Environmental Resources Management

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15 May 2015
Reference: 0281979

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

Re: Remedy Operation Status Submittal
November 2014 through April 2015
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 discusses groundwater remediation and monitoring activities conducted at the Site during the reporting period from 1 November 2014 to 30 April 2015 and is intended to satisfy the requirements of the Massachusetts Contingency Plan (MCP) at 310 CMR 40.0893.

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 are 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 completed and occupied or nearly completed. 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 new monitoring well network were reported in the 15 May 2013 ROS report. In order to investigate and further characterize the groundwater along the southern property boundary, five additional monitoring wells were installed during this reporting period and will be sampled for the first time in May 2015. Details regarding the installation of the new monitoring wells are included in this report. A site plan depicting the newly installed monitoring wells in the Southern Area is included as Figure 3.

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 January and April 2015. Groundwater sampling results for the Northern Area are summarized in Appendix A.

SOUTHERN AREA MONITORING WELL INSTALLATION

In December 2014, five new monitoring wells (MW-1035, MW-1036, MW-1037, MW-1038, and MW-1039) were installed in the Southern Area of the site (Figure 3). Boring logs for the new monitoring wells are included as Appendix B.

Soil and drill cuttings generated during well installation activities were containerized in three 55-gallon drums. A representative waste characterization sample was collected from the soil and drill cuttings and sent to Alpha Analytical Laboratories for CVOCs analysis by USEPA Method 8260C. There were no detections of any compounds above the MCP Method 1 S-1/GW-1 standards. A summary of the analytical data for the investigation derived waste (IDW) is provided in Table 1. Laboratory analytical reports are provided in Appendix C.

Following installation, monitoring wells were developed in December 2014 by ERM personnel via the over pumping method described in the MassDEP guidance. Purge water generated during well development activities was containerized in six 55-gallon drums. Groundwater in this portion of the site was previously characterized during a 2013 high resolution site characterization (HRSC) investigation that is detailed in the November 2013 ROS report. CVOCs detected during the 2013 HRSC investigation were consistent with those previously identified at the Site, and concentrations are similar in magnitude to those reported during regular monitoring of the Southern Area.

Drums containing purge water and soil and drill cuttings were transported and disposed of off-Site by Clean Harbors Environmental Services, Inc. (CHES) in December 2014.

SOUTHERN AREA GROUNDWATER SAMPLING

Semi-annual groundwater sampling in the Southern Area was conducted by ERM in March and April 2015. Groundwater monitoring activities in the Southern area included:

- Collection of groundwater samples via passive diffusion bags (PDBs) and hydrasleeves for laboratory analyses; and

- Groundwater gauging.

In March and April 2015, PDBs and hydrasleeves were used to collect groundwater samples at the Site for analysis of CVOCs. PDBs are constructed of a semi-permeable membrane that allows groundwater to pass through the membrane and into the PDB, thereby allowing collection of a sample from the aquifer at equilibrium conditions. PDBs were installed in the middle of each well screen and were allowed to equilibrate with the surrounding groundwater for at least 14 days before they were sampled. Samples to be analyzed for 1,4-dioxane were collected using hydrasleeves. Hydrasleeves are a no-purge sampling method that allows for sampling discrete intervals without mixing of the water column in the well during sampling. The hydrasleeves were deployed after the PDBs were sampled and were opened two days after they were deployed in order to collect a representative grab sample from the middle of the well-screen.

Groundwater samples were analyzed for CVOCs by USEPA Method 8260C and 1,4-dioxane by USEPA Method 8260C-SIM or USEPA Method 522 by Test America, of Buffalo, NY, or South Burlington, VT. Groundwater gauging data for the March 2015 sampling event is included in Table 2, and a groundwater contour map for the Southern Area is included as Figure 4. Monitoring wells MW-1011, MW-1017D, MW-1018, MW-1020, MW-1022, MW-1028, MW-1031, MW-1032, and the newly installed monitoring wells MW-1035, MW-1036, MW-1037, MW-1038 and MW-1039 were not sampled due to unusually severe snow cover. A summary of the laboratory analytical data for the Southern Area monitoring wells is provided as Table 3. Groundwater laboratory analytical reports are provided in Appendix C.

Results of the groundwater gauging in the Southern Area indicate that groundwater is generally flowing to the west-southwest toward the Sudbury River (Figure 4) consistent with historical observations.

Groundwater monitoring results indicate that trichloroethene (TCE) and 1,4-dioxane were detected above the Massachusetts Contingency Plan (MCP) GW-1 criteria in select monitoring wells during the March 2015 Southern Area sampling event. However, concentrations in groundwater are approaching or have decreased to below the MCP GW-1 criteria in several monitoring wells over recent sampling events. TCE detections have fallen below the MCP GW-1 criteria for the first time at MW-1001M

in March 2015 and have fallen and remained below the GW-1 criteria at many other locations. Concentrations of TCE in the Southern area are expected to continue decreasing over time. There were no other exceedences of the MCP GW-1 criteria in groundwater during this sampling event. Figure 5 summarizes TCE detections in the Southern Area monitoring wells during the March 2015 sampling event.

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 CVOC concentrations in the wells through December 2011; however, Raytheon voluntarily samples these wells on an annual basis. The locations of the sentinel monitoring wells are shown on Figure 6.

In fall 2014, well SEN-1D was inaccessible due to a wasp nest; therefore, a groundwater sample was collected from well SEN-1D on 31 March 2015 using a PDB. Prior to sampling, the well was gauged to determine depth to groundwater (Table 4). The sample was submitted to Test America for analysis of CVOCs by USEPA Method 8260C. Corresponding laboratory reports are included in Appendix C. Results of the groundwater sampling indicated that all CVOCs were below the laboratory reporting limits. A summary of groundwater analytical data for SEN-1D is provided in Table 5.

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 D.

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:

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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 IDW Analytical Data - Southern Area
Former Raytheon Facility
Wayland, Massachusetts

Analyte	Location ID Sample Date Sample Type MA-S1/G1	WC-SOIL 11-Dec-14 N
Method SW8260C, µg/kg		
1,1,1-Trichloroethane	30,000	< *0.72*
4-Isopropyltoluene	NS	< *0.72*
cis-1,2-Dichloroethene	300	< *0.72*
Methyl tert-butyl ether	100	< *1.4*
Naphthalene	4,000	< *2.9*
Trichloroethene	300	5.4

Notes:
< = Compound not detected. Reportable
detection limit shown.
Empty cells = Not analyzed
NS = No Standard
N = Normal Environmental Sample
Units are in µg/kg = micrograms per kilogram
All analyses performed by Alpha Woods Hole Laboratories.

MA-S1/G1 = MCP, 310 CMR 40, Soil S-1, Groundwater GW-1.

Table 2
Summary of Groundwater Gauging Data - Southern Area
Former Raytheon Facility
Wayland, Massachusetts

Location ID	Measurement Date	Historical Reference Elevation (ft ASL)	Depth to Water (ft)	Groundwater Elevation (ft ASL)
MW-1001B	01-Oct-13	135.11	16.37	118.74
	20-Aug-14	135.11	16.11	119.00
MW-1001M	01-Oct-13	135.06	15.45	119.61
	27-Mar-14	135.06	14.90	120.16
	20-Aug-14	135.06	15.32	119.74
	17-Mar-15	135.06	14.02	121.04
MW-1002B	01-Oct-13	135.44	16.78	118.66
	27-Mar-14	135.44	15.90	119.54
MW-1003	01-Oct-13	132.53	13.11	119.42
	27-Mar-14	132.53	12.30	120.23
	20-Aug-14	132.53	12.81	119.72
	17-Mar-15	132.53	12.20	120.33
MW-1004	01-Oct-13	134.61	16.10	118.51
	27-Mar-14	134.61	14.96	119.65
	20-Aug-14	134.61	15.71	118.90
	17-Mar-15	134.61	14.63	119.98
MW-1005	01-Oct-13	134.28	15.56	118.72
	27-Mar-14	134.28	14.70	119.58
	20-Aug-14	134.28	15.25	119.03
	17-Mar-15	134.28	15.55	118.73
MW-1006	01-Oct-13	135.21	15.11	120.10
	27-Mar-14	135.21	15.48	119.73
	20-Aug-14	135.21	15.44	119.77
	17-Mar-15	135.21	15.56	119.65
MW-1008	01-Oct-13	134.84	16.38	118.46
	27-Mar-14	134.84	14.51	120.33
	20-Aug-14	134.84	16.30	118.54
	17-Mar-15	134.84	15.76	119.08
MW-1009	01-Oct-13	134.66	17.90	116.76
	27-Mar-14	134.66	16.60	118.06
	20-Aug-14	134.66	17.54	117.12
	17-Mar-15	134.66	16.41	118.25
MW-1010D	01-Oct-13	133.40	17.42	115.98
	27-Mar-14	133.40	15.90	117.50
	20-Aug-14	133.40	16.98	116.42
	17-Mar-15	133.40	16.09	117.31

Notes:
Units are in ft = feet
ASL = above mean sea level

Table 2
Summary of Groundwater Gauging Data - Southern Area
Former Raytheon Facility
Wayland, Massachusetts

Location ID	Measurement Date	Historical Reference Elevation (ft ASL)	Depth to Water (ft)	Groundwater Elevation (ft ASL)
MW-1010M	01-Oct-13	133.43	15.62	117.81
	27-Mar-14	133.43	16.00	117.43
	20-Aug-14	133.43	16.00	117.43
	17-Mar-15	133.43	15.49	117.94
MW-1011	02-Oct-13	133.18	16.56	116.62
	27-Mar-14	133.18	15.35	117.83
	20-Aug-14	133.18	16.28	116.90
MW-1013	01-Oct-13	133.26	14.63	118.63
	27-Mar-14	133.26	14.83	118.43
	20-Aug-14	133.26	14.45	118.81
	17-Mar-15	133.26	14.87	118.39
MW-1014	01-Oct-13	133.37	16.81	116.56
MW-1015D	01-Oct-13	133.61	18.24	115.37
	27-Mar-14	133.61	16.53	117.08
	20-Aug-14	133.61	17.72	115.89
	17-Mar-15	133.61	16.46	117.15
MW-1016D	01-Oct-13	133.40	18.01	115.39
	27-Mar-14	133.40	16.35	117.05
	20-Aug-14	133.40	17.50	115.90
	17-Mar-15	133.40	16.25	117.15
MW-1017D	01-Oct-13	133.15	17.71	115.44
	27-Mar-14	133.15	16.10	117.05
	20-Aug-14	133.15	17.11	116.04
MW-1018	01-Oct-13	133.55	18.36	115.19
	27-Mar-14	133.55	16.88	116.67
	20-Aug-14	133.55	17.81	115.74
MW-1019B	01-Oct-13	131.51	16.13	115.38
	27-Mar-14	131.51	14.60	116.91
	20-Aug-14	131.51	15.70	115.81
	17-Mar-15	131.51	14.91	116.60
MW-1020	01-Oct-13	132.92	18.41	114.51
	27-Mar-14	132.92	16.70	116.22
	20-Aug-14	132.92	17.98	114.94

Notes:
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Table 2
Summary of Groundwater Gauging Data - Southern Area
Former Raytheon Facility
Wayland, Massachusetts

Location ID	Measurement Date	Historical Reference Elevation (ft ASL)	Depth to Water (ft)	Groundwater Elevation (ft ASL)
MW-1022	01-Oct-13	132.22	18.36	113.86
	27-Mar-14	132.22	16.32	115.90
	20-Aug-14	132.22	17.88	114.34
MW-1023	01-Oct-13	131.76	17.92	113.84
	27-Mar-14	131.76	15.89	115.87
	20-Aug-14	131.76	17.41	114.35
	17-Mar-15	131.76	16.02	115.74
MW-1024D	01-Oct-13	130.66	15.98	114.68
	27-Mar-14	130.66	14.14	116.52
	20-Aug-14	130.66	15.36	115.30
	17-Mar-15	130.66	14.10	116.56
MW-1025D	01-Oct-13	130.92	16.10	114.82
	27-Mar-14	130.92	14.32	116.60
	20-Aug-14	130.92	15.61	115.31
	17-Mar-15	130.92	14.29	116.63
MW-1025M	01-Oct-13	130.75	16.88	113.87
	27-Mar-14	130.75	14.86	115.89
	20-Aug-14	130.75	15.35	115.40
	17-Mar-15	130.75	15.00	115.75
MW-1026D	01-Oct-13	131.55	16.54	115.01
MW-1027	01-Oct-13	126.87	13.22	113.65
	27-Mar-14	126.87	11.01	115.86
	20-Aug-14	126.87	12.71	114.16
	17-Mar-15	126.87	11.05	115.82
MW-1028	01-Oct-13	127.99	14.44	113.55
	27-Mar-14	127.99	12.25	115.74
	20-Aug-14	127.99	13.94	114.05
MW-1030	01-Oct-13	131.51	17.78	113.73
	27-Mar-14	131.51	15.63	115.88
	20-Aug-14	131.51	17.30	114.21
	17-Mar-15	131.51	15.75	115.76

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Table 2
Summary of Groundwater Gauging Data - Southern Area
Former Raytheon Facility
Wayland, Massachusetts

Location ID	Measurement Date	Historical Reference Elevation (ft ASL)	Depth to Water (ft)	Groundwater Elevation (ft ASL)
MW-1031	01-Oct-13	130.56	16.87	113.69
	27-Mar-14	130.56	14.72	115.84
	20-Aug-14	130.56	16.35	114.21
MW-1032	01-Oct-13	130.08	16.55	113.53
	27-Mar-14	130.08	14.41	115.67
	20-Aug-14	130.08	16.02	114.06
MW-1033	01-Oct-13	119.99	6.62	113.37
	27-Mar-14	119.99	4.71	115.28
	20-Aug-14	119.99	6.11	113.88
	17-Mar-15	119.99	4.38	115.61
MW-1034	01-Oct-13	123.20	9.85	113.35
	27-Mar-14	123.20	8.45	114.75
	20-Aug-14	123.20	9.35	113.85
	17-Mar-15	123.20	7.49	115.71
MW-217D	01-Oct-13	129.87	14.96	114.91
	27-Mar-14	129.87	13.19	116.68
	20-Aug-14	129.87	14.38	115.49
	17-Mar-15	129.87	13.22	116.65
MW-217M	01-Oct-13	130.21	15.61	114.60
	27-Mar-14	130.21	13.78	116.43
	20-Aug-14	130.21	15.12	115.09
	17-Mar-15	130.21	13.88	116.33
MW-217S	01-Oct-13	129.83	14.98	114.85
	27-Mar-14	129.83	13.27	116.56
	20-Aug-14	130.44	14.49	115.95
	17-Mar-15	130.44	13.44	117.00

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

Analyte	Location ID Sample Date Sample Type MA-GW-1	MW-1001B 21-Mar-13 N	MW-1001B 4-Sep-14 N
Method SW8260C, µg/L			
1,1,1-Trichloroethane	200	< 1.0	< 1.0
1,1-Dichloroethane	70	< 1.0	< 1.0
1,1-Dichloroethene	7	< 1.0	< 1.0
1,2,4-Trimethylbenzene	NS	< 1.0	< 1.0
1,2-Dichlorobenzene	600	< 1.0	< 1.0
1,3,5-Trimethylbenzene	NS	< 1.0	< 1.0
1,4-Dichlorobenzene	5	< 1.0	< 1.0
1,4-Dioxane	0.3	< 50	< 50 *
4-Isopropyltoluene	NS	< 1.0	< 1.0
Acetone	6,300	< 50	< 50
Benzene	5	< 1.0	< 1.0
Carbon disulfide	NS	< 10	< 10
Chlorobenzene	100	< 1.0	< 1.0
Chloroform	70	< 1.0	< 1.0
cis-1,2-Dichloroethene	70	< 1.0	< 1.0
Freon 11	NS	< 1.0	< 1.0
Methyl tert-butyl ether	70	< 1.0	< 1.0
Naphthalene	140	< 5.0	< 5.0
tert-Amyl Methyl Ether	NS	< 5.0	< 5.0
Tetrachloroethene	5	< 1.0	< 1.0
trans-1,2-Dichloroethene	100	< 1.0	< 1.0
Trichloroethene	5	< 1.0	< 1.0
Method EPA522, µg/L			
1,4-Dioxane	0.3		
Method SW8260B_SIM, µg/L			
1,4-Dioxane	0.3		
Method SW8260C_SIM, µg/L			
1,4-Dioxane	0.3		

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
Shaded = Analyte concentration exceeded applicable MCP criteria
* = Laboratory Control Sample or Laboratory Control Sample Duplicate exceeds the control limits.
All analyses performed by TestAmerica - Buffalo, NY and Burlington, VT.

MA-GW-1 = MCP, 310 CMR 40, Groundwater Stds Category GW-1.

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

Analyte	Location ID Sample Date Sample Type MA-GW-1	MW-1001M 21-Mar-13 N	MW-1001M 4-Sep-14 N	MW-1001M 31-Mar-15 N
Method SW8260C, µg/L				
1,1,1-Trichloroethane	200	< 1.0	< 1.0	< 1.0
1,1-Dichloroethane	70	< 1.0	< 1.0	< 1.0
1,1-Dichloroethene	7	< 1.0	< 1.0	< 1.0
1,2,4-Trimethylbenzene	NS	< 1.0	< 1.0	< 1.0
1,2-Dichlorobenzene	600	< 1.0	< 1.0	< 1.0
1,3,5-Trimethylbenzene	NS	< 1.0	< 1.0	< 1.0
1,4-Dichlorobenzene	5	< 1.0	< 1.0	< 1.0
1,4-Dioxane	0.3	< 50	< 50 *	< 50
4-Isopropyltoluene	NS	< 1.0	< 1.0	< 1.0
Acetone	6,300	< 50	< 50	< 50
Benzene	5	< 1.0	< 1.0	< 1.0
Carbon disulfide	NS	< 10	< 10	< 10
Chlorobenzene	100	< 1.0	< 1.0	< 1.0
Chloroform	70	< 1.0	< 1.0	< 1.0
cis-1,2-Dichloroethene	70	11	17	4
Freon 11	NS	< 1.0	< 1.0	< 1.0
Methyl tert-butyl ether	70	< 1.0	< 1.0	< 1.0
Naphthalene	140	< 5.0	< 5.0	< 5.0
tert-Amyl Methyl Ether	NS	< 5.0	< 5.0	< 5.0
Tetrachloroethene	5	< 1.0	< 1.0	< 1.0
trans-1,2-Dichloroethene	100	< 1.0	< 1.0	< 1.0
Trichloroethene	5	**8.2**	**6.7**	1.5
Method EPA522, µg/L				
1,4-Dioxane	0.3			
Method SW8260B_SIM, µg/L				
1,4-Dioxane	0.3			
Method SW8260C_SIM, µg/L				
1,4-Dioxane	0.3			

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
Shaded = Analyte concentration exceeded applicable MCP criteria
* = Laboratory Control Sample or Laboratory Control Sample Duplicate exceeds the control limits.
All analyses performed by TestAmerica - Buffalo, NY and Burlington, VT.

MA-GW-1 = MCP, 310 CMR 40, Groundwater Stds Category GW-1.

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

Analyte	Location ID Sample Date Sample Type MA-GW-1	MW-1002B 22-Mar-13 N	MW-1002B 10-Apr-14 N
Method SW8260C, µg/L			
1,1,1-Trichloroethane	200	*< 1.0*	*< 1.0*
1,1-Dichloroethane	70	*< 1.0*	*< 1.0*
1,1-Dichloroethene	7	*< 1.0*	*< 1.0*
1,2,4-Trimethylbenzene	NS	*< 1.0*	*< 1.0*
1,2-Dichlorobenzene	600	*< 1.0*	*< 1.0*
1,3,5-Trimethylbenzene	NS	*< 1.0*	*< 1.0*
1,4-Dichlorobenzene	5	*< 1.0*	*< 1.0*
1,4-Dioxane	0.3	*< 50*	*< 50*
4-Isopropyltoluene	NS	*< 1.0*	*< 1.0*
Acetone	6,300	*< 50*	87
Benzene	5	*< 1.0*	*< 1.0*
Carbon disulfide	NS	*< 10*	*< 10*
Chlorobenzene	100	*< 1.0*	*< 1.0*
Chloroform	70	*< 1.0*	*< 1.0*
cis-1,2-Dichloroethene	70	*< 1.0*	*< 1.0*
Freon 11	NS	*< 1.0*	*< 1.0*
Methyl tert-butyl ether	70	*< 1.0*	*< 1.0*
Naphthalene	140	*< 5.0*	*< 5.0*
tert-Amyl Methyl Ether	NS	*< 5.0*	*< 5.0*
Tetrachloroethene	5	*< 1.0*	*< 1.0*
trans-1,2-Dichloroethene	100	*< 1.0*	*< 1.0*
Trichloroethene	5	*< 1.0*	*< 1.0*
Method EPA522, µg/L			
1,4-Dioxane	0.3		
Method SW8260B_SIM, µg/L			
1,4-Dioxane	0.3		
Method SW8260C_SIM, µg/L			
1,4-Dioxane	0.3		

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
Shaded = Analyte concentration exceeded applicable MCP criteria
* = Laboratory Control Sample or Laboratory Control Sample Duplicate exceeds the control limits.
All analyses performed by TestAmerica - Buffalo, NY and Burlington, VT.

MA-GW-1 = MCP, 310 CMR 40, Groundwater Stds Category GW-1.

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

Analyte	Location ID Sample Date Sample Type MA-GW-1	MW-1002M 22-Mar-13 N	MW-1002M 2-Oct-13 N
Method SW8260C, µg/L			
1,1,1-Trichloroethane	200	*< 1.0*	*< 1.0*
1,1-Dichloroethane	70	*< 1.0*	*< 1.0*
1,1-Dichloroethene	7	*< 1.0*	*< 1.0*
1,2,4-Trimethylbenzene	NS	*< 1.0*	*< 1.0*
1,2-Dichlorobenzene	600	*< 1.0*	*< 1.0*
1,3,5-Trimethylbenzene	NS	*< 1.0*	*< 1.0*
1,4-Dichlorobenzene	5	*< 1.0*	*< 1.0*
1,4-Dioxane	0.3	*< 50*	*< 50*
4-Isopropyltoluene	NS	*< 1.0*	*< 1.0*
Acetone	6,300	*< 50*	*< 50*
Benzene	5	*< 1.0*	*< 1.0*
Carbon disulfide	NS	*< 10*	*< 10*
Chlorobenzene	100	*< 1.0*	*< 1.0*
Chloroform	70	*< 1.0*	*< 1.0*
cis-1,2-Dichloroethene	70	*< 1.0*	*< 1.0*
Freon 11	NS	*< 1.0*	*< 1.0*
Methyl tert-butyl ether	70	*< 1.0*	*< 1.0*
Naphthalene	140	*< 5.0*	*< 5.0*
tert-Amyl Methyl Ether	NS	*< 5.0*	*< 5.0*
Tetrachloroethene	5	*< 1.0*	*< 1.0*
trans-1,2-Dichloroethene	100	*< 1.0*	*< 1.0*
Trichloroethene	5	*< 1.0*	*< 1.0*
Method EPA522, µg/L			
1,4-Dioxane	0.3		
Method SW8260B_SIM, µg/L			
1,4-Dioxane	0.3		
Method SW8260C_SIM, µg/L			
1,4-Dioxane	0.3		

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
Shaded = Analyte concentration exceeded applicable MCP criteria
* = Laboratory Control Sample or Laboratory Control Sample Duplicate exceeds the control limits.
All analyses performed by TestAmerica - Buffalo, NY and Burlington, VT.

MA-GW-1 = MCP, 310 CMR 40, Groundwater Stds Category GW-1.

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

Analyte	Location ID Sample Date Sample Type MA-GW-1	MW-1003 22-Mar-13 N	MW-1003 3-Oct-13 N	MW-1003 10-Apr-14 N	MW-1003 4-Sep-14 N	MW-1003 31-Mar-15 N
Method SW8260C, µg/L						
1,1,1-Trichloroethane	200	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethane	70	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethene	7	< 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
1,2-Dichlorobenzene	600	< 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
1,4-Dichlorobenzene	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,4-Dioxane	0.3	< 50	< 50	< 50	< 50 *	< 50
4-Isopropyltoluene	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Acetone	6,300	< 50	< 50	80	< 50	< 50
Benzene	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Carbon disulfide	NS	< 10	< 10	< 10	< 10	< 10
Chlorobenzene	100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloroform	70	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
cis-1,2-Dichloroethene	70	3.2	3.4	3.3	4.1	3.3
Freon 11	NS	< 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
Naphthalene	140	< 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
Tetrachloroethene	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
trans-1,2-Dichloroethene	100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethene	5	4.4	3.8	**5.2**	**7.4**	**6.2**
Method EPA522, µg/L						
1,4-Dioxane	0.3					
Method SW8260B_SIM, µg/L						
1,4-Dioxane	0.3					
Method SW8260C_SIM, µg/L						
1,4-Dioxane	0.3					

Notes:
< = Compound not detected. Reportable detection limit shown.
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All analyses performed by TestAmerica - Buffalo, NY and Burlington, VT.

MA-GW-1 = MCP, 310 CMR 40, Groundwater Stds Category GW-1.

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

Analyte	Location ID Sample Date Sample Type MA-GW-1	MW-1004 21-Mar-13 N	MW-1004 2-Oct-13 N	MW-1004 10-Apr-14 N	MW-1004 4-Sep-14 N	MW-1004 31-Mar-15 N
Method SW8260C, µg/L						
1,1,1-Trichloroethane	200	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethane	70	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethene	7	< 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
1,2-Dichlorobenzene	600	< 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
1,4-Dichlorobenzene	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,4-Dioxane	0.3	< 50	< 50	< 50	< 50 *	< 50
4-Isopropyltoluene	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Acetone	6,300	< 50	< 50	82	< 50	< 50
Benzene	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Carbon disulfide	NS	< 10	< 10	< 10	< 10	< 10
Chlorobenzene	100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
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
Freon 11	NS	< 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
Naphthalene	140	< 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
Tetrachloroethene	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
trans-1,2-Dichloroethene	100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethene	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Method EPA522, µg/L						
1,4-Dioxane	0.3					
Method SW8260B_SIM, µg/L						
1,4-Dioxane	0.3					
Method SW8260C_SIM, µg/L						
1,4-Dioxane	0.3					

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All analyses performed by TestAmerica - Buffalo, NY and Burlington, VT.

MA-GW-1 = MCP, 310 CMR 40, Groundwater Stds Category GW-1.

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

Analyte	Location ID Sample Date Sample Type MA-GW-1	MW-1005 19-Mar-13 N	MW-1005 1-Oct-13 N	MW-1005 10-Apr-14 N	MW-1005 10-Apr-14 FD	MW-1005 4-Sep-14 N	MW-1005 4-Sep-14 FD	MW-1005 31-Mar-15 N	MW-1005 31-Mar-15 FD
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*
1,1-Dichloroethane	70	*< 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*
1,2,4-Trimethylbenzene	NS	*< 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*
1,3,5-Trimethylbenzene	NS	*< 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*
1,4-Dioxane	0.3	*< 50*	*< 50*	*< 50*	*< 50*	*< 50 **	*< 50*	*< 50*	*< 50*
4-Isopropyltoluene	NS	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*
Acetone	6,300	*< 50*	*< 50*	84	83	*< 50*	*< 50*	*< 50*	*< 50*
Benzene	5	*< 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*
Chlorobenzene	100	*< 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
cis-1,2-Dichloroethene	70	3.2	12	3.6	3.6	6.4	6.6	1.7	1.5
Freon 11	NS	*< 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*
Naphthalene	140	*< 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*
Tetrachloroethene	5	1.2	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*
trans-1,2-Dichloroethene	100	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*
Trichloroethene	5	**17**	**14**	**13**	**12**	**13**	**13**	**5**	4.8
Method EPA522, µg/L									
1,4-Dioxane	0.3								
Method SW8260B_SIM, µg/L									
1,4-Dioxane	0.3								
Method SW8260C_SIM, µg/L									
1,4-Dioxane	0.3								

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All analyses performed by TestAmerica - Buffalo, NY and Burlington, VT.

MA-GW-1 = MCP, 310 CMR 40, Groundwater Stds Category GW-1.

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

Analyte	Location ID Sample Date Sample Type MA-GW-1	MW-1006 20-Mar-13 N	MW-1006 2-Oct-13 N	MW-1006 10-Apr-14 N	MW-1006 4-Sep-14 N	MW-1006 31-Mar-15 N
Method SW8260C, µg/L						
1,1,1-Trichloroethane	200	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethane	70	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethene	7	< 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
1,2-Dichlorobenzene	600	< 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
1,4-Dichlorobenzene	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,4-Dioxane	0.3	< 50	< 50 *	< 50	< 50 *	< 50
4-Isopropyltoluene	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Acetone	6,300	< 50	< 50	84	< 50	< 50
Benzene	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Carbon disulfide	NS	< 10	< 10	< 10	< 10	< 10
Chlorobenzene	100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
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
Freon 11	NS	< 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
Naphthalene	140	< 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
Tetrachloroethene	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
trans-1,2-Dichloroethene	100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethene	5	< 1.0	1.1	< 1.0	1.7	2.3
Method EPA522, µg/L						
1,4-Dioxane	0.3					
Method SW8260B_SIM, µg/L						
1,4-Dioxane	0.3					
Method SW8260C_SIM, µg/L						
1,4-Dioxane	0.3					

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
Shaded = Analyte concentration exceeded applicable MCP criteria
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All analyses performed by TestAmerica - Buffalo, NY and Burlington, VT.

MA-GW-1 = MCP, 310 CMR 40, Groundwater Stds Category GW-1.

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

Analyte	Location ID Sample Date Sample Type MA-GW-1	MW-1008 19-Mar-13 N	MW-1008 3-Oct-13 N	MW-1008 10-Apr-14 N	MW-1008 4-Sep-14 N	MW-1008 31-Mar-15 N
Method SW8260C, µg/L						
1,1,1-Trichloroethane	200	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*
1,1-Dichloroethane	70	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*
1,1-Dichloroethene	7	*< 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*
1,2-Dichlorobenzene	600	*< 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*
1,4-Dichlorobenzene	5	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*
1,4-Dioxane	0.3	*< 50*	*< 50*	*< 50*	*< 50*	*< 50*
4-Isopropyltoluene	NS	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*
Acetone	6,300	*< 50*	*< 50*	83	*< 50*	*< 50*
Benzene	5	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*
Carbon disulfide	NS	*< 10*	*< 10*	*< 10*	*< 10*	*< 10*
Chlorobenzene	100	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*
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*
Freon 11	NS	*< 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*
Naphthalene	140	*< 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*
Tetrachloroethene	5	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*
trans-1,2-Dichloroethene	100	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*
Trichloroethene	5	4	3.4	3.1	3.6	3.9
Method EPA522, µg/L						
1,4-Dioxane	0.3					
Method SW8260B_SIM, µg/L						
1,4-Dioxane	0.3					
Method SW8260C_SIM, µg/L						
1,4-Dioxane	0.3					

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
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All analyses performed by TestAmerica - Buffalo, NY and Burlington, VT.

MA-GW-1 = MCP, 310 CMR 40, Groundwater Stds Category GW-1.

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

Analyte	Location ID Sample Date Sample Type MA-GW-1	MW-1009 21-Mar-13 N	MW-1009 2-Oct-13 N	MW-1009 10-Apr-14 N	MW-1009 4-Sep-14 N	MW-1009 31-Mar-15 N
Method SW8260C, µg/L						
1,1,1-Trichloroethane	200	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethane	70	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethene	7	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,4-Trimethylbenzene	NS	< 1.0	4.2	< 1.0	< 1.0	< 1.0
1,2-Dichlorobenzene	600	2	< 1.0	< 1.0	< 1.0	< 1.0
1,3,5-Trimethylbenzene	NS	< 1.0	1.6	< 1.0	< 1.0	< 1.0
1,4-Dichlorobenzene	5	1	< 1.0	< 1.0	< 1.0	< 1.0
1,4-Dioxane	0.3	< 50	< 50	< 50	< 50	< 50
4-Isopropyltoluene	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Acetone	6,300	< 50	< 50	83	< 50	< 50
Benzene	5	1.5	< 1.0	< 1.0	< 1.0	< 1.0
Carbon disulfide	NS	< 10	< 10	< 10	< 10	< 10
Chlorobenzene	100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloroform	70	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
cis-1,2-Dichloroethene	70	2.2	< 1.0	< 1.0	< 1.0	< 1.0
Freon 11	NS	< 1.0	1	1.2	2.5	4.6
Methyl tert-butyl ether	70	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Naphthalene	140	< 5.0	5.2	< 5.0	< 5.0	< 5.0
tert-Amyl Methyl Ether	NS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Tetrachloroethene	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
trans-1,2-Dichloroethene	100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethene	5	1.9	1.3	< 1.0	1.1	< 1.0
Method EPA522, µg/L						
1,4-Dioxane	0.3					
Method SW8260B_SIM, µg/L						
1,4-Dioxane	0.3					
Method SW8260C_SIM, µg/L						
1,4-Dioxane	0.3					

Notes:
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Shaded = Analyte concentration exceeded applicable MCP criteria
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All analyses performed by TestAmerica - Buffalo, NY and Burlington, VT.

MA-GW-1 = MCP, 310 CMR 40, Groundwater Stds Category GW-1.

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

Analyte	Location ID Sample Date Sample Type MA-GW-1	MW-1010D 20-Mar-13 N	MW-1010D 2-Oct-13 N	MW-1010D 2-Oct-13 FD	MW-1010D 10-Apr-14 N	MW-1010D 4-Sep-14 N
Method SW8260C, µg/L						
1,1,1-Trichloroethane	200	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethane	70	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethene	7	< 1.0	1.4	1.4	< 1.0	1.4
1,2,4-Trimethylbenzene	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichlorobenzene	600	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3,5-Trimethylbenzene	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,4-Dichlorobenzene	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,4-Dioxane	0.3	< 50	< 50	< 50	< 50	< 50
4-Isopropyltoluene	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Acetone	6,300	< 50	< 50	< 50	83	< 50
Benzene	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Carbon disulfide	NS	< 10	< 10	< 10	< 10	< 10
Chlorobenzene	100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloroform	70	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
cis-1,2-Dichloroethene	70	1.1	3.4	3.4	1.3	8.9
Freon 11	NS	< 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
Naphthalene	140	< 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
Tetrachloroethene	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
trans-1,2-Dichloroethene	100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethene	5	**7.1**	**34**	**32**	**5.3**	**24**
Method EPA522, µg/L						
1,4-Dioxane	0.3					
Method SW8260B_SIM, µg/L						
1,4-Dioxane	0.3					
Method SW8260C_SIM, µg/L						
1,4-Dioxane	0.3					

Notes:
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Empty cells = Not analyzed
NS = No Standard
N = Normal Environmental Sample
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Units are in µg/L = micrograms per liter
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MA-GW-1 = MCP, 310 CMR 40, Groundwater Stds Category GW-1.

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

Analyte	Location ID Sample Date Sample Type MA-GW-1	MW-1010M 20-Mar-13 N	MW-1010M 2-Oct-13 N	MW-1010M 10-Apr-14 N	MW-1010M 4-Sep-14 N	MW-1010M 31-Mar-15 N
Method SW8260C, µg/L						
1,1,1-Trichloroethane	200	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethane	70	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethene	7	< 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
1,2-Dichlorobenzene	600	< 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
1,4-Dichlorobenzene	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,4-Dioxane	0.3	< 50	< 50	< 50	< 50	< 50
4-Isopropyltoluene	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Acetone	6,300	< 50	< 50	77	< 50	< 50
Benzene	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Carbon disulfide	NS	< 10	< 10	< 10	< 10	< 10
Chlorobenzene	100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
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
Freon 11	NS	< 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
Naphthalene	140	< 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
Tetrachloroethene	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
trans-1,2-Dichloroethene	100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethene	5	< 1.0	1.1	< 1.0	3.3	1.7
Method EPA522, µg/L						
1,4-Dioxane	0.3					
Method SW8260B_SIM, µg/L						
1,4-Dioxane	0.3					
Method SW8260C_SIM, µg/L						
1,4-Dioxane	0.3					

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All analyses performed by TestAmerica - Buffalo, NY and Burlington, VT.

MA-GW-1 = MCP, 310 CMR 40, Groundwater Stds Category GW-1.

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

Analyte	Location ID Sample Date Sample Type MA-GW-1	MW-1011 2-Oct-13 N	MW-1011 10-Apr-14 N	MW-1011 14-Apr-14 N	MW-1011 4-Sep-14 N	MW-1011 9-Sep-14 N
Method SW8260C, µg/L						
1,1,1-Trichloroethane	200	< 1.0	< 1.0		< 1.0	
1,1-Dichloroethane	70	< 1.0	< 1.0		< 1.0	
1,1-Dichloroethene	7	< 1.0	< 1.0		< 1.0	
1,2,4-Trimethylbenzene	NS	< 1.0	< 1.0		< 1.0	
1,2-Dichlorobenzene	600	< 1.0	< 1.0		< 1.0	
1,3,5-Trimethylbenzene	NS	< 1.0	< 1.0		< 1.0	
1,4-Dichlorobenzene	5	< 1.0	< 1.0		< 1.0	
1,4-Dioxane	0.3	< 50	< 50		< 50	
4-Isopropyltoluene	NS	< 1.0	< 1.0		< 1.0	
Acetone	6,300	< 50	80		< 50	
Benzene	5	< 1.0	< 1.0		< 1.0	
Carbon disulfide	NS	< 10	< 10		< 10	
Chlorobenzene	100	< 1.0	< 1.0		< 1.0	
Chloroform	70	< 1.0	< 1.0		< 1.0	
cis-1,2-Dichloroethene	70	4	12		8.9	
Freon 11	NS	< 1.0	< 1.0		< 1.0	
Methyl tert-butyl ether	70	< 1.0	< 1.0		< 1.0	
Naphthalene	140	< 5.0	< 5.0		< 5.0	
tert-Amyl Methyl Ether	NS	< 5.0	< 5.0		< 5.0	
Tetrachloroethene	5	< 1.0	< 1.0		< 1.0	
trans-1,2-Dichloroethene	100	< 1.0	< 1.0		< 1.0	
Trichloroethene	5	**12**	**22**		**17**	
Method EPA522, µg/L						
1,4-Dioxane	0.3	0.2		0.22		0.21
Method SW8260B_SIM, µg/L						
1,4-Dioxane	0.3					
Method SW8260C_SIM, µg/L						
1,4-Dioxane	0.3			< 1.6		

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MA-GW-1 = MCP, 310 CMR 40, Groundwater Stds Category GW-1.

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

Analyte	Location ID Sample Date Sample Type MA-GW-1	MW-1013 22-Mar-13 N	MW-1013 3-Oct-13 N	MW-1013 10-Apr-14 N	MW-1013 4-Sep-14 N	MW-1013 31-Mar-15 N
Method SW8260C, µg/L						
1,1,1-Trichloroethane	200	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethane	70	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethene	7	< 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
1,2-Dichlorobenzene	600	< 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
1,4-Dichlorobenzene	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,4-Dioxane	0.3	< 50	< 50	< 50	< 50 *	< 50
4-Isopropyltoluene	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Acetone	6,300	< 50	< 50	87	< 50	< 50
Benzene	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Carbon disulfide	NS	< 10	< 10	< 10	< 10	< 10
Chlorobenzene	100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
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
Freon 11	NS	< 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
Naphthalene	140	< 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
Tetrachloroethene	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
trans-1,2-Dichloroethene	100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethene	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Method EPA522, µg/L						
1,4-Dioxane	0.3					
Method SW8260B_SIM, µg/L						
1,4-Dioxane	0.3					
Method SW8260C_SIM, µg/L						
1,4-Dioxane	0.3					

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Units are in µg/L = micrograms per liter
Shaded = Analyte concentration exceeded applicable MCP criteria
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All analyses performed by TestAmerica - Buffalo, NY and Burlington, VT.

MA-GW-1 = MCP, 310 CMR 40, Groundwater Stds Category GW-1.

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

Analyte	Location ID Sample Date Sample Type MA-GW-1	MW-1014 22-Mar-13 N	MW-1014 3-Oct-13 N
Method SW8260C, µg/L			
1,1,1-Trichloroethane	200	< *1.0*	< *1.0*
1,1-Dichloroethane	70	< *1.0*	< *1.0*
1,1-Dichloroethene	7	< *1.0*	< *1.0*
1,2,4-Trimethylbenzene	NS	< *1.0*	< *1.0*
1,2-Dichlorobenzene	600	< *1.0*	< *1.0*
1,3,5-Trimethylbenzene	NS	< *1.0*	< *1.0*
1,4-Dichlorobenzene	5	< *1.0*	< *1.0*
1,4-Dioxane	0.3	< *50*	< *50*
4-Isopropyltoluene	NS	< *1.0*	< *1.0*
Acetone	6,300	< *50*	< *50*
Benzene	5	< *1.0*	< *1.0*
Carbon disulfide	NS	< *10*	< *10*
Chlorobenzene	100	< *1.0*	< *1.0*
Chloroform	70	< *1.0*	< *1.0*
cis-1,2-Dichloroethene	70	< *1.0*	1.4
Freon 11	NS	< *1.0*	< *1.0*
Methyl tert-butyl ether	70	< *1.0*	< *1.0*
Naphthalene	140	< *5.0*	< *5.0*
tert-Amyl Methyl Ether	NS	< *5.0*	< *5.0*
Tetrachloroethene	5	< *1.0*	< *1.0*
trans-1,2-Dichloroethene	100	< *1.0*	< *1.0*
Trichloroethene	5	4	**21**
Method EPA522, µg/L			
1,4-Dioxane	0.3		
Method SW8260B_SIM, µg/L			
1,4-Dioxane	0.3		
Method SW8260C_SIM, µg/L			
1,4-Dioxane	0.3		

Notes:
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FD = Field Duplicate Sample
Units are in µg/L = micrograms per liter
Shaded = Analyte concentration exceeded applicable MCP criteria
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MA-GW-1 = MCP, 310 CMR 40, Groundwater Stds Category GW-1.

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

Analyte	Location ID Sample Date Sample Type MA-GW-1	MW-1015D 20-Mar-13 N	MW-1015D 2-Oct-13 N	MW-1015D 2-Oct-13 FD	MW-1015D 10-Apr-14 N	MW-1015D 4-Sep-14 N	MW-1015D 31-Mar-15 N
Method SW8260C, µg/L							
1,1,1-Trichloroethane	200	< 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
1,1-Dichloroethene	7	< 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
1,2-Dichlorobenzene	600	< 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
1,4-Dichlorobenzene	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,4-Dioxane	0.3	< 50	< 50 *	< 50 *	< 50	< 50	< 50
4-Isopropyltoluene	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Acetone	6,300	< 50	< 50	< 50	82	< 50	< 50
Benzene	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Carbon disulfide	NS	< 10	< 10	< 10	< 10	< 10	< 10
Chlorobenzene	100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloroform	70	1.5	1.5	1.4	< 1.0	< 1.0	< 1.0
cis-1,2-Dichloroethene	70	2	1.8	1.8	1.9	2	1.3
Freon 11	NS	< 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
Naphthalene	140	< 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
Tetrachloroethene	5	3.4	3.3	3.1	2	2.1	1.2
trans-1,2-Dichloroethene	100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethene	5	**34**	**33**	**33**	**23**	**24**	**18**
Method EPA522, µg/L							
1,4-Dioxane	0.3						
Method SW8260B_SIM, µg/L							
1,4-Dioxane	0.3						
Method SW8260C_SIM, µg/L							
1,4-Dioxane	0.3						

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All analyses performed by TestAmerica - Buffalo, NY and Burlington, VT.

