U	5.0	U
Vinyl Chloride	75-01-4	2.0	U	2.0	U	2.0	U	2.0	U
Chloroethane	75-00-3	2.0	U	2.0	U	2.0	U	2.0	U
1,1-Dichloroethene	75-35-4	2.0	U	2.0	U	2.0	U	2.0	U
t-Butyl-methyl ether	1634-04-4	2.0	U	2.0	U	2.0	U	2.0	U
trans-1,2-Dichloroethene	156-60-5	2.0	U	2.0	U	2.0	U	2.0	U
1,1-Dichloroethane	75-34-3	2.0	U	2.0	U	2.0	U	2.0	U
cis-1,2-Dichloroethene	156-59-2	2.0	U	2.0	U	2.0	U	5.9	
Chloroform	67-66-3	2.0	U	2.0	U	2.0	U	2.0	U
1,1,1-Trichloroethane	71-55-6	2.0	U	2.0	U	2.0	U	2.0	U
Benzene	71-43-2	2.0	U	2.0	U	2.0	U	2.0	U
Trichloroethene	79-01-6	2.0	U	0.28	J	2.0	U	18	
Toluene	108-88-3	2.0	U	2.0	U	2.0	U	2.0	U
Tetrachloroethene	127-18-4	2.0	U	2.0	U	2.0	U	2.0	U
Ethylbenzene	100-41-4	2.0	U	2.0	U	2.0	U	2.0	U
m,p-Xylenes	136777612	4.0	U	4.0	U	4.0	U	4.0	U
o-Xylene	95-47-6	2.0	U	2.0	U	2.0	U	2.0	U
Styrene	100-42-5	2.0	U	2.0	U	2.0	U	2.0	U
Isopropylbenzene	98-82-8	2.0	U	2.0	U	2.0	U	2.0	U
1,2,4-Trimethylbenzene	95-63-6	2.0	U	2.0	U	2.0	U	2.0	U
1,3,5-Trimethylbenzene	108-67-8	2.0	U	2.0	U	2.0	U	2.0	U
1,3-Dichlorobenzene	541-73-1	2.0	U	2.0	U	2.0	U	2.0	U
1,4-Dichlorobenzene	106-46-7	2.0	U	2.0	U	2.0	U	2.0	U
1,2-Dichlorobenzene	95-50-1	2.0	U	2.0	U	2.0	U	2.0	U
Naphthalene	91-20-3	2.0	U	2.0	U	2.0	U	2.0	U
Bromofluorobenzene (SS)	460-00-4	96	%	97	%	96	%	98	%

U= Not detected above specified RL
J= Estimated value
Q= Associated with QC failure
E= Estimated value, marginally above calibration level
D= Analyzed at dilution
N= Normal sample
EB= Equip. Blank
B= Blank contam.

Onsite Laboratory Results Mobile Laboratory 2

Client:	ERM	**Report Date:**	10/28/2013
Location:	Wayland, MA	**Date(s) Sampled:**	10/18/2013 - 10/18/2013
Project ID:	ERM Wayland, MA	**Date(s) Analyzed:**	10/18/2013 - 10/18/2013
SEI Project No.:	13-194	**Test Method:**	8260C,8260C
Matrix:	GW	**Results Given as:**	ug/L
Location ID:	APS-214	**Prep Method:**	Soils (SW), EPA 5035A0H/ASTM D62520-00 Ground Waters (NPW), ASTM D6520-00

All of the tests results were performed in accordance with the NELAP standards and meet all NELAP requirements for parameters for which accreditation is required or available. The reports were completed according to contract specific reporting requirements. Any exceptions to the NELAP standard requirements are noted and the data has been qualified accordingly.

Depth	CAS #	000.01		024.80		026.60		028.30	
Sample Name		APS-214-EB-20131018-01		APS-214-24.8-20131018-01		APS-214-26.6-20131018-01		APS-214-28.3-20131018-01	
Analysis Date		10/18/13 10:39	EB	10/18/13 10:55	N	10/18/13 11:41	N	10/18/13 13:51	N
Chloromethane	74-87-3	5.0	U	5.0	U	5.0	U	5.0	U
Vinyl Chloride	75-01-4	2.0	U	2.0	U	2.0	U	2.0	U
Chloroethane	75-00-3	2.0	U	2.0	U	2.0	U	2.0	U
1,1-Dichloroethene	75-35-4	2.0	U	2.0	U	1.1	J	3.8	
t-Butyl-methyl ether	1634-04-4	2.0	U	2.0	U	0.83	J	4.8	
trans-1,2-Dichloroethene	156-60-5	2.0	U	2.0	U	2.0	U	2.0	U
1,1-Dichloroethane	75-34-3	2.0	U	2.0	U	0.64	J	5.0	
cis-1,2-Dichloroethene	156-59-2	2.0	U	2.0	U	0.53	J	2.7	
Chloroform	67-66-3	2.0	U	2.0	U	2.0	U	2.0	U
1,1,1-Trichloroethane	71-55-6	2.0	U	0.56	J	21		24	
Benzene	71-43-2	2.0	U	2.0	U	2.0	U	2.0	U
Trichloroethene	79-01-6	2.0	U	2.2		84		190	
Toluene	108-88-3	2.0	U	2.0	U	2.0	U	2.0	U
Tetrachloroethene	127-18-4	2.0	U	2.0	U	2.0	U	0.23	J
Ethylbenzene	100-41-4	2.0	U	2.0	U	2.0	U	2.0	U
m,p-Xylenes	136777612	4.0	U	4.0	U	4.0	U	4.0	U
o-Xylene	95-47-6	2.0	U	2.0	U	2.0	U	2.0	U
Styrene	100-42-5	2.0	U	2.0	U	2.0	U	2.0	U
Isopropylbenzene	98-82-8	2.0	U	2.0	U	2.0	U	2.0	U
1,2,4-Trimethylbenzene	95-63-6	2.0	U	2.0	U	2.0	U	2.0	U
1,3,5-Trimethylbenzene	108-67-8	2.0	U	2.0	U	2.0	U	2.0	U
1,3-Dichlorobenzene	541-73-1	2.0	U	2.0	U	2.0	U	2.0	U
1,4-Dichlorobenzene	106-46-7	2.0	U	2.0	U	2.0	U	2.0	U
1,2-Dichlorobenzene	95-50-1	2.0	U	2.0	U	2.0	U	2.0	U
Naphthalene	91-20-3	2.0	U	2.0	U	2.0	U	2.0	U
Bromofluorobenzene (SS)	460-00-4	95	%	93	%	95	%	95	%

U= Not detected above specified RL
J= Estimated value
Q= Associated with QC failure
E= Estimated value, marginally above calibration level
D= Analyzed at dilution
N= Normal sample
EB= Equip. Blank
B= Blank contam.

Onsite Laboratory Results Mobile Laboratory 2

Client:	ERM	**Report Date:**	10/28/2013
Location:	Wayland, MA	**Date(s) Sampled:**	10/17/2013 - 10/18/2013
Project ID:	ERM Wayland, MA	**Date(s) Analyzed:**	10/17/2013 - 10/18/2013
SEI Project No.:	13-194	**Test Method:**	8260C,8260C
Matrix:	GW	**Results Given as:**	ug/L
Location ID:	APS-215	**Prep Method:**	Soils (SW), EPA 5035A0H/ASTM D62520-00 Ground Waters (NPW), ASTM D6520-00

All of the tests results were performed in accordance with the NELAP standards and meet all NELAP requirements for parameters for which accreditation is required or available. The reports were completed according to contract specific reporting requirements. Any exceptions to the NELAP standard requirements are noted and the data has been qualified accordingly.

Depth	CAS #	000.01		025.40		027.40		027.40		033.20	
Sample Name		APS-215-EB-20131017-01		APS-215-25.4-20131018-01		APS-215-27.4-20131018-01-DUP		APS-215-27.4-20131018-01		APS-215-33.2-20131018-01	
Analysis Date		10/17/13 17:31	EB	10/18/13 09:35	N	10/18/13 11:25	FD	10/18/13 11:10	N	10/18/13 14:23	N
Chloromethane	74-87-3	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Vinyl Chloride	75-01-4	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U
Chloroethane	75-00-3	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U
1,1-Dichloroethene	75-35-4	2.0	U	2.0	U	0.91	J	1.2	J	2.0	U
t-Butyl-methyl ether	1634-04-4	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U
trans-1,2-Dichloroethene	156-60-5	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U
1,1-Dichloroethane	75-34-3	2.0	U	2.0	U	0.71	J	0.65	J	0.19	J
cis-1,2-Dichloroethene	156-59-2	2.0	U	2.0	U	0.55	J	0.56	J	1.6	J
Chloroform	67-66-3	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U
1,1,1-Trichloroethane	71-55-6	2.0	U	0.21	J	18		20		2.0	U
Benzene	71-43-2	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U
Trichloroethene	79-01-6	2.0	U	0.84	J	68		77		7.6	
Toluene	108-88-3	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U
Tetrachloroethene	127-18-4	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U
Ethylbenzene	100-41-4	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U
m,p-Xylenes	136777612	4.0	U	4.0	U	4.0	U	4.0	U	4.0	U
o-Xylene	95-47-6	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U
Styrene	100-42-5	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U
Isopropylbenzene	98-82-8	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U
1,2,4-Trimethylbenzene	95-63-6	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U
1,3,5-Trimethylbenzene	108-67-8	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U
1,3-Dichlorobenzene	541-73-1	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U
1,4-Dichlorobenzene	106-46-7	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U
1,2-Dichlorobenzene	95-50-1	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U
Naphthalene	91-20-3	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U
Bromofluorobenzene (SS)	460-00-4	95	%	94	%	96	%	93	%	94	%

U= Not detected above specified RL
J= Estimated value
Q= Associated with QC failure
E= Estimated value, marginally above calibration level
D= Analyzed at dilution
N= Normal sample
EB= Equip. Blank
B= Blank contam.

Onsite Laboratory Results Mobile Laboratory 2

Client:	ERM	**Report Date:**	10/28/2013
Location:	Wayland, MA	**Date(s) Sampled:**	10/18/2013 - 10/18/2013
Project ID:	ERM Wayland, MA	**Date(s) Analyzed:**	10/18/2013 - 10/25/2013
SEI Project No.:	13-194	**Test Method:**	8260C,8260C
Matrix:	GW	**Results Given as:**	ug/L
Location ID:	APS-216	**Prep Method:**	Soils (SW), EPA 5035A0H/ASTM D62520-00 Ground Waters (NPW), ASTM D6520-00

All of the tests results were performed in accordance with the NELAP standards and meet all NELAP requirements for parameters for which accreditation is required or available. The reports were completed according to contract specific reporting requirements. Any exceptions to the NELAP standard requirements are noted and the data has been qualified accordingly.

Depth	CAS #	000.01		032.20	
Sample Name		APS-216-EB-20131018-01		APS-216-32.2-20131018-01	
Analysis Date		10/18/13 14:38	N	10/18/13 16:59	N
Chloromethane	74-87-3	5.0	U	5.0	U
Vinyl Chloride	75-01-4	2.0	U	2.0	U
Chloroethane	75-00-3	2.0	U	2.0	U
1,1-Dichloroethene	75-35-4	2.0	U	2.0	U
t-Butyl-methyl ether	1634-04-4	2.0	U	2.0	U
trans-1,2-Dichloroethene	156-60-5	2.0	U	1.6	J
1,1-Dichloroethane	75-34-3	2.0	U	2.0	U
cis-1,2-Dichloroethene	156-59-2	2.0	U	25	
Chloroform	67-66-3	2.0	U	2.0	U
1,1,1-Trichloroethane	71-55-6	2.0	U	2.0	U
Benzene	71-43-2	2.0	U	2.0	U
Trichloroethene	79-01-6	2.0	U	43	
Toluene	108-88-3	2.0	U	2.0	U
Tetrachloroethene	127-18-4	2.0	U	2.0	U
Ethylbenzene	100-41-4	2.0	U	2.0	U
m,p-Xylenes	136777612	4.0	U	4.0	U
o-Xylene	95-47-6	2.0	U	2.0	U
Styrene	100-42-5	2.0	U	2.0	U
Isopropylbenzene	98-82-8	2.0	U	2.0	U
1,2,4-Trimethylbenzene	95-63-6	2.0	U	2.0	U
1,3,5-Trimethylbenzene	108-67-8	2.0	U	2.0	U
1,3-Dichlorobenzene	541-73-1	2.0	U	2.0	U
1,4-Dichlorobenzene	106-46-7	2.0	U	2.0	U
1,2-Dichlorobenzene	95-50-1	2.0	U	2.0	U
Naphthalene	91-20-3	2.0	U	2.0	U
Bromofluorobenzene (SS)	460-00-4	94	%	86	%

U= Not detected above specified RL
J= Estimated value
Q= Associated with QC failure
E= Estimated value, marginally above calibration level
D= Analyzed at dilution
N= Normal sample
EB= Equip. Blank
B= Blank contam.

Onsite Laboratory Results Mobile Laboratory 2

Client:	ERM	**Report Date:**	10/28/2013
Location:	Wayland, MA	**Date(s) Sampled:**	10/18/2013 - 10/18/2013
Project ID:	ERM Wayland, MA	**Date(s) Analyzed:**	10/18/2013 - 10/18/2013
SEI Project No.:	13-194	**Test Method:**	8260C,8260C
Matrix:	GW	**Results Given as:**	ug/L
Location ID:	APS-217	**Prep Method:**	Soils (SW), EPA 5035A0H/ASTM D62520-00 Ground Waters (NPW), ASTM D6520-00

All of the tests results were performed in accordance with the NELAP standards and meet all NELAP requirements for parameters for which accreditation is required or available. The reports were completed according to contract specific reporting requirements. Any exceptions to the NELAP standard requirements are noted and the data has been qualified accordingly.

Depth Sample Name Analysis Date	CAS #	000.01 APS-217-EB-20131018-01 10/18/13 15:04	N
Chloromethane	74-87-3	5.0	U
Vinyl Chloride	75-01-4	2.0	U
Chloroethane	75-00-3	2.0	U
1,1-Dichloroethene	75-35-4	2.0	U
t-Butyl-methyl ether	1634-04-4	2.0	U
trans-1,2-Dichloroethene	156-60-5	2.0	U
1,1-Dichloroethane	75-34-3	2.0	U
cis-1,2-Dichloroethene	156-59-2	2.0	U
Chloroform	67-66-3	2.0	U
1,1,1-Trichloroethane	71-55-6	2.0	U
Benzene	71-43-2	2.0	U
Trichloroethene	79-01-6	2.0	U
Toluene	108-88-3	2.0	U
Tetrachloroethene	127-18-4	2.0	U
Ethylbenzene	100-41-4	2.0	U
m,p-Xylenes	136777612	4.0	U
o-Xylene	95-47-6	2.0	U
Styrene	100-42-5	2.0	U
Isopropylbenzene	98-82-8	2.0	U
1,2,4-Trimethylbenzene	95-63-6	2.0	U
1,3,5-Trimethylbenzene	108-67-8	2.0	U
1,3-Dichlorobenzene	541-73-1	2.0	U
1,4-Dichlorobenzene	106-46-7	2.0	U
1,2-Dichlorobenzene	95-50-1	2.0	U
Naphthalene	91-20-3	2.0	U
Bromofluorobenzene (SS)	460-00-4	95	%

U= Not detected above specified RL
J= Estimated value
Q= Associated with QC failure
E= Estimated value, marginally above calibration level
D= Analyzed at dilution
N= Normal sample
EB= Equip. Blank
B= Blank contam.

QUALITY CONTROL SUMMARIES

Continuing Calibration Verification (VSTD)

Laboratory Method Blank Summaries (VBLK)

Laboratory Control Sample Summaries (LCS)

Matrix Spike Summaries (MS)

Field Duplicate Summaries (FD)

Stone Environmental Inc. Project Number: 13-194
Volatile Standard Analyses Summary

QC Batch: PF
Analysis Date: 10/16/2013
Spike Amount: 20

Analyte	VSTD Conc. (ug/L)	VSTD % Difference (Acceptable Limit <=20 %)
Chloromethane	19.72	1.4
Vinyl Chloride	19.35	3.2
Chloroethane	21.17	-5.9
1,1-Dichloroethene	21.1	-5.5
t-Butyl-methyl ether	23.14	-15.7
trans-1,2-Dichloroethene	20.76	-3.8
1,1-Dichloroethane	22	-10.0
cis-1,2-Dichloroethene	21.69	-8.5
Chloroform	22.36	-11.8
1,1,1-Trichloroethane	21.57	-7.9
Benzene	21.67	-8.4
Trichloroethene	21.15	-5.7
Toluene	20.43	-2.2
Tetrachloroethene	21.08	-5.4
Ethylbenzene	20.36	-1.8
m,p-Xylenes	41.23	-3.1
o-Xylene	20.01	-.1
Styrene	20.99	-4.9
Isopropylbenzene	21.41	-7.1
1,2,4-Trimethylbenzene	23.04	-15.2
1,3,5-Trimethylbenzene	22.47	-12.4
1,3-Dichlorobenzene	20.74	-3.7
1,4-Dichlorobenzene	21.71	-8.6
1,2-Dichlorobenzene	21.27	-6.4
Naphthalene	21.81	-9.0
Bromofluorobenzene (SS)	117.4 %	117.4 %

U = Not detected above the specified reporting limit.
J = Estimated value.
* = Outside acceptable limit

Stone Environmental Inc. Project Number: 13-194
Volatile Standard Analyses Summary

QC Batch: PG
Analysis Date: 10/17/2013
Spike Amount: 20

Analyte	VSTD Conc. (ug/L)	VSTD % Difference (Acceptable Limit <=20 %)	
Chloromethane	17.52	12.4	
Vinyl Chloride	18.16	9.2	
Chloroethane	19.6	2.0	
1,1-Dichloroethene	19.92	.4	
t-Butyl-methyl ether	25.58	-27.9	*
trans-1,2-Dichloroethene	21.03	-5.2	
1,1-Dichloroethane	22.39	-12.0	
cis-1,2-Dichloroethene	21.59	-8.0	
Chloroform	22.37	-11.9	
1,1,1-Trichloroethane	21.04	-5.2	
Benzene	21.27	-6.4	
Trichloroethene	20.98	-4.9	
Toluene	19.44	2.8	
Tetrachloroethene	20.76	-3.8	
Ethylbenzene	20.38	-1.9	
m,p-Xylenes	39.8	.5	
o-Xylene	19.02	4.9	
Styrene	19.66	1.7	
Isopropylbenzene	20.51	-2.6	
1,2,4-Trimethylbenzene	21.58	-7.9	
1,3,5-Trimethylbenzene	20.66	-3.3	
1,3-Dichlorobenzene	21.55	-7.8	
1,4-Dichlorobenzene	20.42	-2.1	
1,2-Dichlorobenzene	20.28	-1.4	
Naphthalene	22.47	-12.4	
Bromofluorobenzene (SS)	117.1 %	117.1 %	