MA-GW-1 = MCP, 310 CMR 40, Groundwater Stds Category GW-1.

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

Analyte	Location ID Sample Date Sample Type MA-GW-1	MW-1016D 22-Mar-13 N	MW-1016D 3-Oct-13 N	MW-1016D 10-Apr-14 N	MW-1016D 10-Apr-14 FD	MW-1016D 4-Sep-14 N	MW-1016D 4-Sep-14 FD	MW-1016D 31-Mar-15 N	MW-1016D 31-Mar-15 FD
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*
1,1-Dichloroethane	70	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*
1,1-Dichloroethene	7	*< 1.0*	2.2	1.5	1.5	1.8	1.7	*< 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*
1,2-Dichlorobenzene	600	*< 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*
1,4-Dichlorobenzene	5	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*
1,4-Dioxane	0.3	*< 50*	*< 50*	*< 50*	*< 50*	*< 50*	*< 50*	*< 50*	*< 50*
4-Isopropyltoluene	NS	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*
Acetone	6,300	*< 50*	*< 50*	80	75	*< 50*	*< 50*	*< 50*	*< 50*
Benzene	5	*< 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*
Chlorobenzene	100	*< 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*
cis-1,2-Dichloroethene	70	4.1	18	42	41	31	31	15	15
Freon 11	NS	*< 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*
Naphthalene	140	*< 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*
Tetrachloroethene	5	*< 1.0*	1.4	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*
trans-1,2-Dichloroethene	100	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*
Trichloroethene	5	**28**	**35**	1.1	1	**9.3**	**8.7**	**5.1**	**5.3**
Method EPA522, µg/L									
1,4-Dioxane	0.3								
Method SW8260B_SIM, µg/L									
1,4-Dioxane	0.3								
Method SW8260C_SIM, µg/L									
1,4-Dioxane	0.3								

Notes:
< = Compound not detected. Reportable detection limit shown.
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Units are in µg/L = micrograms per liter
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MA-GW-1 = MCP, 310 CMR 40, Groundwater Stds Category GW-1.

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

Analyte	Location ID Sample Date Sample Type MA-GW-1	MW-1017D 19-Mar-13 N	MW-1017D 1-Oct-13 N	MW-1017D 10-Apr-14 N	MW-1017D 4-Sep-14 N
Method SW8260C, µg/L					
1,1,1-Trichloroethane	200	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethane	70	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethene	7	< 1.0	< 1.0	< 1.0	< 1.0
1,2,4-Trimethylbenzene	NS	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichlorobenzene	600	< 1.0	< 1.0	< 1.0	< 1.0
1,3,5-Trimethylbenzene	NS	< 1.0	< 1.0	< 1.0	< 1.0
1,4-Dichlorobenzene	5	< 1.0	< 1.0	< 1.0	< 1.0
1,4-Dioxane	0.3	< 50	< 50	< 50	< 50
4-Isopropyltoluene	NS	< 1.0	< 1.0	< 1.0	< 1.0
Acetone	6,300	< 50	< 50	78	< 50
Benzene	5	< 1.0	< 1.0	< 1.0	< 1.0
Carbon disulfide	NS	< 10	< 10	< 10	< 10
Chlorobenzene	100	< 1.0	< 1.0	< 1.0	< 1.0
Chloroform	70	< 1.0	< 1.0	< 1.0	< 1.0
cis-1,2-Dichloroethene	70	8.1	19	11	**130**
Freon 11	NS	< 1.0	< 1.0	< 1.0	< 1.0
Methyl tert-butyl ether	70	< 1.0	< 1.0	< 1.0	< 1.0
Naphthalene	140	< 5.0	< 5.0	< 5.0	< 5.0
tert-Amyl Methyl Ether	NS	< 5.0	< 5.0	< 5.0	< 5.0
Tetrachloroethene	5	< 1.0	< 1.0	< 1.0	< 1.0
trans-1,2-Dichloroethene	100	< 1.0	< 1.0	< 1.0	1.4
Trichloroethene	5	**41**	**53**	**29**	2.2
Method EPA522, µg/L					
1,4-Dioxane	0.3				
Method SW8260B_SIM, µg/L					
1,4-Dioxane	0.3				
Method SW8260C_SIM, µg/L					
1,4-Dioxane	0.3				

Notes:
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All analyses performed by TestAmerica - Buffalo, NY and Burlington, VT.

MA-GW-1 = MCP, 310 CMR 40, Groundwater Stds Category GW-1.

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

Analyte	Location ID Sample Date Sample Type MA-GW-1	MW-1018 19-Mar-13 N	MW-1018 2-Oct-13 N	MW-1018 17-Oct-13 N	MW-1018 10-Apr-14 N	MW-1018 4-Sep-14 N
Method SW8260C, µg/L						
1,1,1-Trichloroethane	200	94	17	< 1.0	42	1.8
1,1-Dichloroethane	70	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethene	7	**7.3**	1	< 1.0	3.7	< 1.0
1,2,4-Trimethylbenzene	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichlorobenzene	600	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3,5-Trimethylbenzene	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,4-Dichlorobenzene	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,4-Dioxane	0.3	< 50	< 50	< 50	< 50	< 50 *
4-Isopropyltoluene	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Acetone	6,300	< 50	< 50	< 50	81	< 50
Benzene	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Carbon disulfide	NS	< 10	< 10	< 10	< 10	< 10
Chlorobenzene	100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloroform	70	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
cis-1,2-Dichloroethene	70	1.5	< 1.0	< 1.0	< 1.0	< 1.0
Freon 11	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Methyl tert-butyl ether	70	7.6	10	< 1.0	< 1.0	< 1.0
Naphthalene	140	< 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
Tetrachloroethene	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
trans-1,2-Dichloroethene	100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethene	5	**300**	**59**	< 1.0	**170**	**7.8**
Method EPA522, µg/L						
1,4-Dioxane	0.3					
Method SW8260B_SIM, µg/L						
1,4-Dioxane	0.3					
Method SW8260C_SIM, µg/L						
1,4-Dioxane	0.3					

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MA-GW-1 = MCP, 310 CMR 40, Groundwater Stds Category GW-1.

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

Analyte	Location ID Sample Date Sample Type MA-GW-1	MW-1019B 19-Mar-13 N	MW-1019B 1-Oct-13 N	MW-1019B 10-Apr-14 N	MW-1019B 4-Sep-14 N	MW-1019B 31-Mar-15 N
Method SW8260C, µg/L						
1,1,1-Trichloroethane	200	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethane	70	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethene	7	< 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
1,2-Dichlorobenzene	600	< 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
1,4-Dichlorobenzene	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,4-Dioxane	0.3	< 50	< 50	< 50	< 50	< 50
4-Isopropyltoluene	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Acetone	6,300	< 50	< 50	79	< 50	< 50
Benzene	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Carbon disulfide	NS	< 10	< 10	< 10	< 10	< 10
Chlorobenzene	100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloroform	70	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
cis-1,2-Dichloroethene	70	5.9	< 1.0	< 1.0	< 1.0	< 1.0
Freon 11	NS	< 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
Naphthalene	140	< 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
Tetrachloroethene	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
trans-1,2-Dichloroethene	100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethene	5	**26**	< 1.0	2.1	2.1	2.3
Method EPA522, µg/L						
1,4-Dioxane	0.3					
Method SW8260B_SIM, µg/L						
1,4-Dioxane	0.3					
Method SW8260C_SIM, µg/L						
1,4-Dioxane	0.3					

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MA-GW-1 = MCP, 310 CMR 40, Groundwater Stds Category GW-1.

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

Analyte	Location ID Sample Date Sample Type MA-GW-1	MW-1020 19-Mar-13 N	MW-1020 1-Oct-13 N	MW-1020 1-Oct-13 FD	MW-1020 10-Apr-14 N	MW-1020 14-Apr-14 N	MW-1020 4-Sep-14 N	MW-1020 9-Sep-14 N
Method SW8260C, µg/L								
1,1,1-Trichloroethane	200	2.1	67	68	1.6		3.9	
1,1-Dichloroethane	70	< *1.0*	2.1	2.2	1		1.2	
1,1-Dichloroethene	7	< *1.0*	4.7	4.8	< *1.0*		< *1.0*	
1,2,4-Trimethylbenzene	NS	< *1.0*	< *1.0*	< *1.0*	< *1.0*		< *1.0*	
1,2-Dichlorobenzene	600	< *1.0*	< *1.0*	< *1.0*	< *1.0*		< *1.0*	
1,3,5-Trimethylbenzene	NS	< *1.0*	< *1.0*	< *1.0*	< *1.0*		< *1.0*	
1,4-Dichlorobenzene	5	< *1.0*	< *1.0*	< *1.0*	< *1.0*		< *1.0*	
1,4-Dioxane	0.3	< *50*	< *50*	< *50*	< *50*		< *50*	
4-Isopropyltoluene	NS	< *1.0*	< *1.0*	< *1.0*	< *1.0*		< *1.0*	
Acetone	6,300	< *50*	< *50*	< *50*	81		< *50*	
Benzene	5	< *1.0*	< *1.0*	< *1.0*	< *1.0*		< *1.0*	
Carbon disulfide	NS	< *10*	< *10*	< *10*	< *10*		< *10*	
Chlorobenzene	100	< *1.0*	< *1.0*	< *1.0*	< *1.0*		< *1.0*	
Chloroform	70	< *1.0*	< *1.0*	< *1.0*	< *1.0*		< *1.0*	
cis-1,2-Dichloroethene	70	< *1.0*	1.3	1.4	< *1.0*		< *1.0*	
Freon 11	NS	< *1.0*	< *1.0*	< *1.0*	< *1.0*		< *1.0*	
Methyl tert-butyl ether	70	11	2	2	< *1.0*		< *1.0*	
Naphthalene	140	< *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*	
Tetrachloroethene	5	< *1.0*	< *1.0*	< *1.0*	< *1.0*		< *1.0*	
trans-1,2-Dichloroethene	100	< *1.0*	< *1.0*	< *1.0*	< *1.0*		< *1.0*	
Trichloroethene	5	**16**	**280**	**270**	**21**		**28**	
Method EPA522, µg/L								
1,4-Dioxane	0.3	**0.6**	**0.46**			**0.53**		0.23
Method SW8260B_SIM, µg/L								
1,4-Dioxane	0.3							
Method SW8260C_SIM, µg/L								
1,4-Dioxane	0.3					< *1.6*		

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MA-GW-1 = MCP, 310 CMR 40, Groundwater Stds Category GW-1.

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

Analyte	Location ID Sample Date Sample Type MA-GW-1	MW-1022 20-Mar-13 N	MW-1022 20-Mar-13 FD	MW-1022 1-Oct-13 N	MW-1022 10-Apr-14 N	MW-1022 14-Apr-14 N	MW-1022 4-Sep-14 N	MW-1022 9-Sep-14 N
Method SW8260C, µg/L								
1,1,1-Trichloroethane	200	< 1.0	< 1.0	< 1.0	< 1.0		< 1.0	
1,1-Dichloroethane	70	< 1.0	< 1.0	< 1.0	< 1.0		< 1.0	
1,1-Dichloroethene	7	< 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	
1,2-Dichlorobenzene	600	< 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	
1,4-Dichlorobenzene	5	< 1.0	< 1.0	< 1.0	< 1.0		< 1.0	
1,4-Dioxane	0.3	< 50	< 50	< 50	< 50		< 50 *	
4-Isopropyltoluene	NS	< 1.0	< 1.0	< 1.0	< 1.0		< 1.0	
Acetone	6,300	< 50	< 50	< 50	79		< 50	
Benzene	5	< 1.0	< 1.0	< 1.0	< 1.0		< 1.0	
Carbon disulfide	NS	< 10	< 10	< 10	< 10		< 10	
Chlorobenzene	100	< 1.0	< 1.0	< 1.0	< 1.0		< 1.0	
Chloroform	70	< 1.0	< 1.0	< 1.0	< 1.0		< 1.0	
cis-1,2-Dichloroethene	70	1	1.1	< 1.0	< 1.0		< 1.0	
Freon 11	NS	< 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	
Naphthalene	140	< 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	
Tetrachloroethene	5	< 1.0	< 1.0	< 1.0	< 1.0		< 1.0	
trans-1,2-Dichloroethene	100	< 1.0	< 1.0	< 1.0	< 1.0		< 1.0	
Trichloroethene	5	2.7	2.9	3.1	3		2.6	
Method EPA522, µg/L								
1,4-Dioxane	0.3	< 0.20		< 0.20		< 0.20		< 0.20
Method SW8260B_SIM, µg/L								
1,4-Dioxane	0.3	< 1.6						
Method SW8260C_SIM, µg/L								
1,4-Dioxane	0.3					< 1.6		

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MA-GW-1 = MCP, 310 CMR 40, Groundwater Stds Category GW-1.

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

Analyte	Location ID Sample Date Sample Type MA-GW-1	MW-1023 20-Mar-13 N	MW-1023 1-Oct-13 N	MW-1023 10-Apr-14 N	MW-1023 14-Apr-14 N	MW-1023 4-Sep-14 N	MW-1023 9-Sep-14 N	MW-1023 31-Mar-15 N	MW-1023 2-Apr-15 N
Method SW8260C, µg/L									
1,1,1-Trichloroethane	200	< 1.0	< 1.0	< 1.0		< 1.0		< 1.0	
1,1-Dichloroethane	70	< 1.0	< 1.0	< 1.0		< 1.0		< 1.0	
1,1-Dichloroethene	7	< 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	
1,2-Dichlorobenzene	600	< 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	
1,4-Dichlorobenzene	5	< 1.0	< 1.0	< 1.0		< 1.0		< 1.0	
1,4-Dioxane	0.3	< 50	< 50	< 50		< 50 *		< 50	
4-Isopropyltoluene	NS	< 1.0	< 1.0	< 1.0		< 1.0		< 1.0	
Acetone	6,300	< 50	< 50	80		< 50		< 50	
Benzene	5	< 1.0	< 1.0	< 1.0		< 1.0		< 1.0	
Carbon disulfide	NS	< 10	< 10	< 10		< 10		< 10	
Chlorobenzene	100	< 1.0	< 1.0	< 1.0		< 1.0		< 1.0	
Chloroform	70	< 1.0	< 1.0	< 1.0		< 1.0		< 1.0	
cis-1,2-Dichloroethene	70	6.6	6.6	3.5		7.9		1	
Freon 11	NS	< 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	
Naphthalene	140	< 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	
Tetrachloroethene	5	< 1.0	< 1.0	< 1.0		< 1.0		< 1.0	
trans-1,2-Dichloroethene	100	< 1.0	< 1.0	< 1.0		< 1.0		< 1.0	
Trichloroethene	5	**38**	**46**	**13**		**29**		**14**	
Method EPA522, µg/L									
1,4-Dioxane	0.3	**0.65**	**0.81**		< 0.20		< 0.20		**0.81**
Method SW8260B_SIM, µg/L									
1,4-Dioxane	0.3	< 1.6							
Method SW8260C_SIM, µg/L									
1,4-Dioxane	0.3				< 1.6				

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MA-GW-1 = MCP, 310 CMR 40, Groundwater Stds Category GW-1.

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

Analyte	Location ID Sample Date Sample Type MA-GW-1	MW-1024D 22-Mar-13 N	MW-1024D 3-Oct-13 N	MW-1024D 10-Apr-14 N	MW-1024D 14-Apr-14 N	MW-1024D 4-Sep-14 N	MW-1024D 9-Sep-14 N	MW-1024D 31-Mar-15 N	MW-1024D 2-Apr-15 N
Method SW8260C, µg/L									
1,1,1-Trichloroethane	200	< 1.0	< 1.0	< 1.0		< 1.0		< 1.0	
1,1-Dichloroethane	70	< 1.0	< 1.0	< 1.0		< 1.0		< 1.0	
1,1-Dichloroethene	7	< 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	
1,2-Dichlorobenzene	600	< 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	
1,4-Dichlorobenzene	5	< 1.0	< 1.0	< 1.0		< 1.0		< 1.0	
1,4-Dioxane	0.3	< 50	< 50	< 50		< 50 *		< 50	
4-Isopropyltoluene	NS	< 1.0	< 1.0	< 1.0		< 1.0		< 1.0	
Acetone	6,300	< 50	< 50	85		< 50		< 50	
Benzene	5	< 1.0	< 1.0	< 1.0		< 1.0		< 1.0	
Carbon disulfide	NS	< 10	< 10	< 10		< 10		< 10	
Chlorobenzene	100	< 1.0	< 1.0	< 1.0		< 1.0		< 1.0	
Chloroform	70	< 1.0	< 1.0	< 1.0		< 1.0		< 1.0	
cis-1,2-Dichloroethene	70	13	18	4.2		2		12	
Freon 11	NS	< 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	
Naphthalene	140	< 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	
Tetrachloroethene	5	< 1.0	< 1.0	< 1.0		< 1.0		< 1.0	
trans-1,2-Dichloroethene	100	< 1.0	< 1.0	< 1.0		< 1.0		< 1.0	
Trichloroethene	5	**73**	**72**	**14**		**9.2**		**33**	
Method EPA522, µg/L									
1,4-Dioxane	0.3	**0.4**	**0.55**		0.24		< 0.20		**0.36**
Method SW8260B_SIM, µg/L									
1,4-Dioxane	0.3	< 1.6							
Method SW8260C_SIM, µg/L									
1,4-Dioxane	0.3		< 1.6		< 1.6				

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Shaded = Analyte concentration exceeded applicable MCP criteria
* = Laboratory Control Sample or Laboratory Control Sample Duplicate exceeds the control limits.
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MA-GW-1 = MCP, 310 CMR 40, Groundwater Stds Category GW-1.

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

Analyte	Location ID Sample Date Sample Type MA-GW-1	MW-1025D 21-Mar-13 N	MW-1025D 3-Oct-13 N	MW-1025D 10-Apr-14 N	MW-1025D 14-Apr-14 N	MW-1025D 4-Sep-14 N	MW-1025D 9-Sep-14 N	MW-1025D 31-Mar-15 N	MW-1025D 2-Apr-15 N
Method SW8260C, µg/L									
1,1,1-Trichloroethane	200	*< 1.0*	*< 2.0*	*< 1.0*		*< 1.0*		*< 1.0*	
1,1-Dichloroethane	70	*< 1.0*	*< 2.0*	*< 1.0*		*< 1.0*		*< 1.0*	
1,1-Dichloroethene	7	*< 1.0*	*< 2.0*	*< 1.0*		*< 1.0*		*< 1.0*	
1,2,4-Trimethylbenzene	NS	*< 1.0*	*< 2.0*	*< 1.0*		*< 1.0*		*< 1.0*	
1,2-Dichlorobenzene	600	*< 1.0*	*< 2.0*	*< 1.0*		*< 1.0*		*< 1.0*	
1,3,5-Trimethylbenzene	NS	*< 1.0*	*< 2.0*	*< 1.0*		*< 1.0*		*< 1.0*	
1,4-Dichlorobenzene	5	*< 1.0*	*< 2.0*	*< 1.0*		*< 1.0*		*< 1.0*	
1,4-Dioxane	0.3	*< 50*	*< 100*	*< 50*		*< 50*		*< 50*	
4-Isopropyltoluene	NS	*< 1.0*	*< 2.0*	*< 1.0*		*< 1.0*		*< 1.0*	
Acetone	6,300	*< 50*	*< 100*	*< 50*		*< 50*		*< 50*	
Benzene	5	*< 1.0*	*< 2.0*	*< 1.0*		*< 1.0*		*< 1.0*	
Carbon disulfide	NS	*< 10*	*< 20*	*< 10*		*< 10*		*< 10*	
Chlorobenzene	100	*< 1.0*	*< 2.0*	*< 1.0*		*< 1.0*		*< 1.0*	
Chloroform	70	*< 1.0*	*< 2.0*	*< 1.0*		*< 1.0*		*< 1.0*	
cis-1,2-Dichloroethene	70	17	17	25		*< 1.0*		1	
Freon 11	NS	*< 1.0*	*< 2.0*	*< 1.0*		*< 1.0*		*< 1.0*	
Methyl tert-butyl ether	70	*< 1.0*	*< 2.0*	*< 1.0*		*< 1.0*		*< 1.0*	
Naphthalene	140	*< 5.0*	*< 10*	*< 5.0*		*< 5.0*		*< 5.0*	
tert-Amyl Methyl Ether	NS	*< 5.0*	*< 10*	*< 5.0*		*< 5.0*		*< 5.0*	
Tetrachloroethene	5	*< 1.0*	*< 2.0*	*< 1.0*		*< 1.0*		*< 1.0*	
trans-1,2-Dichloroethene	100	*< 1.0*	*< 2.0*	*< 1.0*		*< 1.0*		*< 1.0*	
Trichloroethene	5	**110**	**110**	*< 1.0*		*< 1.0*		*< 1.0*	
Method EPA522, µg/L									
1,4-Dioxane	0.3	**0.31**	**0.39**		*< 0.20*		*< 0.20*		*< 0.20*
Method SW8260B_SIM, µg/L									
1,4-Dioxane	0.3	*< 1.6*							
Method SW8260C_SIM, µg/L									
1,4-Dioxane	0.3		*< 1.6*		*< 1.6*				

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MA-GW-1 = MCP, 310 CMR 40, Groundwater Stds Category GW-1.

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

Analyte	Location ID Sample Date Sample Type MA-GW-1	MW-1025M 20-Mar-13 N	MW-1025M 3-Oct-13 N	MW-1025M 17-Oct-13 N	MW-1025M 10-Apr-14 N	MW-1025M 10-Apr-14 FD	MW-1025M 14-Apr-14 N	MW-1025M 4-Sep-14 N	MW-1025M 4-Sep-14 FD	MW-1025M 9-Sep-14 N	MW-1025M 31-Mar-15 N	MW-1025M 31-Mar-15 FD	MW-1025M 2-Apr-15 N
Method SW8260C, µg/L													
1,1,1-Trichloroethane	200	14	3.3	< 2.0	2.9	2.9		1.4	1.5		3.7	3.9	
1,1-Dichloroethane	70	4.5	2.3	2	< 2.0	1.8		1.1	1.1		3.2	3.1	
1,1-Dichloroethene	7	6.6	**9.2**	< 2.0	4.8	4.9		5.1	5.1		3.8	4.3	
1,2,4-Trimethylbenzene	NS	< 1.0	< 2.0	< 2.0	< 2.0	< 1.0		< 1.0	< 1.0		< 1.0	< 1.0	
1,2-Dichlorobenzene	600	< 1.0	< 2.0	< 2.0	< 2.0	< 1.0		< 1.0	< 1.0		< 1.0	< 1.0	
1,3,5-Trimethylbenzene	NS	< 1.0	< 2.0	< 2.0	< 2.0	< 1.0		< 1.0	< 1.0		< 1.0	< 1.0	
1,4-Dichlorobenzene	5	< 1.0	< 2.0	< 2.0	< 2.0	< 1.0		< 1.0	< 1.0		< 1.0	< 1.0	
1,4-Dioxane	0.3	< 50	< 100	< 100	< 100	< 50		< 50 *	< 50 *		< 50	< 50	
4-Isopropyltoluene	NS	< 1.0	< 2.0	< 2.0	< 2.0	< 1.0		< 1.0	< 1.0		< 1.0	< 1.0	
Acetone	6,300	< 50	< 100	< 100	< 100	81		< 50	< 50		< 50	< 50	
Benzene	5	< 1.0	< 2.0	< 2.0	< 2.0	< 1.0		< 1.0	< 1.0		< 1.0	< 1.0	
Carbon disulfide	NS	< 10	< 20	< 20	< 20	< 10		< 10	< 10		< 10	< 10	
Chlorobenzene	100	< 1.0	< 2.0	< 2.0	< 2.0	< 1.0		< 1.0	< 1.0		< 1.0	< 1.0	
Chloroform	70	< 1.0	< 2.0	< 2.0	< 2.0	< 1.0		< 1.0	< 1.0		< 1.0	< 1.0	
cis-1,2-Dichloroethene	70	2.4	< 2.0	< 2.0	3.4	3.6		< 1.0	< 1.0		3.2	3.4	
Freon 11	NS	< 1.0	< 2.0	< 2.0	< 2.0	< 1.0		< 1.0	< 1.0		< 1.0	< 1.0	
Methyl tert-butyl ether	70	23	12	< 2.0	< 2.0	< 1.0		< 1.0	< 1.0		< 1.0	1.1	
Naphthalene	140	< 5.0	< 10	< 10	< 10	< 5.0		< 5.0	< 5.0		< 5.0	< 5.0	
tert-Amyl Methyl Ether	NS	< 5.0	< 10	< 10	< 10	< 5.0		< 5.0	< 5.0		< 5.0	< 5.0	
Tetrachloroethene	5	< 1.0	< 2.0	< 2.0	< 2.0	< 1.0		< 1.0	< 1.0		< 1.0	< 1.0	
trans-1,2-Dichloroethene	100	< 1.0	< 2.0	< 2.0	< 2.0	< 1.0		< 1.0	< 1.0		< 1.0	< 1.0	
Trichloroethene	5	**170**	**130**	**140**	**83**	**85**		**70**	**70**		**98**	**97**	
Method EPA522, µg/L													
1,4-Dioxane	0.3						**1.2**			**0.56**			**2.2**
Method SW8260B_SIM, µg/L													
1,4-Dioxane	0.3	**6.1**											
Method SW8260C_SIM, µg/L													
1,4-Dioxane	0.3		**6.8**				< 1.6						

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MA-GW-1 = MCP, 310 CMR 40, Groundwater Stds Category GW-1.

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

Analyte	Location ID Sample Date Sample Type MA-GW-1	MW-1026D 22-Mar-13 N	MW-1026D 1-Oct-13 N
Method SW8260C, µg/L			
1,1,1-Trichloroethane	200	< *1.0*	< *1.0*
1,1-Dichloroethane	70	< *1.0*	< *1.0*
1,1-Dichloroethene	7	< *1.0*	< *1.0*
1,2,4-Trimethylbenzene	NS	< *1.0*	< *1.0*
1,2-Dichlorobenzene	600	< *1.0*	< *1.0*
1,3,5-Trimethylbenzene	NS	< *1.0*	< *1.0*
1,4-Dichlorobenzene	5	< *1.0*	< *1.0*
1,4-Dioxane	0.3	< *50*	< *50*
4-Isopropyltoluene	NS	< *1.0*	< *1.0*
Acetone	6,300	< *50*	< *50*
Benzene	5	< *1.0*	< *1.0*
Carbon disulfide	NS	< *10*	< *10*
Chlorobenzene	100	< *1.0*	< *1.0*
Chloroform	70	< *1.0*	< *1.0*
cis-1,2-Dichloroethene	70	2.4	11
Freon 11	NS	< *1.0*	< *1.0*
Methyl tert-butyl ether	70	< *1.0*	< *1.0*
Naphthalene	140	< *5.0*	< *5.0*
tert-Amyl Methyl Ether	NS	< *5.0*	< *5.0*
Tetrachloroethene	5	< *1.0*	< *1.0*
trans-1,2-Dichloroethene	100	< *1.0*	< *1.0*
Trichloroethene	5	**19**	**89**
Method EPA522, µg/L			
1,4-Dioxane	0.3	**0.43**	**0.39**
Method SW8260B_SIM, µg/L			
1,4-Dioxane	0.3	< *1.6*	
Method SW8260C_SIM, µg/L			
1,4-Dioxane	0.3		

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MA-GW-1 = MCP, 310 CMR 40, Groundwater Stds Category GW-1.

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

Analyte	Location ID Sample Date Sample Type MA-GW-1	MW-1027 20-Mar-13 N	MW-1027 2-Oct-13 N	MW-1027 10-Apr-14 N	MW-1027 4-Sep-14 N	MW-1027 31-Mar-15 N
Method SW8260C, µg/L						
1,1,1-Trichloroethane	200	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethane	70	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethene	7	< 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
1,2-Dichlorobenzene	600	< 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
1,4-Dichlorobenzene	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,4-Dioxane	0.3	< 50	< 50	< 50	< 50	< 50
4-Isopropyltoluene	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Acetone	6,300	< 50	< 50	< 50	< 50	< 50
Benzene	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Carbon disulfide	NS	< 10	19	< 10	< 10	< 10
Chlorobenzene	100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
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
Freon 11	NS	< 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
Naphthalene	140	< 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
Tetrachloroethene	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
trans-1,2-Dichloroethene	100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethene	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Method EPA522, µg/L						
1,4-Dioxane	0.3					
Method SW8260B_SIM, µg/L						
1,4-Dioxane	0.3					
Method SW8260C_SIM, µg/L						
1,4-Dioxane	0.3					

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All analyses performed by TestAmerica - Buffalo, NY and Burlington, VT.

MA-GW-1 = MCP, 310 CMR 40, Groundwater Stds Category GW-1.

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

Analyte	Location ID Sample Date Sample Type MA-GW-1	MW-1028 20-Mar-13 N	MW-1028 2-Oct-13 N	MW-1028 17-Oct-13 N	MW-1028 10-Apr-14 N	MW-1028 4-Sep-14 N
Method SW8260C, µg/L						
1,1,1-Trichloroethane	200	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethane	70	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethene	7	< 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
1,2-Dichlorobenzene	600	< 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
1,4-Dichlorobenzene	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,4-Dioxane	0.3	< 50	< 50 *	< 50	< 50	< 50
4-Isopropyltoluene	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Acetone	6,300	< 50	< 50	< 50	80	< 50
Benzene	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Carbon disulfide	NS	< 10	< 10	< 10	< 10	< 10
Chlorobenzene	100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloroform	70	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
cis-1,2-Dichloroethene	70	1.6	1.2	1.2	< 1.0	1.3
Freon 11	NS	< 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
Naphthalene	140	< 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
Tetrachloroethene	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
trans-1,2-Dichloroethene	100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethene	5	**6.8**	**6.4**	**6.1**	3.3	**6**
Method EPA522, µg/L						
1,4-Dioxane	0.3					
Method SW8260B_SIM, µg/L						
1,4-Dioxane	0.3					
Method SW8260C_SIM, µg/L						
1,4-Dioxane	0.3					

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MA-GW-1 = MCP, 310 CMR 40, Groundwater Stds Category GW-1.

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

Analyte	Location ID Sample Date Sample Type MA-GW-1	MW-1030 20-Mar-13 N	MW-1030 1-Oct-13 N	MW-1030 17-Oct-13 N	MW-1030 10-Apr-14 N	MW-1030 4-Sep-14 N	MW-1030 31-Mar-15 N
Method SW8260C, µg/L							
1,1,1-Trichloroethane	200	4.1	3.6	1.9	4.1	5.7	4.9
1,1-Dichloroethane	70	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethene	7	2.4	2.2	< 1.0	2.7	2.2	1.9
1,2,4-Trimethylbenzene	NS	< 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
1,3,5-Trimethylbenzene	NS	< 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
1,4-Dioxane	0.3	< 50	< 50	< 50	< 50	< 50	< 50
4-Isopropyltoluene	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Acetone	6,300	< 50	< 50	< 50	76	< 50	< 50
Benzene	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Carbon disulfide	NS	< 10	< 10	< 10	< 10	< 10	< 10
Chlorobenzene	100	< 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
cis-1,2-Dichloroethene	70	< 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
Methyl tert-butyl ether	70	12	38	2.4	1.7	2.5	1.2
Naphthalene	140	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
tert-Amyl Methyl Ether	NS	< 5.0	7.9	< 5.0	< 5.0	< 5.0	< 5.0
Tetrachloroethene	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
trans-1,2-Dichloroethene	100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethene	5	**23**	**25**	**13**	**39**	**41**	**31**
Method EPA522, µg/L							
1,4-Dioxane	0.3						
Method SW8260B_SIM, µg/L							
1,4-Dioxane	0.3						
Method SW8260C_SIM, µg/L							
1,4-Dioxane	0.3						

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

Analyte	Location ID Sample Date Sample Type MA-GW-1	MW-1031 21-Mar-13 N	MW-1031 1-Oct-13 N	MW-1031 10-Apr-14 N	MW-1031 4-Sep-14 N
Method SW8260C, µg/L					
1,1,1-Trichloroethane	200	< 1.0	5.4	< 1.0	< 1.0
1,1-Dichloroethane	70	< 1.0	2.2	< 1.0	< 1.0
1,1-Dichloroethene	7	< 1.0	6.2	< 1.0	< 1.0
1,2,4-Trimethylbenzene	NS	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichlorobenzene	600	< 1.0	< 1.0	< 1.0	< 1.0
1,3,5-Trimethylbenzene	NS	< 1.0	< 1.0	< 1.0	< 1.0
1,4-Dichlorobenzene	5	< 1.0	< 1.0	< 1.0	< 1.0
1,4-Dioxane	0.3	< 50	< 50	< 50	< 50 *
4-Isopropyltoluene	NS	< 1.0	< 1.0	< 1.0	< 1.0
Acetone	6,300	< 50	< 50	79	< 50
Benzene	5	< 1.0	< 1.0	< 1.0	< 1.0
Carbon disulfide	NS	< 10	< 10	< 10	< 10
Chlorobenzene	100	< 1.0	< 1.0	< 1.0	< 1.0
Chloroform	70	< 1.0	< 1.0	< 1.0	< 1.0
cis-1,2-Dichloroethene	70	< 1.0	< 1.0	< 1.0	< 1.0
Freon 11	NS	< 1.0	< 1.0	< 1.0	< 1.0
Methyl tert-butyl ether	70	1.1	64	< 1.0	< 1.0
Naphthalene	140	< 5.0	< 5.0	< 5.0	< 5.0
tert-Amyl Methyl Ether	NS	< 5.0	18	< 5.0	< 5.0
Tetrachloroethene	5	< 1.0	< 1.0	< 1.0	< 1.0
trans-1,2-Dichloroethene	100	< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethene	5	2.3	**88**	2.9	< 1.0
Method EPA522, µg/L					
1,4-Dioxane	0.3				
Method SW8260B_SIM, µg/L					
1,4-Dioxane	0.3				
Method SW8260C_SIM, µg/L					
1,4-Dioxane	0.3				

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MA-GW-1 = MCP, 310 CMR 40, Groundwater Stds Category GW-1.

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

Analyte	Location ID Sample Date Sample Type MA-GW-1	MW-1032 19-Mar-13 N	MW-1032 19-Mar-13 FD	MW-1032 1-Oct-13 N	MW-1032 10-Apr-14 N	MW-1032 4-Sep-14 N
Method SW8260C, µg/L						
1,1,1-Trichloroethane	200	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*
1,1-Dichloroethane	70	1.3	1.3	1.2	1	1.4
1,1-Dichloroethene	7	1.7	1.6	1.7	1.9	2
1,2,4-Trimethylbenzene	NS	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*
1,2-Dichlorobenzene	600	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*
1,3,5-Trimethylbenzene	NS	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*
1,4-Dichlorobenzene	5	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*
1,4-Dioxane	0.3	*< 50*	*< 50*	*< 50*	*< 50*	*< 50 **
4-Isopropyltoluene	NS	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*
Acetone	6,300	*< 50*	*< 50*	*< 50*	*< 50*	*< 50*
Benzene	5	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*
Carbon disulfide	NS	*< 10*	*< 10*	*< 10*	*< 10*	*< 10*
Chlorobenzene	100	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*
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*
Freon 11	NS	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*
Methyl tert-butyl ether	70	**86**	**85**	**94**	4.1	4.4
Naphthalene	140	*< 5.0*	*< 5.0*	*< 5.0*	*< 5.0*	*< 5.0*
tert-Amyl Methyl Ether	NS	18	18	17	*< 5.0*	*< 5.0*
Tetrachloroethene	5	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*
trans-1,2-Dichloroethene	100	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*	*< 1.0*
Trichloroethene	5	**12**	**11**	**10**	**11**	**8.6**
Method EPA522, µg/L						
1,4-Dioxane	0.3					
Method SW8260B_SIM, µg/L						
1,4-Dioxane	0.3					
Method SW8260C_SIM, µg/L						
1,4-Dioxane	0.3					

Notes:
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FD = Field Duplicate Sample
Units are in µg/L = micrograms per liter
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All analyses performed by TestAmerica - Buffalo, NY and Burlington, VT.

MA-GW-1 = MCP, 310 CMR 40, Groundwater Stds Category GW-1.

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

Analyte	Location ID Sample Date Sample Type MA-GW-1	MW-1033 20-Mar-13 N	MW-1033 20-Mar-13 FD	MW-1033 3-Oct-13 N	MW-1033 10-Apr-14 N	MW-1033 10-Apr-14 FD	MW-1033 14-Apr-14 N	MW-1033 4-Sep-14 N	MW-1033 9-Sep-14 N	MW-1033 31-Mar-15 N	MW-1033 2-Apr-15 N
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	1.5	1.4	< 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	0.3	< 50	< 50	< 50	< 50	< 50		< 50		< 50	
4-Isopropyltoluene	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0		< 1.0		< 1.0	
Acetone	6,300	< 50	< 50	< 50	80	79		< 50		< 50	
Benzene	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0		< 1.0		< 1.0	
Carbon disulfide	NS	< 10	< 10	< 10	< 10	< 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	1.8	1.8	< 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	
trans-1,2-Dichloroethene	100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0		< 1.0		< 1.0	
Trichloroethene	5	**14**	**13**	**5.3**	< 1.0	< 1.0		< 1.0		< 1.0	
Method EPA522, µg/L											
1,4-Dioxane	0.3	**3.4**					**0.49**		**0.5**		**0.53**
Method SW8260B_SIM, µg/L											
1,4-Dioxane	0.3	**4.7**									
Method SW8260C_SIM, µg/L											
1,4-Dioxane	0.3			**2.3**			< 1.6				

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Shaded = Analyte concentration exceeded applicable MCP criteria
* = Laboratory Control Sample or Laboratory Control Sample Duplicate exceeds the control limits.
All analyses performed by TestAmerica - Buffalo, NY and Burlington, VT.

MA-GW-1 = MCP, 310 CMR 40, Groundwater Stds Category GW-1.

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

Analyte	Location ID Sample Date Sample Type MA-GW-1	MW-1034 20-Mar-13 N	MW-1034 2-Oct-13 N	MW-1034 17-Oct-13 N	MW-1034 10-Apr-14 N	MW-1034 14-Apr-14 N	MW-1034 4-Sep-14 N	MW-1034 4-Sep-14 FD	MW-1034 9-Sep-14 N	MW-1034 31-Mar-15 N	MW-1034 31-Mar-15 FD	MW-1034 2-Apr-15 N
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	
1,1-Dichloroethane	70	< 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	
1,2,4-Trimethylbenzene	NS	< 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	
1,3,5-Trimethylbenzene	NS	< 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	
1,4-Dioxane	0.3	< 50	< 50	< 50	< 50		< 50 *	< 50 *		< 50	< 50	
4-Isopropyltoluene	NS	< 1.0	< 1.0	< 1.0	< 1.0		< 1.0	< 1.0		< 1.0	< 1.0	
Acetone	6,300	< 50	< 50	< 50	81		< 50	< 50		< 50	< 50	
Benzene	5	< 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	
Chlorobenzene	100	< 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	
cis-1,2-Dichloroethene	70	16	16	15	1.9		9	9.4		11	11	
Freon 11	NS	< 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	
Naphthalene	140	< 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	
Tetrachloroethene	5	< 1.0	< 1.0	< 1.0	< 1.0		< 1.0	< 1.0		< 1.0	< 1.0	
trans-1,2-Dichloroethene	100	< 1.0	< 1.0	1.1	< 1.0		< 1.0	< 1.0		1.1	1.1	
Trichloroethene	5	**39**	**44**	**51**	**5**		**29**	**30**		**35**	**34**	
Method EPA522, µg/L												
1,4-Dioxane	0.3	**0.59**	**0.63**			**0.32**			< 0.20			< 0.20
Method SW8260B_SIM, µg/L												
1,4-Dioxane	0.3	< 1.6										
Method SW8260C_SIM, µg/L												
1,4-Dioxane	0.3					< 1.6						

Notes:
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NS = No Standard
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Units are in µg/L = micrograms per liter
Shaded = Analyte concentration exceeded applicable MCP criteria
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All analyses performed by TestAmerica - Buffalo, NY and Burlington, VT.

MA-GW-1 = MCP, 310 CMR 40, Groundwater Stds Category GW-1.

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

Analyte	Location ID Sample Date Sample Type MA-GW-1	MW-217D 21-Mar-13 N	MW-217D 21-Mar-13 FD	MW-217D 3-Oct-13 N	MW-217D 10-Apr-14 N	MW-217D 4-Sep-14 N	MW-217D 31-Mar-15 N
Method SW8260C, µg/L							
1,1,1-Trichloroethane	200	< 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
1,1-Dichloroethene	7	< 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
1,2-Dichlorobenzene	600	< 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
1,4-Dichlorobenzene	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,4-Dioxane	0.3	< 50	< 50	< 50	< 50	< 50 *	< 50
4-Isopropyltoluene	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Acetone	6,300	< 50	< 50	< 50	< 50	< 50	< 50
Benzene	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Carbon disulfide	NS	< 10	< 10	< 10	< 10	< 10	< 10
Chlorobenzene	100	< 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
cis-1,2-Dichloroethene	70	< 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
Methyl tert-butyl ether	70	< 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
tert-Amyl Methyl Ether	NS	< 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
trans-1,2-Dichloroethene	100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethene	5	1.9	1.9	3	< 1.0	< 1.0	1.4
Method EPA522, µg/L							
1,4-Dioxane	0.3						
Method SW8260B_SIM, µg/L							
1,4-Dioxane	0.3						
Method SW8260C_SIM, µg/L							
1,4-Dioxane	0.3						

Notes:
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NS = No Standard
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Units are in µg/L = micrograms per liter
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All analyses performed by TestAmerica - Buffalo, NY and Burlington, VT.

MA-GW-1 = MCP, 310 CMR 40, Groundwater Stds Category GW-1.