U = Not detected above the specified reporting limit.
J = Estimated value.
* = Outside acceptable limit

Stone Environmental Inc. Project Number: 13-194
Volatile Standard Analyses Summary

QC Batch: PH
Analysis Date: 10/18/2013
Spike Amount: 20

Analyte	VSTD Conc. (ug/L)	VSTD % Difference (Acceptable Limit <=20 %)	
Chloromethane	17.85	10.8	
Vinyl Chloride	18.2	9.0	
Chloroethane	20.43	-2.2	
1,1-Dichloroethene	19.98	.1	
t-Butyl-methyl ether	25.14	-25.7	*
trans-1,2-Dichloroethene	19.92	.4	
1,1-Dichloroethane	21.74	-8.7	
cis-1,2-Dichloroethene	21.43	-7.2	
Chloroform	22.5	-12.5	
1,1,1-Trichloroethane	20.88	-4.4	
Benzene	21.21	-6.1	
Trichloroethene	20.16	-.8	
Toluene	18.51	7.4	
Tetrachloroethene	19.1	4.5	
Ethylbenzene	19.34	3.3	
m,p-Xylenes	37.86	5.4	
o-Xylene	19.95	.3	
Styrene	21.18	-5.9	
Isopropylbenzene	20.75	-3.8	
1,2,4-Trimethylbenzene	22.35	-11.8	
1,3,5-Trimethylbenzene	21.53	-7.7	
1,3-Dichlorobenzene	21.02	-5.1	
1,4-Dichlorobenzene	21.19	-6.0	
1,2-Dichlorobenzene	22.02	-10.1	
Naphthalene	23.58	-17.9	
Bromofluorobenzene (SS)	121.4 %	121.4 %	

U = Not detected above the specified reporting limit.
J = Estimated value.
* = Outside acceptable limit

Stone Environmental Inc. Project Number: 13-194
Volatile Standard Analyses Summary

QC Batch: PL
Analysis Date: 10/25/2013
Spike Amount: 20

Analyte	VSTD Conc. (ug/L)	VSTD % Difference (Acceptable Limit <=20 %)
Vinyl Chloride	21.75	-8.8
Chloroethane	22.61	-13.1
1,1-Dichloroethene	19.32	3.4
trans-1,2-Dichloroethene	21.1	-5.5
1,1-Dichloroethane	20.93	-4.7
cis-1,2-Dichloroethene	21.42	-7.1
1,1,1-Trichloroethane	20.51	-2.6
Trichloroethene	19.96	.2
Tetrachloroethene	19.3	3.5
Bromofluorobenzene (SS)	107.45 %	107.45 %

U = Not detected above the specified reporting limit.
J = Estimated value.
* = Outside acceptable limit

Stone Environmental Inc. Project Number: 13-194
Laboratory Blank Sample Analysis Summary

Sample ID	VBLK PE
Date Analyzed	10/15/2013

Analyte	Result (ug/L)	
Chloromethane	5.0	U
Vinyl Chloride	2.0	U
Chloroethane	2.0	U
1,1-Dichloroethene	2.0	U
t-Butyl-methyl ether	2.0	U
trans-1,2-Dichloroethene	2.0	U
1,1-Dichloroethane	2.0	U
cis-1,2-Dichloroethene	2.0	U
Chloroform	2.0	U
1,1,1-Trichloroethane	2.0	U
Benzene	2.0	U
Trichloroethene	2.0	U
Toluene	2.0	U
Tetrachloroethene	2.0	U
Ethylbenzene	2.0	U
m,p-Xylenes	4.0	U
o-Xylene	2.0	U
Styrene	2.0	U
Isopropylbenzene	2.0	U
1,2,4-Trimethylbenzene	2.0	U
1,3,5-Trimethylbenzene	2.0	U
1,3-Dichlorobenzene	2.0	U
1,4-Dichlorobenzene	2.0	U
1,2-Dichlorobenzene	2.0	U
Naphthalene	2.0	U
Bromofluorobenzene (SS)	83	%

U = Not detected above the specified reporting limit.
J = Estimated value.

Stone Environmental Inc. Project Number: 13-194
Laboratory Blank Sample Analysis Summary

Sample ID	VBLK PF
Date Analyzed	10/16/2013

Analyte	Result (ug/L)	
Chloromethane	5.0	U
Vinyl Chloride	2.0	U
Chloroethane	2.0	U
1,1-Dichloroethene	2.0	U
t-Butyl-methyl ether	2.0	U
trans-1,2-Dichloroethene	2.0	U
1,1-Dichloroethane	2.0	U
cis-1,2-Dichloroethene	2.0	U
Chloroform	2.0	U
1,1,1-Trichloroethane	2.0	U
Benzene	2.0	U
Trichloroethene	2.0	U
Toluene	2.0	U
Tetrachloroethene	2.0	U
Ethylbenzene	2.0	U
m,p-Xylenes	4.0	U
o-Xylene	2.0	U
Styrene	2.0	U
Isopropylbenzene	2.0	U
1,2,4-Trimethylbenzene	2.0	U
1,3,5-Trimethylbenzene	2.0	U
1,3-Dichlorobenzene	2.0	U
1,4-Dichlorobenzene	2.0	U
1,2-Dichlorobenzene	2.0	U
Naphthalene	2.0	U
Bromofluorobenzene (SS)	92	%

U = Not detected above the specified reporting limit.
J = Estimated value.

Stone Environmental Inc. Project Number: 13-194
Laboratory Blank Sample Analysis Summary

Sample ID	VBLK PG
Date Analyzed	10/17/2013

Analyte	Result (ug/L)	
Chloromethane	5.0	U
Vinyl Chloride	2.0	U
Chloroethane	2.0	U
1,1-Dichloroethene	2.0	U
t-Butyl-methyl ether	2.0	U
trans-1,2-Dichloroethene	2.0	U
1,1-Dichloroethane	2.0	U
cis-1,2-Dichloroethene	2.0	U
Chloroform	2.0	U
1,1,1-Trichloroethane	2.0	U
Benzene	2.0	U
Trichloroethene	2.0	U
Toluene	2.0	U
Tetrachloroethene	2.0	U
Ethylbenzene	2.0	U
m,p-Xylenes	4.0	U
o-Xylene	2.0	U
Styrene	2.0	U
Isopropylbenzene	2.0	U
1,2,4-Trimethylbenzene	2.0	U
1,3,5-Trimethylbenzene	2.0	U
1,3-Dichlorobenzene	2.0	U
1,4-Dichlorobenzene	2.0	U
1,2-Dichlorobenzene	2.0	U
Naphthalene	2.0	U
Bromofluorobenzene (SS)	93	%

U = Not detected above the specified reporting limit.
J = Estimated value.

Stone Environmental Inc. Project Number: 13-194
Laboratory Blank Sample Analysis Summary

Sample ID	VBLK PH
Date Analyzed	10/18/2013

Analyte	Result (ug/L)	
Chloromethane	5.0	U
Vinyl Chloride	2.0	U
Chloroethane	2.0	U
1,1-Dichloroethene	2.0	U
t-Butyl-methyl ether	2.0	U
trans-1,2-Dichloroethene	2.0	U
1,1-Dichloroethane	2.0	U
cis-1,2-Dichloroethene	2.0	U
Chloroform	2.0	U
1,1,1-Trichloroethane	2.0	U
Benzene	2.0	U
Trichloroethene	2.0	U
Toluene	2.0	U
Tetrachloroethene	2.0	U
Ethylbenzene	2.0	U
m,p-Xylenes	4.0	U
o-Xylene	2.0	U
Styrene	2.0	U
Isopropylbenzene	2.0	U
1,2,4-Trimethylbenzene	2.0	U
1,3,5-Trimethylbenzene	2.0	U
1,3-Dichlorobenzene	2.0	U
1,4-Dichlorobenzene	2.0	U
1,2-Dichlorobenzene	2.0	U
Naphthalene	2.0	U
Bromofluorobenzene (SS)	93	%

U = Not detected above the specified reporting limit.
J = Estimated value.

Stone Environmental Inc. Project Number: 13-194
Laboratory Blank Sample Analysis Summary

Sample ID	VBLK PL
Date Analyzed	10/25/2013

Analyte	**Result (ug/L)**	
Vinyl Chloride	2.0	U
Chloroethane	2.0	U
1,1-Dichloroethene	2.0	U
trans-1,2-Dichloroethene	2.0	U
1,1-Dichloroethane	2.0	U
cis-1,2-Dichloroethene	2.0	U
1,1,1-Trichloroethane	2.0	U
Trichloroethene	2.0	U
Tetrachloroethene	2.0	U
Bromofluorobenzene (SS)	81	%

U = Not detected above the specified reporting limit.
J = Estimated value.

Stone Environmental Inc. Project Number: 13-194
Laboratory Control Sample Summary

QC Batch: PE

Analysis Date: 10/15/2013

Method: 8260C

Spike Amount: 20

Analyte	Lab Blank Conc. (ug/L)	LCS Conc.(ug/L)	LCS % Recovery	QC Limits (% Recovery)
Chloromethane	5.0 U	20	100	70-130
Vinyl Chloride	2.0 U	21	105	70-130
Chloroethane	2.0 U	19	95	70-130
1,1-Dichloroethene	2.0 U	23	115	70-130
t-Butyl-methyl ether	2.0 U	20	100	60-140
trans-1,2-Dichloroethene	2.0 U	23	115	70-130
1,1-Dichloroethane	2.0 U	21	105	70-130
cis-1,2-Dichloroethene	2.0 U	21	105	70-130
Chloroform	2.0 U	20	100	70-130
1,1,1-Trichloroethane	2.0 U	22	110	70-130
Benzene	2.0 U	21	105	70-130
Trichloroethene	2.0 U	21	105	70-130
Toluene	2.0 U	20	100	70-130
Tetrachloroethene	2.0 U	23	115	70-130
Ethylbenzene	2.0 U	21	105	70-130
m,p-Xylenes	4.0 U	42	105	70-130
o-Xylene	2.0 U	21	105	70-130
Styrene	2.0 U	20	100	70-130
Isopropylbenzene	2.0 U	21	105	70-130
1,2,4-Trimethylbenzene	2.0 U	22	110	70-130
1,3,5-Trimethylbenzene	2.0 U	21	105	70-130
1,3-Dichlorobenzene	2.0 U	19	95	70-130
1,4-Dichlorobenzene	2.0 U	19	95	70-130
1,2-Dichlorobenzene	2.0 U	19	95	70-130
Naphthalene	2.0 U	19	95	70-130
Bromofluorobenzene (SS)	83 %	99 %	99 %	70-130

U = Not detected above the specified reporting limit.
J = Estimated value.
NA = Compound not present.
* = Percent Recovery outside QC Limits

Stone Environmental Inc. Project Number: 13-194
Laboratory Control Sample Summary

QC Batch: PF

Analysis Date: 10/16/2013

Method: 8260C

Spike Amount: 20

Analyte	Lab Blank Conc. (ug/L)	LCS Conc.(ug/L)	LCS % Recovery	QC Limits (% Recovery)
Chloromethane	5.0 U	19	95	70-130
Vinyl Chloride	2.0 U	20	100	70-130
Chloroethane	2.0 U	19	95	70-130
1,1-Dichloroethene	2.0 U	22	110	70-130
t-Butyl-methyl ether	2.0 U	21	105	60-140
trans-1,2-Dichloroethene	2.0 U	22	110	70-130
1,1-Dichloroethane	2.0 U	22	110	70-130
cis-1,2-Dichloroethene	2.0 U	22	110	70-130
Chloroform	2.0 U	21	105	70-130
1,1,1-Trichloroethane	2.0 U	22	110	70-130
Benzene	2.0 U	22	110	70-130
Trichloroethene	2.0 U	21	105	70-130
Toluene	2.0 U	20	100	70-130
Tetrachloroethene	2.0 U	23	115	70-130
Ethylbenzene	2.0 U	21	105	70-130
m,p-Xylenes	4.0 U	41	103	70-130
o-Xylene	2.0 U	20	100	70-130
Styrene	2.0 U	20	100	70-130
Isopropylbenzene	2.0 U	21	105	70-130
1,2,4-Trimethylbenzene	2.0 U	23	115	70-130
1,3,5-Trimethylbenzene	2.0 U	22	110	70-130
1,3-Dichlorobenzene	2.0 U	21	105	70-130
1,4-Dichlorobenzene	2.0 U	21	105	70-130
1,2-Dichlorobenzene	2.0 U	21	105	70-130
Naphthalene	2.0 U	21	105	70-130
Bromofluorobenzene (SS)	92 %	109 %	109 %	70-130

U = Not detected above the specified reporting limit.
J = Estimated value.
NA = Compound not present.
* = Percent Recovery outside QC Limits

Stone Environmental Inc. Project Number: 13-194
Laboratory Control Sample Summary

QC Batch: PG

Analysis Date: 10/17/2013

Method: 8260C

Spike Amount: 20

Analyte	Lab Blank Conc. (ug/L)	LCS Conc.(ug/L)	LCS % Recovery	QC Limits (% Recovery)
Chloromethane	5.0 U	20	100	70-130
Vinyl Chloride	2.0 U	19	95	70-130
Chloroethane	2.0 U	19	95	70-130
1,1-Dichloroethene	2.0 U	24	120	70-130
t-Butyl-methyl ether	2.0 U	23	115	60-140
trans-1,2-Dichloroethene	2.0 U	23	115	70-130
1,1-Dichloroethane	2.0 U	23	115	70-130
cis-1,2-Dichloroethene	2.0 U	22	110	70-130
Chloroform	2.0 U	22	110	70-130
1,1,1-Trichloroethane	2.0 U	22	110	70-130
Benzene	2.0 U	22	110	70-130
Trichloroethene	2.0 U	21	105	70-130
Toluene	2.0 U	19	95	70-130
Tetrachloroethene	2.0 U	20	100	70-130
Ethylbenzene	2.0 U	20	100	70-130
m,p-Xylenes	4.0 U	39	98	70-130
o-Xylene	2.0 U	20	100	70-130
Styrene	2.0 U	22	110	70-130
Isopropylbenzene	2.0 U	20	100	70-130
1,2,4-Trimethylbenzene	2.0 U	22	110	70-130
1,3,5-Trimethylbenzene	2.0 U	21	105	70-130
1,3-Dichlorobenzene	2.0 U	20	100	70-130
1,4-Dichlorobenzene	2.0 U	21	105	70-130
1,2-Dichlorobenzene	2.0 U	21	105	70-130
Naphthalene	2.0 U	22	110	70-130
Bromofluorobenzene (SS)	93 %	110 %	110 %	70-130

U = Not detected above the specified reporting limit.
J = Estimated value.
NA = Compound not present.
* = Percent Recovery outside QC Limits

Stone Environmental Inc. Project Number: 13-194
Laboratory Control Sample Summary

QC Batch: PH

Analysis Date: 10/18/2013

Method: 8260C

Spike Amount: 20

Analyte	Lab Blank Conc. (ug/L)	LCS Conc.(ug/L)	LCS % Recovery	QC Limits (% Recovery)
Chloromethane	5.0 U	18	90	70-130
Vinyl Chloride	2.0 U	17	85	70-130
Chloroethane	2.0 U	18	90	70-130
1,1-Dichloroethene	2.0 U	22	110	70-130
t-Butyl-methyl ether	2.0 U	24	120	60-140
trans-1,2-Dichloroethene	2.0 U	21	105	70-130
1,1-Dichloroethane	2.0 U	22	110	70-130
cis-1,2-Dichloroethene	2.0 U	23	115	70-130
Chloroform	2.0 U	22	110	70-130
1,1,1-Trichloroethane	2.0 U	21	105	70-130
Benzene	2.0 U	21	105	70-130
Trichloroethene	2.0 U	20	100	70-130
Toluene	2.0 U	19	95	70-130
Tetrachloroethene	2.0 U	18	90	70-130
Ethylbenzene	2.0 U	20	100	70-130
m,p-Xylenes	4.0 U	38	95	70-130
o-Xylene	2.0 U	19	95	70-130
Styrene	2.0 U	20	100	70-130
Isopropylbenzene	2.0 U	19	95	70-130
1,2,4-Trimethylbenzene	2.0 U	21	105	70-130
1,3,5-Trimethylbenzene	2.0 U	20	100	70-130
1,3-Dichlorobenzene	2.0 U	19	95	70-130
1,4-Dichlorobenzene	2.0 U	20	100	70-130
1,2-Dichlorobenzene	2.0 U	21	105	70-130
Naphthalene	2.0 U	23	115	70-130
Bromofluorobenzene (SS)	93 %	107 %	107 %	70-130

U = Not detected above the specified reporting limit.
J = Estimated value.
NA = Compound not present.
* = Percent Recovery outside QC Limits

Stone Environmental Inc. Project Number: 13-194
Laboratory Control Sample Summary

QC Batch: PL

Analysis Date: 10/25/2013

Method: 8260C

Spike Amount: 20

Analyte	Lab Blank Conc. (ug/L)	LCS Conc.(ug/L)	LCS % Recovery	QC Limits (% Recovery)
Vinyl Chloride	2.0 U	23	115	70-130
Chloroethane	2.0 U	21	105	70-130
1,1-Dichloroethene	2.0 U	21	105	70-130
trans-1,2-Dichloroethene	2.0 U	22	110	70-130
1,1-Dichloroethane	2.0 U	21	105	70-130
cis-1,2-Dichloroethene	2.0 U	22	110	70-130
1,1,1-Trichloroethane	2.0 U	20	100	70-130
Trichloroethene	2.0 U	19	95	70-130
Tetrachloroethene	2.0 U	19	95	70-130
Bromofluorobenzene (SS)	81 %	103 %	103 %	70-130