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

Analyte	Location ID Sample Date Sample Type MA-GW-1	MW-217M 21-Mar-13 N	MW-217M 3-Oct-13 N	MW-217M 10-Apr-14 N	MW-217M 4-Sep-14 N	MW-217M 31-Mar-15 N
Method SW8260C, µg/L						
1,1,1-Trichloroethane	200	< 1.0	< 4.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethane	70	2	< 4.0	2.6	2.3	2.4
1,1-Dichloroethene	7	< 1.0	< 4.0	< 1.0	1	< 1.0
1,2,4-Trimethylbenzene	NS	< 1.0	< 4.0	< 1.0	< 1.0	< 1.0
1,2-Dichlorobenzene	600	1.4	< 4.0	1.8	2.1	1.2
1,3,5-Trimethylbenzene	NS	< 1.0	< 4.0	< 1.0	< 1.0	< 1.0
1,4-Dichlorobenzene	5	< 1.0	< 4.0	< 1.0	< 1.0	< 1.0
1,4-Dioxane	0.3	< 50	< 200	< 50	< 50 *	< 50
4-Isopropyltoluene	NS	< 1.0	< 4.0	< 1.0	< 1.0	< 1.0
Acetone	6,300	< 50	< 200	< 50	< 50	< 50
Benzene	5	< 1.0	< 4.0	< 1.0	< 1.0	< 1.0
Carbon disulfide	NS	< 10	< 40	< 10	< 10	< 10
Chlorobenzene	100	< 1.0	< 4.0	< 1.0	< 1.0	< 1.0
Chloroform	70	< 1.0	< 4.0	< 1.0	< 1.0	< 1.0
cis-1,2-Dichloroethene	70	< 1.0	< 4.0	1.1	1.1	1
Freon 11	NS	< 1.0	< 4.0	< 1.0	< 1.0	< 1.0
Methyl tert-butyl ether	70	**250**	**250**	10	7.6	7.6
Naphthalene	140	< 5.0	< 20	< 5.0	< 5.0	< 5.0
tert-Amyl Methyl Ether	NS	86	76	5.6	< 5.0	7.9
Tetrachloroethene	5	< 1.0	< 4.0	< 1.0	< 1.0	< 1.0
trans-1,2-Dichloroethene	100	< 1.0	< 4.0	< 1.0	< 1.0	< 1.0
Trichloroethene	5	**6.4**	**5.1**	**8.9**	**8.7**	**7.6**
Method EPA522, µg/L						
1,4-Dioxane	0.3					
Method SW8260B_SIM, µg/L						
1,4-Dioxane	0.3					
Method SW8260C_SIM, µg/L						
1,4-Dioxane	0.3					

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
Shaded = Analyte concentration exceeded applicable MCP criteria
* = Laboratory Control Sample or Laboratory Control Sample Duplicate exceeds the control limits.
All analyses performed by TestAmerica - Buffalo, NY and Burlington, VT.

MA-GW-1 = MCP, 310 CMR 40, Groundwater Stds Category GW-1.

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

Analyte	Location ID Sample Date Sample Type MA-GW-1	MW-217S 21-Mar-13 N	MW-217S 3-Oct-13 N	MW-217S 3-Oct-13 FD	MW-217S 10-Apr-14 N	MW-217S 4-Sep-14 N	MW-217S 31-Mar-15 N
Method SW8260C, µg/L							
1,1,1-Trichloroethane	200	< 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
1,1-Dichloroethene	7	< 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
1,2-Dichlorobenzene	600	< 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
1,4-Dichlorobenzene	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,4-Dioxane	0.3	< 50	< 50	< 50	< 50	< 50 *	< 50
4-Isopropyltoluene	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Acetone	6,300	< 50	< 50	< 50	70	< 50	< 50
Benzene	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Carbon disulfide	NS	< 10	< 10	< 10	< 10	< 10	< 10
Chlorobenzene	100	< 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
cis-1,2-Dichloroethene	70	< 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
Methyl tert-butyl ether	70	< 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
tert-Amyl Methyl Ether	NS	< 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
trans-1,2-Dichloroethene	100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethene	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Method EPA522, µg/L							
1,4-Dioxane	0.3						
Method SW8260B_SIM, µg/L							
1,4-Dioxane	0.3						
Method SW8260C_SIM, µg/L							
1,4-Dioxane	0.3						

Notes:
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MA-GW-1 = MCP, 310 CMR 40, Groundwater Stds Category GW-1.

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

Location ID	Measurement Date	Depth to Water (ft)
SEN-1D	19-Apr-10	6.64
	05-Oct-10	12.93
	04-Apr-11	8.9
	01-Oct-13	13.72
	17-Mar-15	12.39
SEN-1M	19-Apr-10	6.42
	05-Oct-10	12.87
	04-Apr-11	8.74
	01-Oct-13	13.71
SEN-2D	19-Apr-10	5.57
	05-Oct-10	9.87
	04-Apr-11	7.01
	01-Oct-13	10.07
	20-Aug-14	10.13
SEN-2M	19-Apr-10	5.66
	05-Oct-10	9.96
	04-Apr-11	7.08
	01-Oct-13	10.16
SEN-3	19-Apr-10	9.41
	05-Oct-10	17
	04-Apr-11	13.12
	01-Oct-13	17.09
	20-Aug-14	18

Notes:
Units are in ft = feet

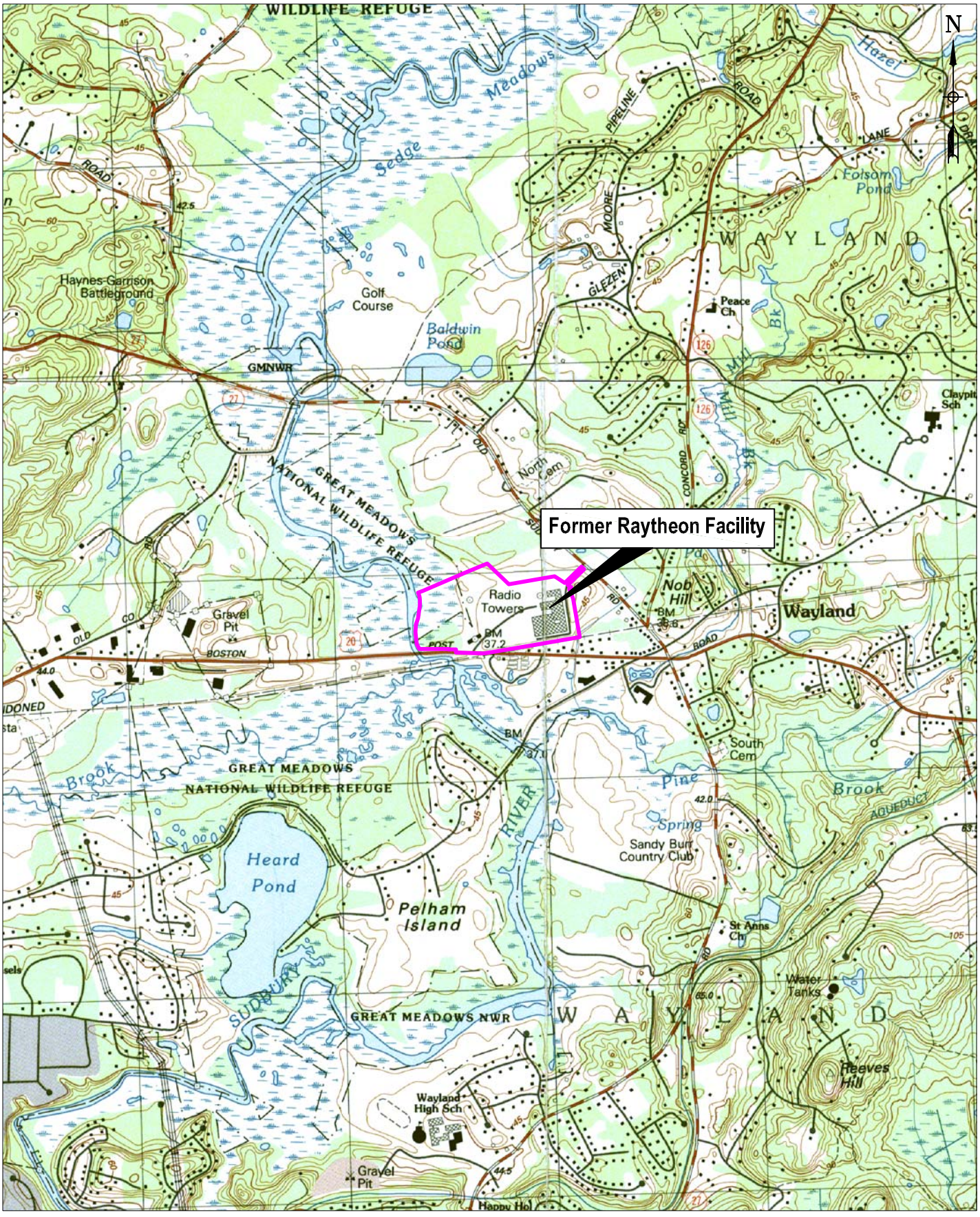
Table 5
Summary of Groundwater Analytical Data - Cow Common Conservation Area
Former Raytheon Facility
Wayland, Massachusetts

Analyte	Location ID Sample Date Sample Type MA-GW-1	SEN-1D 31-Mar-15 N	SEN-2D 4-Sep-14 N	SEN-2M 4-Sep-14 N	SEN-3 4-Sep-14 N
Method SW8260C, µg/L					
Carbon disulfide	NS	< 10	< 10	< 10	< 10
Chloroform	70	< 1.0	< 1.0	< 1.0	< 1.0
cis-1,2-Dichloroethene	70	2.3	< 1.0	< 1.0	< 1.0
Ethyl ether	NS	< 1.0	< 1.0	< 1.0	< 1.0
Ethyl-tert-butyl ether	NS	< 5.0	< 5.0	< 5.0	< 5.0
Methylene chloride	5	< 1.0	< 1.0	< 1.0	< 1.0
Toluene	1,000	< 1.0	< 1.0	< 1.0	< 1.0

Notes:
< = Compound not detected. Reportable detection lmit shown.
Empty cells = Not analyzed
NS = No Standard
N = Normal Environmental Sample
Units are in µg/L = micrograms per liter
All analyses performed by TestAmerica - Buffalo, NY.

MA-GW-1 = MCP, 310 CMR 40, Groundwater Stds 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)

Approximate Northern Area
Groundwater Remediation Activity Area
(Formerly RTN 3-22408)

Approximate Southern Area
Groundwater Remediation Activity Area

Infiltration Gallery

Northern Area Wetlands Mitigation Area

Sudbury River

BOSTON POST ROAD ROUTE 20 (PUBLIC-VARIABLE WIDTH)(STATE HIGHWAY)

MBTA Easement

ROADSIDE COMMERCIAL ZONE

ROADSIDE COMMERCIAL ZONE

UNNAMED BROOK

N

Legend

- Existing Building
- Chain Link Fencing
- Delineated Wetland Boundary
- Site Boundary (Approximate)
- Wetland Mitigation Area
- Approximate Remediation Activity Area
- Former Building Footprint

Scale (1"=180')

90 0 45 90 180 360

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

ERM

G:\CAD\Drawings\Raytheon\Wayland\Figure 2 – Remediation Site Plan.dwg

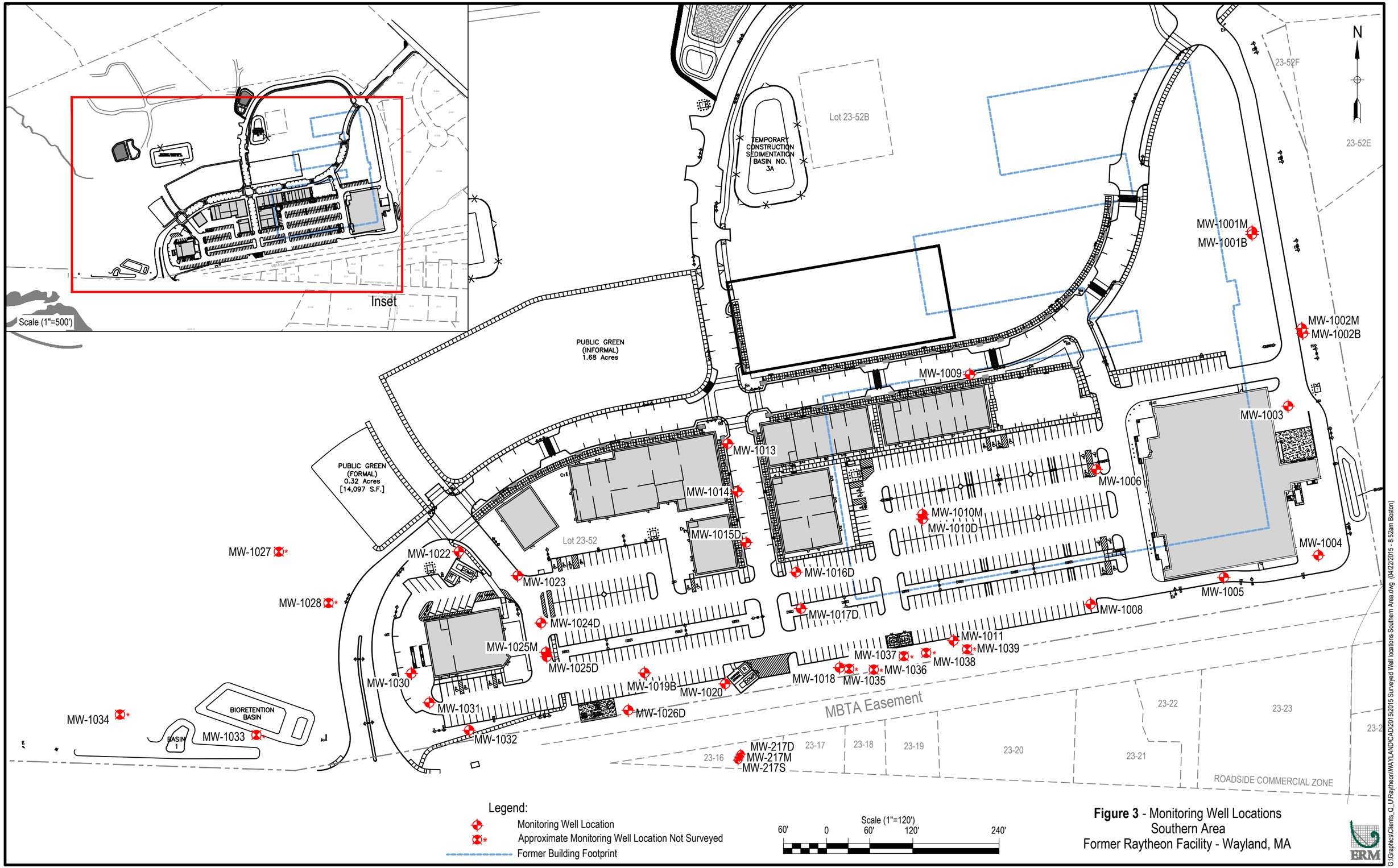


Figure 3 - Monitoring Well Locations
Southern Area
Former Raytheon Facility - Wayland, MA

G:\Graphics\Clients_Q_U\Raytheon\WAYLAND\CAD\2015\2015 Surveyed Well locations Southern Area.dwg (04/22/2015 - 8:52am Boston)

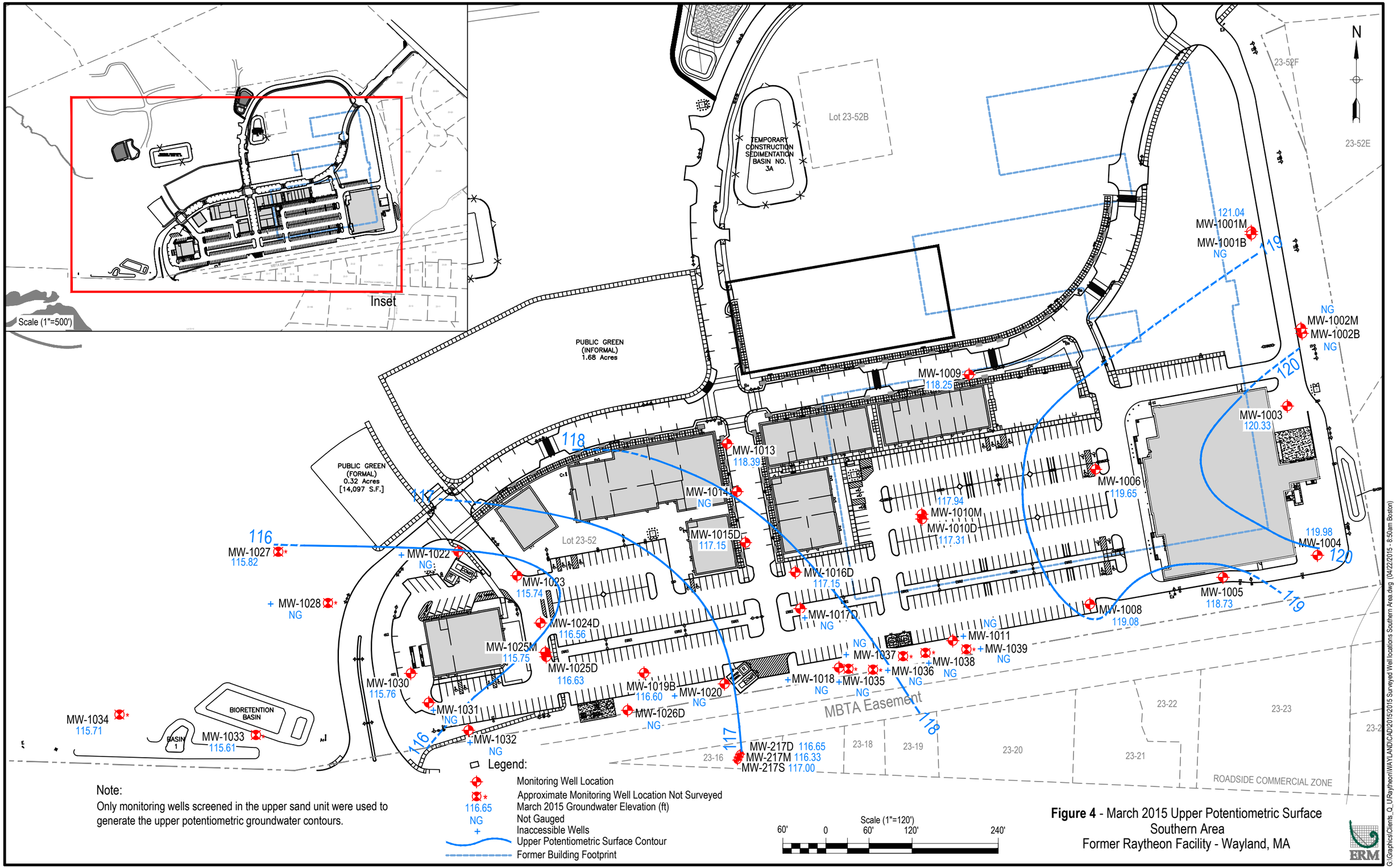


Figure 4 - March 2015 Upper Potentiometric Surface
Southern Area
Former Raytheon Facility - Wayland, MA

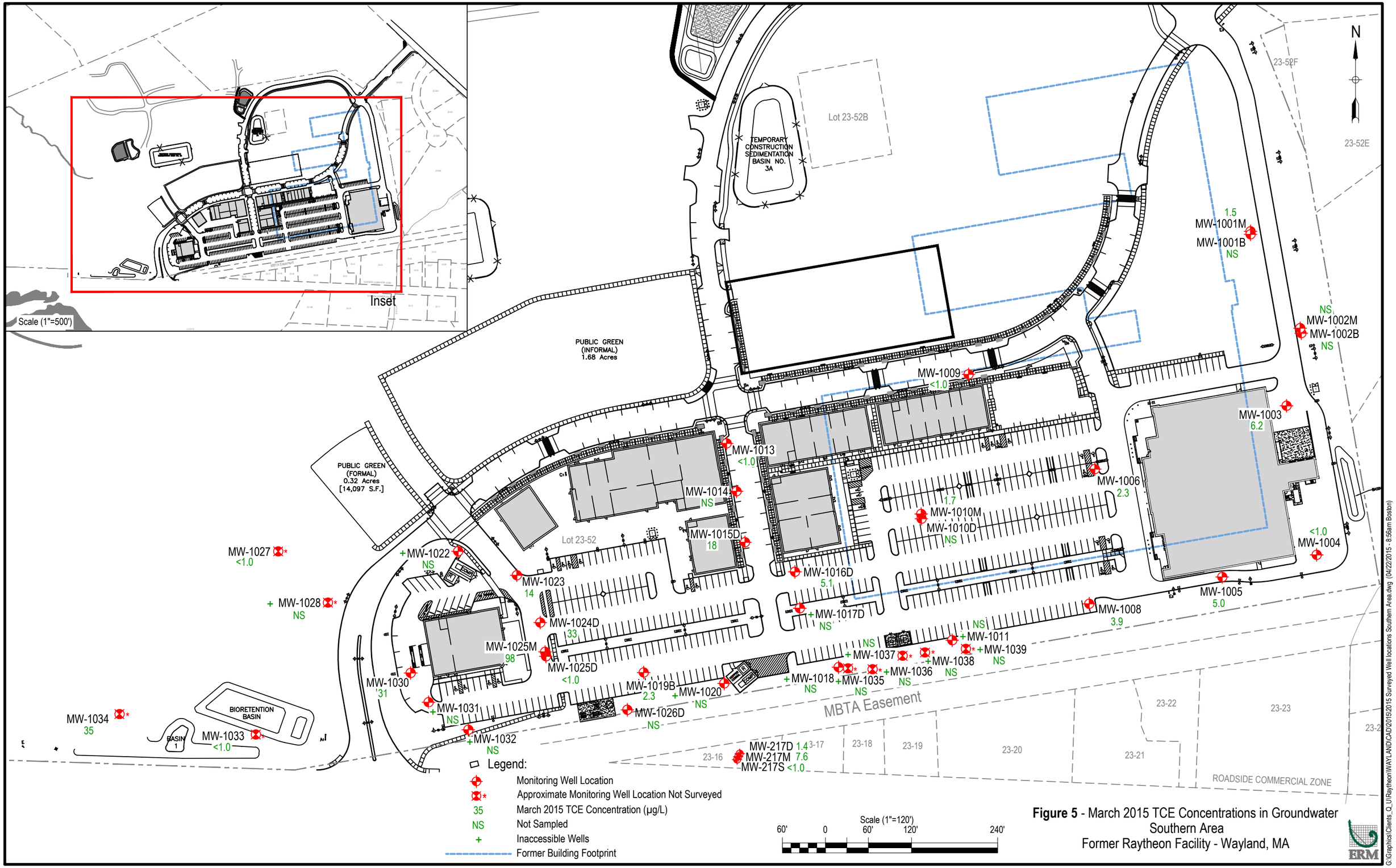
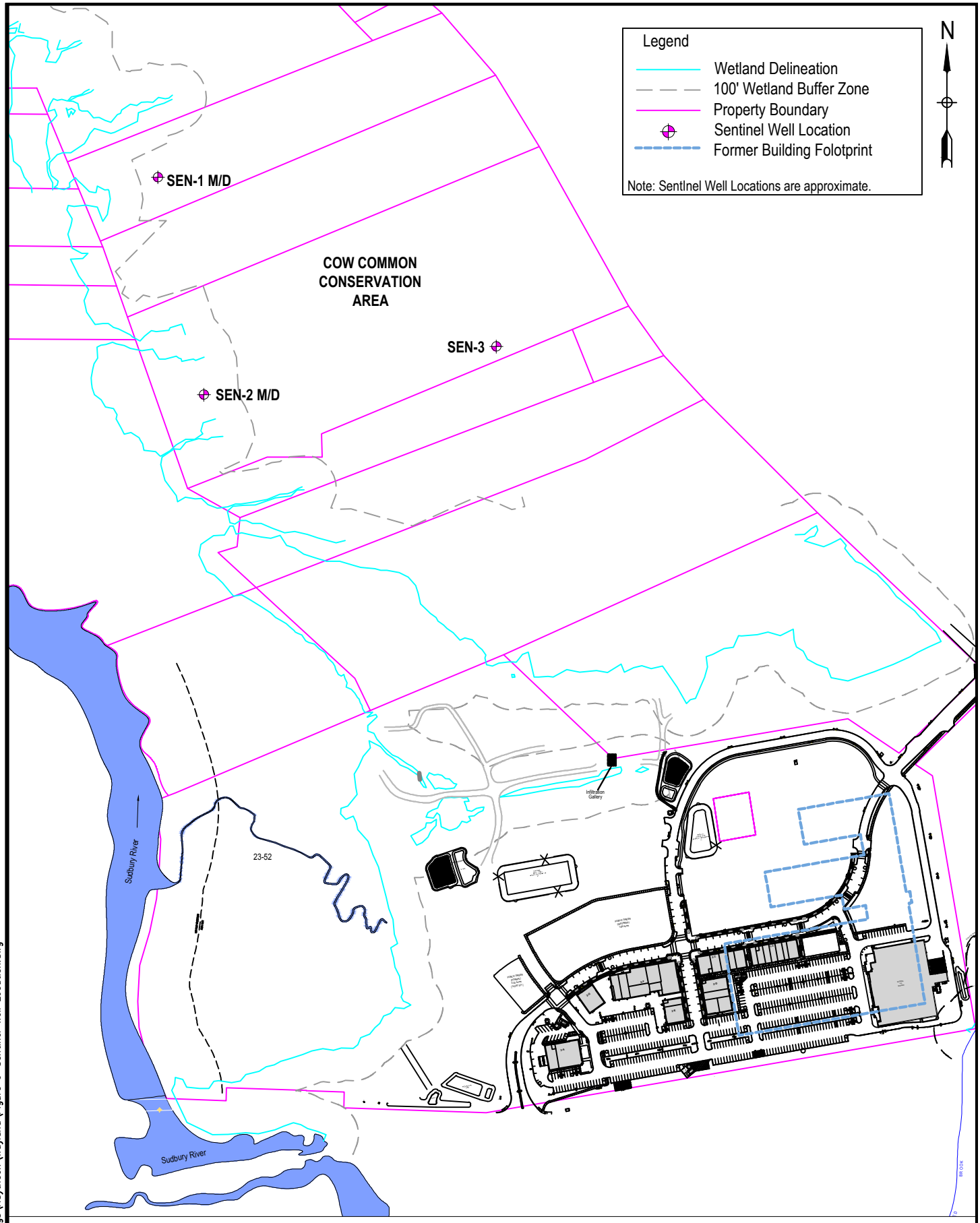


Figure 5 - March 2015 TCE Concentrations in Groundwater
Southern Area
Former Raytheon Facility - Wayland, MA

G:\Graphics\Clients_Q_U\Raytheon\WAYLAND\CAD\2015\2015 Surveyed Well locations Southern Area.dwg (04/22/2015 - 8:56am Boston)



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

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

ERM

Appendix A
IESI Memorandum

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

MEMORANDUM

To: Jerry, Cellucci, Esq., 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: May 10, 2015

At the request of Raytheon Company (Raytheon), Innovative Engineering Solutions Inc. (IESI) has prepared this memorandum outlining the bioremediation activities (at the Northern Area) between October 31, 2014 and April 30, 2015 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-6, REW-7, REW-8, REW-9, REW-11 and REW-12 (extraction rate of approximately 1.75 gallons per minute overall; see site map-Figure 1). Groundwater was injected into different wells at different times, but generally the following wells received recirculated groundwater during the reporting period: IW-1 to IW-17, RIW-8 to RIW-10, RIW-12 to RIW-14 and RIW-16. Other wells did receive periodic groundwater injection. No groundwater was injected into wells RIW4 to RIW-7. No electron donor was injected during the reporting period. Approximately 2 drums of potassium hydroxide were added during the reporting period (Table 1).

Approximate recirculation groundwater volumes are also listed in Table 1. In total, the system recirculated approximately 478,193 gallons of groundwater during the past six months. Some of the extraction pumps did not operate during January to March 2015 (due to fouling or no solar power), and due to the heavy snow cover at the site, repairs could not be conducted. In addition, many of the solar panels were covered with snow for prolonged periods of time and as such the entire system was not operational. In total, the recirculation system did not fully operate during much of the winter and the resultant extraction/recirculation rates were low.

The system will continue to operate in 2015 as needed. Additional electron donor and pH buffer injections are planned throughout the year beginning in May 2015.

2. Collection of Groundwater Elevation Data

Groundwater elevation data was collected from selected wells in the Northern Area on April 3, 2015. The data is compiled and presented in Table 2. Figure 2 presents interpreted groundwater elevation contour maps for the April 2015 measurement event. Consistent with past groundwater elevation measurements, groundwater flow is to the 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 January, 2015 and in April, 2015. The January 2015 analytical data is summarized in Table 3 and the April 2015 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 Spectrum Analytical of North Kingstown, RI for a variety of biogeochemical parameters (dissolved gases, anions, organic acids, total organic carbon {TOC}, ammonia, ortho-phosphate, and total iron). Volatile organic compound (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 C 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 ethene/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 near complete dechlorination at wells MW-562 (see graphs in Attachment C), significant groundwater quality improvement is also observed at wells REW-1, REW-4, REW-5, MW-261S, MW-551, MW-552, MW-553, MW-265M, MW-560, MW-561 newly installed MW-563 and wells REW-6 to REW-12 within the expanded treatment zone. In general, the areas upgradient of well MW-563 have been nearly fully remediated and significant progress is ongoing in the more downgradient portions of the site. TOC has been detected at well MW-563 and wells REW-6 to REW-12 indicating that the expanded remediation system is already affecting these areas. TOC has also been detected at well MW-267M and MW-268M, indicating its widespread distribution across the project site. There has been a recent drop in groundwater pH and efforts are underway to neutralize the pH with potassium hydroxide addition.

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. Correlation between sample duplicates is considered acceptable. The laboratory blanks were free of detectable VOCs.

Acetone, a fermentation product of many electron donors, is being produced at several locations within the treatment area in concentrations up to 7,200 µg/L (MW-261S in April 2015). It is noteworthy that acetone is generally only present near injection locations, and is degraded and does not reach more downgradient locations in significant concentrations. The generation of acetone and methyl ethyl ketone (MEK) 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, April 3, 2015
Table 3: Summary of Analytical Data, January, 2015
Table 4: Summary of Analytical Data, April 2015

Figures

Figure 1: Groundwater Treatment System Expansion As-Built
Figure 2: Mid-Depth Groundwater Contour Map, April 3, 2015

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
November 1, 2014 to April 30, 2015

Date (week of)	Injection Location	Additive	Estimated Weight
11/7/2014	IW-1 to IW-17, RIW-1 to RIW-3, RIW-8 to RIW-10, RIW-12 to RIW-14 and RIW-16.	**Potasium Hydroxide (1 drum)**	**600**
11/14/2014	IW-1 to IW-17, RIW-1 to RIW-3, RIW-8 to RIW-10, RIW-12 to RIW-14 and RIW-16.	**Potasium Hydroxide (1 drum)**	**600**

Recirculation Volumes

Well	REW-1 (gallons)	REW-4 (gallons)	REW-5 (gallons)	REW-6, REW-7, REW-8, REW-9, REW-11, REW-12
November 1, 2014 to April 30, 2015	Off	Off	Off	478,193
Total				
478,193				

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

Well Designation	Screen Length (feet)	Total Well Depth (feet)	Measuring Point Elevation	DTW 3-Apr-15	GW Elevation April 3, 2015
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	11.26	120.02
MW-263S	5	25	127.96	8.8	119.16
MW-263M	5	50	127.77	9.12	118.65
MW-264S	10	20	126.32	6.38	119.94
MW-264M	10	44	126.28	6.7	119.58
MW-264D	5	77	126.63	8.58	118.05
MW-265S	10	18	130.06	6	124.06
MW-265M	5	45	129.89	9.91	119.98
MW-265D	5	89	130.07	12.4	117.67
MW-266S	10	17	126.79	7.44	119.35
MW-266Ma	5	52	127.72	9.02	118.70
MW-266Mb	10	68	126.88	8.04	118.84
MW-266D	5	105	127.70	9.59	118.11
MW-266B	5	138	128.14	9.82	118.32
MW-267S	5	77	125.30	8.59	116.71
MW-267M	10	95	125.40	8	117.40
MW-267D	5	121	125.88	8.13	117.75
MW-267B	5	153	124.02	5.97	118.05
MW-268S	5	74	123.66	7.8	115.86
MW-268M	10	94	123.41	6.96	116.45
MW-268D	5	127	124.86	7.53	117.33
MW-268B	5	153	122.34	5.46	116.88
MW-269S	10	20	125.54	5.74	119.80
MW-269Ma	5	32	124.96	6.21	118.75
MW-269Mb	10	84	125.42	6.76	118.66
MW-269D	5	144	125.34	7.35	117.99
MW-551	5	26	129.30	7.98	121.32
MW-552	5	24	130.09	8.93	121.16
MW-553	5	20	130.33	9	121.33
MW-554S	5	196	120.93	NM	NM
MW-554Ma	10	196	120.82	NM	NM
MW-554Mb	10	196	120.96	NM	NM
MW-554D	10	196	120.96	NM	NM
MW-555S	5	194.5	121.10	NM	NM
MW-555Ma	10	194.5	121.25	NM	NM
MW-555Mb	10	194.5	121.26	NM	NM
MW-555D	10	194.5	121.19	NM	NM
MW-556S	5	165	120.93	NM	NM
MW-556M	10	165	121.00	NM	NM
MW-556D	10	165	120.92	NM	NM
MW-307	5	11	124.86	NM	NM
DEP-19S	5	15	120.79	NM	NM
DEP-19M	5	40	120.62	NM	NM
DEP-19D	5	50	120.78	NM	NM
DEP-20	5	50	119.98	NM	NM
DEP-21	5	50	119.18	NM	NM
MW-560	10	67	127.23	7.96	119.27
MW-561		53.65	127.90	8.16	119.74
MW-562	10	45	128.13	7.06	121.07
MW-563	30	70	125.70	5.38	120.32
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	4.82	121.41
REW-2	30	45	127.40	NM	NM
REW-3	30	45	127.15	NM	NM
REW-4	30	45	125.85	4.33	121.52
REW-5	30	45	125.80	5.44	120.36
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- Summary of Analytical Data, January 2015
Former Raytheon Facility, Wayland MA

Sample ID	units	MW-265M	MW-267S	MW-267M	MW-268M	Dup-MW-268M	MW 560	MW 561	MW 562	MW 563	REW-6	REW-7	REW-8	REW-11	REW-12	Trip Blank
Methane	ug/L	63000	38000	57000	56000	na	59000	52000	47000	45000	45000	40000	48000	31000	55000	ND
Ethene	ug/L	ND	ND	ND	ND	na	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethane	ug/L	ND	ND	ND	ND	na	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl Chloride	ug/L	2.7	16	10	120	150	8.5	61	69	25	25	77	42	110	75	ND
Chloroethane	ug/L	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
1,1-DCA	ug/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-cDCE	ug/L	5.5	290	11	2900	3000	2.7	ND	61	200	390	230	48	1500	270	ND
t-1,2 DCE	ug/L	ND	ND	ND	ND	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	ND	ND	ND	ND
TCE	ug/L	2.3	ND	ND	ND	ND	ND	ND	ND	ND	19	ND	1.4	330	18	ND
PCE	ug/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acetone	ug/L	1800	ND	ND	ND	ND	85	ND	64	100	ND	ND	63	ND	ND	ND
THF	ug/L	49	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
m,p xylene	ug/L	16	ND	3.8	ND	ND	3.1	26	2.1	4.2	ND	ND	2.6	ND	ND	ND
2-Butan. (MEK)	ug/L	350	200	240	ND	ND	200	100	330	320	110	58	79	ND	ND	ND
Ethyl benzene		3.8	ND	ND	ND	ND	ND	6.2	ND	1	ND	ND	ND	ND	ND	ND
Benzene	ug/L	ND	ND	ND	ND	ND	ND	ND	ND	1	ND	ND	ND	ND	ND	ND
Toluene	ug/L	15	240	47	ND	ND	49	160	33	46	110	110	38	ND	71	ND
1,2,4 TMB	ug/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
o-xylene	ug/L	4.5	ND	1.2	ND	ND	ND	5.3	ND	1.1	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	na
Chloride	mg/L	26	37	28	25	na	23	22	30	35	38	26	34	21	35	na
Nitrate	mg/L	0.1	0.1	0.1	0.1	na	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	na
Sulfate	mg/L	0.2	0.3	0.2	0.7	na	0.2	0.4	0.2	0.2	10	6	6	19	13	na
Lactate	mg/L	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Acetate	mg/L	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Propionate	mg/L	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Butyrate	mg/L	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Alkalinity	mg/L	840	390	550	260	na	1200	340	720	220	330	280	280	180	250	na
Manganese	mg/L	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
NH3-N	mg/L	0.2	0.4	0.6	0.2	na	0.2	0.3	0.4	0.1	0.3	0.2	0.2	0.2	0.2	na
PO4	mg/L	0.3	0.5	0.1	0.5	na	0.1	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	na
Sulfide	mg/L	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Total Iron	mg/L	190	130	230	50	na	190	65	450	180	13	79	75	42	6	na
COD	mg/L	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
TOC	mg/L	1400	3100	10	310	na	220	350	3500	500	630	190	10	180	180	na
pH	pH unit	5.8	5.7	6.8	6.5	na	6.8	5.7	5.3	6.1	6.5	6.9	6.9	6.6	6.7	na
H2 headspace	µM	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

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 Spectrum Analytical
1,4 dioxane by Method 522
all other VOCs by Method 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

Table 4- Summary of Analytical Data, April 2015
Former Raytheon Facility, Wayland MA

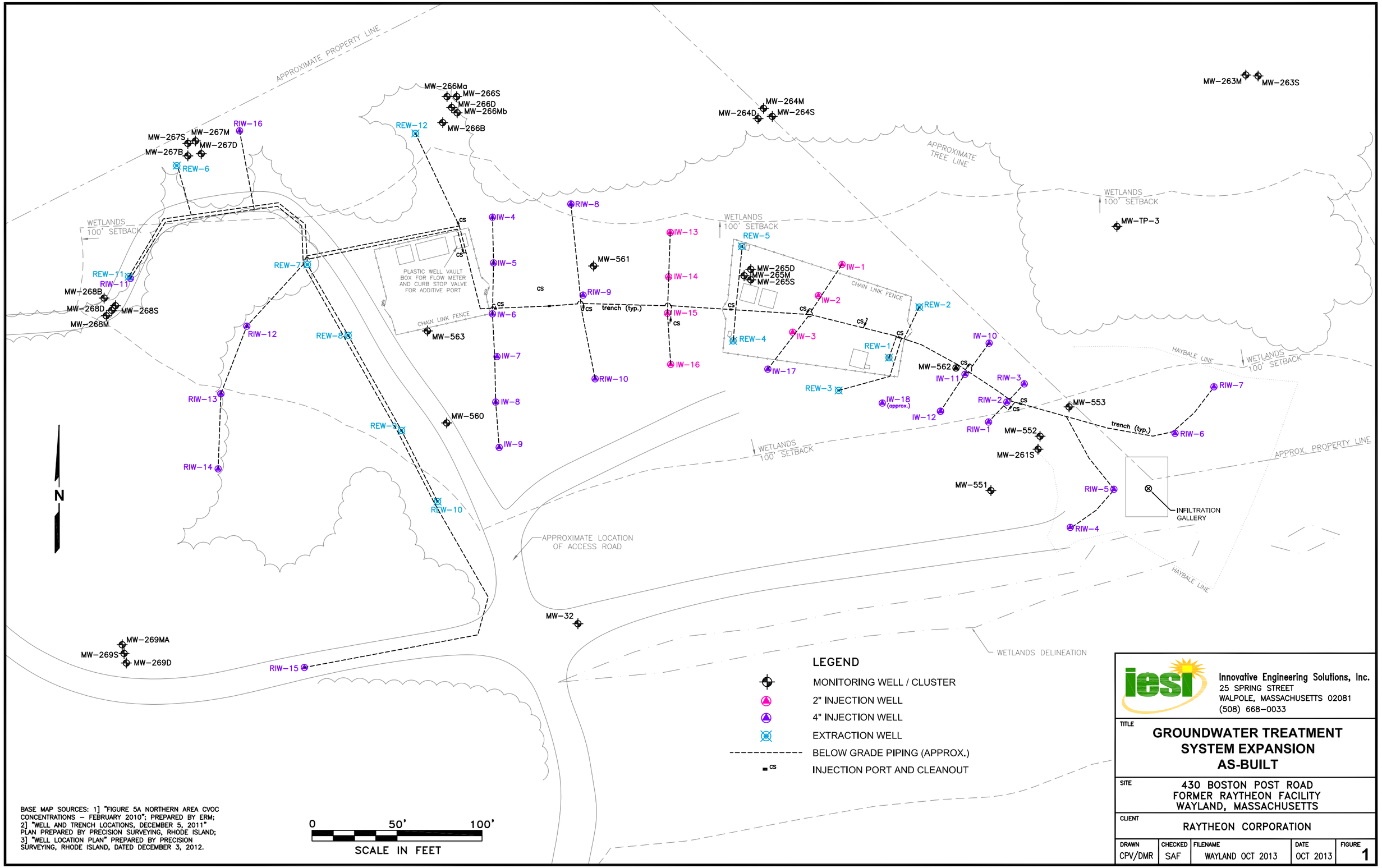
Sample ID	units	DEP-19M	DEP-21	MW-261S	MW-263M	MW-264M	MW-265S	MW-265M	MW-265D	MW-266Ma	MW-266MB	MW-267S	MW-267M	MW-268S	MW-268M	MW-268M Dup-1	MW-268D	MW-269Ma	MW-551	MW-551 Dup-3	MW-552	MW-553	MW-560	MW-561	MW-562	MW-563
Methane	ug/L	na	na	9300	na	na	na	9300	na	na	na	na	na	20	19,000	na	na	na	na	na	8700	12000	17000	17000	12000	19000
Ethene	ug/L	na	na	ND	na	na	na	ND	na	na	na	na	na	ND	55	na	na	na	na	na	ND	ND	ND	ND	ND	ND
Ethane	ug/L	na	na	ND	na	na	na	ND	na	na	na	na	na	ND	ND	na	na	na	na	na	ND	ND	ND	ND	ND	ND
Vinyl Chloride	ug/L	ND	ND	12	ND	ND	ND	ND	ND	8.7	66	27	7.4	9.5	190	180	ND	ND	ND	ND	ND	26	7.3	60	58	4.2
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
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
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
1,2-c DCE	ug/L	ND	2.8	15	ND	7.5	ND	5.8	ND	19	26	350	8.6	180	2500	2200	1.4	3.6	ND	ND	2.8	3.6	1.5	ND	63	10
1,2 t-DCE	ug/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.1	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
TCE	ug/L	ND	1.4	ND	ND	11	ND	ND	ND	ND	1	ND	ND	140	1500	1300	ND	3.4	ND	ND	ND	ND	ND	ND	ND	ND
PCE	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
Acetone	ug/L	ND	ND	7200	ND	ND	ND	1400	ND	ND	67	ND	ND	ND	ND	ND	ND	ND	650	830	290	ND	79	ND	ND	ND
Benzene	ug/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
THF	ug/L	ND	ND	16	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	12	ND	ND	ND	ND
m,p xylene	ug/L	ND	ND	25	ND	ND	ND	13	ND	ND	ND	ND	2.2	ND	ND	ND	ND	ND	10	11	ND	27	5.6	20	2.1	4
Toluene	ug/L	ND	ND	31	ND	ND	ND	11	ND	11	ND	190	29	ND	ND	ND	1.8	ND	9.3	9.1	2.9	19	48	88	29	28
Ethyl Benzene	ug/L	ND	ND	7.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.5	3.6	ND	6.3	1.1	ND	ND	ND
2-Butan. (MEK)	ug/L	ND	ND	83	ND	ND	51	300	ND	ND	ND	200	160	ND	ND	ND	ND	ND	15	14	ND	ND	180	110	420	77
o-xylene	ug/L	ND	ND	5.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.1	1.2	ND	4.5	1.3	4.9	ND	1
1,4 Dioxane	ug/L	na	na	3.4	na	na	na	6.2	na	0.48	na	4.1	6.4	13	14	13	na	1.4	na	na	3.9	na	na	na	na	na
Chloride	mg/L	na	na	25	na	na	na	26	na	na	na	na	na	9.1	26	na	na	na	na	na	19	17	21	21	181	44
Nitrate	mg/L	na	na	0.1	na	na	na	0.1	na	na	na	na	na	<.13	0.1	na	na	na	na	na	0.1	0.1	0.1	0.1	0.1	0.1
Sulfate	mg/L	na	na	1.6	na	na	na	1	na	na	na	na	na	0.43	29.8	na	na	na	na	na	1.3	1.0	1.0	1.8	1.0	1.0
Lactate	mg/L	na	na	na	na	na	na	na	na	na	na	na	na	<5	na	na	na	na	na	na	na	na	na	na	na	na
Acetate	mg/L	na	na	na	na	na	na	na	na	na	na	na	na	0.37	na	na	na	na	na	na	na	na	na	na	na	na
Propionate	mg/L	na	na	na	na	na	na	na	na	na	na	na	na	<5	na	na	na	na	na	na	na	na	na	na	na	na
Butyrate	mg/L	na	na	na	na	na	na	na	na	na	na	na	na	<5	na	na	na	na	na	na	na	na	na	na	na	na
Alkalinity	mg/L	na	na	690	na	na	na	860	na	na	na	na	na	40	140	na	na	na	na	na	560	500	420	400	820	250
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
NH3-N	mg/L	na	na	0.2	na	na	na	0.2	na	na	na	na	na	0.21	0.2	na	na	na	na	na	0.2	0.21	0.2	0.2	0.2	0.5
PO4	mg/L	na	na	0.3	na	na	na	0.3	na	na	na	na	na	<.12	0.3	na	na	na	na	na	0.3	0.3	0.31	0.2	9	0.3
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
Total Iron	mg/L	na	na	170	na	na	na	200	na	na	na	na	na	0.22	43	na	na	na	na	na	42	25	190	71	470	110
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
TOC	mg/L	na	na	1140	na	na	na	763	na	na	na	na	na	6.5	72.3	na	na	na	na	na	15	3	346	988	1550	92
pH	pH unit	na	na	6.0	na	na	na	5.9	na	na	na	na	na	6.8	6.3	na	na	na	na	na	6.6	6.6	6.2	5.3	5.1	6.3
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
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

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 Spectrum Analytical
1,4 dioxane by Method 522; 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, April 2015 (Cont)
Former Raytheon Facility, Wayland MA

Sample ID	units	REW-1	REW-4	REW-5	REW-6	REW-7	REW-8	REW-9	REW-10	REW-11	REW-12	REW-12 Dup-2	Trip Blank
Methane	ug/L	4900	15000	9000	17000	14000	19000	10000	6600	7900	13000	na	na
Ethene	ug/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	na	na
Ethane	ug/L	ND	12.0	4.9	1.2	10	8	1.4	13	ND	ND	na	na
Vinyl Chloride	ug/L	1.2	ND	3.3	28	82	35	39	ND	110	65	68	ND
Carbon Disulfide	ug/L	ND	ND	ND	ND	ND	ND	1	ND	ND	ND	ND	ND
Chloroethane	ug/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	ug/L	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
1,1-DCA	ug/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-cDCE	ug/L	3.1	1.3	8.3	360	240	44	88	ND	1400	210	210	ND
t-1,2 DCE	ug/L	ND	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	ND
TCE	ug/L	ND	ND	ND	14	ND	ND	ND	ND	280	35	38	ND
PCE	ug/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acetone	ug/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
THF	ug/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
m,p xylene	ug/L	3.2	ND	ND	ND	ND	2.5	1.2	ND	ND	ND	ND	ND
2-Butan. (MEK)	ug/L	ND	ND	ND	120	68	78	180	ND	ND	ND	ND	ND
Ethyl benzene		1.4	ND	ND	ND	ND	ND	4.7	ND	ND	ND	ND	ND
Benzene	ug/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	ug/L	ND	ND	ND	100	200	42	70	ND	ND	52	55	ND
1,2,4 TMB	ug/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
o-xylene	ug/L	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
Chloride	mg/L	4	4	8	35	26	33	24	3	24	36	na	na
Nitrate	mg/L	0.1	0.1	0.1	0.1	0.1	0.1	0.1	1.2	0.1	0.1	na	na
Sulfate	mg/L	11.6	19	21	12	8	7	15	11	19	28	na	na
Lactate	mg/L	na	na	na	na	na	na	na	na	na	na	na	na
Acetate	mg/L	na	na	na	na	na	na	na	na	na	na	na	na
Propionate	mg/L	na	na	na	na	na	na	na	na	na	na	na	na
Butyrate	mg/L	na	na	na	na	na	na	na	na	na	na	na	na
Alkalinity	mg/L	190.0	60	170	360	290	210	410	23	190	230	na	na
Manganese	mg/L	na	na	na	na	na	na	na	na	na	na	na	na
NH3-N	mg/L	0.2	ND	0.3	0.6	0.2	0.2	0.5	0.2	0.2	0.2	na	na
PO4	mg/L	0.15	0.3	0.8	0.3	0.3	0.3	0.3	0.1	0.3	0.3	na	na
Sulfide	mg/L	na	na	na	na	na	na	na	na	na	na	na	na
Total Iron	mg/L	5.4	5.6	12.0	140	100	78	110	0.7	53	87.0	na	na
COD	mg/L	na	na	na	na	na	na	na	na	na	na	na	na
TOC	mg/L	6	1.30	1.7	431	179	407	382	2.8	144	160	na	na
pH	pH unit	6.3	6.3	6.2	6.0	6.1	6.2	6.1	5.7	6.2	6.2	na	na
H2 headspace	µM	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

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 Spectrum Analytical
1,4 dioxane by Method 522
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



LEGEND

- MONITORING WELL / CLUSTER
- 2" INJECTION WELL
- 4" INJECTION WELL
- EXTRACTION WELL
- BELOW GRADE PIPING (APPROX.)
- CS — INJECTION PORT AND CLEANOUT

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

LEGEND

- MONITORING WELL / CLUSTER
- 2" INJECTION WELL
- 4" INJECTION WELL
- EXTRACTION WELL
- 117.40 ( ) GROUNDWATER ELEVATION (FT) DATA NOT USED TO CONTOUR
- GROUNDWATER CONTOUR (FT)

N

0 50' 100'
SCALE IN FEET

DEP-21
DEP-19D
DEP-19S
DEP-19M

APPROXIMATE PROPERTY LINE

117
118
119
120
121

MW-266Ma
MW-266S
MW-266D
MW-266Mb
118.84
REW-12
MW-266B

MW-267S
MW-267M
117.40
RIW-16
MW-267B
MW-267D
REW-6

MW-264D
119.58
MW-264M
MW-264S

MW-263S
MW-263M
(118.65)

APPROXIMATE TREE LINE

WETLANDS 100' SETBACK

MW-TP-3

REW-11
RIW-11
MW-268B
MW-268D
MW-268S
MW-268M
116.45

REW-7
RIW-12
REW-8
RIW-13
RIW-14

PLASTIC WELL VAULT BOX FOR FLOW METER AND CURB STOP VALVE FOR ADDITIVE PORT
CHAIN LINK FENCE
MW-563
(120.32)

IW-4
IW-5
IW-6
IW-7
IW-8
IW-9
MW-560
119.27
REW-9
REW-10

RIW-8
IW-13
(120.36)
REW-5
MW-561
119.74
119.98
IW-14
RIW-9
IW-15
RIW-10
IW-16

MW-265D
MW-265M
MW-265S
IW-1
IW-2
REW-2
REW-4
(121.52)
IW-3
(121.41)
REW-1
IW-17
REW-3

IW-10
121.07
MW-562
IW-11
RIW-3
RIW-2
IW-18 (approx.)
IW-12
RIW-1
MW-552
121.16
MW-261S
(120.02)
MW-551
121.32
RIW-5
RIW-4
MW-553
121.33
RIW-7
RIW-6
INFILTRATION GALLERY

HAYBALE LINE
WETLANDS 100' SETBACK
APPROX. PROPERTY LINE

APPROXIMATE LOCATION OF ACCESS ROAD
WETLANDS DELINEATION

MW-32

MW-269MA
118.75
MW-269S
MW-269D
RIW-15

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
MID DEPTH GROUNDWATER CONTOUR MAP APRIL 3, 2015

SITE
430 BOSTON POST ROAD
FORMER RAYTHEON FACILITY
WAYLAND, MASSACHUSETTS

CLIENT
RAYTHEON CORPORATION

DRAWN	CHECKED	FILENAME	DATE	FIGURE
DMR	SAF	WAYLAND 2015	APR 2015	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: 480-74193-1
Client Project/Site: IDS Wayland

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

Attn: Vicki Pariyar

Authorized for release by:
1/20/2015 3:25:43 PM

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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Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD exceeds the control limits
*	RPD of the LCS and LCSD exceeds the control limits
F1	MS and/or MSD Recovery exceeds the control limits
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
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
CFL	Contains Free Liquid
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: 480-74193-1

Laboratory: TestAmerica Buffalo

Narrative

Receipt

The samples were received on 1/15/2015 1:45 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.0º C.

GC/MS VOA

Due to the dilutions required, per question G on the MassDEP Analytical Protocol Certification Form, the CAM reporting limits specified in this CAM protocol could not be achieved for some or all samples/analytes.

Method 8260C: 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-Amyl Methyl Ether and Tetrahydrofuran.

Method 8260C: The continuing calibration verification (CCV) for Acetone associated with batch 223126 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 or 60% difference for difficult analytes. (CCVIS 480-223126/33)

Method 8260C: The laboratory control sample (LCS) and / or the laboratory control sample duplicate (LCSD) for batch 223126 exceeded control limits for the following analyte: 2-Butanone and/or 2-Hexanone. Unlike the calibration standards, this is due to the coelution with Ethyl Acetate and n-butyl 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. (LCS 480-223126/5), (LCSD 480-223126/6)

Method 8260C: The laboratory control sample (LCS) and / or the laboratory control sample duplicate (LCSD) for batch 223126 exceeded control limits for the following analytes: Acetone. MCP protocol allows for 10% of the target compounds to be outside of the limits provided the recoveries are over 10%. (LCS 480-223126/5), (LCSD 480-223126/6)

Method 8260C: The matrix spike duplicate (MSD) recoveries for batch 223126 were outside control limits.

Method 8260C: The following samples were diluted to bring the concentration of target analytes within the calibration range: (480-74193-4 MSD), DUP-20150114 (480-74193-14), MW-268M-20150114 (480-74193-4), REW-11-20150113 (480-74193-12), REW-12-20150113 (480-74193-13), REW-6-20150113 (480-74193-9), REW-7-20150113 (480-74193-10). Elevated reporting limits (RLs) are provided.

Method 8260C: The following sample was diluted due to the abundance of non-target analytes: MW-561-20150114 (480-74193-6). Elevated reporting limits (RLs) are provided.

Method 8260C: The continuing calibration verification (CCV) for Acetone associated with batch 223230 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. (CCVIS 480-223230/3)

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 223230 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. (LCS 480-223230/5), (LCSD 480-223230/6)

Method 8260C: The %RPD of the laboratory control sample (LCS) and laboratory control standard duplicate (LCSD) for batch 223230 recovered outside control limits for the following analytes: 1,4-Dioxane.

Method 8260C: The following samples were diluted to bring the concentration of target analytes within the calibration range: DUP-20150114 (480-74193-14), MW-265M-20150114 (480-74193-1), MW-267S-20150114 (480-74193-2), MW-268M-20150114 (480-74193-4), REW-11-20150113 (480-74193-12). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

MassDEP Analytical Protocol Certification Form

Laboratory Name: **TestAmerica Buffalo** Project #: **480-74193-1**

Project Location: **Wayland** RTN:

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

480-74193-1[1-15]

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 ☐	9012 / 9014/ 4500CN 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: Project Manager

Printed Name: Becky Mason Date: 1/20/15 15:24

This form has been electronically signed and approved

Detection Summary

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

TestAmerica Job ID: 480-74193-1

Client Sample ID: MW-265M-20150114 — Lab Sample ID: 480-74193-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	350	*	10		ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	5.5		1.0		ug/L	1		8260C	Total/NA
Ethylbenzene	3.8		1.0		ug/L	1		8260C	Total/NA
m-Xylene & p-Xylene	16		2.0		ug/L	1		8260C	Total/NA
o-Xylene	4.5		1.0		ug/L	1		8260C	Total/NA
Tetrahydrofuran	49		10		ug/L	1		8260C	Total/NA
Toluene	15		1.0		ug/L	1		8260C	Total/NA
Trichloroethene	2.3		1.0		ug/L	1		8260C	Total/NA
Vinyl chloride	2.7		1.0		ug/L	1		8260C	Total/NA
Acetone - DL	1800		250		ug/L	5		8260C	Total/NA

Client Sample ID: MW-267S-20150114 — Lab Sample ID: 480-74193-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	200	*	50		ug/L	5		8260C	Total/NA
cis-1,2-Dichloroethene	290		5.0		ug/L	5		8260C	Total/NA
Toluene	240		5.0		ug/L	5		8260C	Total/NA
Vinyl chloride	16		5.0		ug/L	5		8260C	Total/NA

Client Sample ID: MW-267M-20150114 — Lab Sample ID: 480-74193-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	240	*	10		ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	11		1.0		ug/L	1		8260C	Total/NA
m-Xylene & p-Xylene	3.8		2.0		ug/L	1		8260C	Total/NA
o-Xylene	1.2		1.0		ug/L	1		8260C	Total/NA
Toluene	47		1.0		ug/L	1		8260C	Total/NA
Vinyl chloride	10		1.0		ug/L	1		8260C	Total/NA

Client Sample ID: MW-268M-20150114 — Lab Sample ID: 480-74193-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vinyl chloride	120		20		ug/L	20		8260C	Total/NA
cis-1,2-Dichloroethene - DL	2900		40		ug/L	40		8260C	Total/NA

Client Sample ID: MW-560-20150114 — Lab Sample ID: 480-74193-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	200	*	10		ug/L	1		8260C	Total/NA
Acetone	85		50		ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	2.7		1.0		ug/L	1		8260C	Total/NA
m-Xylene & p-Xylene	3.1		2.0		ug/L	1		8260C	Total/NA
Toluene	49		1.0		ug/L	1		8260C	Total/NA
Vinyl chloride	8.5		1.0		ug/L	1		8260C	Total/NA

Client Sample ID: MW-561-20150114 — Lab Sample ID: 480-74193-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	100	*	50		ug/L	5		8260C	Total/NA
Ethylbenzene	6.2		5.0		ug/L	5		8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-561-20150114 (Continued) — Lab Sample ID: 480-74193-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
m-Xylene & p-Xylene	26		10		ug/L	5		8260C	Total/NA
o-Xylene	5.3		5.0		ug/L	5		8260C	Total/NA
Toluene	160		5.0		ug/L	5		8260C	Total/NA
Vinyl chloride	61		5.0		ug/L	5		8260C	Total/NA

Client Sample ID: MW-562-20150114 — Lab Sample ID: 480-74193-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	330	*	10		ug/L	1		8260C	Total/NA
Acetone	64	*	50		ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	80		1.0		ug/L	1		8260C	Total/NA
m-Xylene & p-Xylene	2.1		2.0		ug/L	1		8260C	Total/NA
Toluene	33		1.0		ug/L	1		8260C	Total/NA
Vinyl chloride	69		1.0		ug/L	1		8260C	Total/NA

Client Sample ID: MW-563-20150114 — Lab Sample ID: 480-74193-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	320	*	10		ug/L	1		8260C	Total/NA
Acetone	100	*	50		ug/L	1		8260C	Total/NA
Benzene	1.0		1.0		ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	61		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
o-Xylene	1.1		1.0		ug/L	1		8260C	Total/NA
Toluene	46		1.0		ug/L	1		8260C	Total/NA
Vinyl chloride	25		1.0		ug/L	1		8260C	Total/NA

Client Sample ID: REW-6-20150113 — Lab Sample ID: 480-74193-9

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	390		5.0		ug/L	5		8260C	Total/NA
Toluene	110		5.0		ug/L	5		8260C	Total/NA
Trichloroethene	19		5.0		ug/L	5		8260C	Total/NA
Vinyl chloride	25		5.0		ug/L	5		8260C	Total/NA

Client Sample ID: REW-7-20150113 — Lab Sample ID: 480-74193-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	58	*	50		ug/L	5		8260C	Total/NA
cis-1,2-Dichloroethene	230		5.0		ug/L	5		8260C	Total/NA
Toluene	110		5.0		ug/L	5		8260C	Total/NA
Vinyl chloride	77		5.0		ug/L	5		8260C	Total/NA

Client Sample ID: REW-8-20150113 — Lab Sample ID: 480-74193-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	79	*	10		ug/L	1		8260C	Total/NA
Acetone	63	*	50		ug/L	1		8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: REW-8-20150113 (Continued) — Lab Sample ID: 480-74193-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	48		1.0		ug/L	1		8260C	Total/NA
m-Xylene & p-Xylene	2.6		2.0		ug/L	1		8260C	Total/NA
Toluene	38		1.0		ug/L	1		8260C	Total/NA
Trichloroethene	1.4		1.0		ug/L	1		8260C	Total/NA
Vinyl chloride	42		1.0		ug/L	1		8260C	Total/NA

Client Sample ID: REW-11-20150113 — Lab Sample ID: 480-74193-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Trichloroethene	330		10		ug/L	10		8260C	Total/NA
Vinyl chloride	110		10		ug/L	10		8260C	Total/NA
cis-1,2-Dichloroethene - DL	1500		20		ug/L	20		8260C	Total/NA

Client Sample ID: REW-12-20150113 — Lab Sample ID: 480-74193-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	270		5.0		ug/L	5		8260C	Total/NA
Toluene	71		5.0		ug/L	5		8260C	Total/NA
Trichloroethene	18		5.0		ug/L	5		8260C	Total/NA
Vinyl chloride	75		5.0		ug/L	5		8260C	Total/NA

Client Sample ID: DUP-20150114 — Lab Sample ID: 480-74193-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vinyl chloride	150		20		ug/L	20		8260C	Total/NA
cis-1,2-Dichloroethene - DL	3000		40		ug/L	40		8260C	Total/NA

Client Sample ID: TRIP BLANK — Lab Sample ID: 480-74193-15

No Detections.

This Detection Summary does not include radiochemical test results.

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

TestAmerica Job ID: 480-74193-1

Client Sample ID: MW-265M-20150114
Date Collected: 01/14/15 11:05
Date Received: 01/15/15 01:45

Lab Sample ID: 480-74193-1
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			01/15/15 17:49	1
1,1,1-Trichloroethane	ND		1.0		ug/L			01/15/15 17:49	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			01/15/15 17:49	1
1,1,2-Trichloroethane	ND		1.0		ug/L			01/15/15 17:49	1
1,1-Dichloroethane	ND		1.0		ug/L			01/15/15 17:49	1
1,1-Dichloroethene	ND		1.0		ug/L			01/15/15 17:49	1
1,1-Dichloropropene	ND		1.0		ug/L			01/15/15 17:49	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			01/15/15 17:49	1
1,2,3-Trichloropropane	ND		1.0		ug/L			01/15/15 17:49	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			01/15/15 17:49	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			01/15/15 17:49	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			01/15/15 17:49	1
1,2-Dichlorobenzene	ND		1.0		ug/L			01/15/15 17:49	1
1,2-Dichloroethane	ND		1.0		ug/L			01/15/15 17:49	1
1,2-Dichloropropane	ND		1.0		ug/L			01/15/15 17:49	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			01/15/15 17:49	1
1,3-Dichlorobenzene	ND		1.0		ug/L			01/15/15 17:49	1
1,3-Dichloropropane	ND		1.0		ug/L			01/15/15 17:49	1
1,4-Dichlorobenzene	ND		1.0		ug/L			01/15/15 17:49	1
1,4-Dioxane	ND		50		ug/L			01/15/15 17:49	1
2,2-Dichloropropane	ND		1.0		ug/L			01/15/15 17:49	1
2-Butanone (MEK)	**350**	*	10		ug/L			01/15/15 17:49	1
2-Chlorotoluene	ND		1.0		ug/L			01/15/15 17:49	1
2-Hexanone	ND	*	10		ug/L			01/15/15 17:49	1
4-Chlorotoluene	ND		1.0		ug/L			01/15/15 17:49	1
4-Isopropyltoluene	ND		1.0		ug/L			01/15/15 17:49	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			01/15/15 17:49	1
Benzene	ND		1.0		ug/L			01/15/15 17:49	1
Bromobenzene	ND		1.0		ug/L			01/15/15 17:49	1
Bromoform	ND		1.0		ug/L			01/15/15 17:49	1
Bromomethane	ND		2.0		ug/L			01/15/15 17:49	1
Carbon disulfide	ND		10		ug/L			01/15/15 17:49	1
Carbon tetrachloride	ND		1.0		ug/L			01/15/15 17:49	1
Chlorobenzene	ND		1.0		ug/L			01/15/15 17:49	1
Chlorobromomethane	ND		1.0		ug/L			01/15/15 17:49	1
Chlorodibromomethane	ND		0.50		ug/L			01/15/15 17:49	1
Chloroethane	ND		2.0		ug/L			01/15/15 17:49	1
Chloroform	ND		1.0		ug/L			01/15/15 17:49	1
Chloromethane	ND		2.0		ug/L			01/15/15 17:49	1
cis-1,2-Dichloroethene	**5.5**		1.0		ug/L			01/15/15 17:49	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			01/15/15 17:49	1
Dichlorobromomethane	ND		0.50		ug/L			01/15/15 17:49	1
Dichlorodifluoromethane	ND		1.0		ug/L			01/15/15 17:49	1
Ethyl ether	ND		1.0		ug/L			01/15/15 17:49	1
Ethylbenzene	**3.8**		1.0		ug/L			01/15/15 17:49	1
Ethylene Dibromide	ND		1.0		ug/L			01/15/15 17:49	1
Hexachlorobutadiene	ND		0.40		ug/L			01/15/15 17:49	1
Isopropyl ether	ND		10		ug/L			01/15/15 17:49	1
Isopropylbenzene	ND		1.0		ug/L			01/15/15 17:49	1

Client Sample ID: MW-265M-20150114

Lab Sample ID: 480-74193-1

Date Collected: 01/14/15 11:05

Matrix: Water

Date Received: 01/15/15 01:45

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			01/15/15 17:49	1
Methylene Chloride	ND		1.0		ug/L			01/15/15 17:49	1
m-Xylene & p-Xylene	**16**		2.0		ug/L			01/15/15 17:49	1
Naphthalene	ND		5.0		ug/L			01/15/15 17:49	1
n-Butylbenzene	ND		1.0		ug/L			01/15/15 17:49	1
N-Propylbenzene	ND		1.0		ug/L			01/15/15 17:49	1
o-Xylene	**4.5**		1.0		ug/L			01/15/15 17:49	1
sec-Butylbenzene	ND		1.0		ug/L			01/15/15 17:49	1
Styrene	ND		1.0		ug/L			01/15/15 17:49	1
Tert-amyl methyl ether	ND		5.0		ug/L			01/15/15 17:49	1
Tert-butyl ethyl ether	ND		5.0		ug/L			01/15/15 17:49	1
tert-Butylbenzene	ND		1.0		ug/L			01/15/15 17:49	1
Tetrachloroethene	ND		1.0		ug/L			01/15/15 17:49	1
Tetrahydrofuran	**49**		10		ug/L			01/15/15 17:49	1
Toluene	**15**		1.0		ug/L			01/15/15 17:49	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			01/15/15 17:49	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			01/15/15 17:49	1
Trichloroethene	**2.3**		1.0		ug/L			01/15/15 17:49	1
Trichlorofluoromethane	ND		1.0		ug/L			01/15/15 17:49	1
Vinyl chloride	**2.7**		1.0		ug/L			01/15/15 17:49	1
Dibromomethane	ND		1.0		ug/L			01/15/15 17:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*98*		*70 - 130*		*01/15/15 17:49*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 130*		*01/15/15 17:49*	*1*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*01/15/15 17:49*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**1800**		250		ug/L			01/16/15 13:14	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*98*		*70 - 130*		*01/16/15 13:14*	*5*
1,2-Dichloroethane-d4 (Surr)	*105*		*70 - 130*		*01/16/15 13:14*	*5*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*		*01/16/15 13:14*	*5*

Client Sample ID: MW-267S-20150114

Lab Sample ID: 480-74193-2

Date Collected: 01/14/15 09:50

Matrix: Water

Date Received: 01/15/15 01:45

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			01/16/15 13:39	5
1,1,1-Trichloroethane	ND		5.0		ug/L			01/16/15 13:39	5
1,1,2,2-Tetrachloroethane	ND		2.5		ug/L			01/16/15 13:39	5
1,1,2-Trichloroethane	ND		5.0		ug/L			01/16/15 13:39	5
1,1-Dichloroethane	ND		5.0		ug/L			01/16/15 13:39	5
1,1-Dichloroethene	ND		5.0		ug/L			01/16/15 13:39	5
1,1-Dichloropropene	ND		5.0		ug/L			01/16/15 13:39	5
1,2,3-Trichlorobenzene	ND		5.0		ug/L			01/16/15 13:39	5

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

TestAmerica Job ID: 480-74193-1

Client Sample ID: MW-267S-20150114
Date Collected: 01/14/15 09:50
Date Received: 01/15/15 01:45

Lab Sample ID: 480-74193-2
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			01/16/15 13:39	5
1,2,4-Trichlorobenzene	ND		5.0		ug/L			01/16/15 13:39	5
1,2,4-Trimethylbenzene	ND		5.0		ug/L			01/16/15 13:39	5
1,2-Dibromo-3-Chloropropane	ND		25		ug/L			01/16/15 13:39	5
1,2-Dichlorobenzene	ND		5.0		ug/L			01/16/15 13:39	5
1,2-Dichloroethane	ND		5.0		ug/L			01/16/15 13:39	5
1,2-Dichloropropane	ND		5.0		ug/L			01/16/15 13:39	5
1,3,5-Trimethylbenzene	ND		5.0		ug/L			01/16/15 13:39	5
1,3-Dichlorobenzene	ND		5.0		ug/L			01/16/15 13:39	5
1,3-Dichloropropane	ND		5.0		ug/L			01/16/15 13:39	5
1,4-Dichlorobenzene	ND		5.0		ug/L			01/16/15 13:39	5
1,4-Dioxane	ND	*	250		ug/L			01/16/15 13:39	5
2,2-Dichloropropane	ND		5.0		ug/L			01/16/15 13:39	5
2-Butanone (MEK)	**200**	*	50		ug/L			01/16/15 13:39	5
2-Chlorotoluene	ND		5.0		ug/L			01/16/15 13:39	5
2-Hexanone	ND		50		ug/L			01/16/15 13:39	5
4-Chlorotoluene	ND		5.0		ug/L			01/16/15 13:39	5
4-Isopropyltoluene	ND		5.0		ug/L			01/16/15 13:39	5
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			01/16/15 13:39	5
Acetone	ND		250		ug/L			01/16/15 13:39	5
Benzene	ND		5.0		ug/L			01/16/15 13:39	5
Bromobenzene	ND		5.0		ug/L			01/16/15 13:39	5
Bromoform	ND		5.0		ug/L			01/16/15 13:39	5
Bromomethane	ND		10		ug/L			01/16/15 13:39	5
Carbon disulfide	ND		50		ug/L			01/16/15 13:39	5
Carbon tetrachloride	ND		5.0		ug/L			01/16/15 13:39	5
Chlorobenzene	ND		5.0		ug/L			01/16/15 13:39	5
Chlorobromomethane	ND		5.0		ug/L			01/16/15 13:39	5
Chlorodibromomethane	ND		2.5		ug/L			01/16/15 13:39	5
Chloroethane	ND		10		ug/L			01/16/15 13:39	5
Chloroform	ND		5.0		ug/L			01/16/15 13:39	5
Chloromethane	ND		10		ug/L			01/16/15 13:39	5
cis-1,2-Dichloroethene	**290**		5.0		ug/L			01/16/15 13:39	5
cis-1,3-Dichloropropene	ND		2.0		ug/L			01/16/15 13:39	5
Dichlorobromomethane	ND		2.5		ug/L			01/16/15 13:39	5
Dichlorodifluoromethane	ND		5.0		ug/L			01/16/15 13:39	5
Ethyl ether	ND		5.0		ug/L			01/16/15 13:39	5
Ethylbenzene	ND		5.0		ug/L			01/16/15 13:39	5
Ethylene Dibromide	ND		5.0		ug/L			01/16/15 13:39	5
Hexachlorobutadiene	ND		2.0		ug/L			01/16/15 13:39	5
Isopropyl ether	ND		50		ug/L			01/16/15 13:39	5
Isopropylbenzene	ND		5.0		ug/L			01/16/15 13:39	5
Methyl tert-butyl ether	ND		5.0		ug/L			01/16/15 13:39	5
Methylene Chloride	ND		5.0		ug/L			01/16/15 13:39	5
m-Xylene & p-Xylene	ND		10		ug/L			01/16/15 13:39	5
Naphthalene	ND		25		ug/L			01/16/15 13:39	5
n-Butylbenzene	ND		5.0		ug/L			01/16/15 13:39	5
N-Propylbenzene	ND		5.0		ug/L			01/16/15 13:39	5
o-Xylene	ND		5.0		ug/L			01/16/15 13:39	5

Client Sample ID: MW-267S-20150114

Lab Sample ID: 480-74193-2

Date Collected: 01/14/15 09:50

Matrix: Water

Date Received: 01/15/15 01:45

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			01/16/15 13:39	5
Styrene	ND		5.0		ug/L			01/16/15 13:39	5
Tert-amyl methyl ether	ND		25		ug/L			01/16/15 13:39	5
Tert-butyl ethyl ether	ND		25		ug/L			01/16/15 13:39	5
tert-Butylbenzene	ND		5.0		ug/L			01/16/15 13:39	5
Tetrachloroethene	ND		5.0		ug/L			01/16/15 13:39	5
Tetrahydrofuran	ND		50		ug/L			01/16/15 13:39	5
Toluene	**240**		5.0		ug/L			01/16/15 13:39	5
trans-1,2-Dichloroethene	ND		5.0		ug/L			01/16/15 13:39	5
trans-1,3-Dichloropropene	ND		2.0		ug/L			01/16/15 13:39	5
Trichloroethene	ND		5.0		ug/L			01/16/15 13:39	5
Trichlorofluoromethane	ND		5.0		ug/L			01/16/15 13:39	5
Vinyl chloride	**16**		5.0		ug/L			01/16/15 13:39	5
Dibromomethane	ND		5.0		ug/L			01/16/15 13:39	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*102*		*70 - 130*		*01/16/15 13:39*	*5*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 130*		*01/16/15 13:39*	*5*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*		*01/16/15 13:39*	*5*

Client Sample ID: MW-267M-20150114

Lab Sample ID: 480-74193-3

Date Collected: 01/14/15 10:40

Matrix: Water

Date Received: 01/15/15 01:45

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			01/15/15 18:39	1
1,1,1-Trichloroethane	ND		1.0		ug/L			01/15/15 18:39	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			01/15/15 18:39	1
1,1,2-Trichloroethane	ND		1.0		ug/L			01/15/15 18:39	1
1,1-Dichloroethane	ND		1.0		ug/L			01/15/15 18:39	1
1,1-Dichloroethene	ND		1.0		ug/L			01/15/15 18:39	1
1,1-Dichloropropene	ND		1.0		ug/L			01/15/15 18:39	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			01/15/15 18:39	1
1,2,3-Trichloropropane	ND		1.0		ug/L			01/15/15 18:39	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			01/15/15 18:39	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			01/15/15 18:39	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			01/15/15 18:39	1
1,2-Dichlorobenzene	ND		1.0		ug/L			01/15/15 18:39	1
1,2-Dichloroethane	ND		1.0		ug/L			01/15/15 18:39	1
1,2-Dichloropropane	ND		1.0		ug/L			01/15/15 18:39	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			01/15/15 18:39	1
1,3-Dichlorobenzene	ND		1.0		ug/L			01/15/15 18:39	1
1,3-Dichloropropane	ND		1.0		ug/L			01/15/15 18:39	1
1,4-Dichlorobenzene	ND		1.0		ug/L			01/15/15 18:39	1
1,4-Dioxane	ND		50		ug/L			01/15/15 18:39	1
2,2-Dichloropropane	ND		1.0		ug/L			01/15/15 18:39	1
2-Butanone (MEK)	**240**	*	10		ug/L			01/15/15 18:39	1
2-Chlorotoluene	ND		1.0		ug/L			01/15/15 18:39	1
2-Hexanone	ND	*	10		ug/L			01/15/15 18:39	1

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

TestAmerica Job ID: 480-74193-1

Client Sample ID: MW-267M-20150114
Date Collected: 01/14/15 10:40
Date Received: 01/15/15 01:45

Lab Sample ID: 480-74193-3
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			01/15/15 18:39	1
4-Isopropyltoluene	ND		1.0		ug/L			01/15/15 18:39	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			01/15/15 18:39	1
Acetone	ND	*	50		ug/L			01/15/15 18:39	1
Benzene	ND		1.0		ug/L			01/15/15 18:39	1
Bromobenzene	ND		1.0		ug/L			01/15/15 18:39	1
Bromoform	ND		1.0		ug/L			01/15/15 18:39	1
Bromomethane	ND		2.0		ug/L			01/15/15 18:39	1
Carbon disulfide	ND		10		ug/L			01/15/15 18:39	1
Carbon tetrachloride	ND		1.0		ug/L			01/15/15 18:39	1
Chlorobenzene	ND		1.0		ug/L			01/15/15 18:39	1
Chlorobromomethane	ND		1.0		ug/L			01/15/15 18:39	1
Chlorodibromomethane	ND		0.50		ug/L			01/15/15 18:39	1
Chloroethane	ND		2.0		ug/L			01/15/15 18:39	1
Chloroform	ND		1.0		ug/L			01/15/15 18:39	1
Chloromethane	ND		2.0		ug/L			01/15/15 18:39	1
cis-1,2-Dichloroethene	**11**		1.0		ug/L			01/15/15 18:39	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			01/15/15 18:39	1
Dichlorobromomethane	ND		0.50		ug/L			01/15/15 18:39	1
Dichlorodifluoromethane	ND		1.0		ug/L			01/15/15 18:39	1
Ethyl ether	ND		1.0		ug/L			01/15/15 18:39	1
Ethylbenzene	ND		1.0		ug/L			01/15/15 18:39	1
Ethylene Dibromide	ND		1.0		ug/L			01/15/15 18:39	1
Hexachlorobutadiene	ND		0.40		ug/L			01/15/15 18:39	1
Isopropyl ether	ND		10		ug/L			01/15/15 18:39	1
Isopropylbenzene	ND		1.0		ug/L			01/15/15 18:39	1
Methyl tert-butyl ether	ND		1.0		ug/L			01/15/15 18:39	1
Methylene Chloride	ND		1.0		ug/L			01/15/15 18:39	1
m-Xylene & p-Xylene	**3.8**		2.0		ug/L			01/15/15 18:39	1
Naphthalene	ND		5.0		ug/L			01/15/15 18:39	1
n-Butylbenzene	ND		1.0		ug/L			01/15/15 18:39	1
N-Propylbenzene	ND		1.0		ug/L			01/15/15 18:39	1
o-Xylene	**1.2**		1.0		ug/L			01/15/15 18:39	1
sec-Butylbenzene	ND		1.0		ug/L			01/15/15 18:39	1
Styrene	ND		1.0		ug/L			01/15/15 18:39	1
Tert-amyl methyl ether	ND		5.0		ug/L			01/15/15 18:39	1
Tert-butyl ethyl ether	ND		5.0		ug/L			01/15/15 18:39	1
tert-Butylbenzene	ND		1.0		ug/L			01/15/15 18:39	1
Tetrachloroethene	ND		1.0		ug/L			01/15/15 18:39	1
Tetrahydrofuran	ND		10		ug/L			01/15/15 18:39	1
Toluene	**47**		1.0		ug/L			01/15/15 18:39	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			01/15/15 18:39	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			01/15/15 18:39	1
Trichloroethene	ND		1.0		ug/L			01/15/15 18:39	1
Trichlorofluoromethane	ND		1.0		ug/L			01/15/15 18:39	1
Vinyl chloride	**10**		1.0		ug/L			01/15/15 18:39	1
Dibromomethane	ND		1.0		ug/L			01/15/15 18:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*99*		*70 - 130*		*01/15/15 18:39*	*1*

Client Sample ID: MW-267M-20150114

Lab Sample ID: 480-74193-3

Date Collected: 01/14/15 10:40

Matrix: Water

Date Received: 01/15/15 01:45

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*104*		*70 - 130*		*01/15/15 18:39*	*1*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*		*01/15/15 18:39*	*1*

Client Sample ID: MW-268M-20150114

Lab Sample ID: 480-74193-4

Date Collected: 01/14/15 08:30

Matrix: Water

Date Received: 01/15/15 01:45

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			01/15/15 19:04	20
1,1,1-Trichloroethane	ND		20		ug/L			01/15/15 19:04	20
1,1,2,2-Tetrachloroethane	ND		10		ug/L			01/15/15 19:04	20
1,1,2-Trichloroethane	ND		20		ug/L			01/15/15 19:04	20
1,1-Dichloroethane	ND		20		ug/L			01/15/15 19:04	20
1,1-Dichloroethene	ND		20		ug/L			01/15/15 19:04	20
1,1-Dichloropropene	ND		20		ug/L			01/15/15 19:04	20
1,2,3-Trichlorobenzene	ND		20		ug/L			01/15/15 19:04	20
1,2,3-Trichloropropane	ND		20		ug/L			01/15/15 19:04	20
1,2,4-Trichlorobenzene	ND		20		ug/L			01/15/15 19:04	20
1,2,4-Trimethylbenzene	ND		20		ug/L			01/15/15 19:04	20
1,2-Dibromo-3-Chloropropane	ND		100		ug/L			01/15/15 19:04	20
1,2-Dichlorobenzene	ND		20		ug/L			01/15/15 19:04	20
1,2-Dichloroethane	ND		20		ug/L			01/15/15 19:04	20
1,2-Dichloropropane	ND		20		ug/L			01/15/15 19:04	20
1,3,5-Trimethylbenzene	ND		20		ug/L			01/15/15 19:04	20
1,3-Dichlorobenzene	ND		20		ug/L			01/15/15 19:04	20
1,3-Dichloropropane	ND		20		ug/L			01/15/15 19:04	20
1,4-Dichlorobenzene	ND		20		ug/L			01/15/15 19:04	20
1,4-Dioxane	ND		1000		ug/L			01/15/15 19:04	20
2,2-Dichloropropane	ND		20		ug/L			01/15/15 19:04	20
2-Butanone (MEK)	ND	*	200		ug/L			01/15/15 19:04	20
2-Chlorotoluene	ND		20		ug/L			01/15/15 19:04	20
2-Hexanone	ND	*	200		ug/L			01/15/15 19:04	20
4-Chlorotoluene	ND		20		ug/L			01/15/15 19:04	20
4-Isopropyltoluene	ND		20		ug/L			01/15/15 19:04	20
4-Methyl-2-pentanone (MIBK)	ND		200		ug/L			01/15/15 19:04	20
Acetone	ND	*	1000		ug/L			01/15/15 19:04	20
Benzene	ND		20		ug/L			01/15/15 19:04	20
Bromobenzene	ND		20		ug/L			01/15/15 19:04	20
Bromoform	ND		20		ug/L			01/15/15 19:04	20
Bromomethane	ND		40		ug/L			01/15/15 19:04	20
Carbon disulfide	ND		200		ug/L			01/15/15 19:04	20
Carbon tetrachloride	ND		20		ug/L			01/15/15 19:04	20
Chlorobenzene	ND		20		ug/L			01/15/15 19:04	20
Chlorobromomethane	ND		20		ug/L			01/15/15 19:04	20
Chlorodibromomethane	ND		10		ug/L			01/15/15 19:04	20
Chloroethane	ND		40		ug/L			01/15/15 19:04	20
Chloroform	ND		20		ug/L			01/15/15 19:04	20
Chloromethane	ND		40		ug/L			01/15/15 19:04	20

Client Sample ID: MW-268M-20150114
Date Collected: 01/14/15 08:30
Date Received: 01/15/15 01:45

Lab Sample ID: 480-74193-4
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND		8.0		ug/L			01/15/15 19:04	20
Dichlorobromomethane	ND		10		ug/L			01/15/15 19:04	20
Dichlorodifluoromethane	ND		20		ug/L			01/15/15 19:04	20
Ethyl ether	ND		20		ug/L			01/15/15 19:04	20
Ethylbenzene	ND		20		ug/L			01/15/15 19:04	20
Ethylene Dibromide	ND		20		ug/L			01/15/15 19:04	20
Hexachlorobutadiene	ND		8.0		ug/L			01/15/15 19:04	20
Isopropyl ether	ND		200		ug/L			01/15/15 19:04	20
Isopropylbenzene	ND		20		ug/L			01/15/15 19:04	20
Methyl tert-butyl ether	ND		20		ug/L			01/15/15 19:04	20
Methylene Chloride	ND		20		ug/L			01/15/15 19:04	20
m-Xylene & p-Xylene	ND		40		ug/L			01/15/15 19:04	20
Naphthalene	ND		100		ug/L			01/15/15 19:04	20
n-Butylbenzene	ND		20		ug/L			01/15/15 19:04	20
N-Propylbenzene	ND		20		ug/L			01/15/15 19:04	20
o-Xylene	ND		20		ug/L			01/15/15 19:04	20
sec-Butylbenzene	ND		20		ug/L			01/15/15 19:04	20
Styrene	ND		20		ug/L			01/15/15 19:04	20
Tert-amyl methyl ether	ND		100		ug/L			01/15/15 19:04	20
Tert-butyl ethyl ether	ND		100		ug/L			01/15/15 19:04	20
tert-Butylbenzene	ND		20		ug/L			01/15/15 19:04	20
Tetrachloroethene	ND		20		ug/L			01/15/15 19:04	20
Tetrahydrofuran	ND		200		ug/L			01/15/15 19:04	20
Toluene	ND		20		ug/L			01/15/15 19:04	20
trans-1,2-Dichloroethene	ND		20		ug/L			01/15/15 19:04	20
trans-1,3-Dichloropropene	ND		8.0		ug/L			01/15/15 19:04	20
Trichloroethene	ND		20		ug/L			01/15/15 19:04	20
Trichlorofluoromethane	ND		20		ug/L			01/15/15 19:04	20
Vinyl chloride	**120**		20		ug/L			01/15/15 19:04	20
Dibromomethane	ND		20		ug/L			01/15/15 19:04	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*96*		*70 - 130*		*01/15/15 19:04*	*20*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 130*		*01/15/15 19:04*	*20*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*		*01/15/15 19:04*	*20*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	**2900**		40		ug/L			01/16/15 14:04	40