U = Not detected above the specified reporting limit.
J = Estimated value.
NA = Compound not present.
* = Percent Recovery outside QC Limits

Stone Environmental Inc. Project Number: 13-194
Laboratory Matrix Spike/Matrix Spike Duplicate Analyses Summary Sheet

Sample ID: APS-206-26.2-20131
Sample Date: 10/16/2013
Analysis Date: 10/16/2013
Method: 8260C

Analyte	Original Conc. (ug/L)	MS Conc. (ug/L)	MS % Recovery	MSD Conc. (ug/L)	MSD % Recovery	RPD < 30	QC Limits (% Recovery)
Spike Amount (ug/L):		20		20			
Chloromethane	5.0 U	17	85	18	90	6	70 - 130
Vinyl Chloride	2.0 U	17	85	16	80	6	70 - 130
Chloroethane	2.0 U	19	95	19	95	0	70 - 130
1,1-Dichloroethene	2.0 U	19	95	19	95	0	70 - 130
t-Butyl-methyl ether	2.0 U	23	115	23	115	0	60 - 140
trans-1,2-Dichloroethene	2.0 U	19	95	20	100	5	70 - 130
1,1-Dichloroethane	2.0 U	21	105	21	105	0	70 - 130
cis-1,2-Dichloroethene	2.0 U	21	105	21	105	0	70 - 130
Chloroform	2.0 U	21	105	21	105	0	70 - 130
1,1,1-Trichloroethane	2.0 U	20	100	20	100	0	70 - 130
Benzene	2.0 U	20	100	21	105	5	70 - 130
Trichloroethene	0.90 J	21	101	22	106	5	70 - 130
Toluene	2.0 U	19	95	20	100	5	70 - 130
Tetrachloroethene	2.0 U	18	90	19	95	5	70 - 130
Ethylbenzene	2.0 U	19	95	20	100	5	70 - 130
m,p-Xylenes	4.0 U	37	93	39	98	5	70 - 130
o-Xylene	2.0 U	19	95	20	100	5	70 - 130
Styrene	2.0 U	20	100	20	100	0	70 - 130
Isopropylbenzene	2.0 U	20	100	20	100	0	70 - 130
1,2,4-Trimethylbenzene	2.0 U	22	110	22	110	0	70 - 130
1,3,5-Trimethylbenzene	2.0 U	20	100	21	105	5	70 - 130

U = Not detected above the specified reporting limit.
J = Estimated value.
E = Estimated value, marginally above the calibration levels.
* = Percent Recovery outside QC Limits

Stone Environmental Inc. Project Number: 13-194
Laboratory Matrix Spike/Matrix Spike Duplicate Analyses Summary Sheet

Sample ID: APS-206-26.2-20131
Sample Date: 10/16/2013
Analysis Date: 10/16/2013
Method: 8260C

Analyte	Original Conc. (ug/L)	MS Conc. (ug/L)	MS % Recovery	MSD Conc. (ug/L)	MSD % Recovery	RPD < 30	QC Limits (% Recovery)
Spike Amount (ug/L):		20		20			
1,3-Dichlorobenzene	2.0 U	20	100	20	100	0	70 - 130
1,4-Dichlorobenzene	2.0 U	21	105	21	105	0	70 - 130
1,2-Dichlorobenzene	2.0 U	20	100	21	105	5	70 - 130
Naphthalene	2.0 U	22	110	21	105	5	70 - 130

U = Not detected above the specified reporting limit.
J = Estimated value.
E = Estimated value, marginally above the calibration levels.
* = Percent Recovery outside QC Limits

Stone Environmental Inc. Project Number: 13-194
Laboratory Matrix Spike/Matrix Spike Duplicate Analyses Summary Sheet

Sample ID: APS-214-26.6-20131
Sample Date: 10/18/2013
Analysis Date: 10/18/2013
Method: 8260C

Analyte	Original Conc. (ug/L)	MS Conc. (ug/L)	MS % Recovery	MSD Conc. (ug/L)	MSD % Recovery	RPD < 30	QC Limits (% Recovery)
Spike Amount (ug/L):		20		20			
Chloromethane	5.0 U	17	85	17	85	0	70 - 130
Vinyl Chloride	2.0 U	15	75	15	75	0	70 - 130
Chloroethane	2.0 U	19	95	19	95	0	70 - 130
1,1-Dichloroethene	1.1 J	19	90	19	90	0	70 - 130
t-Butyl-methyl ether	0.83 J	23	111	24	116	4	60 - 140
trans-1,2-Dichloroethene	2.0 U	20	100	19	95	5	70 - 130
1,1-Dichloroethane	0.64 J	22	107	22	107	0	70 - 130
cis-1,2-Dichloroethene	0.53 J	20	97	21	102	5	70 - 130
Chloroform	2.0 U	22	110	22	110	0	70 - 130
1,1,1-Trichloroethane	21	40	95	39	90	5	70 - 130
Benzene	2.0 U	21	105	21	105	0	70 - 130
Trichloroethene	84	100	80	98	70	13	70 - 130
Toluene	2.0 U	20	100	19	95	5	70 - 130
Tetrachloroethene	2.0 U	19	95	18	90	5	70 - 130
Ethylbenzene	2.0 U	21	105	20	100	5	70 - 130
m,p-Xylenes	4.0 U	41	103	38	95	8	70 - 130
o-Xylene	2.0 U	20	100	19	95	5	70 - 130
Styrene	2.0 U	21	105	20	100	5	70 - 130
Isopropylbenzene	2.0 U	20	100	19	95	5	70 - 130
1,2,4-Trimethylbenzene	2.0 U	23	115	21	105	9	70 - 130
1,3,5-Trimethylbenzene	2.0 U	22	110	20	100	10	70 - 130

U = Not detected above the specified reporting limit.
J = Estimated value.
E = Estimated value, marginally above the calibration levels.
* = Percent Recovery outside QC Limits

Stone Environmental Inc. Project Number: 13-194
Laboratory Matrix Spike/Matrix Spike Duplicate Analyses Summary Sheet

Sample ID: APS-214-26.6-20131
Sample Date: 10/18/2013
Analysis Date: 10/18/2013
Method: 8260C

Analyte	Original Conc. (ug/L)	MS Conc. (ug/L)	MS % Recovery	MSD Conc. (ug/L)	MSD % Recovery	RPD < 30	QC Limits (% Recovery)
Spike Amount (ug/L):		20		20			
1,3-Dichlorobenzene	2.0 U	21	105	20	100	5	70 - 130
1,4-Dichlorobenzene	2.0 U	21	105	21	105	0	70 - 130
1,2-Dichlorobenzene	2.0 U	21	105	21	105	0	70 - 130
Naphthalene	2.0 U	21	105	20	100	5	70 - 130

U = Not detected above the specified reporting limit.
J = Estimated value.
E = Estimated value, marginally above the calibration levels.
* = Percent Recovery outside QC Limits

Field Duplicate Analyses Report

Stone Environmental Project Number: 13-194

Test Method: **8260C**
Results Given as: **ug/L**

Sample ID	APS-205-26.1-20131015-01		APS-205-26.1-DUP		**RPD**
Lab ID	SEI-21		SEI-21-FD		
Sample Date	10/15/2013		10/15/2013		
Date Analyzed	10/16/2013		10/16/2013		
Chloromethane	5.0	U	5.0	U	NA
Vinyl Chloride	2.0	U	2.0	U	NA
Chloroethane	2.0	U	2.0	U	NA
1,1-Dichloroethene	2.0	U	2.0	U	NA
t-Butyl-methyl ether	2.0	U	2.0	U	NA
trans-1,2-Dichloroethene	2.0	U	2.0	U	NA
1,1-Dichloroethane	2.0	U	2.0	U	NA
cis-1,2-Dichloroethene	0.65	J	0.43	J	41
Chloroform	2.0	U	2.0	U	NA
1,1,1-Trichloroethane	2.0	U	2.0	U	NA
Benzene	2.0	U	2.0	U	NA
Trichloroethene	4.4		4.2		5
Toluene	2.0	U	2.0	U	NA
Tetrachloroethene	2.0	U	2.0	U	NA
Ethylbenzene	2.0	U	2.0	U	NA
m,p-Xylenes	4.0	U	4.0	U	NA
o-Xylene	2.0	U	2.0	U	NA
Styrene	2.0	U	2.0	U	NA
Isopropylbenzene	2.0	U	2.0	U	NA
1,2,4-Trimethylbenzene	2.0	U	2.0	U	NA
1,3,5-Trimethylbenzene	2.0	U	2.0	U	NA
1,3-Dichlorobenzene	2.0	U	2.0	U	NA
1,4-Dichlorobenzene	2.0	U	2.0	U	NA
1,2-Dichlorobenzene	2.0	U	2.0	U	NA
Naphthalene	2.0	U	2.0	U	NA

U = Not detected above the specified reporting limit.
J = Estimated value.
E = Estimated value, marginally above the calibration levels.
* = Percent Recovery outside QC Limits

Field Duplicate Analyses Report

Stone Environmental Project Number: 13-194

Test Method: **8260C**
Results Given as: **ug/L**

Sample ID	APS-215-27.4-20131018-01		APS-215-27.4-DUP		**RPD**
Lab ID	SEI-50		SEI-50-FD		
Sample Date	10/18/2013		10/18/2013		
Date Analyzed	10/18/2013		10/18/2013		
Chloromethane	5.0	U	5.0	U	NA
Vinyl Chloride	2.0	U	2.0	U	NA
Chloroethane	2.0	U	2.0	U	NA
1,1-Dichloroethene	1.2	J	0.91	J	27
t-Butyl-methyl ether	2.0	U	2.0	U	NA
trans-1,2-Dichloroethene	2.0	U	2.0	U	NA
1,1-Dichloroethane	0.65	J	0.71	J	9
cis-1,2-Dichloroethene	0.56	J	0.55	J	2
Chloroform	2.0	U	2.0	U	NA
1,1,1-Trichloroethane	20		18		11
Benzene	2.0	U	2.0	U	NA
Trichloroethene	77		68		12
Toluene	2.0	U	2.0	U	NA
Tetrachloroethene	2.0	U	2.0	U	NA
Ethylbenzene	2.0	U	2.0	U	NA
m,p-Xylenes	4.0	U	4.0	U	NA
o-Xylene	2.0	U	2.0	U	NA
Styrene	2.0	U	2.0	U	NA
Isopropylbenzene	2.0	U	2.0	U	NA
1,2,4-Trimethylbenzene	2.0	U	2.0	U	NA
1,3,5-Trimethylbenzene	2.0	U	2.0	U	NA
1,3-Dichlorobenzene	2.0	U	2.0	U	NA
1,4-Dichlorobenzene	2.0	U	2.0	U	NA
1,2-Dichlorobenzene	2.0	U	2.0	U	NA
Naphthalene	2.0	U	2.0	U	NA

U = Not detected above the specified reporting limit.
J = Estimated value.
E = Estimated value, marginally above the calibration levels.
* = Percent Recovery outside QC Limits

Appendix D
Waterloo Profiler Logs

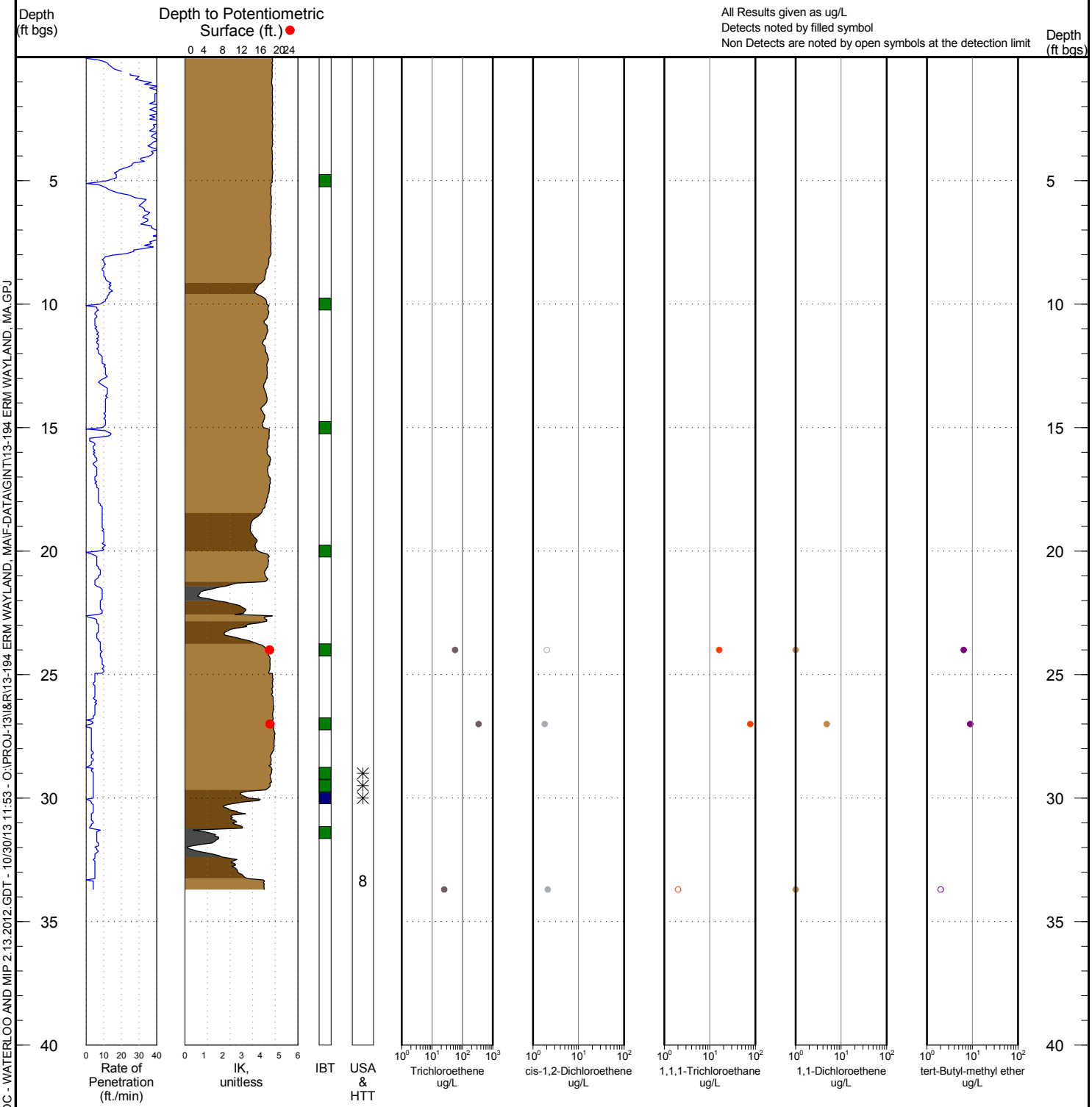
BORING NAME APS-200

Total Depth 33.7 m.

MobiLab™
DEFENSIBLE REAL-TIME ANALYTICS

Project Name ERM Wayland, MA
Client ERM
Stone Project Number 13-194
Project Location Wayland, MA

Date Completed 10/15/2013
Sampler(s) VLD
Drilling Contractor Platform
Gas Drive or Peri Pump Peri Pump



IK Scale

0 to 0.1	
0.1 to 2	
2 to 4	
4 to 6	
>6	

Legend

IBT = IK Behavior Type
- = IK increase when hammer stops
- = IK decrease when hammer stops
- = No change when hammer stops

USA = Unsuccessful Sample Attempt
- ✳ = Could not produce water
- ▲ = Yield deemed too slow
- ■ = Equipment issue

HTT = Hole Termination Type
- 7 = Broken downhole equipment
- 8 = Reached Target Depth
- 9 = ROP dropped below threshold
- 10 = Sudden Hard Refusal

WATERLOO APS & VOC - WATERLOO AND MIP 2.13.2012.GDT - 10/30/13 11:53 - O:\PROJ-13\I&R\13-194 ERM WAYLAND, MA\F-DATA\GINT\13-194 ERM WAYLAND, MA.GPJ

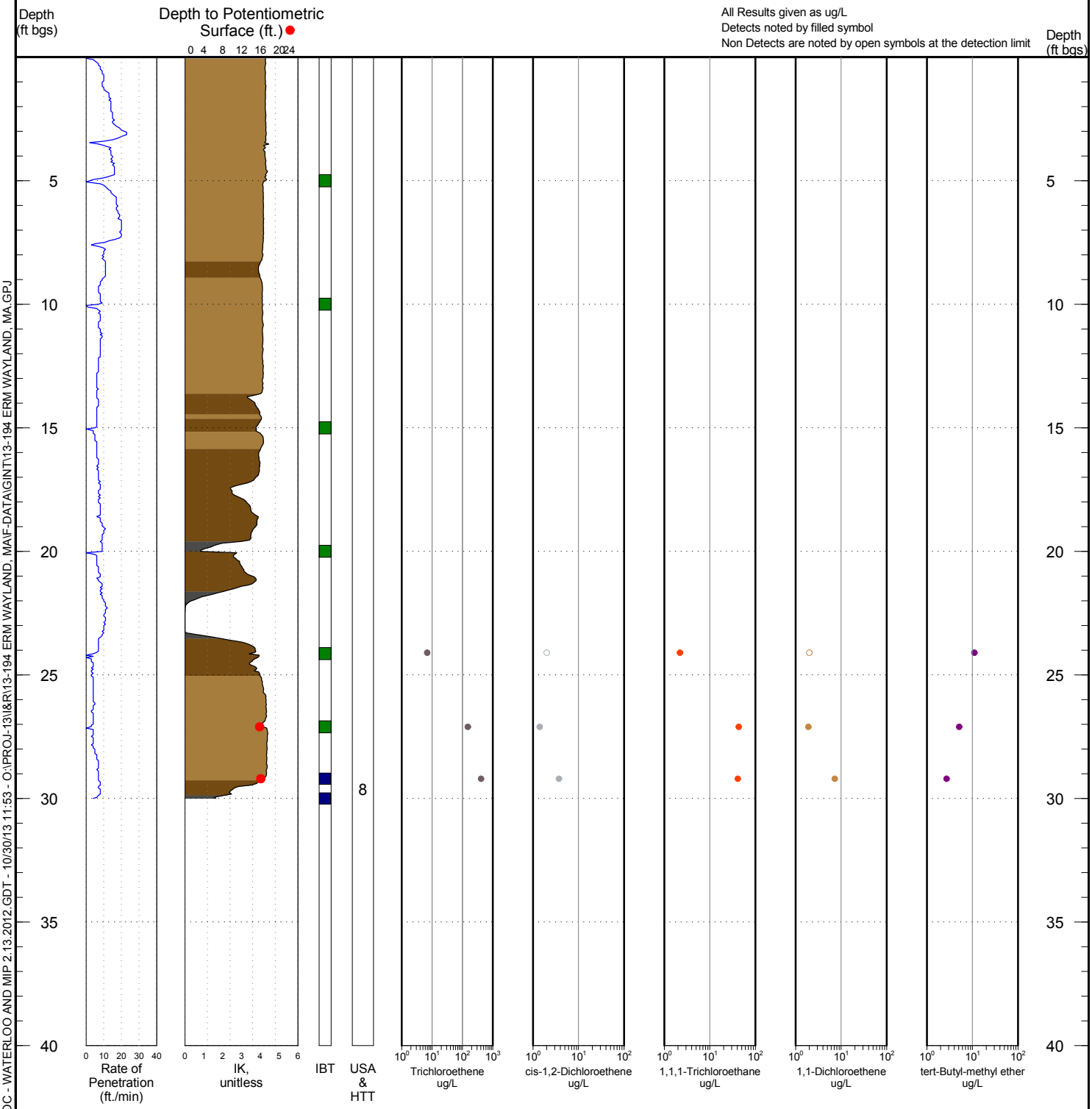
BORING NAME APS-201

Total Depth 30.00 m.

MobiLab™
DEFENSIBLE REAL-TIME ANALYTICS

Project Name ERM Wayland, MA
Client ERM
Stone Project Number 13-194
Project Location Wayland, MA

Date Completed 10/14/2013
Sampler(s) VLD
Drilling Contractor Platform
Gas Drive or Peri Pump Peri Pump



IK Scale

0 to 0.1	
0.1 to 2	
2 to 4	
4 to 6	
>6	

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WATERLOO APS & VOC - WATERLOO AND MIP 2.13.2012.GDT - 10/30/13 11:53 - O:\PROJ-13\I&R\13-194 ERM WAYLAND, MA\F-DATA\GINT\13-194 ERM WAYLAND, MA.GPJ

BORING NAME APS-202

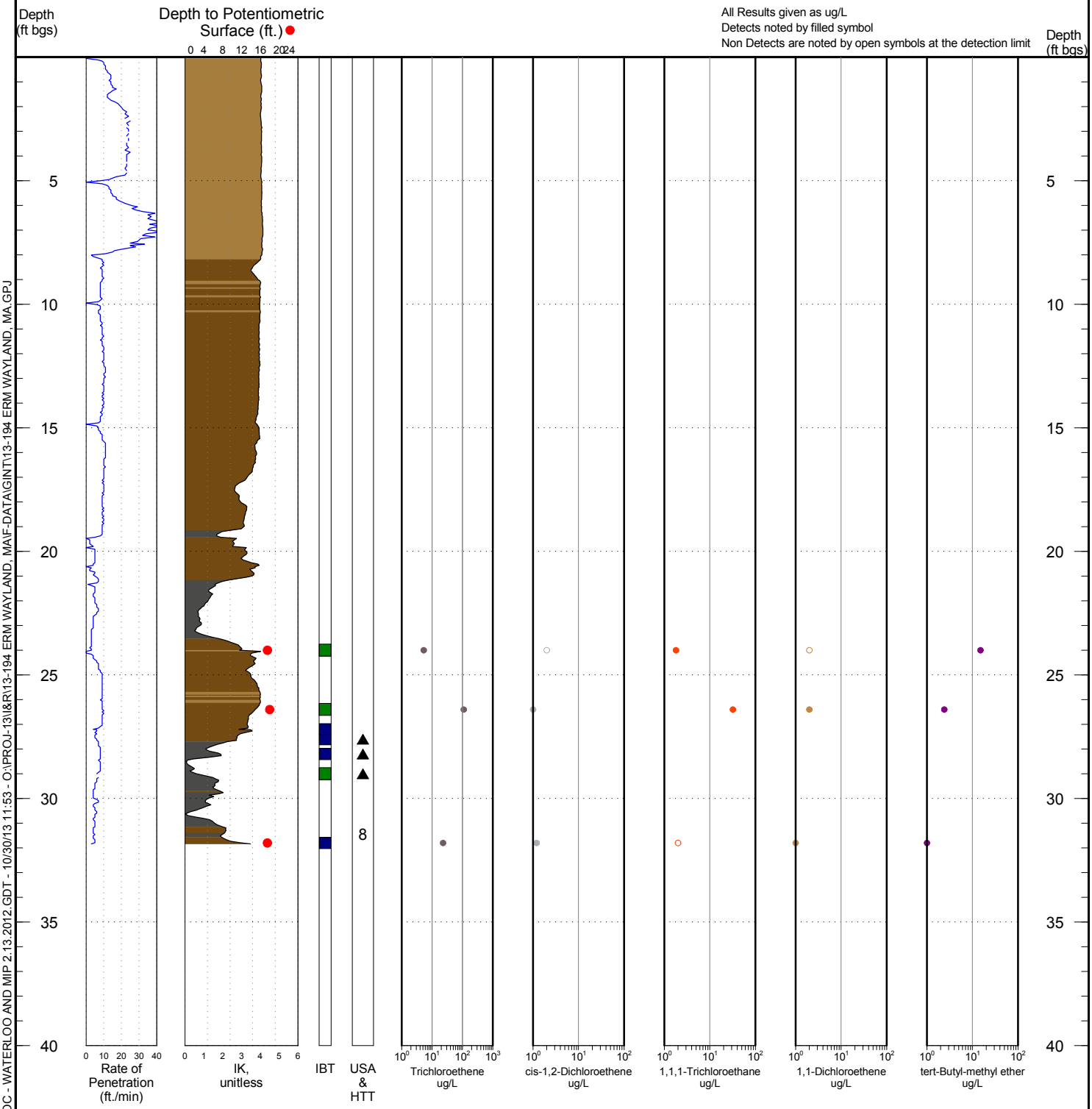
Total Depth 31.80 m.

MobiLab™
DEFENSIBLE REAL-TIME ANALYTICS

Project Name ERM Wayland, MA
Client ERM
Stone Project Number 13-194
Project Location Wayland, MA

Date Completed 10/16/2013
Sampler(s) TWM
Drilling Contractor Platform
Gas Drive or Peri Pump Peri Pump

All Results given as ug/L
Detects noted by filled symbol
Non Detects are noted by open symbols at the detection limit



IK Scale

0 to 0.1	
0.1 to 2	
2 to 4	
4 to 6	
>6	

Legend

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- = IK decrease when hammer stops
- = No change when hammer stops

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- ▲ = Yield deemed too slow
- ■ = Equipment issue

HTT = Hole Termination Type
- 7 = Broken downhole equipment
- 8 = Reached Target Depth
- 9 = ROP dropped below threshold
- 10 = Sudden Hard Refusal

WATERLOO APS & VOC - WATERLOO AND MIP 2.13.2012.GDT - 10/30/13 11:53 - O:\PROJ-13\I&R\13-194 ERM WAYLAND, MA\F-DATA\GINT\13-194 ERM WAYLAND, MA.GPJ

BORING NAME APS-203

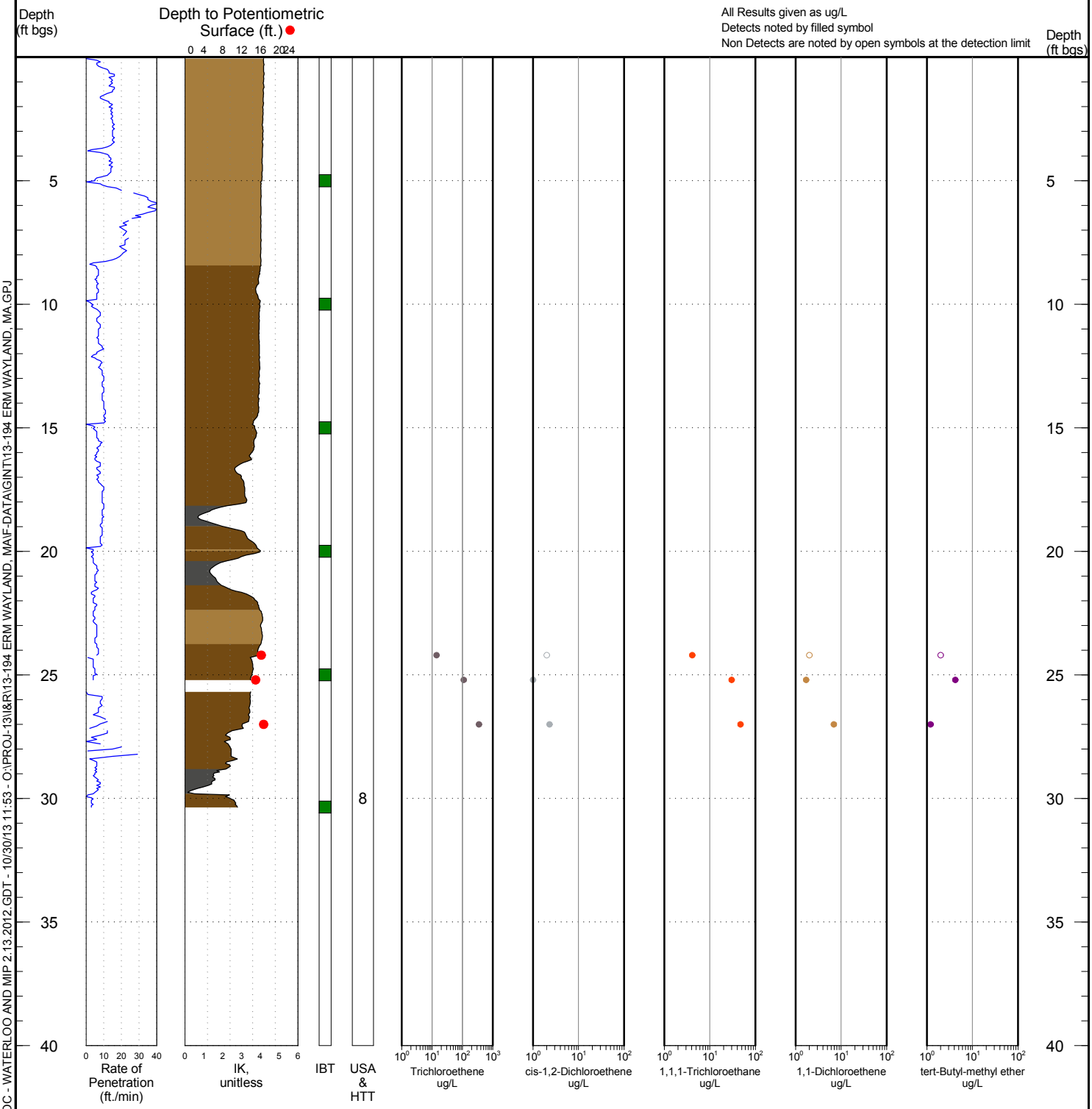
Total Depth 30.35 m.

MobiLab™
DEFENSIBLE REAL-TIME ANALYTICS

Project Name ERM Wayland, MA
Client ERM
Stone Project Number 13-194
Project Location Wayland, MA

Date Completed 10/14/2013
Sampler(s) JAB
Drilling Contractor Platform
Gas Drive or Peri Pump Peri Pump

All Results given as ug/L
Detects noted by filled symbol
Non Detects are noted by open symbols at the detection limit



IK Scale

0 to 0.1	
0.1 to 2	
2 to 4	
4 to 6	
>6	

Legend

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HTT = Hole Termination Type
- 7 = Broken downhole equipment
- 8 = Reached Target Depth
- 9 = ROP dropped below threshold
- 10 = Sudden Hard Refusal

WATERLOO APS & VOC - WATERLOO AND MIP 2.13.2012.GDT - 10/30/13 11:53 - O:\PROJ-13\I&R\13-194 ERM WAYLAND, MA\F-DATA\GINT\13-194 ERM WAYLAND, MA.GPJ

BORING NAME APS-204

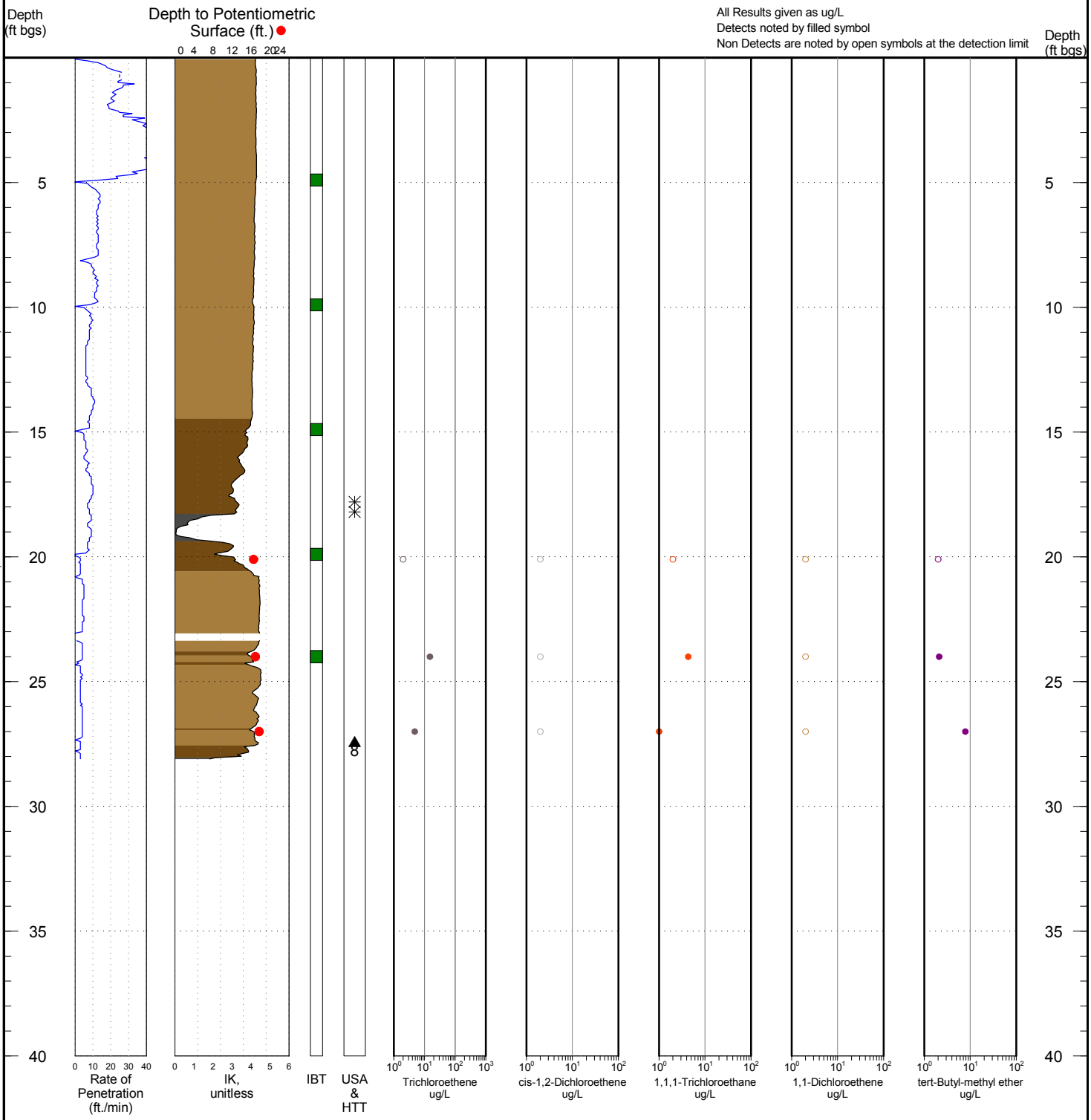
Total Depth 28.10 m.