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*96*		*70 - 130*		*01/16/15 14:04*	*40*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 130*		*01/16/15 14:04*	*40*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*		*01/16/15 14:04*	*40*

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

TestAmerica Job ID: 480-74193-1

Client Sample ID: MW-560-20150114
Date Collected: 01/14/15 11:40
Date Received: 01/15/15 01:45

Lab Sample ID: 480-74193-5
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			01/16/15 14:29	1
1,1,1-Trichloroethane	ND		1.0		ug/L			01/16/15 14:29	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			01/16/15 14:29	1
1,1,2-Trichloroethane	ND		1.0		ug/L			01/16/15 14:29	1
1,1-Dichloroethane	ND		1.0		ug/L			01/16/15 14:29	1
1,1-Dichloroethene	ND		1.0		ug/L			01/16/15 14:29	1
1,1-Dichloropropene	ND		1.0		ug/L			01/16/15 14:29	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			01/16/15 14:29	1
1,2,3-Trichloropropane	ND		1.0		ug/L			01/16/15 14:29	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			01/16/15 14:29	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			01/16/15 14:29	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			01/16/15 14:29	1
1,2-Dichlorobenzene	ND		1.0		ug/L			01/16/15 14:29	1
1,2-Dichloroethane	ND		1.0		ug/L			01/16/15 14:29	1
1,2-Dichloropropane	ND		1.0		ug/L			01/16/15 14:29	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			01/16/15 14:29	1
1,3-Dichlorobenzene	ND		1.0		ug/L			01/16/15 14:29	1
1,3-Dichloropropane	ND		1.0		ug/L			01/16/15 14:29	1
1,4-Dichlorobenzene	ND		1.0		ug/L			01/16/15 14:29	1
1,4-Dioxane	ND	*	50		ug/L			01/16/15 14:29	1
2,2-Dichloropropane	ND		1.0		ug/L			01/16/15 14:29	1
2-Butanone (MEK)	**200**	*	10		ug/L			01/16/15 14:29	1
2-Chlorotoluene	ND		1.0		ug/L			01/16/15 14:29	1
2-Hexanone	ND		10		ug/L			01/16/15 14:29	1
4-Chlorotoluene	ND		1.0		ug/L			01/16/15 14:29	1
4-Isopropyltoluene	ND		1.0		ug/L			01/16/15 14:29	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			01/16/15 14:29	1
Acetone	**85**		50		ug/L			01/16/15 14:29	1
Benzene	ND		1.0		ug/L			01/16/15 14:29	1
Bromobenzene	ND		1.0		ug/L			01/16/15 14:29	1
Bromoform	ND		1.0		ug/L			01/16/15 14:29	1
Bromomethane	ND		2.0		ug/L			01/16/15 14:29	1
Carbon disulfide	ND		10		ug/L			01/16/15 14:29	1
Carbon tetrachloride	ND		1.0		ug/L			01/16/15 14:29	1
Chlorobenzene	ND		1.0		ug/L			01/16/15 14:29	1
Chlorobromomethane	ND		1.0		ug/L			01/16/15 14:29	1
Chlorodibromomethane	ND		0.50		ug/L			01/16/15 14:29	1
Chloroethane	ND		2.0		ug/L			01/16/15 14:29	1
Chloroform	ND		1.0		ug/L			01/16/15 14:29	1
Chloromethane	ND		2.0		ug/L			01/16/15 14:29	1
cis-1,2-Dichloroethene	**2.7**		1.0		ug/L			01/16/15 14:29	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			01/16/15 14:29	1
Dichlorobromomethane	ND		0.50		ug/L			01/16/15 14:29	1
Dichlorodifluoromethane	ND		1.0		ug/L			01/16/15 14:29	1
Ethyl ether	ND		1.0		ug/L			01/16/15 14:29	1
Ethylbenzene	ND		1.0		ug/L			01/16/15 14:29	1
Ethylene Dibromide	ND		1.0		ug/L			01/16/15 14:29	1
Hexachlorobutadiene	ND		0.40		ug/L			01/16/15 14:29	1
Isopropyl ether	ND		10		ug/L			01/16/15 14:29	1

Client Sample ID: MW-560-20150114

Lab Sample ID: 480-74193-5

Date Collected: 01/14/15 11:40

Matrix: Water

Date Received: 01/15/15 01:45

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			01/16/15 14:29	1
Methyl tert-butyl ether	ND		1.0		ug/L			01/16/15 14:29	1
Methylene Chloride	ND		1.0		ug/L			01/16/15 14:29	1
m-Xylene & p-Xylene	**3.1**		2.0		ug/L			01/16/15 14:29	1
Naphthalene	ND		5.0		ug/L			01/16/15 14:29	1
n-Butylbenzene	ND		1.0		ug/L			01/16/15 14:29	1
N-Propylbenzene	ND		1.0		ug/L			01/16/15 14:29	1
o-Xylene	ND		1.0		ug/L			01/16/15 14:29	1
sec-Butylbenzene	ND		1.0		ug/L			01/16/15 14:29	1
Styrene	ND		1.0		ug/L			01/16/15 14:29	1
Tert-amyl methyl ether	ND		5.0		ug/L			01/16/15 14:29	1
Tert-butyl ethyl ether	ND		5.0		ug/L			01/16/15 14:29	1
tert-Butylbenzene	ND		1.0		ug/L			01/16/15 14:29	1
Tetrachloroethene	ND		1.0		ug/L			01/16/15 14:29	1
Tetrahydrofuran	ND		10		ug/L			01/16/15 14:29	1
Toluene	**49**		1.0		ug/L			01/16/15 14:29	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			01/16/15 14:29	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			01/16/15 14:29	1
Trichloroethene	ND		1.0		ug/L			01/16/15 14:29	1
Trichlorofluoromethane	ND		1.0		ug/L			01/16/15 14:29	1
Vinyl chloride	**8.5**		1.0		ug/L			01/16/15 14:29	1
Dibromomethane	ND		1.0		ug/L			01/16/15 14:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*99*		*70 - 130*		*01/16/15 14:29*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 130*		*01/16/15 14:29*	*1*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*		*01/16/15 14:29*	*1*

Client Sample ID: MW-561-20150114

Lab Sample ID: 480-74193-6

Date Collected: 01/14/15 08:25

Matrix: Water

Date Received: 01/15/15 01:45

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			01/15/15 19:54	5
1,1,1-Trichloroethane	ND		5.0		ug/L			01/15/15 19:54	5
1,1,2,2-Tetrachloroethane	ND		2.5		ug/L			01/15/15 19:54	5
1,1,2-Trichloroethane	ND		5.0		ug/L			01/15/15 19:54	5
1,1-Dichloroethane	ND		5.0		ug/L			01/15/15 19:54	5
1,1-Dichloroethene	ND		5.0		ug/L			01/15/15 19:54	5
1,1-Dichloropropene	ND		5.0		ug/L			01/15/15 19:54	5
1,2,3-Trichlorobenzene	ND		5.0		ug/L			01/15/15 19:54	5
1,2,3-Trichloropropane	ND		5.0		ug/L			01/15/15 19:54	5
1,2,4-Trichlorobenzene	ND		5.0		ug/L			01/15/15 19:54	5
1,2,4-Trimethylbenzene	ND		5.0		ug/L			01/15/15 19:54	5
1,2-Dibromo-3-Chloropropane	ND		25		ug/L			01/15/15 19:54	5
1,2-Dichlorobenzene	ND		5.0		ug/L			01/15/15 19:54	5
1,2-Dichloroethane	ND		5.0		ug/L			01/15/15 19:54	5
1,2-Dichloropropane	ND		5.0		ug/L			01/15/15 19:54	5
1,3,5-Trimethylbenzene	ND		5.0		ug/L			01/15/15 19:54	5

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

TestAmerica Job ID: 480-74193-1

Client Sample ID: MW-561-20150114
Date Collected: 01/14/15 08:25
Date Received: 01/15/15 01:45

Lab Sample ID: 480-74193-6
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		5.0		ug/L			01/15/15 19:54	5
1,3-Dichloropropane	ND		5.0		ug/L			01/15/15 19:54	5
1,4-Dichlorobenzene	ND		5.0		ug/L			01/15/15 19:54	5
1,4-Dioxane	ND		250		ug/L			01/15/15 19:54	5
2,2-Dichloropropane	ND		5.0		ug/L			01/15/15 19:54	5
2-Butanone (MEK)	**100**	*	50		ug/L			01/15/15 19:54	5
2-Chlorotoluene	ND		5.0		ug/L			01/15/15 19:54	5
2-Hexanone	ND	*	50		ug/L			01/15/15 19:54	5
4-Chlorotoluene	ND		5.0		ug/L			01/15/15 19:54	5
4-Isopropyltoluene	ND		5.0		ug/L			01/15/15 19:54	5
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			01/15/15 19:54	5
Acetone	ND	*	250		ug/L			01/15/15 19:54	5
Benzene	ND		5.0		ug/L			01/15/15 19:54	5
Bromobenzene	ND		5.0		ug/L			01/15/15 19:54	5
Bromoform	ND		5.0		ug/L			01/15/15 19:54	5
Bromomethane	ND		10		ug/L			01/15/15 19:54	5
Carbon disulfide	ND		50		ug/L			01/15/15 19:54	5
Carbon tetrachloride	ND		5.0		ug/L			01/15/15 19:54	5
Chlorobenzene	ND		5.0		ug/L			01/15/15 19:54	5
Chlorobromomethane	ND		5.0		ug/L			01/15/15 19:54	5
Chlorodibromomethane	ND		2.5		ug/L			01/15/15 19:54	5
Chloroethane	ND		10		ug/L			01/15/15 19:54	5
Chloroform	ND		5.0		ug/L			01/15/15 19:54	5
Chloromethane	ND		10		ug/L			01/15/15 19:54	5
cis-1,2-Dichloroethene	ND		5.0		ug/L			01/15/15 19:54	5
cis-1,3-Dichloropropene	ND		2.0		ug/L			01/15/15 19:54	5
Dichlorobromomethane	ND		2.5		ug/L			01/15/15 19:54	5
Dichlorodifluoromethane	ND		5.0		ug/L			01/15/15 19:54	5
Ethyl ether	ND		5.0		ug/L			01/15/15 19:54	5
Ethylbenzene	**6.2**		5.0		ug/L			01/15/15 19:54	5
Ethylene Dibromide	ND		5.0		ug/L			01/15/15 19:54	5
Hexachlorobutadiene	ND		2.0		ug/L			01/15/15 19:54	5
Isopropyl ether	ND		50		ug/L			01/15/15 19:54	5
Isopropylbenzene	ND		5.0		ug/L			01/15/15 19:54	5
Methyl tert-butyl ether	ND		5.0		ug/L			01/15/15 19:54	5
Methylene Chloride	ND		5.0		ug/L			01/15/15 19:54	5
m-Xylene & p-Xylene	**26**		10		ug/L			01/15/15 19:54	5
Naphthalene	ND		25		ug/L			01/15/15 19:54	5
n-Butylbenzene	ND		5.0		ug/L			01/15/15 19:54	5
N-Propylbenzene	ND		5.0		ug/L			01/15/15 19:54	5
o-Xylene	**5.3**		5.0		ug/L			01/15/15 19:54	5
sec-Butylbenzene	ND		5.0		ug/L			01/15/15 19:54	5
Styrene	ND		5.0		ug/L			01/15/15 19:54	5
Tert-amyl methyl ether	ND		25		ug/L			01/15/15 19:54	5
Tert-butyl ethyl ether	ND		25		ug/L			01/15/15 19:54	5
tert-Butylbenzene	ND		5.0		ug/L			01/15/15 19:54	5
Tetrachloroethene	ND		5.0		ug/L			01/15/15 19:54	5
Tetrahydrofuran	ND		50		ug/L			01/15/15 19:54	5
Toluene	**160**		5.0		ug/L			01/15/15 19:54	5

Client Sample ID: MW-561-20150114

Lab Sample ID: 480-74193-6

Date Collected: 01/14/15 08:25

Matrix: Water

Date Received: 01/15/15 01:45

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			01/15/15 19:54	5
trans-1,3-Dichloropropene	ND		2.0		ug/L			01/15/15 19:54	5
Trichloroethene	ND		5.0		ug/L			01/15/15 19:54	5
Trichlorofluoromethane	ND		5.0		ug/L			01/15/15 19:54	5
Vinyl chloride	**61**		5.0		ug/L			01/15/15 19:54	5
Dibromomethane	ND		5.0		ug/L			01/15/15 19:54	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*97*		*70 - 130*		*01/15/15 19:54*	*5*
1,2-Dichloroethane-d4 (Surr)	*106*		*70 - 130*		*01/15/15 19:54*	*5*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*		*01/15/15 19:54*	*5*

Client Sample ID: MW-562-20150114

Lab Sample ID: 480-74193-7

Date Collected: 01/14/15 12:35

Matrix: Water

Date Received: 01/15/15 01:45

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			01/15/15 20:19	1
1,1,1-Trichloroethane	ND		1.0		ug/L			01/15/15 20:19	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			01/15/15 20:19	1
1,1,2-Trichloroethane	ND		1.0		ug/L			01/15/15 20:19	1
1,1-Dichloroethane	ND		1.0		ug/L			01/15/15 20:19	1
1,1-Dichloroethene	ND		1.0		ug/L			01/15/15 20:19	1
1,1-Dichloropropene	ND		1.0		ug/L			01/15/15 20:19	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			01/15/15 20:19	1
1,2,3-Trichloropropane	ND		1.0		ug/L			01/15/15 20:19	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			01/15/15 20:19	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			01/15/15 20:19	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			01/15/15 20:19	1
1,2-Dichlorobenzene	ND		1.0		ug/L			01/15/15 20:19	1
1,2-Dichloroethane	ND		1.0		ug/L			01/15/15 20:19	1
1,2-Dichloropropane	ND		1.0		ug/L			01/15/15 20:19	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			01/15/15 20:19	1
1,3-Dichlorobenzene	ND		1.0		ug/L			01/15/15 20:19	1
1,3-Dichloropropane	ND		1.0		ug/L			01/15/15 20:19	1
1,4-Dichlorobenzene	ND		1.0		ug/L			01/15/15 20:19	1
1,4-Dioxane	ND		50		ug/L			01/15/15 20:19	1
2,2-Dichloropropane	ND		1.0		ug/L			01/15/15 20:19	1
2-Butanone (MEK)	**330**	*	10		ug/L			01/15/15 20:19	1
2-Chlorotoluene	ND		1.0		ug/L			01/15/15 20:19	1
2-Hexanone	ND	*	10		ug/L			01/15/15 20:19	1
4-Chlorotoluene	ND		1.0		ug/L			01/15/15 20:19	1
4-Isopropyltoluene	ND		1.0		ug/L			01/15/15 20:19	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			01/15/15 20:19	1
Acetone	**64**	*	50		ug/L			01/15/15 20:19	1
Benzene	ND		1.0		ug/L			01/15/15 20:19	1
Bromobenzene	ND		1.0		ug/L			01/15/15 20:19	1
Bromoform	ND		1.0		ug/L			01/15/15 20:19	1
Bromomethane	ND		2.0		ug/L			01/15/15 20:19	1

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

TestAmerica Job ID: 480-74193-1

Client Sample ID: MW-562-20150114
Date Collected: 01/14/15 12:35
Date Received: 01/15/15 01:45

Lab Sample ID: 480-74193-7
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			01/15/15 20:19	1
Carbon tetrachloride	ND		1.0		ug/L			01/15/15 20:19	1
Chlorobenzene	ND		1.0		ug/L			01/15/15 20:19	1
Chlorobromomethane	ND		1.0		ug/L			01/15/15 20:19	1
Chlorodibromomethane	ND		0.50		ug/L			01/15/15 20:19	1
Chloroethane	ND		2.0		ug/L			01/15/15 20:19	1
Chloroform	ND		1.0		ug/L			01/15/15 20:19	1
Chloromethane	ND		2.0		ug/L			01/15/15 20:19	1
cis-1,2-Dichloroethene	**80**		1.0		ug/L			01/15/15 20:19	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			01/15/15 20:19	1
Dichlorobromomethane	ND		0.50		ug/L			01/15/15 20:19	1
Dichlorodifluoromethane	ND		1.0		ug/L			01/15/15 20:19	1
Ethyl ether	ND		1.0		ug/L			01/15/15 20:19	1
Ethylbenzene	ND		1.0		ug/L			01/15/15 20:19	1
Ethylene Dibromide	ND		1.0		ug/L			01/15/15 20:19	1
Hexachlorobutadiene	ND		0.40		ug/L			01/15/15 20:19	1
Isopropyl ether	ND		10		ug/L			01/15/15 20:19	1
Isopropylbenzene	ND		1.0		ug/L			01/15/15 20:19	1
Methyl tert-butyl ether	ND		1.0		ug/L			01/15/15 20:19	1
Methylene Chloride	ND		1.0		ug/L			01/15/15 20:19	1
m-Xylene & p-Xylene	**2.1**		2.0		ug/L			01/15/15 20:19	1
Naphthalene	ND		5.0		ug/L			01/15/15 20:19	1
n-Butylbenzene	ND		1.0		ug/L			01/15/15 20:19	1
N-Propylbenzene	ND		1.0		ug/L			01/15/15 20:19	1
o-Xylene	ND		1.0		ug/L			01/15/15 20:19	1
sec-Butylbenzene	ND		1.0		ug/L			01/15/15 20:19	1
Styrene	ND		1.0		ug/L			01/15/15 20:19	1
Tert-amyl methyl ether	ND		5.0		ug/L			01/15/15 20:19	1
Tert-butyl ethyl ether	ND		5.0		ug/L			01/15/15 20:19	1
tert-Butylbenzene	ND		1.0		ug/L			01/15/15 20:19	1
Tetrachloroethene	ND		1.0		ug/L			01/15/15 20:19	1
Tetrahydrofuran	ND		10		ug/L			01/15/15 20:19	1
Toluene	**33**		1.0		ug/L			01/15/15 20:19	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			01/15/15 20:19	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			01/15/15 20:19	1
Trichloroethene	ND		1.0		ug/L			01/15/15 20:19	1
Trichlorofluoromethane	ND		1.0		ug/L			01/15/15 20:19	1
Vinyl chloride	**69**		1.0		ug/L			01/15/15 20:19	1
Dibromomethane	ND		1.0		ug/L			01/15/15 20:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*98*		*70 - 130*		*01/15/15 20:19*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 130*		*01/15/15 20:19*	*1*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*		*01/15/15 20:19*	*1*

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

TestAmerica Job ID: 480-74193-1

Client Sample ID: MW-563-20150114
Date Collected: 01/14/15 09:50
Date Received: 01/15/15 01:45

Lab Sample ID: 480-74193-8
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			01/15/15 20:44	1
1,1,1-Trichloroethane	ND		1.0		ug/L			01/15/15 20:44	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			01/15/15 20:44	1
1,1,2-Trichloroethane	ND		1.0		ug/L			01/15/15 20:44	1
1,1-Dichloroethane	ND		1.0		ug/L			01/15/15 20:44	1
1,1-Dichloroethene	ND		1.0		ug/L			01/15/15 20:44	1
1,1-Dichloropropene	ND		1.0		ug/L			01/15/15 20:44	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			01/15/15 20:44	1
1,2,3-Trichloropropane	ND		1.0		ug/L			01/15/15 20:44	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			01/15/15 20:44	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			01/15/15 20:44	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			01/15/15 20:44	1
1,2-Dichlorobenzene	ND		1.0		ug/L			01/15/15 20:44	1
1,2-Dichloroethane	ND		1.0		ug/L			01/15/15 20:44	1
1,2-Dichloropropane	ND		1.0		ug/L			01/15/15 20:44	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			01/15/15 20:44	1
1,3-Dichlorobenzene	ND		1.0		ug/L			01/15/15 20:44	1
1,3-Dichloropropane	ND		1.0		ug/L			01/15/15 20:44	1
1,4-Dichlorobenzene	ND		1.0		ug/L			01/15/15 20:44	1
1,4-Dioxane	ND		50		ug/L			01/15/15 20:44	1
2,2-Dichloropropane	ND		1.0		ug/L			01/15/15 20:44	1
2-Butanone (MEK)	**320**	*	10		ug/L			01/15/15 20:44	1
2-Chlorotoluene	ND		1.0		ug/L			01/15/15 20:44	1
2-Hexanone	ND	*	10		ug/L			01/15/15 20:44	1
4-Chlorotoluene	ND		1.0		ug/L			01/15/15 20:44	1
4-Isopropyltoluene	ND		1.0		ug/L			01/15/15 20:44	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			01/15/15 20:44	1
Acetone	**100**	*	50		ug/L			01/15/15 20:44	1
Benzene	**1.0**		1.0		ug/L			01/15/15 20:44	1
Bromobenzene	ND		1.0		ug/L			01/15/15 20:44	1
Bromoform	ND		1.0		ug/L			01/15/15 20:44	1
Bromomethane	ND		2.0		ug/L			01/15/15 20:44	1
Carbon disulfide	ND		10		ug/L			01/15/15 20:44	1
Carbon tetrachloride	ND		1.0		ug/L			01/15/15 20:44	1
Chlorobenzene	ND		1.0		ug/L			01/15/15 20:44	1
Chlorobromomethane	ND		1.0		ug/L			01/15/15 20:44	1
Chlorodibromomethane	ND		0.50		ug/L			01/15/15 20:44	1
Chloroethane	ND		2.0		ug/L			01/15/15 20:44	1
Chloroform	ND		1.0		ug/L			01/15/15 20:44	1
Chloromethane	ND		2.0		ug/L			01/15/15 20:44	1
cis-1,2-Dichloroethene	**61**		1.0		ug/L			01/15/15 20:44	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			01/15/15 20:44	1
Dichlorobromomethane	ND		0.50		ug/L			01/15/15 20:44	1
Dichlorodifluoromethane	ND		1.0		ug/L			01/15/15 20:44	1
Ethyl ether	ND		1.0		ug/L			01/15/15 20:44	1
Ethylbenzene	**1.0**		1.0		ug/L			01/15/15 20:44	1
Ethylene Dibromide	ND		1.0		ug/L			01/15/15 20:44	1
Hexachlorobutadiene	ND		0.40		ug/L			01/15/15 20:44	1
Isopropyl ether	ND		10		ug/L			01/15/15 20:44	1

Client Sample ID: MW-563-20150114 — **Lab Sample ID: 480-74193-8**
Date Collected: 01/14/15 09:50 — **Matrix: Water**
Date Received: 01/15/15 01:45

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			01/15/15 20:44	1
Methyl tert-butyl ether	ND		1.0		ug/L			01/15/15 20:44	1
Methylene Chloride	ND		1.0		ug/L			01/15/15 20:44	1
m-Xylene & p-Xylene	**4.2**		2.0		ug/L			01/15/15 20:44	1
Naphthalene	ND		5.0		ug/L			01/15/15 20:44	1
n-Butylbenzene	ND		1.0		ug/L			01/15/15 20:44	1
N-Propylbenzene	ND		1.0		ug/L			01/15/15 20:44	1
o-Xylene	**1.1**		1.0		ug/L			01/15/15 20:44	1
sec-Butylbenzene	ND		1.0		ug/L			01/15/15 20:44	1
Styrene	ND		1.0		ug/L			01/15/15 20:44	1
Tert-amyl methyl ether	ND		5.0		ug/L			01/15/15 20:44	1
Tert-butyl ethyl ether	ND		5.0		ug/L			01/15/15 20:44	1
tert-Butylbenzene	ND		1.0		ug/L			01/15/15 20:44	1
Tetrachloroethene	ND		1.0		ug/L			01/15/15 20:44	1
Tetrahydrofuran	ND		10		ug/L			01/15/15 20:44	1
Toluene	**46**		1.0		ug/L			01/15/15 20:44	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			01/15/15 20:44	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			01/15/15 20:44	1
Trichloroethene	ND		1.0		ug/L			01/15/15 20:44	1
Trichlorofluoromethane	ND		1.0		ug/L			01/15/15 20:44	1
Vinyl chloride	**25**		1.0		ug/L			01/15/15 20:44	1
Dibromomethane	ND		1.0		ug/L			01/15/15 20:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*99*		*70 - 130*		*01/15/15 20:44*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 130*		*01/15/15 20:44*	*1*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*		*01/15/15 20:44*	*1*

Client Sample ID: REW-6-20150113 — **Lab Sample ID: 480-74193-9**
Date Collected: 01/13/15 12:15 — **Matrix: Water**
Date Received: 01/15/15 01:45

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			01/15/15 21:09	5
1,1,1-Trichloroethane	ND		5.0		ug/L			01/15/15 21:09	5
1,1,2,2-Tetrachloroethane	ND		2.5		ug/L			01/15/15 21:09	5
1,1,2-Trichloroethane	ND		5.0		ug/L			01/15/15 21:09	5
1,1-Dichloroethane	ND		5.0		ug/L			01/15/15 21:09	5
1,1-Dichloroethene	ND		5.0		ug/L			01/15/15 21:09	5
1,1-Dichloropropene	ND		5.0		ug/L			01/15/15 21:09	5
1,2,3-Trichlorobenzene	ND		5.0		ug/L			01/15/15 21:09	5
1,2,3-Trichloropropane	ND		5.0		ug/L			01/15/15 21:09	5
1,2,4-Trichlorobenzene	ND		5.0		ug/L			01/15/15 21:09	5
1,2,4-Trimethylbenzene	ND		5.0		ug/L			01/15/15 21:09	5
1,2-Dibromo-3-Chloropropane	ND		25		ug/L			01/15/15 21:09	5
1,2-Dichlorobenzene	ND		5.0		ug/L			01/15/15 21:09	5
1,2-Dichloroethane	ND		5.0		ug/L			01/15/15 21:09	5
1,2-Dichloropropane	ND		5.0		ug/L			01/15/15 21:09	5
1,3,5-Trimethylbenzene	ND		5.0		ug/L			01/15/15 21:09	5

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

TestAmerica Job ID: 480-74193-1

Client Sample ID: REW-6-20150113
Date Collected: 01/13/15 12:15
Date Received: 01/15/15 01:45

Lab Sample ID: 480-74193-9
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		5.0		ug/L			01/15/15 21:09	5
1,3-Dichloropropane	ND		5.0		ug/L			01/15/15 21:09	5
1,4-Dichlorobenzene	ND		5.0		ug/L			01/15/15 21:09	5
1,4-Dioxane	ND		250		ug/L			01/15/15 21:09	5
2,2-Dichloropropane	ND		5.0		ug/L			01/15/15 21:09	5
2-Butanone (MEK)	**110**	*	50		ug/L			01/15/15 21:09	5
2-Chlorotoluene	ND		5.0		ug/L			01/15/15 21:09	5
2-Hexanone	ND	*	50		ug/L			01/15/15 21:09	5
4-Chlorotoluene	ND		5.0		ug/L			01/15/15 21:09	5
4-Isopropyltoluene	ND		5.0		ug/L			01/15/15 21:09	5
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			01/15/15 21:09	5
Acetone	ND	*	250		ug/L			01/15/15 21:09	5
Benzene	ND		5.0		ug/L			01/15/15 21:09	5
Bromobenzene	ND		5.0		ug/L			01/15/15 21:09	5
Bromoform	ND		5.0		ug/L			01/15/15 21:09	5
Bromomethane	ND		10		ug/L			01/15/15 21:09	5
Carbon disulfide	ND		50		ug/L			01/15/15 21:09	5
Carbon tetrachloride	ND		5.0		ug/L			01/15/15 21:09	5
Chlorobenzene	ND		5.0		ug/L			01/15/15 21:09	5
Chlorobromomethane	ND		5.0		ug/L			01/15/15 21:09	5
Chlorodibromomethane	ND		2.5		ug/L			01/15/15 21:09	5
Chloroethane	ND		10		ug/L			01/15/15 21:09	5
Chloroform	ND		5.0		ug/L			01/15/15 21:09	5
Chloromethane	ND		10		ug/L			01/15/15 21:09	5
cis-1,2-Dichloroethene	**390**		5.0		ug/L			01/15/15 21:09	5
cis-1,3-Dichloropropene	ND		2.0		ug/L			01/15/15 21:09	5
Dichlorobromomethane	ND		2.5		ug/L			01/15/15 21:09	5
Dichlorodifluoromethane	ND		5.0		ug/L			01/15/15 21:09	5
Ethyl ether	ND		5.0		ug/L			01/15/15 21:09	5
Ethylbenzene	ND		5.0		ug/L			01/15/15 21:09	5
Ethylene Dibromide	ND		5.0		ug/L			01/15/15 21:09	5
Hexachlorobutadiene	ND		2.0		ug/L			01/15/15 21:09	5
Isopropyl ether	ND		50		ug/L			01/15/15 21:09	5
Isopropylbenzene	ND		5.0		ug/L			01/15/15 21:09	5
Methyl tert-butyl ether	ND		5.0		ug/L			01/15/15 21:09	5
Methylene Chloride	ND		5.0		ug/L			01/15/15 21:09	5
m-Xylene & p-Xylene	ND		10		ug/L			01/15/15 21:09	5
Naphthalene	ND		25		ug/L			01/15/15 21:09	5
n-Butylbenzene	ND		5.0		ug/L			01/15/15 21:09	5
N-Propylbenzene	ND		5.0		ug/L			01/15/15 21:09	5
o-Xylene	ND		5.0		ug/L			01/15/15 21:09	5
sec-Butylbenzene	ND		5.0		ug/L			01/15/15 21:09	5
Styrene	ND		5.0		ug/L			01/15/15 21:09	5
Tert-amyl methyl ether	ND		25		ug/L			01/15/15 21:09	5
Tert-butyl ethyl ether	ND		25		ug/L			01/15/15 21:09	5
tert-Butylbenzene	ND		5.0		ug/L			01/15/15 21:09	5
Tetrachloroethene	ND		5.0		ug/L			01/15/15 21:09	5
Tetrahydrofuran	ND		50		ug/L			01/15/15 21:09	5
Toluene	**110**		5.0		ug/L			01/15/15 21:09	5

Client Sample ID: REW-6-20150113

Lab Sample ID: 480-74193-9

Date Collected: 01/13/15 12:15

Matrix: Water

Date Received: 01/15/15 01:45

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			01/15/15 21:09	5
trans-1,3-Dichloropropene	ND		2.0		ug/L			01/15/15 21:09	5
Trichloroethene	**19**		5.0		ug/L			01/15/15 21:09	5
Trichlorofluoromethane	ND		5.0		ug/L			01/15/15 21:09	5
Vinyl chloride	**25**		5.0		ug/L			01/15/15 21:09	5
Dibromomethane	ND		5.0		ug/L			01/15/15 21:09	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*96*		*70 - 130*		*01/15/15 21:09*	*5*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 130*		*01/15/15 21:09*	*5*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*		*01/15/15 21:09*	*5*

Client Sample ID: REW-7-20150113

Lab Sample ID: 480-74193-10

Date Collected: 01/13/15 09:40

Matrix: Water

Date Received: 01/15/15 01:45

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			01/15/15 21:34	5
1,1,1-Trichloroethane	ND		5.0		ug/L			01/15/15 21:34	5
1,1,2,2-Tetrachloroethane	ND		2.5		ug/L			01/15/15 21:34	5
1,1,2-Trichloroethane	ND		5.0		ug/L			01/15/15 21:34	5
1,1-Dichloroethane	ND		5.0		ug/L			01/15/15 21:34	5
1,1-Dichloroethene	ND		5.0		ug/L			01/15/15 21:34	5
1,1-Dichloropropene	ND		5.0		ug/L			01/15/15 21:34	5
1,2,3-Trichlorobenzene	ND		5.0		ug/L			01/15/15 21:34	5
1,2,3-Trichloropropane	ND		5.0		ug/L			01/15/15 21:34	5
1,2,4-Trichlorobenzene	ND		5.0		ug/L			01/15/15 21:34	5
1,2,4-Trimethylbenzene	ND		5.0		ug/L			01/15/15 21:34	5
1,2-Dibromo-3-Chloropropane	ND		25		ug/L			01/15/15 21:34	5
1,2-Dichlorobenzene	ND		5.0		ug/L			01/15/15 21:34	5
1,2-Dichloroethane	ND		5.0		ug/L			01/15/15 21:34	5
1,2-Dichloropropane	ND		5.0		ug/L			01/15/15 21:34	5
1,3,5-Trimethylbenzene	ND		5.0		ug/L			01/15/15 21:34	5
1,3-Dichlorobenzene	ND		5.0		ug/L			01/15/15 21:34	5
1,3-Dichloropropane	ND		5.0		ug/L			01/15/15 21:34	5
1,4-Dichlorobenzene	ND		5.0		ug/L			01/15/15 21:34	5
1,4-Dioxane	ND		250		ug/L			01/15/15 21:34	5
2,2-Dichloropropane	ND		5.0		ug/L			01/15/15 21:34	5
2-Butanone (MEK)	**58**	*	50		ug/L			01/15/15 21:34	5
2-Chlorotoluene	ND		5.0		ug/L			01/15/15 21:34	5
2-Hexanone	ND	*	50		ug/L			01/15/15 21:34	5
4-Chlorotoluene	ND		5.0		ug/L			01/15/15 21:34	5
4-Isopropyltoluene	ND		5.0		ug/L			01/15/15 21:34	5
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			01/15/15 21:34	5
Acetone	ND	*	250		ug/L			01/15/15 21:34	5
Benzene	ND		5.0		ug/L			01/15/15 21:34	5
Bromobenzene	ND		5.0		ug/L			01/15/15 21:34	5
Bromoform	ND		5.0		ug/L			01/15/15 21:34	5
Bromomethane	ND		10		ug/L			01/15/15 21:34	5

Client Sample ID: REW-7-20150113
Date Collected: 01/13/15 09:40
Date Received: 01/15/15 01:45

Lab Sample ID: 480-74193-10
Matrix: Water

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			01/15/15 21:34	5
Carbon tetrachloride	ND		5.0		ug/L			01/15/15 21:34	5
Chlorobenzene	ND		5.0		ug/L			01/15/15 21:34	5
Chlorobromomethane	ND		5.0		ug/L			01/15/15 21:34	5
Chlorodibromomethane	ND		2.5		ug/L			01/15/15 21:34	5
Chloroethane	ND		10		ug/L			01/15/15 21:34	5
Chloroform	ND		5.0		ug/L			01/15/15 21:34	5
Chloromethane	ND		10		ug/L			01/15/15 21:34	5
cis-1,2-Dichloroethene	**230**		5.0		ug/L			01/15/15 21:34	5
cis-1,3-Dichloropropene	ND		2.0		ug/L			01/15/15 21:34	5
Dichlorobromomethane	ND		2.5		ug/L			01/15/15 21:34	5
Dichlorodifluoromethane	ND		5.0		ug/L			01/15/15 21:34	5
Ethyl ether	ND		5.0		ug/L			01/15/15 21:34	5
Ethylbenzene	ND		5.0		ug/L			01/15/15 21:34	5
Ethylene Dibromide	ND		5.0		ug/L			01/15/15 21:34	5
Hexachlorobutadiene	ND		2.0		ug/L			01/15/15 21:34	5
Isopropyl ether	ND		50		ug/L			01/15/15 21:34	5
Isopropylbenzene	ND		5.0		ug/L			01/15/15 21:34	5
Methyl tert-butyl ether	ND		5.0		ug/L			01/15/15 21:34	5
Methylene Chloride	ND		5.0		ug/L			01/15/15 21:34	5
m-Xylene & p-Xylene	ND		10		ug/L			01/15/15 21:34	5
Naphthalene	ND		25		ug/L			01/15/15 21:34	5
n-Butylbenzene	ND		5.0		ug/L			01/15/15 21:34	5
N-Propylbenzene	ND		5.0		ug/L			01/15/15 21:34	5
o-Xylene	ND		5.0		ug/L			01/15/15 21:34	5
sec-Butylbenzene	ND		5.0		ug/L			01/15/15 21:34	5
Styrene	ND		5.0		ug/L			01/15/15 21:34	5
Tert-amyl methyl ether	ND		25		ug/L			01/15/15 21:34	5
Tert-butyl ethyl ether	ND		25		ug/L			01/15/15 21:34	5
tert-Butylbenzene	ND		5.0		ug/L			01/15/15 21:34	5
Tetrachloroethene	ND		5.0		ug/L			01/15/15 21:34	5
Tetrahydrofuran	ND		50		ug/L			01/15/15 21:34	5
Toluene	**110**		5.0		ug/L			01/15/15 21:34	5
trans-1,2-Dichloroethene	ND		5.0		ug/L			01/15/15 21:34	5
trans-1,3-Dichloropropene	ND		2.0		ug/L			01/15/15 21:34	5
Trichloroethene	ND		5.0		ug/L			01/15/15 21:34	5
Trichlorofluoromethane	ND		5.0		ug/L			01/15/15 21:34	5
Vinyl chloride	**77**		5.0		ug/L			01/15/15 21:34	5
Dibromomethane	ND		5.0		ug/L			01/15/15 21:34	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*97*		*70 - 130*		*01/15/15 21:34*	*5*
1,2-Dichloroethane-d4 (Surr)	*105*		*70 - 130*		*01/15/15 21:34*	*5*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*		*01/15/15 21:34*	*5*

Client Sample ID: REW-8-20150113
Date Collected: 01/13/15 10:20
Date Received: 01/15/15 01:45

Lab Sample ID: 480-74193-11
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			01/15/15 21:59	1
1,1,1-Trichloroethane	ND		1.0		ug/L			01/15/15 21:59	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			01/15/15 21:59	1
1,1,2-Trichloroethane	ND		1.0		ug/L			01/15/15 21:59	1
1,1-Dichloroethane	ND		1.0		ug/L			01/15/15 21:59	1
1,1-Dichloroethene	ND		1.0		ug/L			01/15/15 21:59	1
1,1-Dichloropropene	ND		1.0		ug/L			01/15/15 21:59	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			01/15/15 21:59	1
1,2,3-Trichloropropane	ND		1.0		ug/L			01/15/15 21:59	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			01/15/15 21:59	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			01/15/15 21:59	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			01/15/15 21:59	1
1,2-Dichlorobenzene	ND		1.0		ug/L			01/15/15 21:59	1
1,2-Dichloroethane	ND		1.0		ug/L			01/15/15 21:59	1
1,2-Dichloropropane	ND		1.0		ug/L			01/15/15 21:59	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			01/15/15 21:59	1
1,3-Dichlorobenzene	ND		1.0		ug/L			01/15/15 21:59	1
1,3-Dichloropropane	ND		1.0		ug/L			01/15/15 21:59	1
1,4-Dichlorobenzene	ND		1.0		ug/L			01/15/15 21:59	1
1,4-Dioxane	ND		50		ug/L			01/15/15 21:59	1
2,2-Dichloropropane	ND		1.0		ug/L			01/15/15 21:59	1
2-Butanone (MEK)	**79**	*	10		ug/L			01/15/15 21:59	1
2-Chlorotoluene	ND		1.0		ug/L			01/15/15 21:59	1
2-Hexanone	ND	*	10		ug/L			01/15/15 21:59	1
4-Chlorotoluene	ND		1.0		ug/L			01/15/15 21:59	1
4-Isopropyltoluene	ND		1.0		ug/L			01/15/15 21:59	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			01/15/15 21:59	1
Acetone	**63**	*	50		ug/L			01/15/15 21:59	1
Benzene	ND		1.0		ug/L			01/15/15 21:59	1
Bromobenzene	ND		1.0		ug/L			01/15/15 21:59	1
Bromoform	ND		1.0		ug/L			01/15/15 21:59	1
Bromomethane	ND		2.0		ug/L			01/15/15 21:59	1
Carbon disulfide	ND		10		ug/L			01/15/15 21:59	1
Carbon tetrachloride	ND		1.0		ug/L			01/15/15 21:59	1
Chlorobenzene	ND		1.0		ug/L			01/15/15 21:59	1
Chlorobromomethane	ND		1.0		ug/L			01/15/15 21:59	1
Chlorodibromomethane	ND		0.50		ug/L			01/15/15 21:59	1
Chloroethane	ND		2.0		ug/L			01/15/15 21:59	1
Chloroform	ND		1.0		ug/L			01/15/15 21:59	1
Chloromethane	ND		2.0		ug/L			01/15/15 21:59	1
cis-1,2-Dichloroethene	**48**		1.0		ug/L			01/15/15 21:59	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			01/15/15 21:59	1
Dichlorobromomethane	ND		0.50		ug/L			01/15/15 21:59	1
Dichlorodifluoromethane	ND		1.0		ug/L			01/15/15 21:59	1
Ethyl ether	ND		1.0		ug/L			01/15/15 21:59	1
Ethylbenzene	ND		1.0		ug/L			01/15/15 21:59	1
Ethylene Dibromide	ND		1.0		ug/L			01/15/15 21:59	1
Hexachlorobutadiene	ND		0.40		ug/L			01/15/15 21:59	1
Isopropyl ether	ND		10		ug/L			01/15/15 21:59	1

Client Sample ID: REW-8-20150113 — **Lab Sample ID: 480-74193-11**
Date Collected: 01/13/15 10:20 — **Matrix: Water**
Date Received: 01/15/15 01:45

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			01/15/15 21:59	1
Methyl tert-butyl ether	ND		1.0		ug/L			01/15/15 21:59	1
Methylene Chloride	ND		1.0		ug/L			01/15/15 21:59	1
m-Xylene & p-Xylene	**2.6**		2.0		ug/L			01/15/15 21:59	1
Naphthalene	ND		5.0		ug/L			01/15/15 21:59	1
n-Butylbenzene	ND		1.0		ug/L			01/15/15 21:59	1
N-Propylbenzene	ND		1.0		ug/L			01/15/15 21:59	1
o-Xylene	ND		1.0		ug/L			01/15/15 21:59	1
sec-Butylbenzene	ND		1.0		ug/L			01/15/15 21:59	1
Styrene	ND		1.0		ug/L			01/15/15 21:59	1
Tert-amyl methyl ether	ND		5.0		ug/L			01/15/15 21:59	1
Tert-butyl ethyl ether	ND		5.0		ug/L			01/15/15 21:59	1
tert-Butylbenzene	ND		1.0		ug/L			01/15/15 21:59	1
Tetrachloroethene	ND		1.0		ug/L			01/15/15 21:59	1
Tetrahydrofuran	ND		10		ug/L			01/15/15 21:59	1
Toluene	**38**		1.0		ug/L			01/15/15 21:59	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			01/15/15 21:59	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			01/15/15 21:59	1
Trichloroethene	**1.4**		1.0		ug/L			01/15/15 21:59	1
Trichlorofluoromethane	ND		1.0		ug/L			01/15/15 21:59	1
Vinyl chloride	**42**		1.0		ug/L			01/15/15 21:59	1
Dibromomethane	ND		1.0		ug/L			01/15/15 21:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*97*		*70 - 130*		*01/15/15 21:59*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 130*		*01/15/15 21:59*	*1*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*		*01/15/15 21:59*	*1*