MobiLab™
DEFENSIBLE REAL-TIME ANALYTICS

Project Name ERM Wayland, MA
Client ERM
Stone Project Number 13-194
Project Location Wayland, MA

Date Completed 10/15/2013
Sampler(s) JAB
Drilling Contractor Platform
Gas Drive or Peri Pump Peri Pump

All Results given as ug/L
Detects noted by filled symbol
Non Detects are noted by open symbols at the detection limit



IK Scale

0 to 0.1	
0.1 to 2	
2 to 4	
4 to 6	
>6	

Legend

IBT = IK Behavior Type
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- ✳ = Could not produce water
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- ■ = Equipment issue

HTT = Hole Termination Type
- 7 = Broken downhole equipment
- 8 = Reached Target Depth
- 9 = ROP dropped below threshold
- 10 = Sudden Hard Refusal

WATERLOO APS & VOC - WATERLOO AND MIP 2.13.2012.GDT - 10/30/13 11:54 - O:\PROJ-13\I&R\13-194 ERM WAYLAND, MA\F-DATA\GINT\13-194 ERM WAYLAND, MA.GPJ

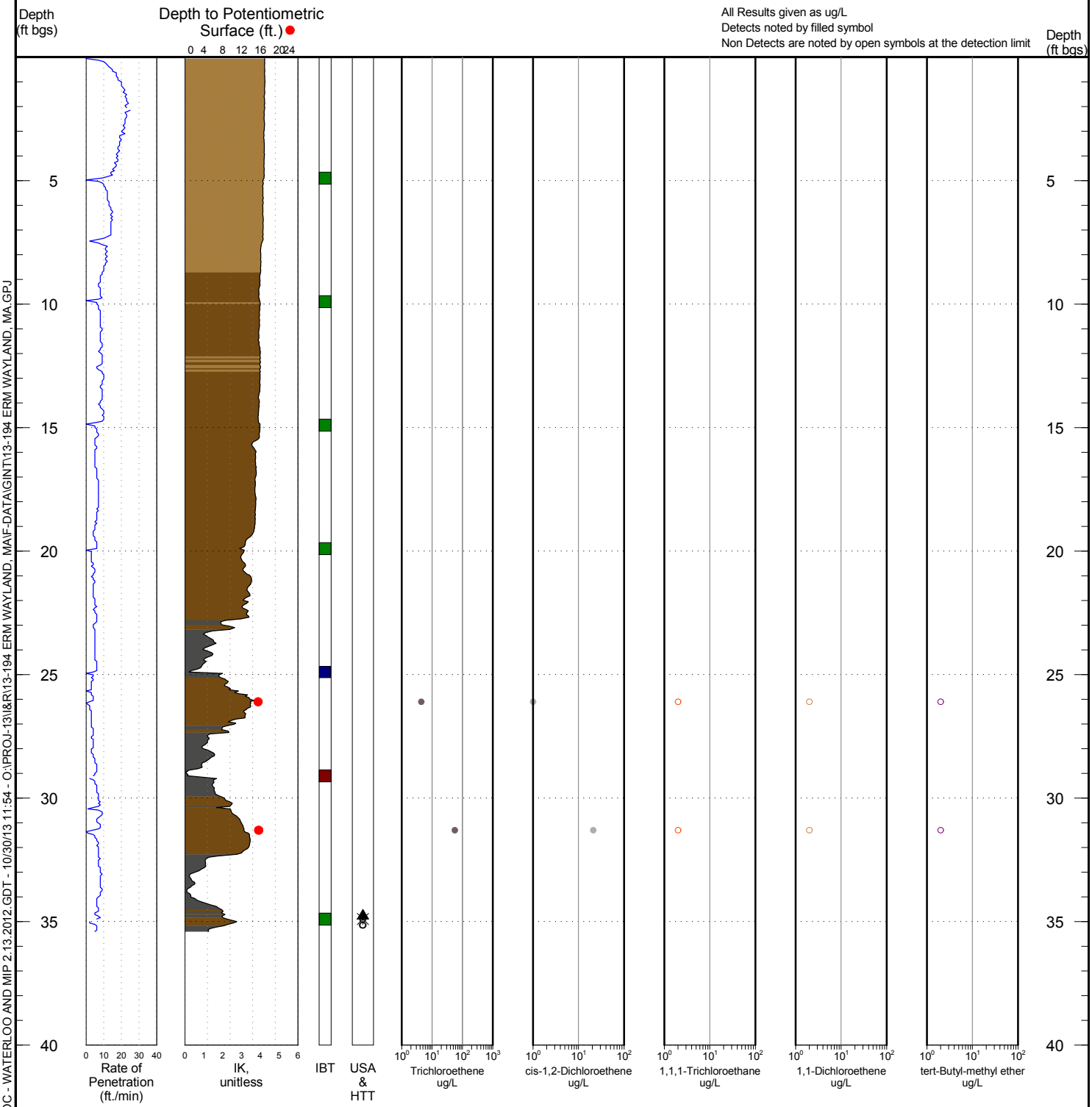
BORING NAME APS-205

Total Depth 35.40 m.

MobiLab™
DEFENSIBLE REAL-TIME ANALYTICS

Project Name ERM Wayland, MA
Client ERM
Stone Project Number 13-194
Project Location Wayland, MA

Date Completed 10/16/2013
Sampler(s) JAB
Drilling Contractor Platform
Gas Drive or Peri Pump Peri Pump



IK Scale

0 to 0.1	
0.1 to 2	
2 to 4	
4 to 6	
>6	

Legend

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- ▲ = Yield deemed too slow
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HTT = Hole Termination Type
- 7 = Broken downhole equipment
- 8 = Reached Target Depth
- 9 = ROP dropped below threshold
- 10 = Sudden Hard Refusal

WATERLOO APS & VOC - WATERLOO AND MIP 2.13.2012.GDT - 10/30/13 11:54 - O:\PROJ-13\I&R\13-194 ERM WAYLAND, MA\F-DATA\GINT\13-194 ERM WAYLAND, MA.GPJ

BORING NAME APS-206

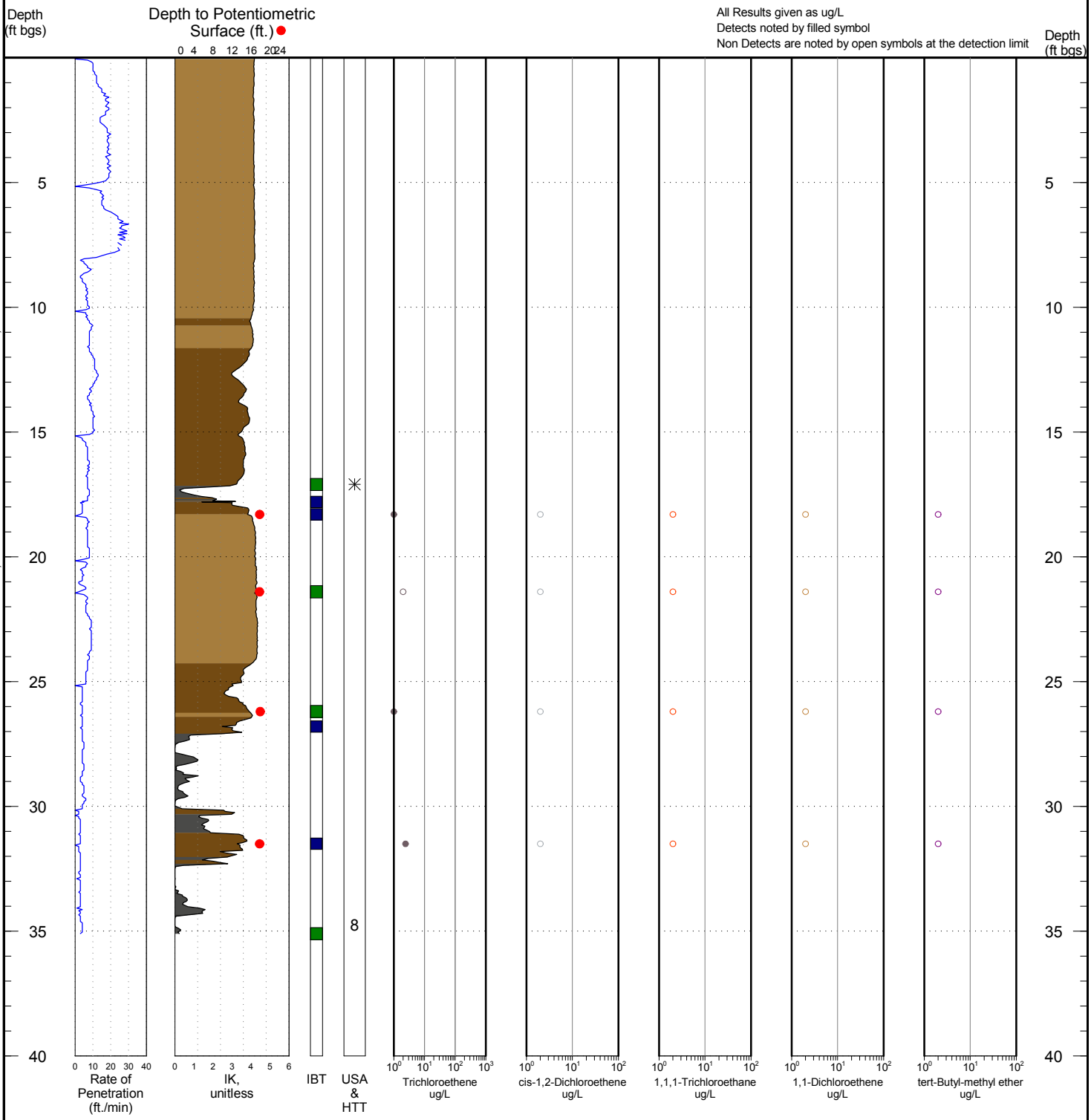
Total Depth 35.10 m.

MobiLab™
DEFENSIBLE REAL-TIME ANALYTICS

Project Name ERM Wayland, MA
Client ERM
Stone Project Number 13-194
Project Location Wayland, MA

Date Completed 10/16/2013
Sampler(s) TWM
Drilling Contractor Platform
Gas Drive or Peri Pump Peri Pump

All Results given as ug/L
Detects noted by filled symbol
Non Detects are noted by open symbols at the detection limit



IK Scale

0 to 0.1	
0.1 to 2	
2 to 4	
4 to 6	
>6	

Legend

IBT = IK Behavior Type
- = IK increase when hammer stops
- = IK decrease when hammer stops
- = No change when hammer stops

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- ✳ = Could not produce water
- ▲ = Yield deemed too slow
- ■ = Equipment issue

HTT = Hole Termination Type
- 7 = Broken downhole equipment
- 8 = Reached Target Depth
- 9 = ROP dropped below threshold
- 10 = Sudden Hard Refusal

WATERLOO APS & VOC - WATERLOO AND MIP 2.13.2012.GDT - 10/30/13 11:54 - O:\PROJ-13\I&R\13-194 ERM WAYLAND, MAIF-DATA\GINT\13-194 ERM WAYLAND, MA.GPJ

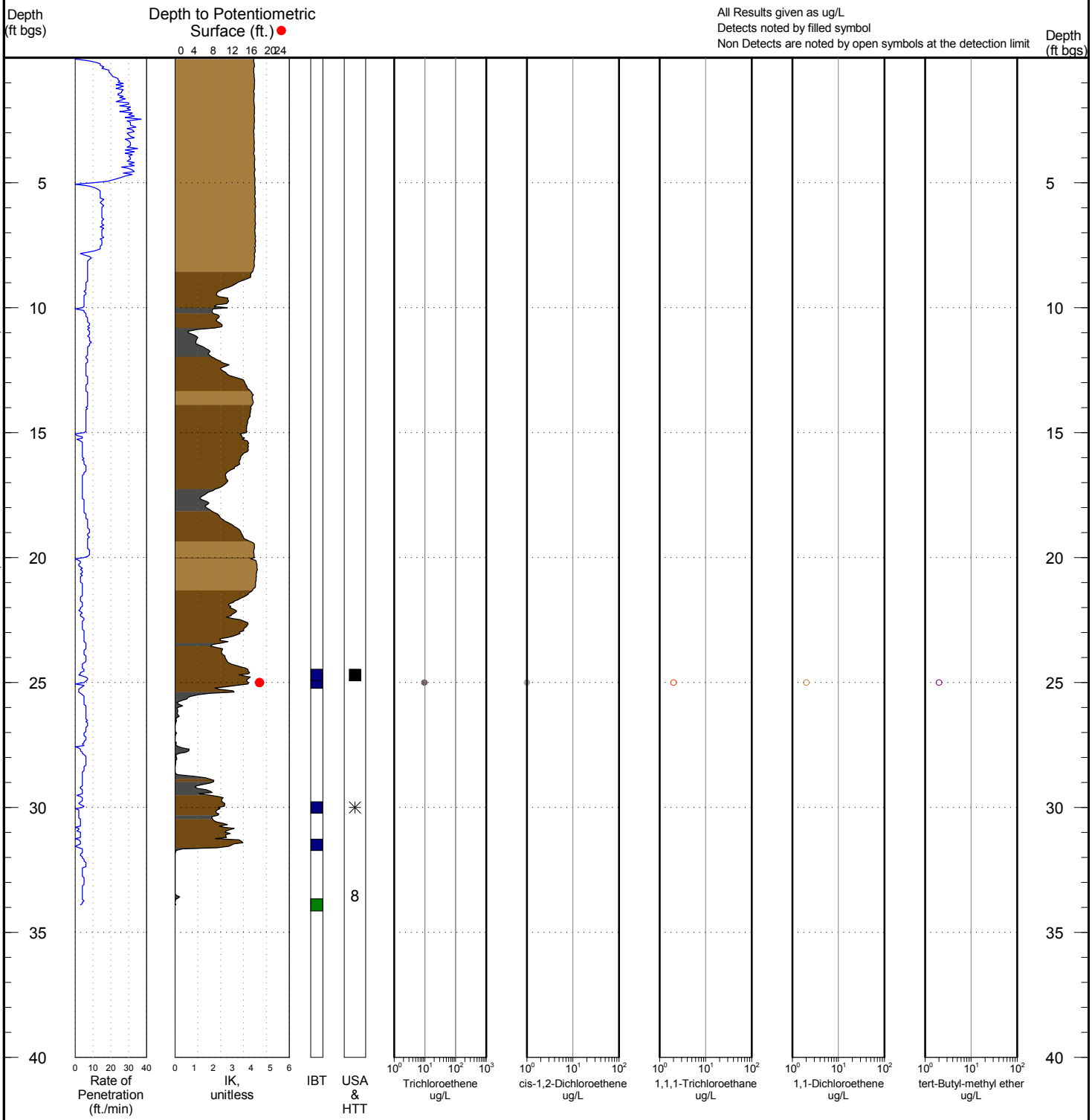
BORING NAME APS-208

Total Depth 30.00 m.

MobiLab™
DEFENSIBLE REAL-TIME ANALYTICS

Project Name ERM Wayland, MA
Client ERM
Stone Project Number 13-194
Project Location Wayland, MA

Date Completed 10/17/2013
Sampler(s) TWM
Drilling Contractor Platform
Gas Drive or Peri Pump Peri Pump



IK Scale

0 to 0.1	
0.1 to 2	
2 to 4	
4 to 6	
>6	

Legend

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- 8 = Reached Target Depth
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- 10 = Sudden Hard Refusal

WATERLOO APS & VOC - WATERLOO AND MIP 2.13.2012.GDT - 10/30/13 11:54 - O:\PROJ-13\I&R\13-194 ERM WAYLAND, MA\F-DATA\GINT\13-194 ERM WAYLAND, MA.GPJ

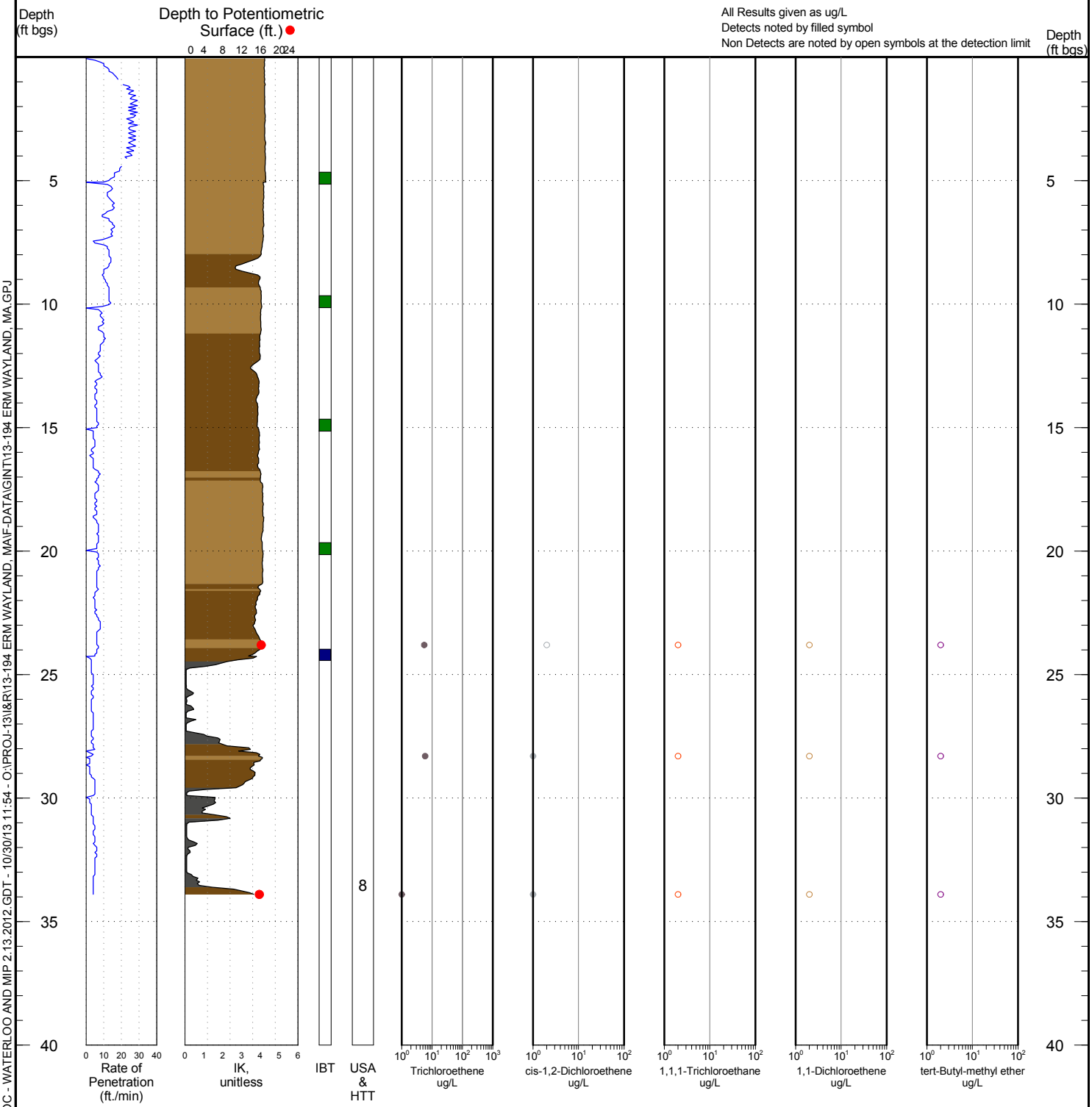
BORING NAME APS-209

Total Depth 33.90 m.