Client Sample ID: REW-11-20150113 — **Lab Sample ID: 480-74193-12**
Date Collected: 01/13/15 11:25 — **Matrix: Water**
Date Received: 01/15/15 01:45

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			01/15/15 22:24	10
1,1,1-Trichloroethane	ND		10		ug/L			01/15/15 22:24	10
1,1,2,2-Tetrachloroethane	ND		5.0		ug/L			01/15/15 22:24	10
1,1,2-Trichloroethane	ND		10		ug/L			01/15/15 22:24	10
1,1-Dichloroethane	ND		10		ug/L			01/15/15 22:24	10
1,1-Dichloroethene	ND		10		ug/L			01/15/15 22:24	10
1,1-Dichloropropene	ND		10		ug/L			01/15/15 22:24	10
1,2,3-Trichlorobenzene	ND		10		ug/L			01/15/15 22:24	10
1,2,3-Trichloropropane	ND		10		ug/L			01/15/15 22:24	10
1,2,4-Trichlorobenzene	ND		10		ug/L			01/15/15 22:24	10
1,2,4-Trimethylbenzene	ND		10		ug/L			01/15/15 22:24	10
1,2-Dibromo-3-Chloropropane	ND		50		ug/L			01/15/15 22:24	10
1,2-Dichlorobenzene	ND		10		ug/L			01/15/15 22:24	10
1,2-Dichloroethane	ND		10		ug/L			01/15/15 22:24	10
1,2-Dichloropropane	ND		10		ug/L			01/15/15 22:24	10
1,3,5-Trimethylbenzene	ND		10		ug/L			01/15/15 22:24	10

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

TestAmerica Job ID: 480-74193-1

Client Sample ID: REW-11-20150113
Date Collected: 01/13/15 11:25
Date Received: 01/15/15 01:45

Lab Sample ID: 480-74193-12
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		10		ug/L			01/15/15 22:24	10
1,3-Dichloropropane	ND		10		ug/L			01/15/15 22:24	10
1,4-Dichlorobenzene	ND		10		ug/L			01/15/15 22:24	10
1,4-Dioxane	ND		500		ug/L			01/15/15 22:24	10
2,2-Dichloropropane	ND		10		ug/L			01/15/15 22:24	10
2-Butanone (MEK)	ND	*	100		ug/L			01/15/15 22:24	10
2-Chlorotoluene	ND		10		ug/L			01/15/15 22:24	10
2-Hexanone	ND	*	100		ug/L			01/15/15 22:24	10
4-Chlorotoluene	ND		10		ug/L			01/15/15 22:24	10
4-Isopropyltoluene	ND		10		ug/L			01/15/15 22:24	10
4-Methyl-2-pentanone (MIBK)	ND		100		ug/L			01/15/15 22:24	10
Acetone	ND	*	500		ug/L			01/15/15 22:24	10
Benzene	ND		10		ug/L			01/15/15 22:24	10
Bromobenzene	ND		10		ug/L			01/15/15 22:24	10
Bromoform	ND		10		ug/L			01/15/15 22:24	10
Bromomethane	ND		20		ug/L			01/15/15 22:24	10
Carbon disulfide	ND		100		ug/L			01/15/15 22:24	10
Carbon tetrachloride	ND		10		ug/L			01/15/15 22:24	10
Chlorobenzene	ND		10		ug/L			01/15/15 22:24	10
Chlorobromomethane	ND		10		ug/L			01/15/15 22:24	10
Chlorodibromomethane	ND		5.0		ug/L			01/15/15 22:24	10
Chloroethane	ND		20		ug/L			01/15/15 22:24	10
Chloroform	ND		10		ug/L			01/15/15 22:24	10
Chloromethane	ND		20		ug/L			01/15/15 22:24	10
cis-1,3-Dichloropropene	ND		4.0		ug/L			01/15/15 22:24	10
Dichlorobromomethane	ND		5.0		ug/L			01/15/15 22:24	10
Dichlorodifluoromethane	ND		10		ug/L			01/15/15 22:24	10
Ethyl ether	ND		10		ug/L			01/15/15 22:24	10
Ethylbenzene	ND		10		ug/L			01/15/15 22:24	10
Ethylene Dibromide	ND		10		ug/L			01/15/15 22:24	10
Hexachlorobutadiene	ND		4.0		ug/L			01/15/15 22:24	10
Isopropyl ether	ND		100		ug/L			01/15/15 22:24	10
Isopropylbenzene	ND		10		ug/L			01/15/15 22:24	10
Methyl tert-butyl ether	ND		10		ug/L			01/15/15 22:24	10
Methylene Chloride	ND		10		ug/L			01/15/15 22:24	10
m-Xylene & p-Xylene	ND		20		ug/L			01/15/15 22:24	10
Naphthalene	ND		50		ug/L			01/15/15 22:24	10
n-Butylbenzene	ND		10		ug/L			01/15/15 22:24	10
N-Propylbenzene	ND		10		ug/L			01/15/15 22:24	10
o-Xylene	ND		10		ug/L			01/15/15 22:24	10
sec-Butylbenzene	ND		10		ug/L			01/15/15 22:24	10
Styrene	ND		10		ug/L			01/15/15 22:24	10
Tert-amyl methyl ether	ND		50		ug/L			01/15/15 22:24	10
Tert-butyl ethyl ether	ND		50		ug/L			01/15/15 22:24	10
tert-Butylbenzene	ND		10		ug/L			01/15/15 22:24	10
Tetrachloroethene	ND		10		ug/L			01/15/15 22:24	10
Tetrahydrofuran	ND		100		ug/L			01/15/15 22:24	10
Toluene	ND		10		ug/L			01/15/15 22:24	10
trans-1,2-Dichloroethene	ND		10		ug/L			01/15/15 22:24	10

Client Sample ID: REW-11-20150113 — **Lab Sample ID: 480-74193-12**
Date Collected: 01/13/15 11:25 — **Matrix: Water**
Date Received: 01/15/15 01:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	ND		4.0		ug/L			01/15/15 22:24	10
Trichloroethene	**330**		10		ug/L			01/15/15 22:24	10
Trichlorofluoromethane	ND		10		ug/L			01/15/15 22:24	10
Vinyl chloride	**110**		10		ug/L			01/15/15 22:24	10
Dibromomethane	ND		10		ug/L			01/15/15 22:24	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*97*		*70 - 130*		*01/15/15 22:24*	*10*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 130*		*01/15/15 22:24*	*10*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*		*01/15/15 22:24*	*10*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	**1500**		20		ug/L			01/16/15 15:20	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*100*		*70 - 130*		*01/16/15 15:20*	*20*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 130*		*01/16/15 15:20*	*20*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*01/16/15 15:20*	*20*

Client Sample ID: REW-12-20150113 — **Lab Sample ID: 480-74193-13**
Date Collected: 01/13/15 09:00 — **Matrix: Water**
Date Received: 01/15/15 01:45

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			01/15/15 22:49	5
1,1,1-Trichloroethane	ND		5.0		ug/L			01/15/15 22:49	5
1,1,2,2-Tetrachloroethane	ND		2.5		ug/L			01/15/15 22:49	5
1,1,2-Trichloroethane	ND		5.0		ug/L			01/15/15 22:49	5
1,1-Dichloroethane	ND		5.0		ug/L			01/15/15 22:49	5
1,1-Dichloroethene	ND		5.0		ug/L			01/15/15 22:49	5
1,1-Dichloropropene	ND		5.0		ug/L			01/15/15 22:49	5
1,2,3-Trichlorobenzene	ND		5.0		ug/L			01/15/15 22:49	5
1,2,3-Trichloropropane	ND		5.0		ug/L			01/15/15 22:49	5
1,2,4-Trichlorobenzene	ND		5.0		ug/L			01/15/15 22:49	5
1,2,4-Trimethylbenzene	ND		5.0		ug/L			01/15/15 22:49	5
1,2-Dibromo-3-Chloropropane	ND		25		ug/L			01/15/15 22:49	5
1,2-Dichlorobenzene	ND		5.0		ug/L			01/15/15 22:49	5
1,2-Dichloroethane	ND		5.0		ug/L			01/15/15 22:49	5
1,2-Dichloropropane	ND		5.0		ug/L			01/15/15 22:49	5
1,3,5-Trimethylbenzene	ND		5.0		ug/L			01/15/15 22:49	5
1,3-Dichlorobenzene	ND		5.0		ug/L			01/15/15 22:49	5
1,3-Dichloropropane	ND		5.0		ug/L			01/15/15 22:49	5
1,4-Dichlorobenzene	ND		5.0		ug/L			01/15/15 22:49	5
1,4-Dioxane	ND		250		ug/L			01/15/15 22:49	5
2,2-Dichloropropane	ND		5.0		ug/L			01/15/15 22:49	5
2-Butanone (MEK)	ND	*	50		ug/L			01/15/15 22:49	5
2-Chlorotoluene	ND		5.0		ug/L			01/15/15 22:49	5
2-Hexanone	ND	*	50		ug/L			01/15/15 22:49	5

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

TestAmerica Job ID: 480-74193-1

Client Sample ID: REW-12-20150113
Date Collected: 01/13/15 09:00
Date Received: 01/15/15 01:45

Lab Sample ID: 480-74193-13
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			01/15/15 22:49	5
4-Isopropyltoluene	ND		5.0		ug/L			01/15/15 22:49	5
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			01/15/15 22:49	5
Acetone	ND	*	250		ug/L			01/15/15 22:49	5
Benzene	ND		5.0		ug/L			01/15/15 22:49	5
Bromobenzene	ND		5.0		ug/L			01/15/15 22:49	5
Bromoform	ND		5.0		ug/L			01/15/15 22:49	5
Bromomethane	ND		10		ug/L			01/15/15 22:49	5
Carbon disulfide	ND		50		ug/L			01/15/15 22:49	5
Carbon tetrachloride	ND		5.0		ug/L			01/15/15 22:49	5
Chlorobenzene	ND		5.0		ug/L			01/15/15 22:49	5
Chlorobromomethane	ND		5.0		ug/L			01/15/15 22:49	5
Chlorodibromomethane	ND		2.5		ug/L			01/15/15 22:49	5
Chloroethane	ND		10		ug/L			01/15/15 22:49	5
Chloroform	ND		5.0		ug/L			01/15/15 22:49	5
Chloromethane	ND		10		ug/L			01/15/15 22:49	5
cis-1,2-Dichloroethene	**270**		5.0		ug/L			01/15/15 22:49	5
cis-1,3-Dichloropropene	ND		2.0		ug/L			01/15/15 22:49	5
Dichlorobromomethane	ND		2.5		ug/L			01/15/15 22:49	5
Dichlorodifluoromethane	ND		5.0		ug/L			01/15/15 22:49	5
Ethyl ether	ND		5.0		ug/L			01/15/15 22:49	5
Ethylbenzene	ND		5.0		ug/L			01/15/15 22:49	5
Ethylene Dibromide	ND		5.0		ug/L			01/15/15 22:49	5
Hexachlorobutadiene	ND		2.0		ug/L			01/15/15 22:49	5
Isopropyl ether	ND		50		ug/L			01/15/15 22:49	5
Isopropylbenzene	ND		5.0		ug/L			01/15/15 22:49	5
Methyl tert-butyl ether	ND		5.0		ug/L			01/15/15 22:49	5
Methylene Chloride	ND		5.0		ug/L			01/15/15 22:49	5
m-Xylene & p-Xylene	ND		10		ug/L			01/15/15 22:49	5
Naphthalene	ND		25		ug/L			01/15/15 22:49	5
n-Butylbenzene	ND		5.0		ug/L			01/15/15 22:49	5
N-Propylbenzene	ND		5.0		ug/L			01/15/15 22:49	5
o-Xylene	ND		5.0		ug/L			01/15/15 22:49	5
sec-Butylbenzene	ND		5.0		ug/L			01/15/15 22:49	5
Styrene	ND		5.0		ug/L			01/15/15 22:49	5
Tert-amyl methyl ether	ND		25		ug/L			01/15/15 22:49	5
Tert-butyl ethyl ether	ND		25		ug/L			01/15/15 22:49	5
tert-Butylbenzene	ND		5.0		ug/L			01/15/15 22:49	5
Tetrachloroethene	ND		5.0		ug/L			01/15/15 22:49	5
Tetrahydrofuran	ND		50		ug/L			01/15/15 22:49	5
Toluene	**71**		5.0		ug/L			01/15/15 22:49	5
trans-1,2-Dichloroethene	ND		5.0		ug/L			01/15/15 22:49	5
trans-1,3-Dichloropropene	ND		2.0		ug/L			01/15/15 22:49	5
Trichloroethene	**18**		5.0		ug/L			01/15/15 22:49	5
Trichlorofluoromethane	ND		5.0		ug/L			01/15/15 22:49	5
Vinyl chloride	**75**		5.0		ug/L			01/15/15 22:49	5
Dibromomethane	ND		5.0		ug/L			01/15/15 22:49	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*96*		*70 - 130*		*01/15/15 22:49*	*5*

Client Sample ID: REW-12-20150113 — **Lab Sample ID: 480-74193-13**
Date Collected: 01/13/15 09:00 — **Matrix: Water**
Date Received: 01/15/15 01:45

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 130*		*01/15/15 22:49*	*5*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*		*01/15/15 22:49*	*5*

Client Sample ID: DUP-20150114 — **Lab Sample ID: 480-74193-14**
Date Collected: 01/14/15 00:00 — **Matrix: Water**
Date Received: 01/15/15 01:45

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			01/15/15 23:14	20
1,1,1-Trichloroethane	ND		20		ug/L			01/15/15 23:14	20
1,1,2,2-Tetrachloroethane	ND		10		ug/L			01/15/15 23:14	20
1,1,2-Trichloroethane	ND		20		ug/L			01/15/15 23:14	20
1,1-Dichloroethane	ND		20		ug/L			01/15/15 23:14	20
1,1-Dichloroethene	ND		20		ug/L			01/15/15 23:14	20
1,1-Dichloropropene	ND		20		ug/L			01/15/15 23:14	20
1,2,3-Trichlorobenzene	ND		20		ug/L			01/15/15 23:14	20
1,2,3-Trichloropropane	ND		20		ug/L			01/15/15 23:14	20
1,2,4-Trichlorobenzene	ND		20		ug/L			01/15/15 23:14	20
1,2,4-Trimethylbenzene	ND		20		ug/L			01/15/15 23:14	20
1,2-Dibromo-3-Chloropropane	ND		100		ug/L			01/15/15 23:14	20
1,2-Dichlorobenzene	ND		20		ug/L			01/15/15 23:14	20
1,2-Dichloroethane	ND		20		ug/L			01/15/15 23:14	20
1,2-Dichloropropane	ND		20		ug/L			01/15/15 23:14	20
1,3,5-Trimethylbenzene	ND		20		ug/L			01/15/15 23:14	20
1,3-Dichlorobenzene	ND		20		ug/L			01/15/15 23:14	20
1,3-Dichloropropane	ND		20		ug/L			01/15/15 23:14	20
1,4-Dichlorobenzene	ND		20		ug/L			01/15/15 23:14	20
1,4-Dioxane	ND		1000		ug/L			01/15/15 23:14	20
2,2-Dichloropropane	ND		20		ug/L			01/15/15 23:14	20
2-Butanone (MEK)	ND	*	200		ug/L			01/15/15 23:14	20
2-Chlorotoluene	ND		20		ug/L			01/15/15 23:14	20
2-Hexanone	ND	*	200		ug/L			01/15/15 23:14	20
4-Chlorotoluene	ND		20		ug/L			01/15/15 23:14	20
4-Isopropyltoluene	ND		20		ug/L			01/15/15 23:14	20
4-Methyl-2-pentanone (MIBK)	ND		200		ug/L			01/15/15 23:14	20
Acetone	ND	*	1000		ug/L			01/15/15 23:14	20
Benzene	ND		20		ug/L			01/15/15 23:14	20
Bromobenzene	ND		20		ug/L			01/15/15 23:14	20
Bromoform	ND		20		ug/L			01/15/15 23:14	20
Bromomethane	ND		40		ug/L			01/15/15 23:14	20
Carbon disulfide	ND		200		ug/L			01/15/15 23:14	20
Carbon tetrachloride	ND		20		ug/L			01/15/15 23:14	20
Chlorobenzene	ND		20		ug/L			01/15/15 23:14	20
Chlorobromomethane	ND		20		ug/L			01/15/15 23:14	20
Chlorodibromomethane	ND		10		ug/L			01/15/15 23:14	20
Chloroethane	ND		40		ug/L			01/15/15 23:14	20
Chloroform	ND		20		ug/L			01/15/15 23:14	20
Chloromethane	ND		40		ug/L			01/15/15 23:14	20

Client Sample ID: DUP-20150114
Date Collected: 01/14/15 00:00
Date Received: 01/15/15 01:45

Lab Sample ID: 480-74193-14
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND		8.0		ug/L			01/15/15 23:14	20
Dichlorobromomethane	ND		10		ug/L			01/15/15 23:14	20
Dichlorodifluoromethane	ND		20		ug/L			01/15/15 23:14	20
Ethyl ether	ND		20		ug/L			01/15/15 23:14	20
Ethylbenzene	ND		20		ug/L			01/15/15 23:14	20
Ethylene Dibromide	ND		20		ug/L			01/15/15 23:14	20
Hexachlorobutadiene	ND		8.0		ug/L			01/15/15 23:14	20
Isopropyl ether	ND		200		ug/L			01/15/15 23:14	20
Isopropylbenzene	ND		20		ug/L			01/15/15 23:14	20
Methyl tert-butyl ether	ND		20		ug/L			01/15/15 23:14	20
Methylene Chloride	ND		20		ug/L			01/15/15 23:14	20
m-Xylene & p-Xylene	ND		40		ug/L			01/15/15 23:14	20
Naphthalene	ND		100		ug/L			01/15/15 23:14	20
n-Butylbenzene	ND		20		ug/L			01/15/15 23:14	20
N-Propylbenzene	ND		20		ug/L			01/15/15 23:14	20
o-Xylene	ND		20		ug/L			01/15/15 23:14	20
sec-Butylbenzene	ND		20		ug/L			01/15/15 23:14	20
Styrene	ND		20		ug/L			01/15/15 23:14	20
Tert-amyl methyl ether	ND		100		ug/L			01/15/15 23:14	20
Tert-butyl ethyl ether	ND		100		ug/L			01/15/15 23:14	20
tert-Butylbenzene	ND		20		ug/L			01/15/15 23:14	20
Tetrachloroethene	ND		20		ug/L			01/15/15 23:14	20
Tetrahydrofuran	ND		200		ug/L			01/15/15 23:14	20
Toluene	ND		20		ug/L			01/15/15 23:14	20
trans-1,2-Dichloroethene	ND		20		ug/L			01/15/15 23:14	20
trans-1,3-Dichloropropene	ND		8.0		ug/L			01/15/15 23:14	20
Trichloroethene	ND		20		ug/L			01/15/15 23:14	20
Trichlorofluoromethane	ND		20		ug/L			01/15/15 23:14	20
Vinyl chloride	**150**		20		ug/L			01/15/15 23:14	20
Dibromomethane	ND		20		ug/L			01/15/15 23:14	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*96*		*70 - 130*		*01/15/15 23:14*	*20*
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 130*		*01/15/15 23:14*	*20*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*		*01/15/15 23:14*	*20*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	**3000**		40		ug/L			01/16/15 15:45	40

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*97*		*70 - 130*		*01/16/15 15:45*	*40*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 130*		*01/16/15 15:45*	*40*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*		*01/16/15 15:45*	*40*

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

TestAmerica Job ID: 480-74193-1

Client Sample ID: TRIP BLANK
Date Collected: 01/14/15 00:00
Date Received: 01/15/15 01:45

Lab Sample ID: 480-74193-15
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			01/15/15 23:39	1
1,1,1-Trichloroethane	ND		1.0		ug/L			01/15/15 23:39	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			01/15/15 23:39	1
1,1,2-Trichloroethane	ND		1.0		ug/L			01/15/15 23:39	1
1,1-Dichloroethane	ND		1.0		ug/L			01/15/15 23:39	1
1,1-Dichloroethene	ND		1.0		ug/L			01/15/15 23:39	1
1,1-Dichloropropene	ND		1.0		ug/L			01/15/15 23:39	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			01/15/15 23:39	1
1,2,3-Trichloropropane	ND		1.0		ug/L			01/15/15 23:39	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			01/15/15 23:39	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			01/15/15 23:39	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			01/15/15 23:39	1
1,2-Dichlorobenzene	ND		1.0		ug/L			01/15/15 23:39	1
1,2-Dichloroethane	ND		1.0		ug/L			01/15/15 23:39	1
1,2-Dichloropropane	ND		1.0		ug/L			01/15/15 23:39	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			01/15/15 23:39	1
1,3-Dichlorobenzene	ND		1.0		ug/L			01/15/15 23:39	1
1,3-Dichloropropane	ND		1.0		ug/L			01/15/15 23:39	1
1,4-Dichlorobenzene	ND		1.0		ug/L			01/15/15 23:39	1
1,4-Dioxane	ND		50		ug/L			01/15/15 23:39	1
2,2-Dichloropropane	ND		1.0		ug/L			01/15/15 23:39	1
2-Butanone (MEK)	ND	*	10		ug/L			01/15/15 23:39	1
2-Chlorotoluene	ND		1.0		ug/L			01/15/15 23:39	1
2-Hexanone	ND	*	10		ug/L			01/15/15 23:39	1
4-Chlorotoluene	ND		1.0		ug/L			01/15/15 23:39	1
4-Isopropyltoluene	ND		1.0		ug/L			01/15/15 23:39	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			01/15/15 23:39	1
Acetone	ND	*	50		ug/L			01/15/15 23:39	1
Benzene	ND		1.0		ug/L			01/15/15 23:39	1
Bromobenzene	ND		1.0		ug/L			01/15/15 23:39	1
Bromoform	ND		1.0		ug/L			01/15/15 23:39	1
Bromomethane	ND		2.0		ug/L			01/15/15 23:39	1
Carbon disulfide	ND		10		ug/L			01/15/15 23:39	1
Carbon tetrachloride	ND		1.0		ug/L			01/15/15 23:39	1
Chlorobenzene	ND		1.0		ug/L			01/15/15 23:39	1
Chlorobromomethane	ND		1.0		ug/L			01/15/15 23:39	1
Chlorodibromomethane	ND		0.50		ug/L			01/15/15 23:39	1
Chloroethane	ND		2.0		ug/L			01/15/15 23:39	1
Chloroform	ND		1.0		ug/L			01/15/15 23:39	1
Chloromethane	ND		2.0		ug/L			01/15/15 23:39	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			01/15/15 23:39	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			01/15/15 23:39	1
Dichlorobromomethane	ND		0.50		ug/L			01/15/15 23:39	1
Dichlorodifluoromethane	ND		1.0		ug/L			01/15/15 23:39	1
Ethyl ether	ND		1.0		ug/L			01/15/15 23:39	1
Ethylbenzene	ND		1.0		ug/L			01/15/15 23:39	1
Ethylene Dibromide	ND		1.0		ug/L			01/15/15 23:39	1
Hexachlorobutadiene	ND		0.40		ug/L			01/15/15 23:39	1
Isopropyl ether	ND		10		ug/L			01/15/15 23:39	1

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

TestAmerica Job ID: 480-74193-1

Client Sample ID: TRIP BLANK
Date Collected: 01/14/15 00:00
Date Received: 01/15/15 01:45

Lab Sample ID: 480-74193-15
Matrix: Water

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			01/15/15 23:39	1
Methyl tert-butyl ether	ND		1.0		ug/L			01/15/15 23:39	1
Methylene Chloride	ND		1.0		ug/L			01/15/15 23:39	1
m-Xylene & p-Xylene	ND		2.0		ug/L			01/15/15 23:39	1
Naphthalene	ND		5.0		ug/L			01/15/15 23:39	1
n-Butylbenzene	ND		1.0		ug/L			01/15/15 23:39	1
N-Propylbenzene	ND		1.0		ug/L			01/15/15 23:39	1
o-Xylene	ND		1.0		ug/L			01/15/15 23:39	1
sec-Butylbenzene	ND		1.0		ug/L			01/15/15 23:39	1
Styrene	ND		1.0		ug/L			01/15/15 23:39	1
Tert-amyl methyl ether	ND		5.0		ug/L			01/15/15 23:39	1
Tert-butyl ethyl ether	ND		5.0		ug/L			01/15/15 23:39	1
tert-Butylbenzene	ND		1.0		ug/L			01/15/15 23:39	1
Tetrachloroethene	ND		1.0		ug/L			01/15/15 23:39	1
Tetrahydrofuran	ND		10		ug/L			01/15/15 23:39	1
Toluene	ND		1.0		ug/L			01/15/15 23:39	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			01/15/15 23:39	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			01/15/15 23:39	1
Trichloroethene	ND		1.0		ug/L			01/15/15 23:39	1
Trichlorofluoromethane	ND		1.0		ug/L			01/15/15 23:39	1
Vinyl chloride	ND		1.0		ug/L			01/15/15 23:39	1
Dibromomethane	ND		1.0		ug/L			01/15/15 23:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*97*		*70 - 130*		*01/15/15 23:39*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 130*		*01/15/15 23:39*	*1*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*		*01/15/15 23:39*	*1*

Surrogate Summary

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

TestAmerica Job ID: 480-74193-1

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)
480-74193-1	MW-265M-20150114	98	102	99
480-74193-1 - DL	MW-265M-20150114	98	105	98
480-74193-2	MW-267S-20150114	102	100	100
480-74193-3	MW-267M-20150114	99	104	98
480-74193-4	MW-268M-20150114	96	98	96
480-74193-4 - DL	MW-268M-20150114	96	101	94
480-74193-4 MS	MW-268M-20150114	98	114	96
480-74193-4 MSD	MW-268M-20150114	100	94	99
480-74193-5	MW-560-20150114	99	103	98
480-74193-6	MW-561-20150114	97	106	95
480-74193-7	MW-562-20150114	98	101	98
480-74193-8	MW-563-20150114	99	103	97
480-74193-9	REW-6-20150113	96	101	95
480-74193-10	REW-7-20150113	97	105	98
480-74193-11	REW-8-20150113	97	103	96
480-74193-12	REW-11-20150113	97	98	96
480-74193-12 - DL	REW-11-20150113	100	100	99
480-74193-13	REW-12-20150113	96	101	96
480-74193-14	DUP-20150114	96	103	95
480-74193-14 - DL	DUP-20150114	97	100	96
480-74193-15	TRIP BLANK	97	103	93
LCS 480-223126/5	Lab Control Sample	96	114	96
LCS 480-223230/5	Lab Control Sample	97	99	97
LCSD 480-223126/6	Lab Control Sample Dup	95	113	97
LCSD 480-223230/6	Lab Control Sample Dup	99	114	99
MB 480-223126/8	Method Blank	99	100	98
MB 480-223230/8	Method Blank	98	101	98

Surrogate Legend

TOL = Toluene-d8 (Surr)

12DCE = 1,2-Dichloroethane-d4 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

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

TestAmerica Job ID: 480-74193-1

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

Lab Sample ID: MB 480-223126/8
Matrix: Water
Analysis Batch: 223126

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			01/15/15 16:20	1
1,1,1-Trichloroethane	ND		1.0		ug/L			01/15/15 16:20	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			01/15/15 16:20	1
1,1,2-Trichloroethane	ND		1.0		ug/L			01/15/15 16:20	1
1,1-Dichloroethane	ND		1.0		ug/L			01/15/15 16:20	1
1,1-Dichloroethene	ND		1.0		ug/L			01/15/15 16:20	1
1,1-Dichloropropene	ND		1.0		ug/L			01/15/15 16:20	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			01/15/15 16:20	1
1,2,3-Trichloropropane	ND		1.0		ug/L			01/15/15 16:20	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			01/15/15 16:20	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			01/15/15 16:20	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			01/15/15 16:20	1
1,2-Dichlorobenzene	ND		1.0		ug/L			01/15/15 16:20	1
1,2-Dichloroethane	ND		1.0		ug/L			01/15/15 16:20	1
1,2-Dichloropropane	ND		1.0		ug/L			01/15/15 16:20	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			01/15/15 16:20	1
1,3-Dichlorobenzene	ND		1.0		ug/L			01/15/15 16:20	1
1,3-Dichloropropane	ND		1.0		ug/L			01/15/15 16:20	1
1,4-Dichlorobenzene	ND		1.0		ug/L			01/15/15 16:20	1
1,4-Dioxane	ND		50		ug/L			01/15/15 16:20	1
2,2-Dichloropropane	ND		1.0		ug/L			01/15/15 16:20	1
2-Butanone (MEK)	ND		10		ug/L			01/15/15 16:20	1
2-Chlorotoluene	ND		1.0		ug/L			01/15/15 16:20	1
2-Hexanone	ND		10		ug/L			01/15/15 16:20	1
4-Chlorotoluene	ND		1.0		ug/L			01/15/15 16:20	1
4-Isopropyltoluene	ND		1.0		ug/L			01/15/15 16:20	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			01/15/15 16:20	1
Acetone	ND		50		ug/L			01/15/15 16:20	1
Benzene	ND		1.0		ug/L			01/15/15 16:20	1
Bromobenzene	ND		1.0		ug/L			01/15/15 16:20	1
Bromoform	ND		1.0		ug/L			01/15/15 16:20	1
Bromomethane	ND		2.0		ug/L			01/15/15 16:20	1
Carbon disulfide	ND		10		ug/L			01/15/15 16:20	1
Carbon tetrachloride	ND		1.0		ug/L			01/15/15 16:20	1
Chlorobenzene	ND		1.0		ug/L			01/15/15 16:20	1
Chlorobromomethane	ND		1.0		ug/L			01/15/15 16:20	1
Chlorodibromomethane	ND		0.50		ug/L			01/15/15 16:20	1
Chloroethane	ND		2.0		ug/L			01/15/15 16:20	1
Chloroform	ND		1.0		ug/L			01/15/15 16:20	1
Chloromethane	ND		2.0		ug/L			01/15/15 16:20	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			01/15/15 16:20	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			01/15/15 16:20	1
Dichlorobromomethane	ND		0.50		ug/L			01/15/15 16:20	1
Dichlorodifluoromethane	ND		1.0		ug/L			01/15/15 16:20	1
Ethyl ether	ND		1.0		ug/L			01/15/15 16:20	1
Ethylbenzene	ND		1.0		ug/L			01/15/15 16:20	1
Ethylene Dibromide	ND		1.0		ug/L			01/15/15 16:20	1
Hexachlorobutadiene	ND		0.40		ug/L			01/15/15 16:20	1

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

Lab Sample ID: MB 480-223126/8
Matrix: Water
Analysis Batch: 223126

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			01/15/15 16:20	1
Isopropylbenzene	ND		1.0		ug/L			01/15/15 16:20	1
Methyl tert-butyl ether	ND		1.0		ug/L			01/15/15 16:20	1
Methylene Chloride	ND		1.0		ug/L			01/15/15 16:20	1
m-Xylene & p-Xylene	ND		2.0		ug/L			01/15/15 16:20	1
Naphthalene	ND		5.0		ug/L			01/15/15 16:20	1
n-Butylbenzene	ND		1.0		ug/L			01/15/15 16:20	1
N-Propylbenzene	ND		1.0		ug/L			01/15/15 16:20	1
o-Xylene	ND		1.0		ug/L			01/15/15 16:20	1
sec-Butylbenzene	ND		1.0		ug/L			01/15/15 16:20	1
Styrene	ND		1.0		ug/L			01/15/15 16:20	1
Tert-amyl methyl ether	ND		5.0		ug/L			01/15/15 16:20	1
Tert-butyl ethyl ether	ND		5.0		ug/L			01/15/15 16:20	1
tert-Butylbenzene	ND		1.0		ug/L			01/15/15 16:20	1
Tetrachloroethene	ND		1.0		ug/L			01/15/15 16:20	1
Tetrahydrofuran	ND		10		ug/L			01/15/15 16:20	1
Toluene	ND		1.0		ug/L			01/15/15 16:20	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			01/15/15 16:20	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			01/15/15 16:20	1
Trichloroethene	ND		1.0		ug/L			01/15/15 16:20	1
Trichlorofluoromethane	ND		1.0		ug/L			01/15/15 16:20	1
Vinyl chloride	ND		1.0		ug/L			01/15/15 16:20	1
Dibromomethane	ND		1.0		ug/L			01/15/15 16:20	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*99*		*70 - 130*		*01/15/15 16:20*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 130*		*01/15/15 16:20*	*1*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*		*01/15/15 16:20*	*1*

Lab Sample ID: LCS 480-223126/5
Matrix: Water
Analysis Batch: 223126

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	25.7		ug/L		103	70 - 130
1,1,1-Trichloroethane	25.0	26.2		ug/L		105	70 - 130
1,1,2,2-Tetrachloroethane	25.0	25.4		ug/L		102	70 - 130
1,1,2-Trichloroethane	25.0	25.6		ug/L		102	70 - 130
1,1-Dichloroethane	25.0	27.7		ug/L		111	70 - 130
1,1-Dichloroethene	25.0	26.5		ug/L		106	70 - 130
1,1-Dichloropropene	25.0	26.4		ug/L		105	70 - 130
1,2,3-Trichlorobenzene	25.0	25.7		ug/L		103	70 - 130
1,2,3-Trichloropropane	25.0	26.2		ug/L		105	70 - 130
1,2,4-Trichlorobenzene	25.0	25.9		ug/L		104	70 - 130
1,2,4-Trimethylbenzene	25.0	27.2		ug/L		109	70 - 130
1,2-Dibromo-3-Chloropropane	25.0	24.5		ug/L		98	70 - 130
1,2-Dichlorobenzene	25.0	25.5		ug/L		102	70 - 130
1,2-Dichloroethane	25.0	25.8		ug/L		103	70 - 130

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

Lab Sample ID: LCS 480-223126/5
Matrix: Water
Analysis Batch: 223126

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	27.3		ug/L		109	70 - 130
1,3,5-Trimethylbenzene	25.0	27.0		ug/L		108	70 - 130
1,3-Dichlorobenzene	25.0	25.2		ug/L		101	70 - 130
1,3-Dichloropropane	25.0	25.5		ug/L		102	70 - 130
1,4-Dichlorobenzene	25.0	24.7		ug/L		99	70 - 130
1,4-Dioxane	500	530		ug/L		106	70 - 130
2,2-Dichloropropane	25.0	27.4		ug/L		110	70 - 130
2-Butanone (MEK)	125	223	*	ug/L		178	70 - 130
2-Chlorotoluene	25.0	26.1		ug/L		104	70 - 130
2-Hexanone	125	172	*	ug/L		137	70 - 130
4-Chlorotoluene	25.0	29.1		ug/L		116	70 - 130
4-Isopropyltoluene	25.0	26.3		ug/L		105	70 - 130
4-Methyl-2-pentanone (MIBK)	125	131		ug/L		105	70 - 130
Acetone	125	186	*	ug/L		149	70 - 130
Benzene	25.0	26.4		ug/L		106	70 - 130
Bromobenzene	25.0	25.6		ug/L		102	70 - 130
Bromoform	25.0	25.5		ug/L		102	70 - 130
Bromomethane	25.0	24.7		ug/L		99	70 - 130
Carbon disulfide	25.0	26.5		ug/L		106	70 - 130
Carbon tetrachloride	25.0	26.8		ug/L		107	70 - 130
Chlorobenzene	25.0	25.2		ug/L		101	70 - 130
Chlorobromomethane	25.0	26.5		ug/L		106	70 - 130
Chlorodibromomethane	25.0	26.0		ug/L		104	70 - 130
Chloroethane	25.0	24.8		ug/L		99	70 - 130
Chloroform	25.0	26.3		ug/L		105	70 - 130
Chloromethane	25.0	23.5		ug/L		94	70 - 130
cis-1,2-Dichloroethene	25.0	26.6		ug/L		107	70 - 130
cis-1,3-Dichloropropene	25.0	28.5		ug/L		114	70 - 130
Dichlorobromomethane	25.0	27.4		ug/L		110	70 - 130
Dichlorodifluoromethane	25.0	21.5		ug/L		86	70 - 130
Ethyl ether	25.0	28.0		ug/L		112	70 - 130
Ethylbenzene	25.0	25.4		ug/L		102	70 - 130
Ethylene Dibromide	25.0	25.5		ug/L		102	70 - 130
Hexachlorobutadiene	25.0	25.3		ug/L		101	70 - 130
Isopropyl ether	25.0	25.7		ug/L		103	70 - 130
Isopropylbenzene	25.0	26.2		ug/L		105	70 - 130
Methyl tert-butyl ether	25.0	26.7		ug/L		107	70 - 130
Methylene Chloride	25.0	26.8		ug/L		107	70 - 130
m-Xylene & p-Xylene	25.0	26.2		ug/L		105	70 - 130
Naphthalene	25.0	25.2		ug/L		101	70 - 130
n-Butylbenzene	25.0	27.7		ug/L		111	70 - 130
N-Propylbenzene	25.0	26.1		ug/L		105	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	26.5		ug/L		106	70 - 130
Tert-amyl methyl ether	25.0	25.0		ug/L		100	70 - 130
Tert-butyl ethyl ether	25.0	24.6		ug/L		98	70 - 130
tert-Butylbenzene	25.0	26.3		ug/L		105	70 - 130

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

Lab Sample ID: LCS 480-223126/5
Matrix: Water
Analysis Batch: 223126

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	26.2		ug/L		105	70 - 130		
Tetrahydrofuran			50.0	56.5		ug/L		113	70 - 130		
Toluene			25.0	25.3		ug/L		101	70 - 130		
trans-1,2-Dichloroethene			25.0	27.3		ug/L		109	70 - 130		
trans-1,3-Dichloropropene			25.0	27.0		ug/L		108	70 - 130		
Trichloroethene			25.0	26.6		ug/L		106	70 - 130		
Trichlorofluoromethane			25.0	24.6		ug/L		98	70 - 130		
Vinyl chloride			25.0	23.9		ug/L		95	70 - 130		
Dibromomethane			25.0	27.1		ug/L		109	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*96*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*114*		*70 - 130*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*

Lab Sample ID: LCSD 480-223126/6
Matrix: Water
Analysis Batch: 223126

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	23.3		ug/L		93	70 - 130	10	20
1,1,1-Trichloroethane			25.0	23.9		ug/L		96	70 - 130	9	20
1,1,2,2-Tetrachloroethane			25.0	23.2		ug/L		93	70 - 130	9	20
1,1,2-Trichloroethane			25.0	23.4		ug/L		93	70 - 130	9	20
1,1-Dichloroethane			25.0	24.9		ug/L		100	70 - 130	11	20
1,1-Dichloroethene			25.0	23.7		ug/L		95	70 - 130	11	20
1,1-Dichloropropene			25.0	24.1		ug/L		96	70 - 130	9	20
1,2,3-Trichlorobenzene			25.0	23.3		ug/L		93	70 - 130	10	20
1,2,3-Trichloropropane			25.0	24.0		ug/L		96	70 - 130	8	20
1,2,4-Trichlorobenzene			25.0	23.7		ug/L		95	70 - 130	9	20
1,2,4-Trimethylbenzene			25.0	24.7		ug/L		99	70 - 130	10	20
1,2-Dibromo-3-Chloropropane			25.0	22.5		ug/L		90	70 - 130	8	20
1,2-Dichlorobenzene			25.0	23.0		ug/L		92	70 - 130	10	20
1,2-Dichloroethane			25.0	23.8		ug/L		95	70 - 130	8	20
1,2-Dichloropropane			25.0	25.1		ug/L		100	70 - 130	8	20
1,3,5-Trimethylbenzene			25.0	24.0		ug/L		96	70 - 130	12	20
1,3-Dichlorobenzene			25.0	23.1		ug/L		92	70 - 130	9	20
1,3-Dichloropropane			25.0	23.1		ug/L		93	70 - 130	10	20
1,4-Dichlorobenzene			25.0	22.3		ug/L		89	70 - 130	10	20
1,4-Dioxane			500	580		ug/L		116	70 - 130	9	20
2,2-Dichloropropane			25.0	24.7		ug/L		99	70 - 130	10	20
2-Butanone (MEK)			125	211	*	ug/L		169	70 - 130	5	20
2-Chlorotoluene			25.0	23.6		ug/L		94	70 - 130	10	20
2-Hexanone			125	159		ug/L		127	70 - 130	8	20
4-Chlorotoluene			25.0	26.1		ug/L		105	70 - 130	11	20
4-Isopropyltoluene			25.0	24.0		ug/L		96	70 - 130	9	20
4-Methyl-2-pentanone (MIBK)			125	121		ug/L		97	70 - 130	8	20
Acetone			125	171	*	ug/L		137	70 - 130	8	20

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

Lab Sample ID: LCSD 480-223126/6
Matrix: Water
Analysis Batch: 223126

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	9	20
Bromobenzene			25.0	23.0		ug/L		92	70 - 130	11	20
Bromoform			25.0	23.4		ug/L		94	70 - 130	9	20
Bromomethane			25.0	22.4		ug/L		90	70 - 130	10	20
Carbon disulfide			25.0	23.6		ug/L		95	70 - 130	11	20
Carbon tetrachloride			25.0	24.2		ug/L		97	70 - 130	10	20
Chlorobenzene			25.0	22.8		ug/L		91	70 - 130	10	20
Chlorobromomethane			25.0	23.8		ug/L		95	70 - 130	11	20
Chlorodibromomethane			25.0	23.9		ug/L		96	70 - 130	9	20
Chloroethane			25.0	22.2		ug/L		89	70 - 130	11	20
Chloroform			25.0	23.9		ug/L		96	70 - 130	10	20
Chloromethane			25.0	20.8		ug/L		83	70 - 130	12	20
cis-1,2-Dichloroethene			25.0	24.1		ug/L		97	70 - 130	10	20
cis-1,3-Dichloropropene			25.0	26.4		ug/L		106	70 - 130	8	20
Dichlorobromomethane			25.0	24.9		ug/L		100	70 - 130	10	20
Dichlorodifluoromethane			25.0	18.8		ug/L		75	70 - 130	13	20
Ethyl ether			25.0	25.2		ug/L		101	70 - 130	10	20
Ethylbenzene			25.0	22.9		ug/L		91	70 - 130	11	20
Ethylene Dibromide			25.0	23.4		ug/L		94	70 - 130	9	20
Hexachlorobutadiene			25.0	22.7		ug/L		91	70 - 130	11	20
Isopropyl ether			25.0	23.9		ug/L		96	70 - 130	8	20
Isopropylbenzene			25.0	23.3		ug/L		93	70 - 130	12	20
Methyl tert-butyl ether			25.0	24.7		ug/L		99	70 - 130	8	20
Methylene Chloride			25.0	24.6		ug/L		98	70 - 130	9	20
m-Xylene & p-Xylene			25.0	23.2		ug/L		93	70 - 130	12	20
Naphthalene			25.0	23.2		ug/L		93	70 - 130	8	20
n-Butylbenzene			25.0	25.0		ug/L		100	70 - 130	10	20
N-Propylbenzene			25.0	23.5		ug/L		94	70 - 130	11	20
o-Xylene			25.0	23.4		ug/L		94	70 - 130	11	20
sec-Butylbenzene			25.0	23.4		ug/L		94	70 - 130	11	20
Styrene			25.0	23.9		ug/L		95	70 - 130	11	20
Tert-amyl methyl ether			25.0	23.0		ug/L		92	70 - 130	8	20
Tert-butyl ethyl ether			25.0	22.6		ug/L		90	70 - 130	8	20
tert-Butylbenzene			25.0	23.8		ug/L		95	70 - 130	10	20
Tetrachloroethene			25.0	24.0		ug/L		96	70 - 130	9	20
Tetrahydrofuran			50.0	52.9		ug/L		106	70 - 130	7	20
Toluene			25.0	23.0		ug/L		92	70 - 130	10	20
trans-1,2-Dichloroethene			25.0	24.1		ug/L		96	70 - 130	12	20
trans-1,3-Dichloropropene			25.0	24.5		ug/L		98	70 - 130	10	20
Trichloroethene			25.0	24.3		ug/L		97	70 - 130	9	20
Trichlorofluoromethane			25.0	21.6		ug/L		86	70 - 130	13	20
Vinyl chloride			25.0	21.3		ug/L		85	70 - 130	12	20
Dibromomethane			25.0	24.9		ug/L		100	70 - 130	9	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*95*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*113*		*70 - 130*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*