MobiLab™
DEFENSIBLE REAL-TIME ANALYTICS

Project Name ERM Wayland, MA
Client ERM
Stone Project Number 13-194
Project Location Wayland, MA

Date Completed 10/17/2013
Sampler(s) JAB
Drilling Contractor Platform
Gas Drive or Peri Pump Peri Pump



IK Scale

0 to 0.1	
0.1 to 2	
2 to 4	
4 to 6	
>6	

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- ▲ = Yield deemed too slow
- ■ = Equipment issue

HTT = Hole Termination Type
- 7 = Broken downhole equipment
- 8 = Reached Target Depth
- 9 = ROP dropped below threshold
- 10 = Sudden Hard Refusal

WATERLOO APS & VOC - WATERLOO AND MIP 2.13.2012.GDT - 10/30/13 11:54 - O:\PROJ-13\I&R\13-194 ERM WAYLAND, MA\F-DATA\GINT\13-194 ERM WAYLAND, MA.GPJ

BORING NAME APS-211

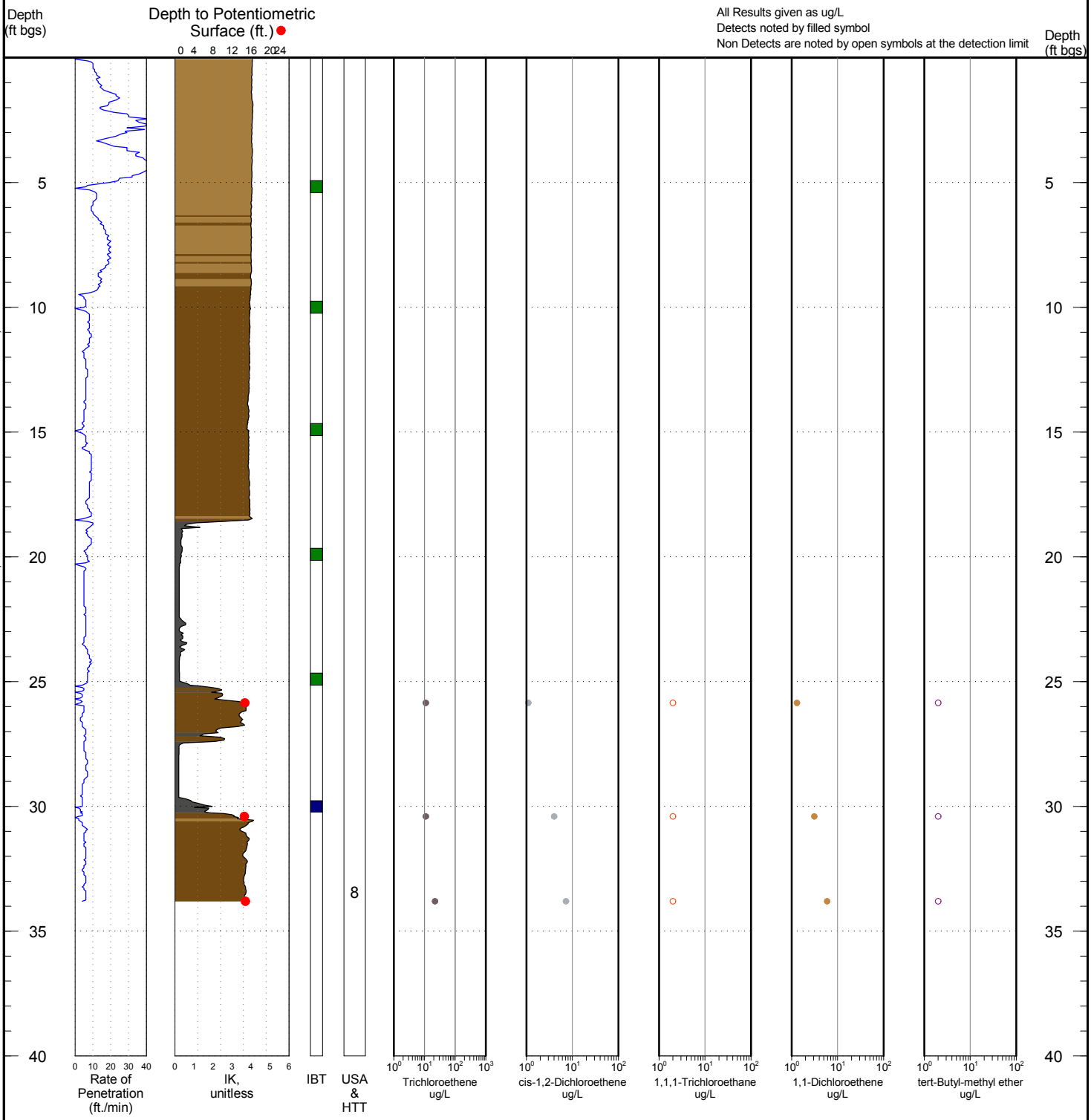
Total Depth 33.80 m.

MobiLab™
DEFENSIBLE REAL-TIME ANALYTICS

Project Name ERM Wayland, MA
Client ERM
Stone Project Number 13-194
Project Location Wayland, MA

Date Completed 10/17/2013
Sampler(s) JAB
Drilling Contractor Platform
Gas Drive or Peri Pump Peri Pump

All Results given as ug/L
Detects noted by filled symbol
Non Detects are noted by open symbols at the detection limit



IK Scale

0 to 0.1	
0.1 to 2	
2 to 4	
4 to 6	
>6	

Legend

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- 7 = Broken downhole equipment
- 8 = Reached Target Depth
- 9 = ROP dropped below threshold
- 10 = Sudden Hard Refusal

WATERLOO APS & VOC - WATERLOO AND MIP 2.13.2012.GDT - 10/30/13 11:55 - O:\PROJ-13\I&R\13-194 ERM WAYLAND, MA\F-DATA\GINT\13-194 ERM WAYLAND, MA.GPJ

BORING NAME APS-213

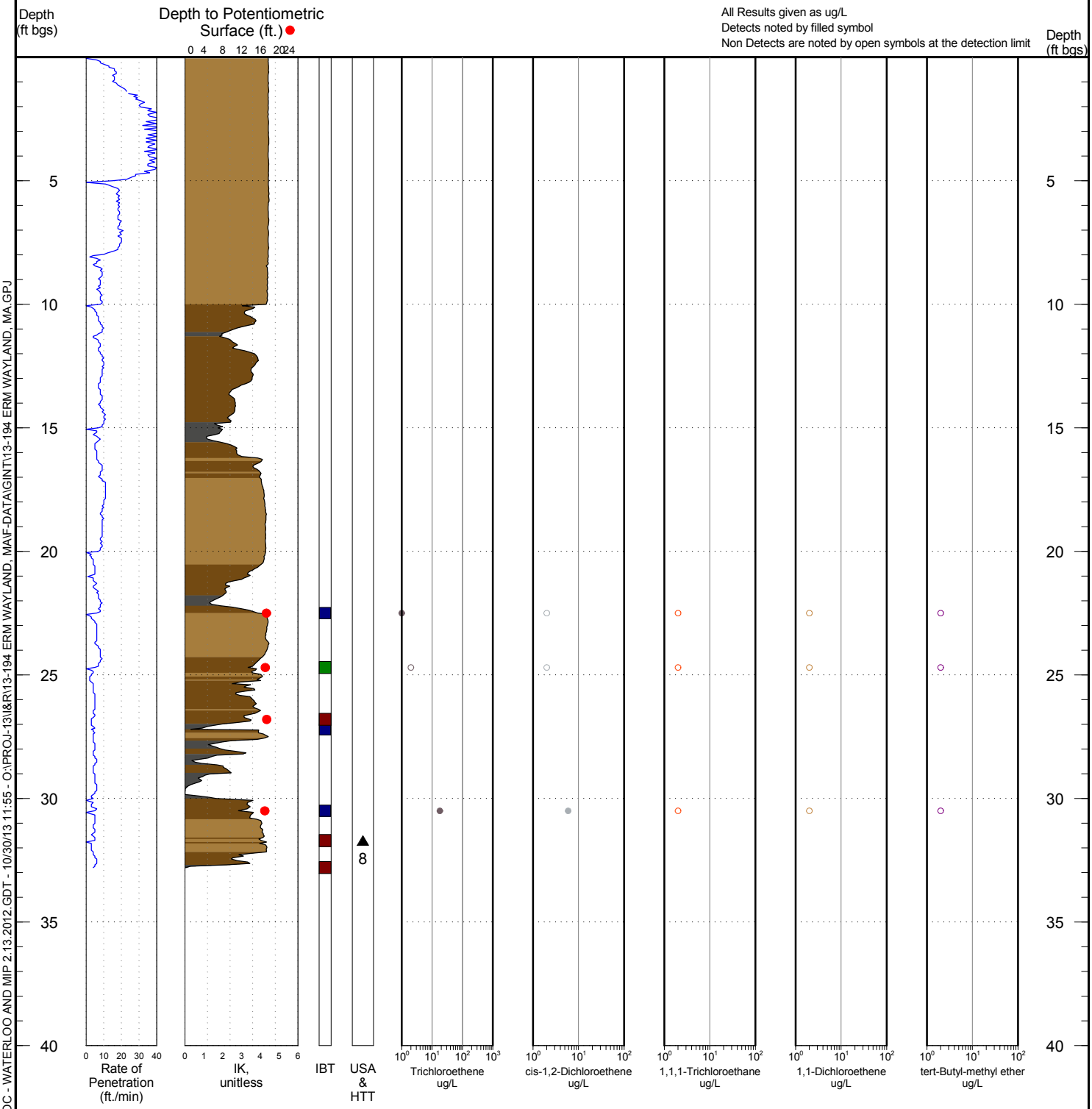
Total Depth 32.80 m.

MobiLab™
DEFENSIBLE REAL-TIME ANALYTICS

Project Name ERM Wayland, MA
Client ERM
Stone Project Number 13-194
Project Location Wayland, MA

Date Completed 10/18/2013
Sampler(s) TWM
Drilling Contractor Platform
Gas Drive or Peri Pump Peri Pump

All Results given as ug/L
Detects noted by filled symbol
Non Detects are noted by open symbols at the detection limit



IK Scale

0 to 0.1	
0.1 to 2	
2 to 4	
4 to 6	
>6	

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HTT = Hole Termination Type
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- 8 = Reached Target Depth
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- 10 = Sudden Hard Refusal

WATERLOO APS & VOC - WATERLOO AND MIP 2.13.2012.GDT - 10/30/13 11:55 - O:\PROJ-13\I&R\13-194 ERM WAYLAND, MA\F-DATA\GINT\13-194 ERM WAYLAND, MA.GPJ

BORING NAME APS-214

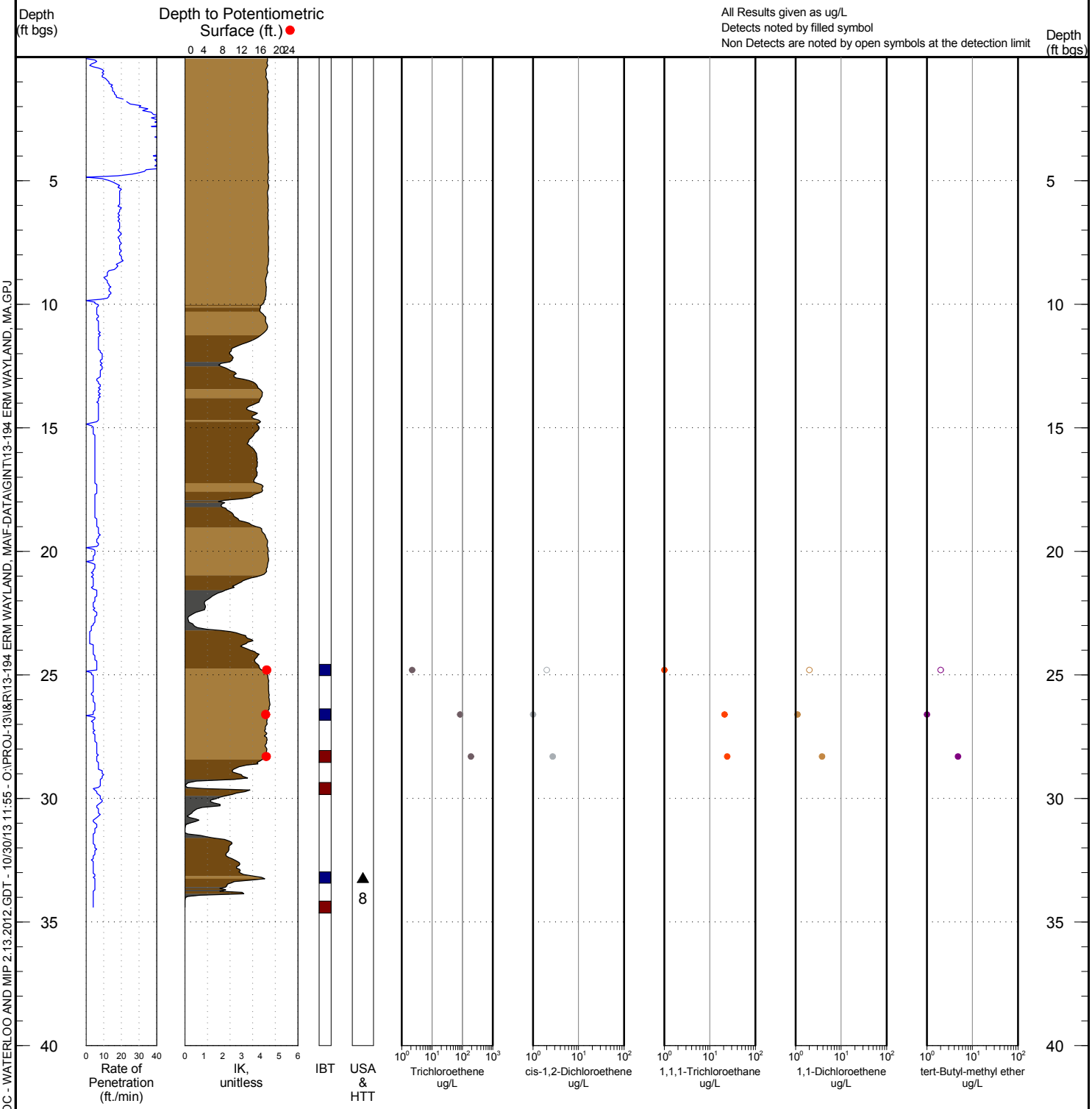
Total Depth 33.20 m.

MobiLab™
DEFENSIBLE REAL-TIME ANALYTICS

Project Name ERM Wayland, MA
Client ERM
Stone Project Number 13-194
Project Location Wayland, MA

Date Completed 10/18/2013
Sampler(s) TWM
Drilling Contractor Platform
Gas Drive or Peri Pump Peri Pump

All Results given as ug/L
Detects noted by filled symbol
Non Detects are noted by open symbols at the detection limit



IK Scale

0 to 0.1	
0.1 to 2	
2 to 4	
4 to 6	
>6	

Legend

IBT = IK Behavior Type
- = IK increase when hammer stops
- = IK decrease when hammer stops
- = No change when hammer stops

USA = Unsuccessful Sample Attempt
- ✳ = Could not produce water
- ▲ = Yield deemed too slow
- ■ = Equipment issue

HTT = Hole Termination Type
- 7 = Broken downhole equipment
- 8 = Reached Target Depth
- 9 = ROP dropped below threshold
- 10 = Sudden Hard Refusal

WATERLOO APS & VOC - WATERLOO AND MIP 2.13.2012.GDT - 10/30/13 11:55 - O:\PROJ-13\I&R\13-194 ERM WAYLAND, MA\F-DATA\GINT\13-194 ERM WAYLAND, MA.GPJ

BORING NAME APS-215

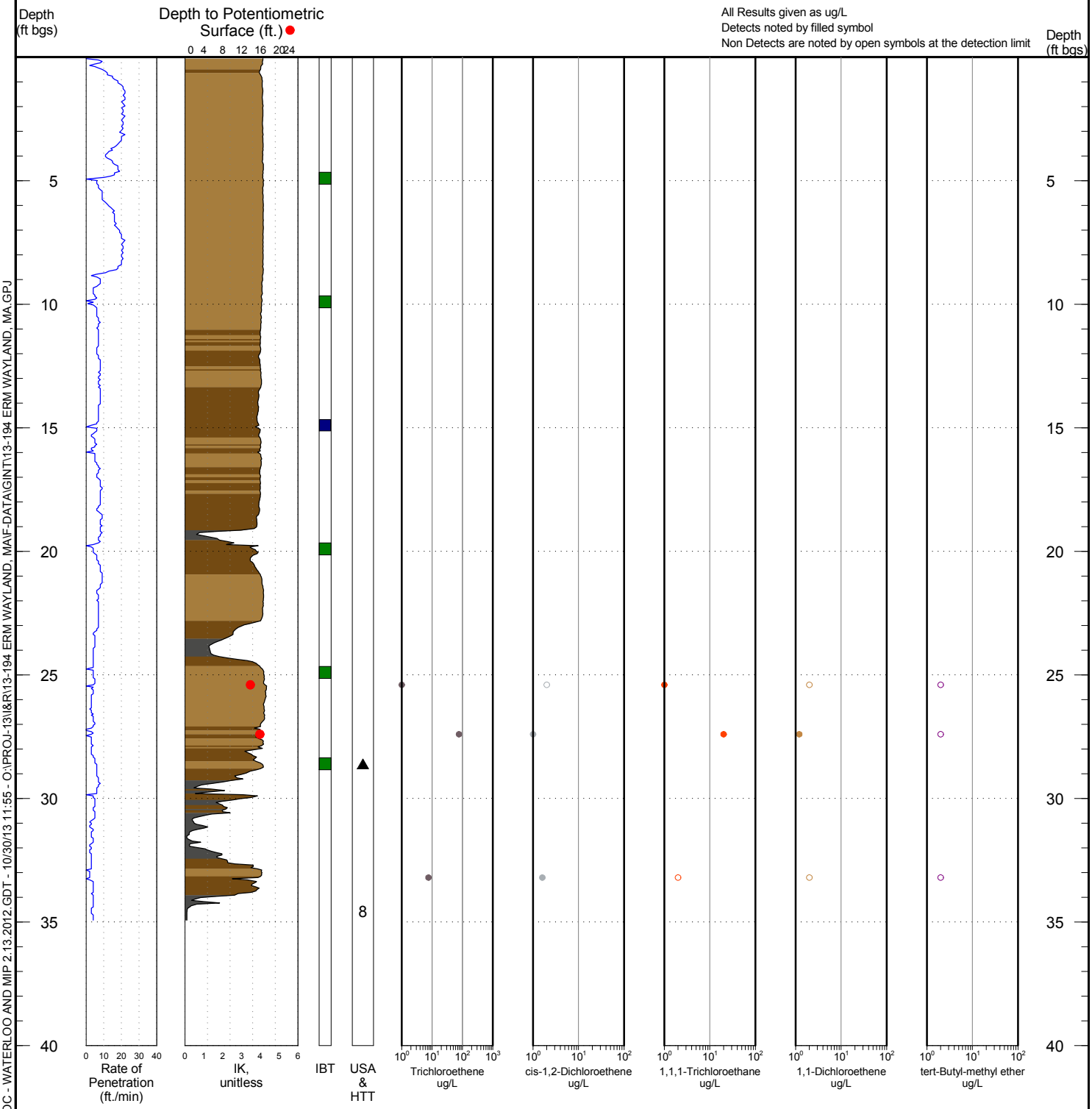
Total Depth 34.92 m.