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

Lab Sample ID: 480-74193-4 MS
Matrix: Water
Analysis Batch: 223126

Client Sample ID: MW-268M-20150114
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	507		ug/L		101	70 - 130
1,1,1-Trichloroethane	ND		500	566		ug/L		113	70 - 130
1,1,2,2-Tetrachloroethane	ND		500	473		ug/L		95	70 - 130
1,1,2-Trichloroethane	ND		500	509		ug/L		102	70 - 130
1,1-Dichloroethane	ND		500	585		ug/L		117	70 - 130
1,1-Dichloroethene	ND		500	585		ug/L		117	70 - 130
1,1-Dichloropropene	ND		500	565		ug/L		113	70 - 130
1,2,3-Trichlorobenzene	ND		500	479		ug/L		96	70 - 130
1,2,3-Trichloropropane	ND		500	498		ug/L		100	70 - 130
1,2,4-Trichlorobenzene	ND		500	489		ug/L		98	70 - 130
1,2,4-Trimethylbenzene	ND		500	534		ug/L		107	70 - 130
1,2-Dibromo-3-Chloropropane	ND		500	450		ug/L		90	70 - 130
1,2-Dichlorobenzene	ND		500	494		ug/L		99	70 - 130
1,2-Dichloroethane	ND		500	525		ug/L		105	70 - 130
1,2-Dichloropropane	ND		500	544		ug/L		109	70 - 130
1,3,5-Trimethylbenzene	ND		500	522		ug/L		104	70 - 130
1,3-Dichlorobenzene	ND		500	485		ug/L		97	70 - 130
1,3-Dichloropropane	ND		500	499		ug/L		100	70 - 130
1,4-Dichlorobenzene	ND		500	476		ug/L		95	70 - 130
1,4-Dioxane	ND		10000	8700		ug/L		87	70 - 130
2,2-Dichloropropane	ND		500	506		ug/L		101	70 - 130
2-Butanone (MEK)	ND	*	2500	4240	F1	ug/L		167	70 - 130
2-Chlorotoluene	ND		500	623		ug/L		125	70 - 130
2-Hexanone	ND	*	2500	3150		ug/L		126	70 - 130
4-Chlorotoluene	ND		500	563		ug/L		113	70 - 130
4-Isopropyltoluene	ND		500	520		ug/L		104	70 - 130
4-Methyl-2-pentanone (MIBK)	ND		2500	2500		ug/L		100	70 - 130
Acetone	ND	*	2500	3080		ug/L		123	70 - 130
Benzene	ND		500	550		ug/L		110	70 - 130
Bromobenzene	ND		500	499		ug/L		100	70 - 130
Bromoform	ND		500	495		ug/L		99	70 - 130
Bromomethane	ND		500	518		ug/L		104	70 - 130
Carbon disulfide	ND		500	571		ug/L		114	70 - 130
Carbon tetrachloride	ND		500	594		ug/L		119	70 - 130
Chlorobenzene	ND		500	499		ug/L		100	70 - 130
Chlorobromomethane	ND		500	544		ug/L		109	70 - 130
Chlorodibromomethane	ND		500	515		ug/L		103	70 - 130
Chloroethane	ND		500	542		ug/L		108	70 - 130
Chloroform	ND		500	540		ug/L		108	70 - 130
Chloromethane	ND		500	518		ug/L		104	70 - 130
cis-1,2-Dichloroethene	2500	E	500	2610	E 4	ug/L		13	70 - 130
cis-1,3-Dichloropropene	ND		500	553		ug/L		111	70 - 130
Dichlorobromomethane	ND		500	543		ug/L		109	70 - 130
Dichlorodifluoromethane	ND		500	492		ug/L		98	70 - 130
Ethyl ether	ND		500	565		ug/L		113	70 - 130
Ethylbenzene	ND		500	507		ug/L		101	70 - 130
Ethylene Dibromide	ND		500	491		ug/L		98	70 - 130
Hexachlorobutadiene	ND		500	477		ug/L		95	70 - 130

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

Lab Sample ID: 480-74193-4 MS
Matrix: Water
Analysis Batch: 223126

Client Sample ID: MW-268M-20150114
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Isopropyl ether	ND		500	522		ug/L		104	70 - 130
Isopropylbenzene	ND		500	519		ug/L		104	70 - 130
Methyl tert-butyl ether	ND		500	540		ug/L		108	70 - 130
Methylene Chloride	ND		500	560		ug/L		112	70 - 130
m-Xylene & p-Xylene	ND		500	518		ug/L		104	70 - 130
Naphthalene	ND		500	467		ug/L		93	70 - 130
n-Butylbenzene	ND		500	525		ug/L		105	70 - 130
N-Propylbenzene	ND		500	512		ug/L		102	70 - 130
o-Xylene	ND		500	517		ug/L		103	70 - 130
sec-Butylbenzene	ND		500	517		ug/L		103	70 - 130
Styrene	ND		500	522		ug/L		104	70 - 130
Tert-amyl methyl ether	ND		500	496		ug/L		99	70 - 130
Tert-butyl ethyl ether	ND		500	493		ug/L		99	70 - 130
tert-Butylbenzene	ND		500	523		ug/L		105	70 - 130
Tetrachloroethene	ND		500	530		ug/L		106	70 - 130
Tetrahydrofuran	ND		1000	1120		ug/L		112	70 - 130
Toluene	ND		500	508		ug/L		102	70 - 130
trans-1,2-Dichloroethene	ND		500	578		ug/L		116	70 - 130
trans-1,3-Dichloropropene	ND		500	515		ug/L		103	70 - 130
Trichloroethene	ND		500	560		ug/L		108	70 - 130
Trichlorofluoromethane	ND		500	569		ug/L		114	70 - 130
Vinyl chloride	120		500	637		ug/L		103	70 - 130
Dibromomethane	ND		500	538		ug/L		108	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Toluene-d8 (Surr)	*98*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*114*		*70 - 130*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*

Lab Sample ID: 480-74193-4 MSD
Matrix: Water
Analysis Batch: 223126

Client Sample ID: MW-268M-20150114
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		500	516		ug/L		103	70 - 130	2	20
1,1,1-Trichloroethane	ND		500	539		ug/L		108	70 - 130	5	20
1,1,2,2-Tetrachloroethane	ND		500	475		ug/L		95	70 - 130	0	20
1,1,2-Trichloroethane	ND		500	505		ug/L		101	70 - 130	1	20
1,1-Dichloroethane	ND		500	546		ug/L		109	70 - 130	7	20
1,1-Dichloroethene	ND		500	538		ug/L		108	70 - 130	8	20
1,1-Dichloropropene	ND		500	530		ug/L		106	70 - 130	6	20
1,2,3-Trichlorobenzene	ND		500	490		ug/L		98	70 - 130	2	20
1,2,3-Trichloropropane	ND		500	491		ug/L		98	70 - 130	1	20
1,2,4-Trichlorobenzene	ND		500	492		ug/L		98	70 - 130	1	20
1,2,4-Trimethylbenzene	ND		500	525		ug/L		105	70 - 130	2	20
1,2-Dibromo-3-Chloropropane	ND		500	459		ug/L		92	70 - 130	2	20
1,2-Dichlorobenzene	ND		500	489		ug/L		98	70 - 130	1	20
1,2-Dichloroethane	ND		500	502		ug/L		100	70 - 130	5	20

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

Lab Sample ID: 480-74193-4 MSD
Matrix: Water
Analysis Batch: 223126

Client Sample ID: MW-268M-20150114
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	537		ug/L		107	70 - 130	1	20
1,3,5-Trimethylbenzene	ND		500	515		ug/L		103	70 - 130	1	20
1,3-Dichlorobenzene	ND		500	481		ug/L		96	70 - 130	1	20
1,3-Dichloropropane	ND		500	502		ug/L		100	70 - 130	1	20
1,4-Dichlorobenzene	ND		500	468		ug/L		94	70 - 130	2	20
1,4-Dioxane	ND		10000	10400		ug/L		104	70 - 130	17	20
2,2-Dichloropropane	ND		500	468		ug/L		94	70 - 130	8	20
2-Butanone (MEK)	ND	*	2500	3990	F1	ug/L		157	70 - 130	6	20
2-Chlorotoluene	ND		500	607		ug/L		121	70 - 130	3	20
2-Hexanone	ND	*	2500	3200		ug/L		128	70 - 130	1	20
4-Chlorotoluene	ND		500	548		ug/L		110	70 - 130	3	20
4-Isopropyltoluene	ND		500	514		ug/L		103	70 - 130	1	20
4-Methyl-2-pentanone (MIBK)	ND		2500	2500		ug/L		100	70 - 130	0	20
Acetone	ND	*	2500	2910		ug/L		116	70 - 130	6	20
Benzene	ND		500	520		ug/L		104	70 - 130	6	20
Bromobenzene	ND		500	484		ug/L		97	70 - 130	3	20
Bromoform	ND		500	504		ug/L		101	70 - 130	2	20
Bromomethane	ND		500	489		ug/L		98	70 - 130	6	20
Carbon disulfide	ND		500	546		ug/L		109	70 - 130	4	20
Carbon tetrachloride	ND		500	560		ug/L		112	70 - 130	6	20
Chlorobenzene	ND		500	504		ug/L		101	70 - 130	1	20
Chlorobromomethane	ND		500	516		ug/L		103	70 - 130	5	20
Chlorodibromomethane	ND		500	517		ug/L		103	70 - 130	0	20
Chloroethane	ND		500	499		ug/L		100	70 - 130	8	20
Chloroform	ND		500	519		ug/L		104	70 - 130	4	20
Chloromethane	ND		500	466		ug/L		93	70 - 130	11	20
cis-1,2-Dichloroethene	2500	E	500	2460	E 4	ug/L		-17	70 - 130	6	20
cis-1,3-Dichloropropene	ND		500	532		ug/L		106	70 - 130	4	20
Dichlorobromomethane	ND		500	529		ug/L		106	70 - 130	3	20
Dichlorodifluoromethane	ND		500	432		ug/L		86	70 - 130	13	20
Ethyl ether	ND		500	533		ug/L		107	70 - 130	6	20
Ethylbenzene	ND		500	509		ug/L		102	70 - 130	0	20
Ethylene Dibromide	ND		500	501		ug/L		100	70 - 130	2	20
Hexachlorobutadiene	ND		500	475		ug/L		95	70 - 130	0	20
Isopropyl ether	ND		500	496		ug/L		99	70 - 130	5	20
Isopropylbenzene	ND		500	505		ug/L		101	70 - 130	3	20
Methyl tert-butyl ether	ND		500	526		ug/L		105	70 - 130	3	20
Methylene Chloride	ND		500	532		ug/L		106	70 - 130	5	20
m-Xylene & p-Xylene	ND		500	526		ug/L		105	70 - 130	2	20
Naphthalene	ND		500	476		ug/L		95	70 - 130	2	20
n-Butylbenzene	ND		500	520		ug/L		104	70 - 130	1	20
N-Propylbenzene	ND		500	499		ug/L		100	70 - 130	3	20
o-Xylene	ND		500	523		ug/L		105	70 - 130	1	20
sec-Butylbenzene	ND		500	509		ug/L		102	70 - 130	1	20
Styrene	ND		500	525		ug/L		105	70 - 130	1	20
Tert-amyl methyl ether	ND		500	478		ug/L		96	70 - 130	4	20
Tert-butyl ethyl ether	ND		500	469		ug/L		94	70 - 130	5	20
tert-Butylbenzene	ND		500	504		ug/L		101	70 - 130	4	20

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

Lab Sample ID: 480-74193-4 MSD
Matrix: Water
Analysis Batch: 223126

Client Sample ID: MW-268M-20150114
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	519		ug/L		104	70 - 130	2	20
Tetrahydrofuran	ND		1000	1070		ug/L		107	70 - 130	5	20
Toluene	ND		500	508		ug/L		102	70 - 130	0	20
trans-1,2-Dichloroethene	ND		500	548		ug/L		110	70 - 130	5	20
trans-1,3-Dichloropropene	ND		500	519		ug/L		104	70 - 130	1	20
Trichloroethene	ND		500	536		ug/L		103	70 - 130	4	20
Trichlorofluoromethane	ND		500	510		ug/L		102	70 - 130	11	20
Vinyl chloride	120		500	583		ug/L		92	70 - 130	9	20
Dibromomethane	ND		500	526		ug/L		105	70 - 130	2	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*100*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 130*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*

Lab Sample ID: MB 480-223230/8
Matrix: Water
Analysis Batch: 223230

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			01/16/15 12:32	1
1,1,1-Trichloroethane	ND		1.0		ug/L			01/16/15 12:32	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			01/16/15 12:32	1
1,1,2-Trichloroethane	ND		1.0		ug/L			01/16/15 12:32	1
1,1-Dichloroethane	ND		1.0		ug/L			01/16/15 12:32	1
1,1-Dichloroethene	ND		1.0		ug/L			01/16/15 12:32	1
1,1-Dichloropropene	ND		1.0		ug/L			01/16/15 12:32	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			01/16/15 12:32	1
1,2,3-Trichloropropane	ND		1.0		ug/L			01/16/15 12:32	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			01/16/15 12:32	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			01/16/15 12:32	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			01/16/15 12:32	1
1,2-Dichlorobenzene	ND		1.0		ug/L			01/16/15 12:32	1
1,2-Dichloroethane	ND		1.0		ug/L			01/16/15 12:32	1
1,2-Dichloropropane	ND		1.0		ug/L			01/16/15 12:32	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			01/16/15 12:32	1
1,3-Dichlorobenzene	ND		1.0		ug/L			01/16/15 12:32	1
1,3-Dichloropropane	ND		1.0		ug/L			01/16/15 12:32	1
1,4-Dichlorobenzene	ND		1.0		ug/L			01/16/15 12:32	1
1,4-Dioxane	ND		50		ug/L			01/16/15 12:32	1
2,2-Dichloropropane	ND		1.0		ug/L			01/16/15 12:32	1
2-Butanone (MEK)	ND		10		ug/L			01/16/15 12:32	1
2-Chlorotoluene	ND		1.0		ug/L			01/16/15 12:32	1
2-Hexanone	ND		10		ug/L			01/16/15 12:32	1
4-Chlorotoluene	ND		1.0		ug/L			01/16/15 12:32	1
4-Isopropyltoluene	ND		1.0		ug/L			01/16/15 12:32	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			01/16/15 12:32	1
Acetone	ND		50		ug/L			01/16/15 12:32	1

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

Lab Sample ID: MB 480-223230/8
Matrix: Water
Analysis Batch: 223230

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			01/16/15 12:32	1
Bromobenzene	ND		1.0		ug/L			01/16/15 12:32	1
Bromoform	ND		1.0		ug/L			01/16/15 12:32	1
Bromomethane	ND		2.0		ug/L			01/16/15 12:32	1
Carbon disulfide	ND		10		ug/L			01/16/15 12:32	1
Carbon tetrachloride	ND		1.0		ug/L			01/16/15 12:32	1
Chlorobenzene	ND		1.0		ug/L			01/16/15 12:32	1
Chlorobromomethane	ND		1.0		ug/L			01/16/15 12:32	1
Chlorodibromomethane	ND		0.50		ug/L			01/16/15 12:32	1
Chloroethane	ND		2.0		ug/L			01/16/15 12:32	1
Chloroform	ND		1.0		ug/L			01/16/15 12:32	1
Chloromethane	ND		2.0		ug/L			01/16/15 12:32	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			01/16/15 12:32	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			01/16/15 12:32	1
Dichlorobromomethane	ND		0.50		ug/L			01/16/15 12:32	1
Dichlorodifluoromethane	ND		1.0		ug/L			01/16/15 12:32	1
Ethyl ether	ND		1.0		ug/L			01/16/15 12:32	1
Ethylbenzene	ND		1.0		ug/L			01/16/15 12:32	1
Ethylene Dibromide	ND		1.0		ug/L			01/16/15 12:32	1
Hexachlorobutadiene	ND		0.40		ug/L			01/16/15 12:32	1
Isopropyl ether	ND		10		ug/L			01/16/15 12:32	1
Isopropylbenzene	ND		1.0		ug/L			01/16/15 12:32	1
Methyl tert-butyl ether	ND		1.0		ug/L			01/16/15 12:32	1
Methylene Chloride	ND		1.0		ug/L			01/16/15 12:32	1
m-Xylene & p-Xylene	ND		2.0		ug/L			01/16/15 12:32	1
Naphthalene	ND		5.0		ug/L			01/16/15 12:32	1
n-Butylbenzene	ND		1.0		ug/L			01/16/15 12:32	1
N-Propylbenzene	ND		1.0		ug/L			01/16/15 12:32	1
o-Xylene	ND		1.0		ug/L			01/16/15 12:32	1
sec-Butylbenzene	ND		1.0		ug/L			01/16/15 12:32	1
Styrene	ND		1.0		ug/L			01/16/15 12:32	1
Tert-amyl methyl ether	ND		5.0		ug/L			01/16/15 12:32	1
Tert-butyl ethyl ether	ND		5.0		ug/L			01/16/15 12:32	1
tert-Butylbenzene	ND		1.0		ug/L			01/16/15 12:32	1
Tetrachloroethene	ND		1.0		ug/L			01/16/15 12:32	1
Tetrahydrofuran	ND		10		ug/L			01/16/15 12:32	1
Toluene	ND		1.0		ug/L			01/16/15 12:32	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			01/16/15 12:32	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			01/16/15 12:32	1
Trichloroethene	ND		1.0		ug/L			01/16/15 12:32	1
Trichlorofluoromethane	ND		1.0		ug/L			01/16/15 12:32	1
Vinyl chloride	ND		1.0		ug/L			01/16/15 12:32	1
Dibromomethane	ND		1.0		ug/L			01/16/15 12:32	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*98*		*70 - 130*		*01/16/15 12:32*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 130*		*01/16/15 12:32*	*1*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*		*01/16/15 12:32*	*1*

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

Lab Sample ID: LCS 480-223230/5
Matrix: Water
Analysis Batch: 223230

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	25.2		ug/L		101	70 - 130
1,1,1-Trichloroethane	25.0	27.2		ug/L		109	70 - 130
1,1,2,2-Tetrachloroethane	25.0	24.5		ug/L		98	70 - 130
1,1,2-Trichloroethane	25.0	24.8		ug/L		99	70 - 130
1,1-Dichloroethane	25.0	27.4		ug/L		110	70 - 130
1,1-Dichloroethene	25.0	27.5		ug/L		110	70 - 130
1,1-Dichloropropene	25.0	27.1		ug/L		108	70 - 130
1,2,3-Trichlorobenzene	25.0	25.3		ug/L		101	70 - 130
1,2,3-Trichloropropane	25.0	25.6		ug/L		102	70 - 130
1,2,4-Trichlorobenzene	25.0	25.6		ug/L		103	70 - 130
1,2,4-Trimethylbenzene	25.0	27.2		ug/L		109	70 - 130
1,2-Dibromo-3-Chloropropane	25.0	23.7		ug/L		95	70 - 130
1,2-Dichlorobenzene	25.0	25.0		ug/L		100	70 - 130
1,2-Dichloroethane	25.0	25.7		ug/L		103	70 - 130
1,2-Dichloropropane	25.0	26.8		ug/L		107	70 - 130
1,3,5-Trimethylbenzene	25.0	26.9		ug/L		108	70 - 130
1,3-Dichlorobenzene	25.0	25.1		ug/L		100	70 - 130
1,3-Dichloropropane	25.0	24.5		ug/L		98	70 - 130
1,4-Dichlorobenzene	25.0	24.5		ug/L		98	70 - 130
1,4-Dioxane	500	390		ug/L		78	70 - 130
2,2-Dichloropropane	25.0	28.5		ug/L		114	70 - 130
2-Butanone (MEK)	125	200	*	ug/L		160	70 - 130
2-Chlorotoluene	25.0	25.5		ug/L		102	70 - 130
2-Hexanone	125	158		ug/L		126	70 - 130
4-Chlorotoluene	25.0	28.4		ug/L		114	70 - 130
4-Isopropyltoluene	25.0	26.6		ug/L		106	70 - 130
4-Methyl-2-pentanone (MIBK)	125	125		ug/L		100	70 - 130
Acetone	125	144		ug/L		115	70 - 130
Benzene	25.0	26.7		ug/L		107	70 - 130
Bromobenzene	25.0	25.0		ug/L		100	70 - 130
Bromoform	25.0	24.5		ug/L		98	70 - 130
Bromomethane	25.0	24.3		ug/L		97	70 - 130
Carbon disulfide	25.0	27.3		ug/L		109	70 - 130
Carbon tetrachloride	25.0	27.8		ug/L		111	70 - 130
Chlorobenzene	25.0	24.7		ug/L		99	70 - 130
Chlorobromomethane	25.0	26.3		ug/L		105	70 - 130
Chlorodibromomethane	25.0	25.6		ug/L		102	70 - 130
Chloroethane	25.0	24.8		ug/L		99	70 - 130
Chloroform	25.0	26.0		ug/L		104	70 - 130
Chloromethane	25.0	23.6		ug/L		94	70 - 130
cis-1,2-Dichloroethene	25.0	26.6		ug/L		107	70 - 130
cis-1,3-Dichloropropene	25.0	28.3		ug/L		113	70 - 130
Dichlorobromomethane	25.0	26.7		ug/L		107	70 - 130
Dichlorodifluoromethane	25.0	23.1		ug/L		92	70 - 130
Ethyl ether	25.0	27.6		ug/L		110	70 - 130
Ethylbenzene	25.0	24.9		ug/L		100	70 - 130
Ethylene Dibromide	25.0	24.8		ug/L		99	70 - 130
Hexachlorobutadiene	25.0	25.2		ug/L		101	70 - 130

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

Lab Sample ID: LCS 480-223230/5
Matrix: Water
Analysis Batch: 223230

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	25.2		ug/L		101	70 - 130
Isopropylbenzene	25.0	26.1		ug/L		104	70 - 130
Methyl tert-butyl ether	25.0	26.1		ug/L		104	70 - 130
Methylene Chloride	25.0	27.3		ug/L		109	70 - 130
m-Xylene & p-Xylene	25.0	25.2		ug/L		101	70 - 130
Naphthalene	25.0	24.5		ug/L		98	70 - 130
n-Butylbenzene	25.0	28.2		ug/L		113	70 - 130
N-Propylbenzene	25.0	26.0		ug/L		104	70 - 130
o-Xylene	25.0	25.2		ug/L		101	70 - 130
sec-Butylbenzene	25.0	26.3		ug/L		105	70 - 130
Styrene	25.0	26.1		ug/L		104	70 - 130
Tert-amyl methyl ether	25.0	24.4		ug/L		98	70 - 130
Tert-butyl ethyl ether	25.0	23.9		ug/L		96	70 - 130
tert-Butylbenzene	25.0	26.6		ug/L		106	70 - 130
Tetrachloroethene	25.0	26.7		ug/L		107	70 - 130
Tetrahydrofuran	50.0	54.1		ug/L		108	70 - 130
Toluene	25.0	25.2		ug/L		101	70 - 130
trans-1,2-Dichloroethene	25.0	26.9		ug/L		107	70 - 130
trans-1,3-Dichloropropene	25.0	26.5		ug/L		106	70 - 130
Trichloroethene	25.0	26.6		ug/L		106	70 - 130
Trichlorofluoromethane	25.0	26.5		ug/L		106	70 - 130
Vinyl chloride	25.0	25.0		ug/L		100	70 - 130
Dibromomethane	25.0	26.8		ug/L		107	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*97*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*

Lab Sample ID: LCSD 480-223230/6
Matrix: Water
Analysis Batch: 223230

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	25.9		ug/L		104	70 - 130	2	20
1,1,1-Trichloroethane	25.0	27.7		ug/L		111	70 - 130	2	20
1,1,2,2-Tetrachloroethane	25.0	24.0		ug/L		96	70 - 130	2	20
1,1,2-Trichloroethane	25.0	25.5		ug/L		102	70 - 130	3	20
1,1-Dichloroethane	25.0	27.7		ug/L		111	70 - 130	1	20
1,1-Dichloroethene	25.0	27.8		ug/L		111	70 - 130	1	20
1,1-Dichloropropene	25.0	27.9		ug/L		111	70 - 130	3	20
1,2,3-Trichlorobenzene	25.0	25.3		ug/L		101	70 - 130	0	20
1,2,3-Trichloropropane	25.0	25.4		ug/L		102	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	27.0		ug/L		108	70 - 130	1	20
1,2-Dibromo-3-Chloropropane	25.0	24.3		ug/L		97	70 - 130	2	20
1,2-Dichlorobenzene	25.0	25.0		ug/L		100	70 - 130	0	20
1,2-Dichloroethane	25.0	25.6		ug/L		102	70 - 130	0	20

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

Lab Sample ID: LCSD 480-223230/6
Matrix: Water
Analysis Batch: 223230

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	27.0		ug/L		108	70 - 130	1	20
1,3,5-Trimethylbenzene	25.0	26.8		ug/L		107	70 - 130	0	20
1,3-Dichlorobenzene	25.0	24.8		ug/L		99	70 - 130	1	20
1,3-Dichloropropane	25.0	25.0		ug/L		100	70 - 130	2	20
1,4-Dichlorobenzene	25.0	24.3		ug/L		97	70 - 130	1	20
1,4-Dioxane	500	499	*	ug/L		100	70 - 130	25	20
2,2-Dichloropropane	25.0	28.3		ug/L		113	70 - 130	1	20
2-Butanone (MEK)	125	203	*	ug/L		163	70 - 130	1	20
2-Chlorotoluene	25.0	25.9		ug/L		104	70 - 130	2	20
2-Hexanone	125	163		ug/L		130	70 - 130	3	20
4-Chlorotoluene	25.0	28.4		ug/L		114	70 - 130	0	20
4-Isopropyltoluene	25.0	26.7		ug/L		107	70 - 130	0	20
4-Methyl-2-pentanone (MIBK)	125	128		ug/L		102	70 - 130	3	20
Acetone	125	141		ug/L		113	70 - 130	2	20
Benzene	25.0	26.7		ug/L		107	70 - 130	0	20
Bromobenzene	25.0	25.3		ug/L		101	70 - 130	1	20
Bromoform	25.0	24.6		ug/L		98	70 - 130	1	20
Bromomethane	25.0	24.9		ug/L		100	70 - 130	2	20
Carbon disulfide	25.0	27.3		ug/L		109	70 - 130	0	20
Carbon tetrachloride	25.0	28.4		ug/L		114	70 - 130	2	20
Chlorobenzene	25.0	25.1		ug/L		100	70 - 130	2	20
Chlorobromomethane	25.0	26.5		ug/L		106	70 - 130	1	20
Chlorodibromomethane	25.0	25.9		ug/L		104	70 - 130	1	20
Chloroethane	25.0	25.0		ug/L		100	70 - 130	1	20
Chloroform	25.0	26.5		ug/L		106	70 - 130	2	20
Chloromethane	25.0	23.6		ug/L		95	70 - 130	0	20
cis-1,2-Dichloroethene	25.0	27.0		ug/L		108	70 - 130	1	20
cis-1,3-Dichloropropene	25.0	28.3		ug/L		113	70 - 130	0	20
Dichlorobromomethane	25.0	27.1		ug/L		108	70 - 130	1	20
Dichlorodifluoromethane	25.0	22.6		ug/L		91	70 - 130	2	20
Ethyl ether	25.0	27.4		ug/L		109	70 - 130	1	20
Ethylbenzene	25.0	25.7		ug/L		103	70 - 130	3	20
Ethylene Dibromide	25.0	25.1		ug/L		100	70 - 130	1	20
Hexachlorobutadiene	25.0	25.9		ug/L		104	70 - 130	3	20
Isopropyl ether	25.0	25.6		ug/L		102	70 - 130	1	20
Isopropylbenzene	25.0	26.4		ug/L		106	70 - 130	1	20
Methyl tert-butyl ether	25.0	26.4		ug/L		106	70 - 130	1	20
Methylene Chloride	25.0	27.4		ug/L		110	70 - 130	0	20
m-Xylene & p-Xylene	25.0	26.4		ug/L		106	70 - 130	5	20
Naphthalene	25.0	24.5		ug/L		98	70 - 130	0	20
n-Butylbenzene	25.0	28.1		ug/L		112	70 - 130	0	20
N-Propylbenzene	25.0	26.4		ug/L		106	70 - 130	2	20
o-Xylene	25.0	26.2		ug/L		105	70 - 130	4	20
sec-Butylbenzene	25.0	26.6		ug/L		106	70 - 130	1	20
Styrene	25.0	26.6		ug/L		106	70 - 130	2	20
Tert-amyl methyl ether	25.0	24.8		ug/L		99	70 - 130	2	20
Tert-butyl ethyl ether	25.0	24.2		ug/L		97	70 - 130	1	20
tert-Butylbenzene	25.0	26.5		ug/L		106	70 - 130	0	20

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

Lab Sample ID: LCSD 480-223230/6
Matrix: Water
Analysis Batch: 223230

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	27.8		ug/L		111	70 - 130	4	20
Tetrahydrofuran			50.0	53.3		ug/L		107	70 - 130	1	20
Toluene			25.0	25.7		ug/L		103	70 - 130	2	20
trans-1,2-Dichloroethene			25.0	27.6		ug/L		111	70 - 130	3	20
trans-1,3-Dichloropropene			25.0	26.7		ug/L		107	70 - 130	1	20
Trichloroethene			25.0	27.5		ug/L		110	70 - 130	3	20
Trichlorofluoromethane			25.0	26.8		ug/L		107	70 - 130	1	20
Vinyl chloride			25.0	24.8		ug/L		99	70 - 130	1	20
Dibromomethane			25.0	26.8		ug/L		107	70 - 130	0	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*99*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*114*		*70 - 130*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*

GC/MS VOA

Analysis Batch: 223126

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-74193-1	MW-265M-20150114	Total/NA	Water	8260C	
480-74193-3	MW-267M-20150114	Total/NA	Water	8260C	
480-74193-4	MW-268M-20150114	Total/NA	Water	8260C	
480-74193-4 MS	MW-268M-20150114	Total/NA	Water	8260C	
480-74193-4 MSD	MW-268M-20150114	Total/NA	Water	8260C	
480-74193-6	MW-561-20150114	Total/NA	Water	8260C	
480-74193-7	MW-562-20150114	Total/NA	Water	8260C	
480-74193-8	MW-563-20150114	Total/NA	Water	8260C	
480-74193-9	REW-6-20150113	Total/NA	Water	8260C	
480-74193-10	REW-7-20150113	Total/NA	Water	8260C	
480-74193-11	REW-8-20150113	Total/NA	Water	8260C	
480-74193-12	REW-11-20150113	Total/NA	Water	8260C	
480-74193-13	REW-12-20150113	Total/NA	Water	8260C	
480-74193-14	DUP-20150114	Total/NA	Water	8260C	
480-74193-15	TRIP BLANK	Total/NA	Water	8260C	
LCS 480-223126/5	Lab Control Sample	Total/NA	Water	8260C	
LCSD 480-223126/6	Lab Control Sample Dup	Total/NA	Water	8260C	
MB 480-223126/8	Method Blank	Total/NA	Water	8260C	

Analysis Batch: 223230

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-74193-1 - DL	MW-265M-20150114	Total/NA	Water	8260C	
480-74193-2	MW-267S-20150114	Total/NA	Water	8260C	
480-74193-4 - DL	MW-268M-20150114	Total/NA	Water	8260C	
480-74193-5	MW-560-20150114	Total/NA	Water	8260C	
480-74193-12 - DL	REW-11-20150113	Total/NA	Water	8260C	
480-74193-14 - DL	DUP-20150114	Total/NA	Water	8260C	
LCS 480-223230/5	Lab Control Sample	Total/NA	Water	8260C	
LCSD 480-223230/6	Lab Control Sample Dup	Total/NA	Water	8260C	
MB 480-223230/8	Method Blank	Total/NA	Water	8260C	

Client Sample ID: MW-265M-20150114
Lab Sample ID: 480-74193-1

Date Collected: 01/14/15 11:05
Matrix: Water
Date Received: 01/15/15 01:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	223126	01/15/15 17:49	LCH	TAL BUF
Total/NA	Analysis	8260C	DL	5	223230	01/16/15 13:14	LCH	TAL BUF

Client Sample ID: MW-267S-20150114
Lab Sample ID: 480-74193-2

Date Collected: 01/14/15 09:50
Matrix: Water
Date Received: 01/15/15 01:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		5	223230	01/16/15 13:39	LCH	TAL BUF

Client Sample ID: MW-267M-20150114
Lab Sample ID: 480-74193-3

Date Collected: 01/14/15 10:40
Matrix: Water
Date Received: 01/15/15 01:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	223126	01/15/15 18:39	LCH	TAL BUF

Client Sample ID: MW-268M-20150114
Lab Sample ID: 480-74193-4

Date Collected: 01/14/15 08:30
Matrix: Water
Date Received: 01/15/15 01:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		20	223126	01/15/15 19:04	LCH	TAL BUF
Total/NA	Analysis	8260C	DL	40	223230	01/16/15 14:04	LCH	TAL BUF

Client Sample ID: MW-560-20150114
Lab Sample ID: 480-74193-5

Date Collected: 01/14/15 11:40
Matrix: Water
Date Received: 01/15/15 01:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	223230	01/16/15 14:29	LCH	TAL BUF

Client Sample ID: MW-561-20150114
Lab Sample ID: 480-74193-6

Date Collected: 01/14/15 08:25
Matrix: Water
Date Received: 01/15/15 01:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		5	223126	01/15/15 19:54	LCH	TAL BUF

Client Sample ID: MW-562-20150114 — **Lab Sample ID: 480-74193-7**
Date Collected: 01/14/15 12:35 — **Matrix: Water**
Date Received: 01/15/15 01:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	223126	01/15/15 20:19	LCH	TAL BUF

Client Sample ID: MW-563-20150114 — **Lab Sample ID: 480-74193-8**
Date Collected: 01/14/15 09:50 — **Matrix: Water**
Date Received: 01/15/15 01:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	223126	01/15/15 20:44	LCH	TAL BUF

Client Sample ID: REW-6-20150113 — **Lab Sample ID: 480-74193-9**
Date Collected: 01/13/15 12:15 — **Matrix: Water**
Date Received: 01/15/15 01:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		5	223126	01/15/15 21:09	LCH	TAL BUF

Client Sample ID: REW-7-20150113 — **Lab Sample ID: 480-74193-10**
Date Collected: 01/13/15 09:40 — **Matrix: Water**
Date Received: 01/15/15 01:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		5	223126	01/15/15 21:34	LCH	TAL BUF

Client Sample ID: REW-8-20150113 — **Lab Sample ID: 480-74193-11**
Date Collected: 01/13/15 10:20 — **Matrix: Water**
Date Received: 01/15/15 01:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	223126	01/15/15 21:59	LCH	TAL BUF

Client Sample ID: REW-11-20150113 — **Lab Sample ID: 480-74193-12**
Date Collected: 01/13/15 11:25 — **Matrix: Water**
Date Received: 01/15/15 01:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		10	223126	01/15/15 22:24	LCH	TAL BUF
Total/NA	Analysis	8260C	DL	20	223230	01/16/15 15:20	LCH	TAL BUF

Lab Chronicle

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

TestAmerica Job ID: 480-74193-1

Client Sample ID: REW-12-20150113

Lab Sample ID: 480-74193-13

Date Collected: 01/13/15 09:00

Matrix: Water

Date Received: 01/15/15 01:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		5	223126	01/15/15 22:49	LCH	TAL BUF

Client Sample ID: DUP-20150114

Lab Sample ID: 480-74193-14

Date Collected: 01/14/15 00:00

Matrix: Water

Date Received: 01/15/15 01:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		20	223126	01/15/15 23:14	LCH	TAL BUF
Total/NA	Analysis	8260C	DL	40	223230	01/16/15 15:45	LCH	TAL BUF

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-74193-15

Date Collected: 01/14/15 00:00

Matrix: Water

Date Received: 01/15/15 01:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	223126	01/15/15 23:39	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: 480-74193-1

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	07-06-15
California	State Program	9	1169CA	09-30-15
Connecticut	State Program	1	PH-0568	09-30-16
Florida	NELAP	4	E87672	06-30-15
Georgia	State Program	4	N/A	03-31-15
Georgia	State Program	4	956	03-31-15
Illinois	NELAP	5	200003	09-30-15
Iowa	State Program	7	374	03-01-15
Kansas	NELAP	7	E-10187	01-31-15 *
Kentucky (DW)	State Program	4	90029	12-31-15
Kentucky (UST)	State Program	4	30	03-31-15
Kentucky (WW)	State Program	4	90029	12-31-15
Louisiana	NELAP	6	02031	06-30-15
Maine	State Program	1	NY00044	12-04-16
Maryland	State Program	3	294	03-31-15
Massachusetts	State Program	1	M-NY044	06-30-15
Michigan	State Program	5	9937	03-31-15
Minnesota	NELAP	5	036-999-337	12-31-15
New Hampshire	NELAP	1	2337	11-17-15
New Jersey	NELAP	2	NY455	06-30-15
New York	NELAP	2	10026	03-31-15
North Dakota	State Program	8	R-176	03-31-15
Oklahoma	State Program	6	9421	08-31-15
Oregon	NELAP	10	NY200003	06-09-15
Pennsylvania	NELAP	3	68-00281	07-31-15
Rhode Island	State Program	1	LAO00328	12-30-14 *
Tennessee	State Program	4	TN02970	03-31-15
Texas	NELAP	6	T104704412-11-2	07-31-15
USDA	Federal		P330-11-00386	11-26-17
Virginia	NELAP	3	460185	09-14-15
Washington	State Program	10	C784	02-10-15
West Virginia DEP	State Program	3	252	09-30-15
Wisconsin	State Program	5	998310390	08-31-15

* Certification renewal pending - certification considered valid.

Method Summary

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

TestAmerica Job ID: 480-74193-1

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: 480-74193-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-74193-1	MW-265M-20150114	Water	01/14/15 11:05	01/15/15 01:45
480-74193-2	MW-267S-20150114	Water	01/14/15 09:50	01/15/15 01:45
480-74193-3	MW-267M-20150114	Water	01/14/15 10:40	01/15/15 01:45
480-74193-4	MW-268M-20150114	Water	01/14/15 08:30	01/15/15 01:45
480-74193-5	MW-560-20150114	Water	01/14/15 11:40	01/15/15 01:45
480-74193-6	MW-561-20150114	Water	01/14/15 08:25	01/15/15 01:45
480-74193-7	MW-562-20150114	Water	01/14/15 12:35	01/15/15 01:45
480-74193-8	MW-563-20150114	Water	01/14/15 09:50	01/15/15 01:45
480-74193-9	REW-6-20150113	Water	01/13/15 12:15	01/15/15 01:45
480-74193-10	REW-7-20150113	Water	01/13/15 09:40	01/15/15 01:45
480-74193-11	REW-8-20150113	Water	01/13/15 10:20	01/15/15 01:45
480-74193-12	REW-11-20150113	Water	01/13/15 11:25	01/15/15 01:45
480-74193-13	REW-12-20150113	Water	01/13/15 09:00	01/15/15 01:45
480-74193-14	DUP-20150114	Water	01/14/15 00:00	01/15/15 01:45
480-74193-15	TRIP BLANK	Water	01/14/15 00:00	01/15/15 01:45

Login Sample Receipt Checklist

Client: Innovative Engineering Solutions, Inc

Job Number: 480-74193-1

Login Number: 74193

List Source: TestAmerica Buffalo

List Number: 1

Creator: Williams, Christopher S

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	

480-74193 Chain of Custody

Boston Service Center
240 Bear Hill Road -- Suite 104
Waltham MA 02451
Phone: (781) 466-6900 Fax: (781) 466-6901

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Sample Collector's Name (Please Print Neatly): Davy Jones, Darren Rolls	Lab PM:	Carrier Tracking No(s):	COC No: 31237
Client Contact: Vicki Pariyar	Sample Collector's Phone: 508-404-3196	Lab PM's E-Mail:	Page: 1 of 2
Company: Innovative Engineering Solutions Inc			Job #:
Address: 25 Spring St	PWS ID Number: 1124115		
City: Walpole	Turnaround Time (TAT) Requested (business days):		
State and Zip: MA 02081			
Client's Phone: 508-668-0033	Quote #:		
Client's Contact Email: vipariyar@IESIonline.com	PO #: RA-008		
Client's Project Name/Number: Raytheon Wayland RA-008	WO #:		
Sample Collection Site Name & Location: RA-008 Wayland MA	SSOW#:		

Analyses Requested

Preservation Codes:
A - Hydrochloric Acid; B - Sodium Hydroxide; C - Zinc Acetate; D - Nitric Acid; E - Sodium Bisulfite; F - Methanol; H - Ascorbic Acid; J - Deionized Water; M - Hexane; N - No Preservative; P - Sodium Sulfate; Q - Sodium Sulfite; R - Sodium Thiosulfate; S - Sulfuric Acid; Z - other (specify): _____

Regulatory Programs:
MCP ☐ GW1/S1 ☐
RCP ☐ CT RSR ☐
DEP Form ☐ EDD Required ☐
eDEP Filing ☐ NPDES ☐

SUBCONTRACT POLICY: Unless you provide instructions to the contrary, or specify which sub-contract labs are or are not to be used, you agree in advance to permit Test-America to use certified, subcontract labs, without any additional notification made by us, as necessary to fulfill your work order.