MobiLab™
DEFENSIBLE REAL-TIME ANALYTICS

Project Name ERM Wayland, MA
Client ERM
Stone Project Number 13-194
Project Location Wayland, MA

Date Completed 10/18/2013
Sampler(s) JAB
Drilling Contractor Platform
Gas Drive or Peri Pump Peri Pump

All Results given as ug/L
Detects noted by filled symbol
Non Detects are noted by open symbols at the detection limit



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WATERLOO APS & VOC - WATERLOO AND MIP 2.13.2012.GDT - 10/30/13 11:55 - O:\PROJ-13\I&R\13-194 ERM WAYLAND, MA\F-DATA\GINT\13-194 ERM WAYLAND, MA.GPJ

BORING NAME APS-216

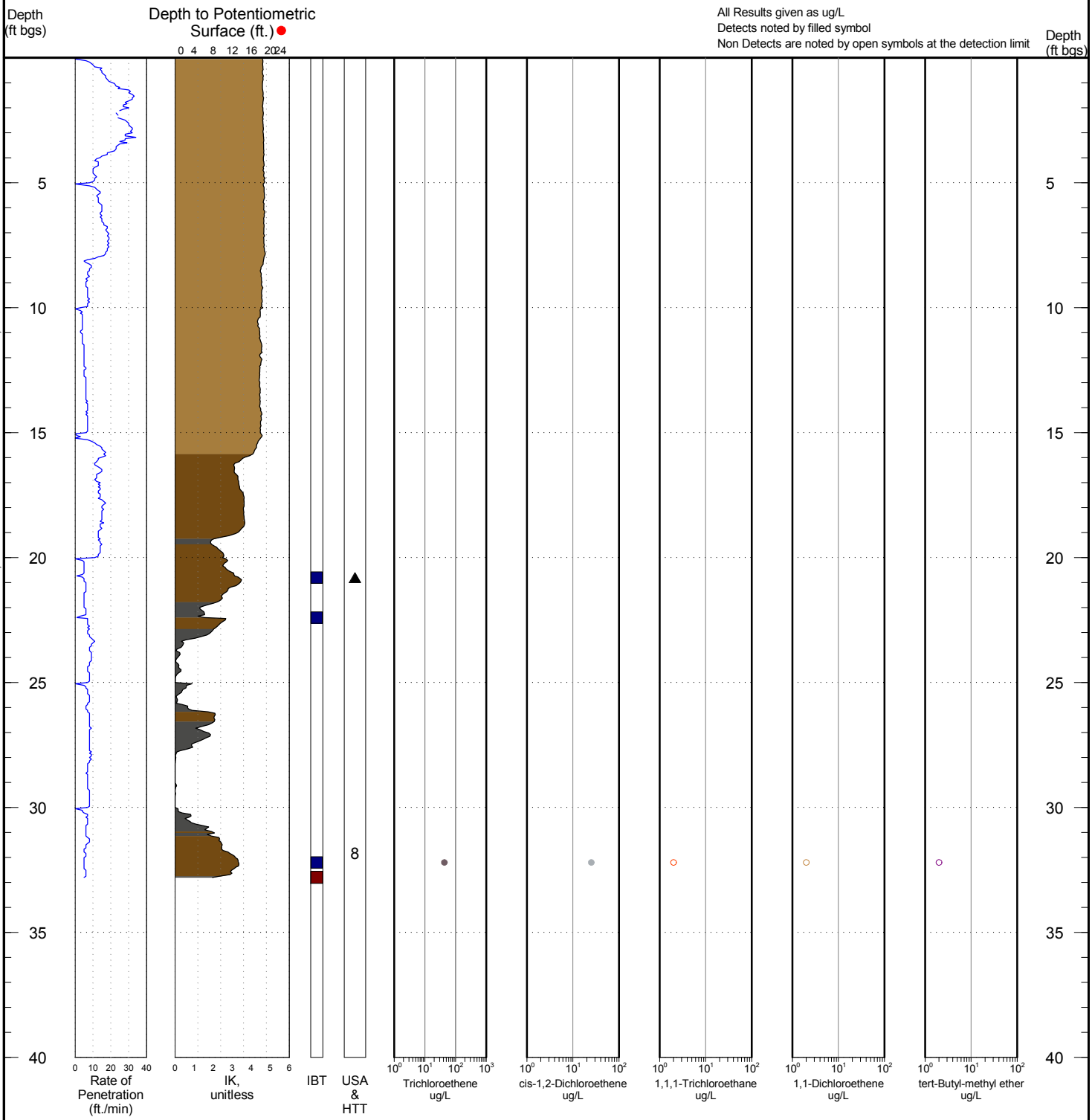
Total Depth 32.20 m.

MobiLab™
DEFENSIBLE REAL-TIME ANALYTICS

Project Name ERM Wayland, MA
Client ERM
Stone Project Number 13-194
Project Location Wayland, MA

Date Completed 10/18/2013
Sampler(s) TWM
Drilling Contractor Platform
Gas Drive or Peri Pump Peri Pump

All Results given as ug/L
Detects noted by filled symbol
Non Detects are noted by open symbols at the detection limit



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WATERLOO APS & VOC - WATERLOO AND MIP 2.13.2012.GDT - 10/30/13 11:56 - O:\PROJ-13\I&R\13-194 ERM WAYLAND, MA\F-DATA\GINT\13-194 ERM WAYLAND, MA.GPJ

Appendix E
BWSC Transmittal Forms
(Submitted Concurrently)

Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC108

Release Tracking Number

3 - 13302

COMPREHENSIVE RESPONSE ACTION TRANSMITTAL FORM & PHASE I COMPLETION STATEMENT

Pursuant to 310 CMR 40.0484 (Subpart D) and 40.0800 (Subpart H)

A. SITE LOCATION:

1. Site Name: **RAYTHEON COMPANY**

2. Street Address: **430 BOSTON POST RD**

3. City/Town: **WAYLAND** 4. ZIP Code: **01778-0000**

☑ 5. Check here if a Tier Classification Submittal has been provided to DEP for this disposal site.

☐ a. Tier IA ☑ b. Tier IB ☐ c. Tier IC ☐ d. Tier II

6. If applicable, provide the Permit Number: **133939 & WO45278**

B. THIS FORM IS BEING USED (check all that apply)

☐ 1. Submit a **Phase I Completion Statement**, pursuant to 310 CMR 40.0484.

☐ 2. Submit a **Revised Phase I Completion Statement**, pursuant to 310 CMR 40.0484.

☐ 3. Submit a **Phase II Scope of Work**, pursuant to 310 CMR 40.0834.

☐ 4. Submit an **interim Phase II Report**. This report does not satisfy the response action deadline requirements in 310 CMR 40.0500.

☐ 5. Submit a **final Phase II Report and Completion Statement**, pursuant to 310 CMR 40.0836.

☐ 6. Submit a **Revised Phase II Report and Completion Statement**, pursuant to 310 CMR 40.0836.

☐ 7. Submit a **Phase III Remedial Action Plan and Completion Statement**, pursuant to 310 CMR 40.0862.

☐ 8. Submit a **Revised Phase III Remedial Action Plan and Completion Statement**, pursuant to 310 CMR 40.0862.

☐ 9. Submit a **Phase IV Remedy Implementation Plan**, pursuant to 310 CMR 40.0874.

☐ 10. Submit a **Modified Phase IV Remedy Implementation Plan**, pursuant to 310 CMR 40.0874.

☐ 11. Submit an **As-Built Construction Report**, pursuant to 310 CMR 40.0875.

☐ 12. Submit a **Phase IV Status Report**, pursuant to 310 CMR 40.0877.

☐ 13. Submit a **Phase IV Completion Statement**, pursuant to 310 CMR 40.0878 and 40.0879.

Specify the outcome of Phase IV activities: (check one)

☐ a. Phase V Operation, Maintenance or Monitoring of the Comprehensive Remedial Action is necessary to achieve a Response Action Outcome.

☐ b. The requirements of a Class A Response Action Outcome have been met. No additional Operation, Maintenance or Monitoring is necessary to ensure the integrity of the Response Action Outcome. A completed Response Action Outcome Statement and Report (BWSC104) will be submitted to DEP.

☐ c. The requirements of a Class C Response Action Outcome have been met. No additional Operation, Maintenance or Monitoring is necessary to ensure the integrity of the Response Action Outcome. A completed Response Action Outcome Statement and Report (BWSC104) has been or will be submitted to DEP.

☐ d. The requirements of a Class C Response Action Outcome have been met. Further Operation, Maintenance or Monitoring of the remedial action is necessary to ensure that conditions are maintained and that further progress is made toward a Permanent Solution. A completed Response Action Outcome Statement and Report (BWSC104) has been or will be submitted to DEP.

B. THIS FORM IS BEING USED TO (cont.):(check all that apply)

☐ 14. Submit a **Revised Phase IV Completion Statement**, pursuant to 310 CMR 40.0878 and 40.0879.

☐ 15. Submit a **Phase V Status Report**, pursuant to 310 CMR 40.0892.

☑ 16. Submit a **Remedial Monitoring Report**. (This report can only be submitted through eDEP.)

a. Type of Report: (check one) ☐ i. Initial Report ☑ ii. Interim Report ☐ iii. Final Report

b. Frequency of Submittal: (check all that apply)

☐ i. A Remedial Monitoring Report(s) submitted monthly to address an Imminent Hazard.

☐ ii. A Remedial Monitoring Report(s) submitted monthly to address a Condition of Substantial Release Migration.

☑ iii. A Remedial Monitoring Report(s) submitted concurrent with a Status Report.

c. Status of Site: (check one) ☐ i. Phase IV ☐ ii. Phase V ☑ iii. Remedy Operation Status ☐ iv. Class C RAO

d. Number of Remedial Systems and/or Monitoring Programs: 2

A separate BWSC108A, CRA Remedial Monitoring Report, must be filled out for each Remedial System and/or Monitoring Program addressed by this transmittal form.

☐ 17. Submit a **Remedy Operation Status**, pursuant to 310 CMR 40.0893.

☑ 18. Submit a **Status Report to maintain a Remedy Operation Status**, pursuant to 310 CMR 40.0893(2).

☐ 19. Submit a **Transfer and/or a Modification of Persons Maintaining a Remedy Operation Status (ROS)** , pursuant to 310 CMR 40.0893(5) (check one, or both, if applicable).

☐ a. Submit a Transfer of Persons Maintaining an ROS (the transferee should be the person listed in Section D, "Person Undertaking Response Actions").

☐ b. Submit a Modification of Persons Maintaining an ROS (the primary representative should be the person listed in Section D, "Person Undertaking Response Actions").

c. Number of Persons Maintaining an ROS not including the primary representative: _____

☐ 20. Submit a **Termination of a Remedy Operation Status**, pursuant to 310 CMR 40.0893(6).(check one)

☐ a. Submit a notice indicating ROS performance standards have not been met. A plan and timetable pursuant to 310 CMR 40.0893(6)(b) for resuming the ROS are attached.

☐ b. Submit a notice of Termination of ROS.

☐ 21. Submit a **Phase V Completion Statement**, pursuant to 310 CMR 40.0894.

Specify the outcome of Phase V activities: (check one)

☐ a. The requirements of a Class A Response Action Outcome have been met. No additional Operation, Maintenance or Monitoring is necessary to ensure the integrity of the Response Action Outcome. A completed Response Action Outcome Statement (BWSC104) will be submitted to DEP.

☐ b. The requirements of a Class C Response Action Outcome have been met. No additional Operation, Maintenance or Monitoring is necessary to ensure the integrity of the Response Action Outcome. A completed Response Action Outcome Statement and Report (BWSC104) will be submitted to DEP.

☐ c. The requirements of a Class C Response Action Outcome have been met. Further Operation, Maintenance or Monitoring of the remedial action is necessary to ensure that conditions are maintained and/or that further progress is made toward a Permanent Solution. A completed Response Action Outcome Statement and Report (BWSC104) will be submitted to DEP.

☐ 22. Submit a **Revised Phase V Completion Statement**, pursuant to 310 CMR 40.0894.

☐ 23. Submit a **Post-Class C Response Action Outcome Status Report**, pursuant to 310 CMR 40.0898.

Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC108

COMPREHENSIVE RESPONSE ACTION TRANSMITTAL FORM & PHASE I COMPLETION STATEMENT

Pursuant to 310 CMR 40.0484 (Subpart D) and 40.0800 (Subpart H)

Release Tracking Number

3 - 13302

C. LSP SIGNATURE AND STAMP:

I attest under the pains and penalties of perjury that I have personally examined and am familiar with this transmittal form, including any and all documents accompanying this submittal. In my professional opinion and judgment based upon application of (i) the standard of care in 309 CMR 4.02(1), (ii) the applicable provisions of 309 CMR 4.02(2) and (3), and 309 CMR 4.03(2), and (iii) the provisions of 309 CMR 4.03(3), to the best of my knowledge, information and belief,

> *if Section B indicates that a* ***Phase I, Phase II, Phase III, Phase IV or Phase V Completion Statement*** *and/or a* ***Termination of a Remedy Operation Status*** *is being submitted*, the response action(s) that is (are) the subject of this submittal (i) has (have) been developed and implemented in accordance with the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000, (ii) is (are) appropriate and reasonable to accomplish the purposes of such response action(s) as set forth in the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000, and (iii) comply(ies) with the identified provisions of all orders, permits, and approvals identified in this submittal;

> *if Section B indicates that a* ***Phase II Scope of Work*** *or a* ***Phase IV Remedy Implementation Plan*** *is being submitted*, the response action(s) that is (are) the subject of this submittal (i) has (have) been developed in accordance with the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000, (ii) is (are) appropriate and reasonable to accomplish the purposes of such response action(s) as set forth in the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000, and (iii) comply(ies) with the identified provisions of all orders, permits, and approvals identified in this submittal;

> *if Section B indicates that an* ***As-Built Construction Report****, a* ***Remedy Operation Status****, a* ***Phase IV, Phase V or Post-Class C RAO Status Report,*** *a* ***Status Report to Maintain a Remedy Operation Status,*** *a* ***Transfer or Modification of Persons Maintaining a Remedy Operation Status*** *and/or a* ***Remedial Monitoring Report*** *is being submitted*, the response action(s) that is (are) the subject of this submittal (i) is (are) being implemented in accordance with the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000, (ii) is (are) appropriate and reasonable to accomplish the purposes of such response action(s) as set forth in the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000, and (iii) comply(ies) with the identified provisions of all orders, permits, and approvals identified in this submittal.

I am aware that significant penalties may result, including, but not limited to, possible fines and imprisonment, if I submit information which I know to be false, inaccurate or materially incomplete.

1. LSP #: **2196**

2. First Name: **JOHN C** 3. Last Name: **DROBINSKI**

4. Telephone: **(617) 646-7800** 5. Ext.: 6. FAX: **(617) 267-6447**

7. Signature: **JOHN C DROBINSKI**

8. Date: **11/22/2013** (mm/dd/yyyy)

9. LSP Stamp:

Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC108

Release Tracking Number

3 - 13302

COMPREHENSIVE RESPONSE ACTION TRANSMITTAL FORM & PHASE I COMPLETION STATEMENT

Pursuant to 310 CMR 40.0484 (Subpart D) and 40.0800 (Subpart H)

D. PERSON UNDERTAKING RESPONSE ACTIONS:

1. Check all that apply: ☐ a. change in contact name ☐ b. change of address ☐ c. change in the person undertaking response actions

2. Name of Organization: RAYTHEON COMPANY

3. Contact First Name: LOUIS J 4. Last Name: BURKHARDT

5. Street: 880 TECHNOLOGY PARK DR MS T303 6. Title: EH&S MANAGER

7. City/Town: BILLERICA 8. State: MA 9. ZIP Code: 01821-0000

10. Telephone: (978) 436-8238 11. Ext.: 12. FAX: (978) 436-8581

E. RELATIONSHIP TO SITE OF PERSON UNDERTAKING RESPONSE ACTIONS: ☐ Check here to change relationship

☑ 1. RP or PRP ☐ a. Owner ☑ b. Operator ☐ c. Generator ☐ d. Transporter

☐ e. Other RP or PRP Specify:

☐ 2. Fiduciary, Secured Lender or Municipality with Exempt Status (as defined by M.G.L. c. 21E, s. 2)

☐ 3. Agency or Public Utility on a Right of Way (as defined by M.G.L. c. 21E, s. 5(j))

☐ 4. Any Other Person Undertaking Response Actions Specify Relationship:

F. REQUIRED ATTACHMENT AND SUBMITTALS:

☐ 1. Check here if the Response Action(s) on which this opinion is based, if any, are (were) subject to any order(s), permit(s) and/or approval(s) issued by DEP or EPA. If the box is checked, you MUST attach a statement identifying the applicable provisions thereof.

☐ 2. Check here to certify that the Chief Municipal Officer and the Local Board of Health have been notified of the submittal of any Phase Reports to DEP.

☐ 3. Check here to certify that the Chief Municipal Officer and the Local Board of Health have been notified of the availability of a Phase III Remedial Action Plan.

☐ 4. Check here to certify that the Chief Municipal Officer and the Local Board of Health have been notified of the availability of a Phase IV Remedy Implementation Plan.

☐ 5. Check here to certify that the Chief Municipal Officer and the Local Board of Health have been notified of any field work involving the implementation of a Phase IV Remedial Action.

☐ 6. If submitting a Transfer of a Remedy Operation Status (as per 310 CMR 40.0893(5)), check here to certify that a statement detailing the compliance history for the person making this submittal (transferee) is attached.

☐ 7. If submitting a Modification of a Remedy Operation Status (as per 310 CMR 40.0893(5)), check here to certify that a statement detailing the compliance history for each new person making this submittal is attached.

☐ 8. Check here if any non-updatable information provided on this form is incorrect, e.g. Site Name.
Send corrections to: BWSC.eDEP@state.ma.us.

☑ 9. Check here to certify that the LSP Opinion containing the material facts, data, and other information is attached.

Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC108

Release Tracking Number

3 - 13302

COMPREHENSIVE RESPONSE ACTION TRANSMITTAL FORM & PHASE I COMPLETION STATEMENT

Pursuant to 310 CMR 40.0484 (Subpart D) and 40.0800 (Subpart H)

G. CERTIFICATION OF PERSON UNDERTAKING RESPONSE ACTIONS:

1. I, **LOUIS J BURKHARDT**, attest under the pains and penalties of perjury (i) that I have personally examined and am familiar with the information contained in this submittal, including any and all documents accompanying this transmittal form, (ii) that, based on my inquiry of those individuals immediately responsible for obtaining the information, the material information contained in this submittal is, to the best of my knowledge and belief, true, accurate and complete, and (iii) that I am fully authorized to make this attestation on behalf of the entity legally responsible for this submittal. I/the person or entity on whose behalf this submittal is made am/is aware that there are significant penalties, including, but not limited to, possible fines and imprisonment, for willfully submitting false, inaccurate, or incomplete information.

>*if Section B indicates that this is a* **Modification of a Remedy Operation Status (ROS)**, I attest under the pains and penalties of perjury that I am fully authorized to act on behalf of all persons performing response actions under the ROS as stated in 310 CMR 40.0893(5)(d) to receive oral and written correspondence from MassDEP with respect to performance of response actions under the ROS, and to receive a statement of fee amount as per 4.03(3).

I understand that any material received by the Primary Representative from MassDEP shall be deemed received by all the persons perform ing response actions under the ROS, and I am aware that there are significant penalties, including, but not limited to, possible fines and imprisonment, for willfully submitting false, inaccurate or incomplete information.

2. By: **LOUIS J BURKHARDT**
Signature

3. Title: **EH&S MANAGER**

4. For: **RAYTHEON COMPANY**
(Name of person or entity recorded in Section D)

5. Date: **11/22/2013**
(mm/dd/yyyy)

☐ 6. Check here if the address of the person providing certification is different from address recorded in Section D.

7. Street:

8. City/Town: 9. State: 10. ZIP Code:

11. Telephone: 12. Ext.: 13. FAX:

YOU ARE SUBJECT TO AN ANNUAL COMPLIANCE ASSURANCE FEE OF UP TO $10,000 PER BILLABLE YEAR FOR THIS DISPOSAL SITE. YOU MUST LEGIBLY COMPLETE ALL RELEVANT SECTIONS OF THIS FORM OR DEP MAY RETURN THE DOCUMENT AS INCOMPLETE. IF YOU SUBMIT AN INCOMPLETE FORM, YOU MAY BE PENALIZED FOR MISSING A REQUIRED DEADLINE.

Date Stamp (DEP USE ONLY:)

Received by DEP on

11/22/2013 3:02:06 PM

Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC108A

CRA REMEDIAL MONITORING REPORT

Pursuant to 310 CMR 40.0800 (SUBPART H)

Remedial System or Monitoring Program: 1 of: 2

Release Tracking Number
3 - 13302

A. DESCRIPTION OF ACTIVE REMEDIAL SYSTEM OR ACTIVE REMEDIAL MONITORING PROGRAM:

1. Type of Active Remedial System or Active Remedial Monitoring Program: (check all that apply)

- [x] a. Active Remedial System: (check all that apply)
  - [ ] i. NAPL Recovery
  - [ ] ii. Soil Vapor Extraction/Bioventing
  - [ ] iii. Vapor-phase Carbon Adsorption
  - [x] iv. Groundwater Recovery
  - [ ] v. Dual/Multi-phase Extraction
  - [ ] vi. Aqueous-phase Carbon Adsorption
  - [ ] vii. Air Stripping
  - [ ] viii. Sparging/Biosparging
  - [ ] ix. Cat/Thermal Oxidation
  - [ ] x. Other Describe:
- [x] b. Application of Remedial Additives: (check all that apply)
  - [ ] i. To the Subsurface
  - [x] ii. To Groundwater (Injection)
  - [ ] iii. To the Surface
- [ ] c. Active Remedial Monitoring Program Without the Application of Remedial Additives: (check all that apply; Sections C, D and E are not required; attach supporting information, data, maps and/or sketches needed by checking Section F5)
  - [ ] i. Reactive Wall
  - [ ] ii. Natural Attenuation
  - [ ] iii. Other Describe:

2. Mode of Operation: (check one)

- [x] a. Continuous
- [ ] b. Intermittent
- [ ] c. Pulsed
- [ ] d. One-time Event Only
- [ ] e. Other:

3. System Effluent/Discharge: (check all that apply)

- [ ] a. Sanitary Sewer/POTW
- [x] b. Groundwater Re-infiltration/Re-injection: (check one)
  - [ ] i. Downgradient
  - [x] ii. Upgradient
- [ ] c. Vapor-phase Discharge to Ambient Air: (check one)
  - [ ] i. Off-gas Controls
  - [ ] ii. No Off-gas Controls
- [ ] d. Drinking Water Supply
- [ ] e. Surface Water (including Storm Drains)
- [ ] f. Other Describe:

B. MONITORING FREQUENCY:

1. Reporting period that is the subject of this submittal: From: 05/01/2013 (mm/dd/yyyy) To: 10/21/2013 (mm/dd/yyyy)

2. Number of monitoring events during the reporting period: (check one)

- [ ] a. System Startup: (if applicable)
  - [ ] i. Days 1, 3, 6, and then weekly thereafter, for the first month.
  - [ ] ii. Other Describe:
- [x] b. Post-system Startup (after first month) or Monitoring Program:
  - [ ] i. Monthly
  - [x] ii. Quarterly
  - [ ] iii. Other Describe:

- [x] 3. Check here to certify that the number of required monitoring events were conducted during the reporting period.

C. EFFLUENT/DISCHARGE REGULATION: (check one to indicate how the effluent/discharge limits were established)

- [ ] 1. NPDES: (check one)
  - [ ] a. Remediation General Permit
  - [ ] b. Individual Permit
  - [ ] c. Emergency Exclusion

  Effective Date of Permit: (mm/dd/yyyy)
- [x] 2. MCP Performance Standard MCP Citations(s): 310 CMR 40.0045(4)
- [ ] 3. DEP Approval Letter Date of Letter: (mm/dd/yyyy)
- [ ] 4. Other Describe:

Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC108A

CRA REMEDIAL MONITORING REPORT

Pursuant to 310 CMR 40.0800 (SUBPART H)

Remedial System or Monitoring Program: 1 of: 2

Release Tracking Number

3 - 13302

D. WASTEWATER TREATMENT PLANT OPERATOR: (check one)

☐ 1. Required due to Remedial Wastewater Treatment Plant in place for more than 30 days.

a. Name: _____ b. Grade: _____

c. License No.: _____ d. License Exp. Date: _____ (mm/dd/yyyy)

☐ 2. Not Required

☑ 3. Not Applicable

E. STATUS OF ACTIVE REMEDIAL SYSTEM OR ACTIVE REMEDIAL MONITORING PROGRAM DURING REPORTING PERIOD: (check all that apply)

☑ 1. The Active Remedial System was functional one or more days during the Reporting Period.

a. Days System was Fully Functional: 183 b. GW Recovered (gals): 2,044,443.00

c. NAPL Recovered (gals): _____ d. GW Discharged (gals): 2,044,443.00

e. Avg. Soil Gas Recovery Rate (scfm): _____ f. Avg. Sparging Rate (scfm) : _____

☑ 2. Remedial Additives: (check all that apply)

☐ a. No Remedial Additives applied during the Reporting Period.

☑ b. Enhanced Bioremediation Additives applied: (total quantity applied at the site for the current reporting period)

☐ i. Nitrogen/Phosphorus:

Name of Additive	Date	Quantity	Units

☐ ii. Peroxides:

Name of Additive	Date	Quantity	Units

☐ iii. Microorganisms:

Name of Additive	Date	Quantity	Units

☑ iv. Other:

Name of Additive	Date	Quantity	Units
METHANOL	04/16/2013	21,190.0	LBS
METHANOL	05/07/2013	31,785.0	LBS
METHANOL	06/24/2013	21,190.0	LBS

☐ c. Chemical oxidation/reduction additives applied: (total quantity applied at the site for the current reporting period)

☐ i. Permanganates:

Name of Additive	Date	Quantity	Units

☐ ii. Peroxides:

Name of Additive	Date	Quantity	Units

☐ iii. Persulfates:

Name of Additive	Date	Quantity	Units

☐ iv. Other:

Name of Additive	Date	Quantity	Units

Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC108A

CRA REMEDIAL MONITORING REPORT

Pursuant to 310 CMR 40.0800 (SUBPART H)

Remedial System or Monitoring Program: 1 of: 2

Release Tracking Number

3 - 13302

E. STATUS OF ACTIVE REMEDIAL SYSTEM OR ACTIVE REMEDIAL MONITORING PROGRAM DURING REPORTING PERIOD: (cont.) (check all that apply)

☑ d. Other additives applied: (total quantity applied at the site for the current reporting period)

Name of Additive	Date	Quantity	Units
METHANOL	07/23/2013	10,595.0	lbs
METHANOL	09/10/2013	31,785.0	lbs
METHANOL	10/03/2013	21,190.0	lbs

Name of Additive	Date	Quantity	Units

☐ e. Check here if any additional Remedial Additives were applied. Attach list of additional additives and include Name of Additive, Date Applied, Quantity Applied and Units (in gals. or lbs.)

F. SHUTDOWNS OF ACTIVE REMEDIAL SYSTEM OR ACTIVE REMEDIAL MONITORING PROGRAM: (check all that apply)

☑ 1. The Active Remedial System had unscheduled shutdowns on one or more occasions during the Reporting Period.

a. Number of Unscheduled Shutdowns: 1 b. Total Number of Days of Unscheduled Shutdowns: 21

c. Reason(s) for Unscheduled Shutdowns: SOLAR BATTERY DEPLETION DUE TO LACK OF SUNLIGHT

☐ 2. The Active Remedial System had scheduled shutdowns on one or more occasions during the Reporting Period.

a. Number of Scheduled Shutdowns: b. Total Number of Days of Scheduled Shutdowns:

c. Reason(s) for Scheduled Shutdowns:

☐ 3. The Active Remedial System or Active Remedial Monitoring Program was permanently shutdown/discontinued during the Reporting Period.

a. Date of Final System or Monitoring Program Shutdown: (mm/dd/yyyy)

☐ b. No Further Effluent Discharges.

☐ c. No Further Application of Remedial Additives planned; sufficient monitoring completed to demonstrate compliance with 310 CMR 40.0046.

☐ d. No Further Submittals Planned.

☐ e. Other: Describe:

G. SUMMARY STATEMENTS: (check all that apply for the current reporting period)

☑ 1. All Active Remedial System checks and effluent analyses required by the approved plan and/or permit were performed when applicable.

☑ 2. There were no significant problems or prolonged (>25% of reporting period) unscheduled shutdowns of the Active Remedial System.

☑ 3. The Active Remedial System or Active Remedial Monitoring Program operated in conformance with the MCP, and all applicable approval conditions and/or permits.

4. Indicate any Operational Problems or Notes:

☐ 5. Check here if additional/supporting Information, data, maps, and/or sketches are attached to the form.

Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC108A

CRA REMEDIAL MONITORING REPORT

Pursuant to 310 CMR 40.0800 (SUBPART H)

Remedial System or Monitoring Program: 2 of: 2

Release Tracking Number
3 - 13302

A. DESCRIPTION OF ACTIVE REMEDIAL SYSTEM OR ACTIVE REMEDIAL MONITORING PROGRAM:

1. Type of Active Remedial System or Active Remedial Monitoring Program: (check all that apply)

- [ ] a. Active Remedial System: (check all that apply)
  - [ ] i. NAPL Recovery
  - [ ] ii. Soil Vapor Extraction/Bioventing
  - [ ] iii. Vapor-phase Carbon Adsorption
  - [ ] iv. Groundwater Recovery
  - [ ] v. Dual/Multi-phase Extraction
  - [ ] vi. Aqueous-phase Carbon Adsorption
  - [ ] vii. Air Stripping
  - [ ] viii. Sparging/Biosparging
  - [ ] ix. Cat/Thermal Oxidation
  - [ ] x. Other Describe:
- [x] b. Application of Remedial Additives: (check all that apply)
  - [ ] i. To the Subsurface
  - [x] ii. To Groundwater (Injection)
  - [ ] iii. To the Surface
- [ ] c. Active Remedial Monitoring Program Without the Application of Remedial Additives: (check all that apply; Sections C, D and E are not required; attach supporting information, data, maps and/or sketches needed by checking Section F5)
  - [ ] i. Reactive Wall
  - [ ] ii. Natural Attenuation
  - [ ] iii. Other Describe:

2. Mode of Operation: (check one)
   - [ ] a. Continuous
   - [x] b. Intermittent
   - [ ] c. Pulsed
   - [ ] d. One-time Event Only
   - [ ] e. Other:

3. System Effluent/Discharge: (check all that apply)
   - [ ] a. Sanitary Sewer/POTW
   - [ ] b. Groundwater Re-infiltration/Re-injection: (check one) [ ] i. Downgradient [ ] ii. Upgradient
   - [ ] c. Vapor-phase Discharge to Ambient Air: (check one) [ ] i. Off-gas Controls [ ] ii. No Off-gas Controls
   - [ ] d. Drinking Water Supply
   - [ ] e. Surface Water (including Storm Drains)
   - [x] f. Other Describe: NO EFFLUENT

B. MONITORING FREQUENCY:

1. Reporting period that is the subject of this submittal: From: 05/01/2013 (mm/dd/yyyy) To: 11/01/2013 (mm/dd/yyyy)

2. Number of monitoring events during the reporting period: (check one)
   - [ ] a. System Startup: (if applicable)
     - [ ] i. Days 1, 3, 6, and then weekly thereafter, for the first month.
     - [ ] ii. Other Describe:
   - [x] b. Post-system Startup (after first month) or Monitoring Program:
     - [ ] i. Monthly
     - [ ] ii. Quarterly
     - [x] iii. Other Describe: SEMI-ANNUAL

3. [x] Check here to certify that the number of required monitoring events were conducted during the reporting period.

C. EFFLUENT/DISCHARGE REGULATION: (check one to indicate how the effluent/discharge limits were established)

- [ ] 1. NPDES: (check one)
  - [ ] a. Remediation General Permit
  - [ ] b. Individual Permit
  - [ ] c. Emergency Exclusion

  Effective Date of Permit: (mm/dd/yyyy)
- [ ] 2. MCP Performance Standard MCP Citations(s):
- [ ] 3. DEP Approval Letter Date of Letter: (mm/dd/yyyy)
- [x] 4. Other Describe: NO EFFLUENT

Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC108A

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3 - 13302

D. WASTEWATER TREATMENT PLANT OPERATOR: (check one)

☐ 1. Required due to Remedial Wastewater Treatment Plant in place for more than 30 days.

a. Name: _____ b. Grade: _____

c. License No.: _____ d. License Exp. Date: _____ (mm/dd/yyyy)

☐ 2. Not Required

☑ 3. Not Applicable

E. STATUS OF ACTIVE REMEDIAL SYSTEM OR ACTIVE REMEDIAL MONITORING PROGRAM DURING REPORTING PERIOD: (check all that apply)

☐ 1. The Active Remedial System was functional one or more days during the Reporting Period.

a. Days System was Fully Functional: _____ b. GW Recovered (gals): _____

c. NAPL Recovered (gals): _____ d. GW Discharged (gals): _____

e. Avg. Soil Gas Recovery Rate (scfm): _____ f. Avg. Sparging Rate (scfm) : _____

☑ 2. Remedial Additives: (check all that apply)

☑ a. No Remedial Additives applied during the Reporting Period.

☐ b. Enhanced Bioremediation Additives applied: (total quantity applied at the site for the current reporting period)

☐ i. Nitrogen/Phosphorus:

Name of Additive	Date	Quantity	Units

☐ ii. Peroxides:

Name of Additive	Date	Quantity	Units

☐ iii. Microorganisms:

Name of Additive	Date	Quantity	Units

☐ iv. Other:

Name of Additive	Date	Quantity	Units

☐ c. Chemical oxidation/reduction additives applied: (total quantity applied at the site for the current reporting period)

☐ i. Permanganates:

Name of Additive	Date	Quantity	Units

☐ ii. Peroxides:

Name of Additive	Date	Quantity	Units

☐ iii. Persulfates:

Name of Additive	Date	Quantity	Units

☐ iv. Other:

Name of Additive	Date	Quantity	Units

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Remedial System or Monitoring Program: 2 of: 2

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E. STATUS OF ACTIVE REMEDIAL SYSTEM OR ACTIVE REMEDIAL MONITORING PROGRAM DURING REPORTING PERIOD: (cont.) (check all that apply)

☐ d. Other additives applied: (total quantity applied at the site for the current reporting period)

Name of Additive	Date	Quantity	Units

Name of Additive	Date	Quantity	Units

☐ e. Check here if any additional Remedial Additives were applied. Attach list of additional additives and include Name of Additive, Date Applied, Quantity Applied and Units (in gals. or lbs.)

F. SHUTDOWNS OF ACTIVE REMEDIAL SYSTEM OR ACTIVE REMEDIAL MONITORING PROGRAM: (check all that apply)

☐ 1. The Active Remedial System had unscheduled shutdowns on one or more occasions during the Reporting Period.

a. Number of Unscheduled Shutdowns: b. Total Number of Days of Unscheduled Shutdowns:

c. Reason(s) for Unscheduled Shutdowns:

☐ 2. The Active Remedial System had scheduled shutdowns on one or more occasions during the Reporting Period.

a. Number of Scheduled Shutdowns: b. Total Number of Days of Scheduled Shutdowns:

c. Reason(s) for Scheduled Shutdowns:

☐ 3. The Active Remedial System or Active Remedial Monitoring Program was permanently shutdown/discontinued during the Reporting Period.

a. Date of Final System or Monitoring Program Shutdown: (mm/dd/yyyy)

☐ b. No Further Effluent Discharges.

☐ c. No Further Application of Remedial Additives planned; sufficient monitoring completed to demonstrate compliance with 310 CMR 40.0046.

☐ d. No Further Submittals Planned.

☐ e. Other: Describe:

G. SUMMARY STATEMENTS: (check all that apply for the current reporting period)

☑ 1. All Active Remedial System checks and effluent analyses required by the approved plan and/or permit were performed when applicable.

☑ 2. There were no significant problems or prolonged (>25% of reporting period) unscheduled shutdowns of the Active Remedial System.

☑ 3. The Active Remedial System or Active Remedial Monitoring Program operated in conformance with the MCP, and all applicable approval conditions and/or permits.

4. Indicate any Operational Problems or Notes:

☐ 5. Check here if additional/supporting Information, data, maps, and/or sketches are attached to the form.