Sample Identification	Sample Collection Date (MM/DD/YY)	Sample Collection Time (24 Hr Clock)	Sample Type: C=Comp G=Grab	Matrix Type **	Was the Sample Field Filtered? (Y / N)	Perform MS/MSD on This Sample? (Y / N)	8260B	Total Number of Containers (per line)	Special Instructions & Notes:
			Preservation Codes =>				A		
MW-265M-20150114	1/14/15	1105	G	W	N	N	X	3	
MW-267S-20150114	1/14/15	0950	G	W	N	N	X	3	
MW-267M-20150114	1/14/15	1040	G	W	N	N	X	3	
MW-268M-20150114	1/14/15	0830	G	W	N	N	X	3	
MW-560-20150114	1/14/15	1140	G	W	N	N	X	3	
MW-561-20150114	1/14/15	0825	G	W	N	N	X	3	
MW-562-20150114	1/14/15	1235	G	W	N	N	X	3	
MW-563-20150114	1/14/15	0950	G	W	N	N	X	3	
REW-6-20150113	1/13/15	1215	G	W	N	N	X	3	
REW-7-20150113	1/13/15	0940	G	W	N	N	X	3	

Possible Hazard Identification (please check off each that may apply):
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

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

** **Matrix Types:** A=Air S=Solid/Soil W=Water O=Oil X=Waste (non-water) Z=Other: _____

► **NOTE!! ALL SAMPLES MUST BE TRANSPORTED ON ICE !!** ◄

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
[signature]	1/14/15 1330	IESI	[signature]	1/14/15 1330	TAL
[signature]	1/14/15 1630	TAL	[signature]	15 JAN 15 0145	TAB

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks: 1.0 #3

WI-QA-010-rev 7

TestAmerica Boston
240 Bear Hill Rd., Suite 104
Waltham, MA 02451
Phone (781) 466-6900 Fax (781) 466-6901

Chain of Custody Record

TestAmerica

Client Information	Sampler: Dan Jones Darren Rolls	Lab PM: Mason, Becky C	Carrier Tracking No(s):	COC No: 480-61783-15799.2
Client Contact: Joseph Higgins	Phone: 404-3196 ~~508-668-0033~~	E-Mail: becky.mason@testamericainc.com		Page: Page 2 of 2
Company: Innovative Engineering Solutions, Inc				Job #:
Address: 25 Spring Street	Due Date Requested: 1/24/15			
City: Walpole	TAT Requested (days): [illegible]			
State, Zip: MA, 02081				
Phone: ~~781-255-0796(Tel) 781-255-7421(Fax)~~ 508-668-0033	PO #: Purchase Order Requested RA-008			
Email: ~~j.higgins@iesionline.com~~ v.parlyar@IESIonline.com	WO #:			
Project Name: RA-008	Project #: 48006598			
Site: Raytheon, Wayland	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2SO3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - ph 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260MCP - 8260	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A		
REW-8-20150113	1/13/15	1020	G	Water	N	N	X	3	
REW-11-20150113	1/13/15	1125	G	Water	N	N	X	3	
REW-12-20150113	1/13/15	0900	G	Water	N	N	X	3	
Dup-20150114	1/14/15	—	G	Water	N	N	X	3	
Trip Blank	—	—		Water	—	—	X	2	

Possible Hazard Identification
☒ 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 ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
[signature]	1/14/15 1330	IESI	[signature]	11/14/15 1330	TAL
[signature]	11/14/15 1630	TAL	[signature]	15 JAN 15 0145	TAB

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks: 1.0 #3

1/20/2015

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: 480-78129-1
Client Project/Site: IDS Wayland

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

Attn: Vicki Pariyar

Authorized for release by:
4/16/2015 2:18:34 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
*	RPD of the LCS and 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
CFL	Contains Free Liquid
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: 480-78129-1

Laboratory: TestAmerica Buffalo

Narrative

Receipt

The sample was received on 4/10/2015 at 1:15 AM; the sample arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 0.9º C.

GC/MS VOA

Method 8260C: 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-Amyl Methyl Ether and Tetrahydrofuran.

Method 8260C: The continuing calibration verification (CCV) for Acetone and 1,2 Dibromo-3-Chloropropane associated with batch 235598 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 235943 exceeded control limits for 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 laboratory control sample (LCS) and the laboratory control sample duplicate (LCSD) for batch 235943 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 %RPD of the laboratory control standard duplicate (LCSD) for preparation batch 235943 recovered outside control limits for 1,4-Dioxane.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

MassDEP Analytical Protocol Certification Form

Laboratory Name: **TestAmerica Buffalo** Project #: **480-78129-1**

Project Location: **IDS Wayland** RTN:

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

480-78129-1 [1]

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 ☐	9012 / 9014/ 4500CN 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, TestAmerica Westfield

Printed Name: Richard Emerich Date: 4/16/15 14:14

This form has been electronically signed and approved.

Detection Summary

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

TestAmerica Job ID: 480-78129-1

Client Sample ID: DEP-21-20150409 **Lab Sample ID: 480-78129-1**

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

This Detection Summary does not include radiochemical test results.

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

TestAmerica Job ID: 480-78129-1

Client Sample ID: DEP-21-20150409
Date Collected: 04/09/15 09:30
Date Received: 04/10/15 01:15

Lab Sample ID: 480-78129-1
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			04/14/15 02:55	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/14/15 02:55	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/14/15 02:55	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/14/15 02:55	1
1,1-Dichloroethane	ND		1.0		ug/L			04/14/15 02:55	1
1,1-Dichloroethene	ND		1.0		ug/L			04/14/15 02:55	1
1,1-Dichloropropene	ND		1.0		ug/L			04/14/15 02:55	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/14/15 02:55	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/14/15 02:55	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/14/15 02:55	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/14/15 02:55	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/14/15 02:55	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/14/15 02:55	1
1,2-Dichloroethane	ND		1.0		ug/L			04/14/15 02:55	1
1,2-Dichloropropane	ND		1.0		ug/L			04/14/15 02:55	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/14/15 02:55	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/14/15 02:55	1
1,3-Dichloropropane	ND		1.0		ug/L			04/14/15 02:55	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/14/15 02:55	1
1,4-Dioxane	ND	*	50		ug/L			04/14/15 02:55	1
2,2-Dichloropropane	ND		1.0		ug/L			04/14/15 02:55	1
2-Butanone (MEK)	ND	*	10		ug/L			04/14/15 02:55	1
2-Chlorotoluene	ND		1.0		ug/L			04/14/15 02:55	1
2-Hexanone	ND		10		ug/L			04/14/15 02:55	1
4-Chlorotoluene	ND		1.0		ug/L			04/14/15 02:55	1
4-Isopropyltoluene	ND		1.0		ug/L			04/14/15 02:55	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/14/15 02:55	1
Acetone	ND		50		ug/L			04/14/15 02:55	1
Benzene	ND		1.0		ug/L			04/14/15 02:55	1
Bromobenzene	ND		1.0		ug/L			04/14/15 02:55	1
Bromoform	ND		1.0		ug/L			04/14/15 02:55	1
Bromomethane	ND		2.0		ug/L			04/14/15 02:55	1
Carbon disulfide	ND		10		ug/L			04/14/15 02:55	1
Carbon tetrachloride	ND		1.0		ug/L			04/14/15 02:55	1
Chlorobenzene	ND		1.0		ug/L			04/14/15 02:55	1
Chlorobromomethane	ND		1.0		ug/L			04/14/15 02:55	1
Chlorodibromomethane	ND		0.50		ug/L			04/14/15 02:55	1
Chloroethane	ND		2.0		ug/L			04/14/15 02:55	1
Chloroform	ND		1.0		ug/L			04/14/15 02:55	1
Chloromethane	ND		2.0		ug/L			04/14/15 02:55	1
cis-1,2-Dichloroethene	**1.2**		1.0		ug/L			04/14/15 02:55	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/14/15 02:55	1
Dichlorobromomethane	ND		0.50		ug/L			04/14/15 02:55	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/14/15 02:55	1
Ethyl ether	ND		1.0		ug/L			04/14/15 02:55	1
Ethylbenzene	ND		1.0		ug/L			04/14/15 02:55	1
Ethylene Dibromide	ND		1.0		ug/L			04/14/15 02:55	1
Hexachlorobutadiene	ND		0.40		ug/L			04/14/15 02:55	1
Isopropyl ether	ND		10		ug/L			04/14/15 02:55	1

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

TestAmerica Job ID: 480-78129-1

Client Sample ID: DEP-21-20150409
Date Collected: 04/09/15 09:30
Date Received: 04/10/15 01:15

Lab Sample ID: 480-78129-1
Matrix: Water

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			04/14/15 02:55	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/14/15 02:55	1
Methylene Chloride	ND		1.0		ug/L			04/14/15 02:55	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/14/15 02:55	1
Naphthalene	ND		5.0		ug/L			04/14/15 02:55	1
n-Butylbenzene	ND		1.0		ug/L			04/14/15 02:55	1
N-Propylbenzene	ND		1.0		ug/L			04/14/15 02:55	1
o-Xylene	ND		1.0		ug/L			04/14/15 02:55	1
sec-Butylbenzene	ND		1.0		ug/L			04/14/15 02:55	1
Styrene	ND		1.0		ug/L			04/14/15 02:55	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/14/15 02:55	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/14/15 02:55	1
tert-Butylbenzene	ND		1.0		ug/L			04/14/15 02:55	1
Tetrachloroethene	ND		1.0		ug/L			04/14/15 02:55	1
Tetrahydrofuran	ND		10		ug/L			04/14/15 02:55	1
Toluene	ND		1.0		ug/L			04/14/15 02:55	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/14/15 02:55	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/14/15 02:55	1
Trichloroethene	ND		1.0		ug/L			04/14/15 02:55	1
Trichlorofluoromethane	ND		1.0		ug/L			04/14/15 02:55	1
Vinyl chloride	ND		1.0		ug/L			04/14/15 02:55	1
Dibromomethane	ND		1.0		ug/L			04/14/15 02:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*97*		*70 - 130*		*04/14/15 02:55*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 130*		*04/14/15 02:55*	*1*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*		*04/14/15 02:55*	*1*

Surrogate Summary

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

TestAmerica Job ID: 480-78129-1

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)
480-78129-1	DEP-21-20150409	97	103	100
LCS 480-235943/4	Lab Control Sample	100	102	104
LCSD 480-235943/5	Lab Control Sample Dup	97	101	101
MB 480-235943/7	Method Blank	97	103	99

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 480-235943/7
Matrix: Water
Analysis Batch: 235943

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			04/14/15 01:14	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/14/15 01:14	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/14/15 01:14	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/14/15 01:14	1
1,1-Dichloroethane	ND		1.0		ug/L			04/14/15 01:14	1
1,1-Dichloroethene	ND		1.0		ug/L			04/14/15 01:14	1
1,1-Dichloropropene	ND		1.0		ug/L			04/14/15 01:14	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/14/15 01:14	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/14/15 01:14	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/14/15 01:14	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/14/15 01:14	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/14/15 01:14	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/14/15 01:14	1
1,2-Dichloroethane	ND		1.0		ug/L			04/14/15 01:14	1
1,2-Dichloropropane	ND		1.0		ug/L			04/14/15 01:14	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/14/15 01:14	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/14/15 01:14	1
1,3-Dichloropropane	ND		1.0		ug/L			04/14/15 01:14	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/14/15 01:14	1
1,4-Dioxane	ND		50		ug/L			04/14/15 01:14	1
2,2-Dichloropropane	ND		1.0		ug/L			04/14/15 01:14	1
2-Butanone (MEK)	ND		10		ug/L			04/14/15 01:14	1
2-Chlorotoluene	ND		1.0		ug/L			04/14/15 01:14	1
2-Hexanone	ND		10		ug/L			04/14/15 01:14	1
4-Chlorotoluene	ND		1.0		ug/L			04/14/15 01:14	1
4-Isopropyltoluene	ND		1.0		ug/L			04/14/15 01:14	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/14/15 01:14	1
Acetone	ND		50		ug/L			04/14/15 01:14	1
Benzene	ND		1.0		ug/L			04/14/15 01:14	1
Bromobenzene	ND		1.0		ug/L			04/14/15 01:14	1
Bromoform	ND		1.0		ug/L			04/14/15 01:14	1
Bromomethane	ND		2.0		ug/L			04/14/15 01:14	1
Carbon disulfide	ND		10		ug/L			04/14/15 01:14	1
Carbon tetrachloride	ND		1.0		ug/L			04/14/15 01:14	1
Chlorobenzene	ND		1.0		ug/L			04/14/15 01:14	1
Chlorobromomethane	ND		1.0		ug/L			04/14/15 01:14	1
Chlorodibromomethane	ND		0.50		ug/L			04/14/15 01:14	1
Chloroethane	ND		2.0		ug/L			04/14/15 01:14	1
Chloroform	ND		1.0		ug/L			04/14/15 01:14	1
Chloromethane	ND		2.0		ug/L			04/14/15 01:14	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			04/14/15 01:14	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/14/15 01:14	1
Dichlorobromomethane	ND		0.50		ug/L			04/14/15 01:14	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/14/15 01:14	1
Ethyl ether	ND		1.0		ug/L			04/14/15 01:14	1
Ethylbenzene	ND		1.0		ug/L			04/14/15 01:14	1
Ethylene Dibromide	ND		1.0		ug/L			04/14/15 01:14	1
Hexachlorobutadiene	ND		0.40		ug/L			04/14/15 01:14	1

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

Lab Sample ID: MB 480-235943/7
Matrix: Water
Analysis Batch: 235943

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			04/14/15 01:14	1
Isopropylbenzene	ND		1.0		ug/L			04/14/15 01:14	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/14/15 01:14	1
Methylene Chloride	ND		1.0		ug/L			04/14/15 01:14	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/14/15 01:14	1
Naphthalene	ND		5.0		ug/L			04/14/15 01:14	1
n-Butylbenzene	ND		1.0		ug/L			04/14/15 01:14	1
N-Propylbenzene	ND		1.0		ug/L			04/14/15 01:14	1
o-Xylene	ND		1.0		ug/L			04/14/15 01:14	1
sec-Butylbenzene	ND		1.0		ug/L			04/14/15 01:14	1
Styrene	ND		1.0		ug/L			04/14/15 01:14	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/14/15 01:14	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/14/15 01:14	1
tert-Butylbenzene	ND		1.0		ug/L			04/14/15 01:14	1
Tetrachloroethene	ND		1.0		ug/L			04/14/15 01:14	1
Tetrahydrofuran	ND		10		ug/L			04/14/15 01:14	1
Toluene	ND		1.0		ug/L			04/14/15 01:14	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/14/15 01:14	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/14/15 01:14	1
Trichloroethene	ND		1.0		ug/L			04/14/15 01:14	1
Trichlorofluoromethane	ND		1.0		ug/L			04/14/15 01:14	1
Vinyl chloride	ND		1.0		ug/L			04/14/15 01:14	1
Dibromomethane	ND		1.0		ug/L			04/14/15 01:14	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*97*		*70 - 130*		*04/14/15 01:14*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 130*		*04/14/15 01:14*	*1*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*04/14/15 01:14*	*1*

Lab Sample ID: LCS 480-235943/4
Matrix: Water
Analysis Batch: 235943

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	24.9		ug/L		100	70 - 130
1,1,1-Trichloroethane	25.0	26.2		ug/L		105	70 - 130
1,1,2,2-Tetrachloroethane	25.0	22.6		ug/L		90	70 - 130
1,1,2-Trichloroethane	25.0	24.4		ug/L		98	70 - 130
1,1-Dichloroethane	25.0	26.1		ug/L		105	70 - 130
1,1-Dichloroethene	25.0	23.7		ug/L		95	70 - 130
1,1-Dichloropropene	25.0	25.8		ug/L		103	70 - 130
1,2,3-Trichlorobenzene	25.0	26.2		ug/L		105	70 - 130
1,2,3-Trichloropropane	25.0	23.5		ug/L		94	70 - 130
1,2,4-Trichlorobenzene	25.0	25.0		ug/L		100	70 - 130
1,2,4-Trimethylbenzene	25.0	24.8		ug/L		99	70 - 130
1,2-Dibromo-3-Chloropropane	25.0	21.9		ug/L		88	70 - 130
1,2-Dichlorobenzene	25.0	24.9		ug/L		99	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 480-235943/4
Matrix: Water
Analysis Batch: 235943

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	25.4		ug/L		101	70 - 130
1,3-Dichlorobenzene	25.0	25.2		ug/L		101	70 - 130
1,3-Dichloropropane	25.0	23.7		ug/L		95	70 - 130
1,4-Dichlorobenzene	25.0	25.4		ug/L		102	70 - 130
1,4-Dioxane	500	298	*	ug/L		60	70 - 130
2,2-Dichloropropane	25.0	25.8		ug/L		103	70 - 130
2-Butanone (MEK)	125	212	*	ug/L		169	70 - 130
2-Chlorotoluene	25.0	24.5		ug/L		98	70 - 130
2-Hexanone	125	116		ug/L		93	70 - 130
4-Chlorotoluene	25.0	25.2		ug/L		101	70 - 130
4-Isopropyltoluene	25.0	25.6		ug/L		102	70 - 130
4-Methyl-2-pentanone (MIBK)	125	112		ug/L		90	70 - 130
Acetone	125	109		ug/L		88	70 - 130
Benzene	25.0	25.0		ug/L		100	70 - 130
Bromobenzene	25.0	24.4		ug/L		97	70 - 130
Bromoform	25.0	23.8		ug/L		95	70 - 130
Bromomethane	25.0	26.2		ug/L		105	70 - 130
Carbon disulfide	25.0	22.8		ug/L		91	70 - 130
Carbon tetrachloride	25.0	26.3		ug/L		105	70 - 130
Chlorobenzene	25.0	25.6		ug/L		103	70 - 130
Chlorobromomethane	25.0	25.4		ug/L		101	70 - 130
Chlorodibromomethane	25.0	24.9		ug/L		100	70 - 130
Chloroethane	25.0	24.9		ug/L		99	70 - 130
Chloroform	25.0	25.7		ug/L		103	70 - 130
Chloromethane	25.0	24.8		ug/L		99	70 - 130
cis-1,2-Dichloroethene	25.0	25.7		ug/L		103	70 - 130
cis-1,3-Dichloropropene	25.0	25.5		ug/L		102	70 - 130
Dichlorobromomethane	25.0	25.4		ug/L		102	70 - 130
Dichlorodifluoromethane	25.0	26.1		ug/L		104	70 - 130
Ethyl ether	25.0	23.4		ug/L		94	70 - 130
Ethylbenzene	25.0	25.1		ug/L		100	70 - 130
Ethylene Dibromide	25.0	24.3		ug/L		97	70 - 130
Hexachlorobutadiene	25.0	28.3		ug/L		113	70 - 130
Isopropyl ether	25.0	25.0		ug/L		100	70 - 130
Isopropylbenzene	25.0	25.3		ug/L		101	70 - 130
Methyl tert-butyl ether	25.0	23.8		ug/L		95	70 - 130
Methylene Chloride	25.0	24.1		ug/L		97	70 - 130
m-Xylene & p-Xylene	25.0	24.8		ug/L		99	70 - 130
Naphthalene	25.0	24.8		ug/L		99	70 - 130
n-Butylbenzene	25.0	25.7		ug/L		103	70 - 130
N-Propylbenzene	25.0	24.7		ug/L		99	70 - 130
o-Xylene	25.0	25.1		ug/L		101	70 - 130
sec-Butylbenzene	25.0	26.3		ug/L		105	70 - 130
Styrene	25.0	24.8		ug/L		99	70 - 130
Tert-amyl methyl ether	25.0	24.3		ug/L		97	70 - 130
Tert-butyl ethyl ether	25.0	24.2		ug/L		97	70 - 130
tert-Butylbenzene	25.0	25.3		ug/L		101	70 - 130

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

Lab Sample ID: LCS 480-235943/4
Matrix: Water
Analysis Batch: 235943

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	50.0	63.4		ug/L		127	70 - 130
Toluene	25.0	24.4		ug/L		98	70 - 130
trans-1,2-Dichloroethene	25.0	25.1		ug/L		101	70 - 130
trans-1,3-Dichloropropene	25.0	23.6		ug/L		94	70 - 130
Trichloroethene	25.0	26.5		ug/L		106	70 - 130
Trichlorofluoromethane	25.0	29.7		ug/L		119	70 - 130
Vinyl chloride	25.0	25.4		ug/L		102	70 - 130
Dibromomethane	25.0	25.3		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)	*104*		*70 - 130*

Lab Sample ID: LCSD 480-235943/5
Matrix: Water
Analysis Batch: 235943

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	5	20
1,1,1-Trichloroethane	25.0	24.5		ug/L		98	70 - 130	7	20
1,1,2,2-Tetrachloroethane	25.0	22.5		ug/L		90	70 - 130	0	20
1,1,2-Trichloroethane	25.0	23.7		ug/L		95	70 - 130	3	20
1,1-Dichloroethane	25.0	24.9		ug/L		99	70 - 130	5	20
1,1-Dichloroethene	25.0	21.9		ug/L		88	70 - 130	8	20
1,1-Dichloropropene	25.0	24.4		ug/L		98	70 - 130	6	20
1,2,3-Trichlorobenzene	25.0	25.8		ug/L		103	70 - 130	2	20
1,2,3-Trichloropropane	25.0	23.4		ug/L		94	70 - 130	0	20
1,2,4-Trichlorobenzene	25.0	24.4		ug/L		98	70 - 130	2	20
1,2,4-Trimethylbenzene	25.0	24.0		ug/L		96	70 - 130	3	20
1,2-Dibromo-3-Chloropropane	25.0	22.8		ug/L		91	70 - 130	4	20
1,2-Dichlorobenzene	25.0	24.4		ug/L		98	70 - 130	2	20
1,2-Dichloroethane	25.0	24.2		ug/L		97	70 - 130	0	20
1,2-Dichloropropane	25.0	24.6		ug/L		98	70 - 130	5	20
1,3,5-Trimethylbenzene	25.0	24.4		ug/L		98	70 - 130	4	20
1,3-Dichlorobenzene	25.0	24.2		ug/L		97	70 - 130	4	20
1,3-Dichloropropane	25.0	22.9		ug/L		92	70 - 130	3	20
1,4-Dichlorobenzene	25.0	24.3		ug/L		97	70 - 130	4	20
1,4-Dioxane	500	382	*	ug/L		76	70 - 130	25	20
2,2-Dichloropropane	25.0	24.2		ug/L		97	70 - 130	6	20
2-Butanone (MEK)	125	204	*	ug/L		163	70 - 130	4	20
2-Chlorotoluene	25.0	24.0		ug/L		96	70 - 130	2	20
2-Hexanone	125	113		ug/L		91	70 - 130	2	20
4-Chlorotoluene	25.0	24.5		ug/L		98	70 - 130	3	20
4-Isopropyltoluene	25.0	25.1		ug/L		100	70 - 130	2	20
4-Methyl-2-pentanone (MIBK)	125	111		ug/L		89	70 - 130	1	20
Acetone	125	110		ug/L		88	70 - 130	0	20

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

Lab Sample ID: LCSD 480-235943/5
Matrix: Water
Analysis Batch: 235943

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		96	70 - 130	1	20
Bromoform			25.0	23.5		ug/L		94	70 - 130	1	20
Bromomethane			25.0	24.7		ug/L		99	70 - 130	6	20
Carbon disulfide			25.0	21.0		ug/L		84	70 - 130	8	20
Carbon tetrachloride			25.0	24.9		ug/L		100	70 - 130	5	20
Chlorobenzene			25.0	24.7		ug/L		99	70 - 130	4	20
Chlorobromomethane			25.0	24.4		ug/L		98	70 - 130	4	20
Chlorodibromomethane			25.0	24.8		ug/L		99	70 - 130	0	20
Chloroethane			25.0	23.7		ug/L		95	70 - 130	5	20
Chloroform			25.0	24.3		ug/L		97	70 - 130	5	20
Chloromethane			25.0	22.9		ug/L		92	70 - 130	8	20
cis-1,2-Dichloroethene			25.0	24.4		ug/L		98	70 - 130	5	20
cis-1,3-Dichloropropene			25.0	24.4		ug/L		98	70 - 130	4	20
Dichlorobromomethane			25.0	24.6		ug/L		98	70 - 130	3	20
Dichlorodifluoromethane			25.0	23.6		ug/L		94	70 - 130	10	20
Ethyl ether			25.0	23.1		ug/L		92	70 - 130	1	20
Ethylbenzene			25.0	23.7		ug/L		95	70 - 130	6	20
Ethylene Dibromide			25.0	23.9		ug/L		96	70 - 130	2	20
Hexachlorobutadiene			25.0	27.3		ug/L		109	70 - 130	3	20
Isopropyl ether			25.0	24.1		ug/L		97	70 - 130	3	20
Isopropylbenzene			25.0	24.5		ug/L		98	70 - 130	3	20
Methyl tert-butyl ether			25.0	23.4		ug/L		94	70 - 130	1	20
Methylene Chloride			25.0	22.7		ug/L		91	70 - 130	6	20
m-Xylene & p-Xylene			25.0	23.8		ug/L		95	70 - 130	4	20
Naphthalene			25.0	24.4		ug/L		98	70 - 130	1	20
n-Butylbenzene			25.0	25.0		ug/L		100	70 - 130	3	20
N-Propylbenzene			25.0	24.1		ug/L		96	70 - 130	3	20
o-Xylene			25.0	24.3		ug/L		97	70 - 130	3	20
sec-Butylbenzene			25.0	25.0		ug/L		100	70 - 130	5	20
Styrene			25.0	24.0		ug/L		96	70 - 130	3	20
Tert-amyl methyl ether			25.0	23.7		ug/L		95	70 - 130	2	20
Tert-butyl ethyl ether			25.0	23.8		ug/L		95	70 - 130	2	20
tert-Butylbenzene			25.0	24.4		ug/L		98	70 - 130	4	20
Tetrachloroethene			25.0	26.0		ug/L		104	70 - 130	6	20
Tetrahydrofuran			50.0	62.4		ug/L		125	70 - 130	2	20
Toluene			25.0	23.1		ug/L		93	70 - 130	5	20
trans-1,2-Dichloroethene			25.0	24.3		ug/L		97	70 - 130	3	20
trans-1,3-Dichloropropene			25.0	23.3		ug/L		93	70 - 130	1	20
Trichloroethene			25.0	24.5		ug/L		98	70 - 130	8	20
Trichlorofluoromethane			25.0	27.3		ug/L		109	70 - 130	8	20
Vinyl chloride			25.0	23.9		ug/L		96	70 - 130	6	20
Dibromomethane			25.0	25.1		ug/L		100	70 - 130	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*97*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 130*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*

QC Association Summary

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

TestAmerica Job ID: 480-78129-1

GC/MS VOA

Analysis Batch: 235943

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-78129-1	DEP-21-20150409	Total/NA	Water	8260C	
LCS 480-235943/4	Lab Control Sample	Total/NA	Water	8260C	
LCSD 480-235943/5	Lab Control Sample Dup	Total/NA	Water	8260C	
MB 480-235943/7	Method Blank	Total/NA	Water	8260C	

Lab Chronicle

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

TestAmerica Job ID: 480-78129-1

Client Sample ID: DEP-21-20150409
Date Collected: 04/09/15 09:30
Date Received: 04/10/15 01:15

Lab Sample ID: 480-78129-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	235943	04/14/15 02:55	SWO	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: 480-78129-1

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	07-06-15
California	State Program	9	1169CA	09-30-15
Connecticut	State Program	1	PH-0568	09-30-16
Florida	NELAP	4	E87672	06-30-15
Georgia	State Program	4	N/A	03-31-16
Illinois	NELAP	5	200003	09-30-15
Iowa	State Program	7	374	03-01-15 *
Kansas	NELAP	7	E-10187	04-30-15 *
Kentucky (DW)	State Program	4	90029	12-31-15
Kentucky (UST)	State Program	4	30	03-31-16
Kentucky (WW)	State Program	4	90029	12-31-15
Louisiana	NELAP	6	02031	06-30-15
Maine	State Program	1	NY00044	12-04-16
Maryland	State Program	3	294	03-31-16
Massachusetts	State Program	1	M-NY044	06-30-15
Michigan	State Program	5	9937	03-31-15 *
Minnesota	NELAP	5	036-999-337	12-31-15
New Hampshire	NELAP	1	2337	11-17-15
New Jersey	NELAP	2	NY455	06-30-15
New York	NELAP	2	10026	03-31-16
North Dakota	State Program	8	R-176	03-31-15 *
Oklahoma	State Program	6	9421	08-31-15
Oregon	NELAP	10	NY200003	06-09-15
Pennsylvania	NELAP	3	68-00281	07-31-15
Rhode Island	State Program	1	LAO00328	12-30-15
Tennessee	State Program	4	TN02970	03-31-16
Texas	NELAP	6	T104704412-11-2	07-31-15
USDA	Federal		P330-11-00386	11-26-17
Virginia	NELAP	3	460185	09-14-15
Washington	State Program	10	C784	02-10-16
West Virginia DEP	State Program	3	252	09-30-15
Wisconsin	State Program	5	998310390	08-31-15

* Certification renewal pending - certification considered valid.

Method Summary

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

TestAmerica Job ID: 480-78129-1

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: 480-78129-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-78129-1	DEP-21-20150409	Water	04/09/15 09:30	04/10/15 01:15

Login Sample Receipt Checklist

Client: Innovative Engineering Solutions, Inc

Job Number: 480-78129-1

Login Number: 78129

List Source: TestAmerica Buffalo

List Number: 1

Creator: Williams, Christopher S

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	IES INC.
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 Poniver	4/9/15	279383
Address	**Telephone Number (Area Code)/Fax Number**	**Lab Number**	**Page** 1 of 1
23 Spring St	508-668-0033 / 508-668-5175		
City / **State** / **Zip Code**	**Site Contact**	**Lab Contact**	
Walpole / MA / 02081	Dave Jones		
Project Name and Location (State)	**Carrier/Waybill Number**		
Raytheon - Wayland, Wayland MA			
Contract/Purchase Order/Quote No.			
RA-008			

Analysis (Attach list if more space is needed)

Special Instructions/ Conditions of Receipt

480-78129 Chain of Custody

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	8260C	
DEP-21-20150409	4/9/15	0930		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	4/9/15	1030	1. Received By	4/9/15	1030
2. Relinquished By	4/9/15	1605	2. Received By TAS	10 APR 15	0115
3. Relinquished By			3. Received By		

Comments

0.9 #1

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

Report Date:
29-Jan-15 14:44

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

☑ Final Report
☐ Re-Issued Report
☐ Revised Report

Laboratory Report

Innovative Engineering Solutions, Inc.
25 Spring Street
Walpole, MA 02081

Work Order: P0034
Project : Raytheon - Wayland
Project #:

Attn: Sami Fam

Laboratory ID	Client Sample ID	Matrix	Date Sampled	Date Received
P0034-01	REW-6-20150113	Aqueous	13-Jan-15 12:15	14-Jan-15 12:25
P0034-02	REW-7-20150113	Aqueous	13-Jan-15 09:40	14-Jan-15 12:25
P0034-03	REW-8-20150113	Aqueous	13-Jan-15 10:20	14-Jan-15 12:25
P0034-04	REW-11-20150113	Aqueous	13-Jan-15 11:25	14-Jan-15 12:25
P0034-05	REW-12-20150113	Aqueous	13-Jan-15 09:00	14-Jan-15 12:25
P0034-06	MW-265M-20150114	Aqueous	14-Jan-15 11:05	15-Jan-15 10:45
P0034-07	MW-267S-20150114	Aqueous	14-Jan-15 09:50	15-Jan-15 10:45
P0034-08	MW-267M-20150114	Aqueous	14-Jan-15 10:40	15-Jan-15 10:45
P0034-09	MW-268M-20150114	Aqueous	14-Jan-15 08:30	15-Jan-15 10:45
P0034-10	MW-560-20150114	Aqueous	14-Jan-15 11:40	15-Jan-15 10:45
P0034-11	MW-561-20150114	Aqueous	14-Jan-15 08:25	15-Jan-15 10:45
P0034-12	MW-562-20150114	Aqueous	14-Jan-15 12:35	15-Jan-15 10:45
P0034-13	MW-563-20150114	Aqueous	14-Jan-15 09:50	15-Jan-15 10:45

I attest that the information contained within the report has been reviewed for accuracy and checked against the quality control requirements for each method. The results relate only to the samples(s) as received. This report may not be reproduced, except in full, without written approval from Spectrum Analytical.

All applicable NELAC or USEPA CLP requirments have been meet.

Spectrum Analytical (Rhode Island) is accredited under the National Environmental Laboratory Approval Program (NELAP) and DoD Environmental Laboratory Accreditation Program (ELAP), holds Organic and Inorganic contracts under the USEPA CLP Program and is certified under several states. The current list of our laboratory approvals and certifications is available on the Certifications page on our web site at www.spectrum-analytical.com.

Please contact the Laboratory or Technical Director at 401-732-3400 with any questions regarding the data contained in the laboratory report.

Department of Defense	N/A
Connecticut	PH-0153
Delaware	N/A
Florida	E87664
Maine	2007037
Massachusetts	M-RI907
New Hampshire	2631
New Jersey	RI001
New York	11522
Rhode Island	LAI00301
USDA	P330-08-00023
USEPA - ISM	EP-W-09-039
USEPA - SOM	EP-W-11-033

NELAP ACCREDITED TNI LABORATORY

LABORATORY ACCREDITATION BUREAU ACCREDITED
Certificate # L2247 Testing

Authorized by:

Yihai Ding
Laboratory Director

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

01/29/2015

Client: Innovative Engineering Solutions, Inc.
Client Sample ID: REW-6-20150113 **Project:** Raytheon - Wayland
Lab ID: P0034-01 **Collection Date:** 01/13/15 12:15

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
RSK175 -- Dissolved Gases by GC-FID							**RSK175**
Methane	45000		61	µg/L	100	01/21/2015 13:21	80816
Ethane	ND		130	µg/L	100	01/21/2015 13:21	80816
Ethene	ND		160	µg/L	100	01/21/2015 13:21	80816
SW846 6010C -- Metals by ICP							**SW6010_W**
Iron	130000		200	ug/L	1	01/21/2015 9:24	80805
SM 4500B-C NH3 -- Nitrogen (Ammonia)							**SM4500_NH3_W**
Ammonia-N	0.280		0.200	mg/l	1	01/20/2015 17:29	SUBBED
EPA 300.0 -- Anions by Ion Chromotography (LOW)							**E300IC_W**
Chloride	38		2.0	mg/L	1	01/14/2015 14:15	80742
Nitrogen, Nitrate (As N)	ND		0.13	mg/L	1	01/14/2015 14:15	80742
ortho-Phosphate (As P)	ND		0.50	mg/L	1	01/15/2015 11:14	80742
Sulfate	9.7	B	5.0	mg/L	1	01/14/2015 14:15	80742
SM 2320B -- Alkalinity (Total)							**SM2320_W**
Alkalinity, Total (As CaCO3)	330		20	mg/L CaCO3	1	01/15/2015 10:28	80750
SM 4500 H+ B -- pH VALUE							**SM4500_H+**
pH	6.5		1.0	S.U.	1	01/14/2015 10:45	R86821
SM 5310B TOC -- Total Organic Carbon by combustion							**SM5310B_TOC_W**
Organic Carbon, Total	630		100	mg/L	10	01/22/2015 14:30	80828

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Client: Innovative Engineering Solutions, Inc.
Client Sample ID: REW-7-20150113 **Project:** Raytheon - Wayland
Lab ID: P0034-02 **Collection Date:** 01/13/15 9:40

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
RSK175 -- Dissolved Gases by GC-FID							**RSK175**
Methane	40000		60	µg/L	100	01/21/2015 13:29	80816
Ethane	ND		120	µg/L	100	01/21/2015 13:29	80816
Ethene	ND		150	µg/L	100	01/21/2015 13:29	80816
SW846 6010C -- Metals by ICP							**SW6010_W**
Iron	79000		200	ug/L	1	01/21/2015 9:27	80805
SM 4500B-C NH3 -- Nitrogen (Ammonia)							**SM4500_NH3_W**
Ammonia-N	ND	U	0.200	mg/l	1	01/20/2015 17:29	SUBBED
EPA 300.0 -- Anions by Ion Chromotography (LOW)							**E300IC_W**
Chloride	26		2.0	mg/L	1	01/14/2015 14:50	80742
Nitrogen, Nitrate (As N)	ND		0.13	mg/L	1	01/14/2015 14:50	80742
ortho-Phosphate (As P)	ND		0.50	mg/L	1	01/15/2015 11:49	80742
Sulfate	5.8	B	5.0	mg/L	1	01/14/2015 14:50	80742
SM 2320B -- Alkalinity (Total)							**SM2320_W**
Alkalinity, Total (As CaCO3)	280		20	mg/L CaCO3	1	01/15/2015 10:35	80750
SM 4500 H+ B -- pH VALUE							**SM4500_H+**
pH	6.9		1.0	S.U.	1	01/14/2015 10:48	R86821
SM 5310B TOC -- Total Organic Carbon by combustion							**SM5310B_TOC_W**
Organic Carbon, Total	190		10	mg/L	1	01/22/2015 13:37	80828

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Client: Innovative Engineering Solutions, Inc.
Client Sample ID: REW-8-20150113 **Project:** Raytheon - Wayland
Lab ID: P0034-03 **Collection Date:** 01/13/15 10:20

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
RSK175 -- Dissolved Gases by GC-FID							**RSK175**
Methane	48000		60	µg/L	100	01/21/2015 13:36	80816
Ethane	ND		120	µg/L	100	01/21/2015 13:36	80816
Ethene	ND		150	µg/L	100	01/21/2015 13:36	80816
SW846 6010C -- Metals by ICP							**SW6010_W**
Iron	75000		200	ug/L	1	01/21/2015 9:31	80805
SM 4500B-C NH3 -- Nitrogen (Ammonia)							**SM4500_NH3_W**
Ammonia-N	ND	U	0.200	mg/l	1	01/20/2015 17:29	SUBBED
EPA 300.0 -- Anions by Ion Chromotography (LOW)							**E300IC_W**
Chloride	34		2.0	mg/L	1	01/14/2015 15:02	80742
Nitrogen, Nitrate (As N)	ND		0.13	mg/L	1	01/14/2015 15:02	80742
ortho-Phosphate (As P)	ND		0.50	mg/L	1	01/15/2015 12:01	80742
Sulfate	5.9	B	5.0	mg/L	1	01/14/2015 15:02	80742
SM 2320B -- Alkalinity (Total)							**SM2320_W**
Alkalinity, Total (As CaCO3)	280		20	mg/L CaCO3	1	01/15/2015 10:41	80750
SM 4500 H+ B -- pH VALUE							**SM4500_H+**
pH	6.9		1.0	S.U.	1	01/14/2015 10:51	R86821
SM 5310B TOC -- Total Organic Carbon by combustion							**SM5310B_TOC_W**
Organic Carbon, Total	ND		10	mg/L	1	01/21/2015 17:50	80828

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Client: Innovative Engineering Solutions, Inc.
Client Sample ID: REW-11-20150113 **Project:** Raytheon - Wayland
Lab ID: P0034-04 **Collection Date:** 01/13/15 11:25

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
RSK175 -- Dissolved Gases by GC-FID							**RSK175**
Methane	31000		30	µg/L	50	01/21/2015 13:45	80816
Ethane	ND		62	µg/L	50	01/21/2015 13:45	80816
Ethene	ND		77	µg/L	50	01/21/2015 13:45	80816
SW846 6010C -- Metals by ICP							**SW6010_W**
Iron	42000		200	ug/L	1	01/21/2015 9:42	80805
SM 4500B-C NH3 -- Nitrogen (Ammonia)							**SM4500_NH3_W**
Ammonia-N	ND	U	0.200	mg/l	1	01/20/2015 17:29	SUBBED
EPA 300.0 -- Anions by Ion Chromotography (LOW)							**E300IC_W**
Chloride	21		2.0	mg/L	1	01/14/2015 15:13	80742
Nitrogen, Nitrate (As N)	ND		0.13	mg/L	1	01/14/2015 15:13	80742
ortho-Phosphate (As P)	ND		0.50	mg/L	1	01/15/2015 12:13	80742
Sulfate	19	B	5.0	mg/L	1	01/14/2015 15:13	80742
SM 2320B -- Alkalinity (Total)							**SM2320_W**
Alkalinity, Total (As CaCO3)	180		20	mg/L CaCO3	1	01/15/2015 10:47	80750
SM 4500 H+ B -- pH VALUE							**SM4500_H+**
pH	6.6		1.0	S.U.	1	01/14/2015 10:54	R86821
SM 5310B TOC -- Total Organic Carbon by combustion							**SM5310B_TOC_W**
Organic Carbon, Total	180		10	mg/L	1	01/21/2015 18:10	80828

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Client: Innovative Engineering Solutions, Inc.
Client Sample ID: REW-12-20150113 **Project:** Raytheon - Wayland
Lab ID: P0034-05 **Collection Date:** 01/13/15 9:00

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
RSK175 -- Dissolved Gases by GC-FID							**RSK175**
Methane	55000		61	µg/L	100	01/21/2015 13:53	80816
Ethane	ND		130	µg/L	100	01/21/2015 13:53	80816
Ethene	ND		160	µg/L	100	01/21/2015 13:53	80816
SW846 6010C -- Metals by ICP							**SW6010_W**
Iron	60000		200	ug/L	1	01/21/2015 9:46	80805
SM 4500B-C NH3 -- Nitrogen (Ammonia)							**SM4500_NH3_W**
Ammonia-N	ND	U	0.200	mg/l	1	01/20/2015 17:29	SUBBED
EPA 300.0 -- Anions by Ion Chromotography (LOW)							**E300IC_W**
Chloride	35		2.0	mg/L	1	01/14/2015 15:25	80742
Nitrogen, Nitrate (As N)	ND		0.13	mg/L	1	01/14/2015 15:25	80742
ortho-Phosphate (As P)	ND		0.50	mg/L	1	01/15/2015 12:25	80742
Sulfate	13	B	5.0	mg/L	1	01/14/2015 15:25	80742
SM 2320B -- Alkalinity (Total)							**SM2320_W**
Alkalinity, Total (As CaCO3)	250		20	mg/L CaCO3	1	01/15/2015 10:53	80750
SM 4500 H+ B -- pH VALUE							**SM4500_H+**
pH	6.7		1.0	S.U.	1	01/14/2015 10:57	R86821
SM 5310B TOC -- Total Organic Carbon by combustion							**SM5310B_TOC_W**
Organic Carbon, Total	180		10	mg/L	1	01/21/2015 18:36	80828

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Client: Innovative Engineering Solutions, Inc.
Client Sample ID: MW-265M-20150114
Lab ID: P0034-06
Project: Raytheon - Wayland
Collection Date: 01/14/15 11:05

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
RSK175 -- Dissolved Gases by GC-FID							**RSK175**
Methane	63000		61	µg/L	100	01/21/2015 14:01	80816
Ethane	ND		130	µg/L	100	01/21/2015 14:01	80816
Ethene	ND		160	µg/L	100	01/21/2015 14:01	80816
SW846 6010C -- Metals by ICP							**SW6010_W**
Iron	190000		200	ug/L	1	01/21/2015 9:50	80805
SM 4500B-C NH3 -- Nitrogen (Ammonia)							**SM4500_NH3_W**
Ammonia-N	ND	U	0.200	mg/l	1	01/20/2015 17:29	SUBBED
EPA 300.0 -- Anions by Ion Chromotography (LOW)							**E300IC_W**
Chloride	26		2.0	mg/L	1	01/15/2015 13:43	80754
Nitrogen, Nitrate (As N)	ND		0.13	mg/L	1	01/15/2015 13:43	80754
ortho-Phosphate (As P)	0.28	J	0.50	mg/L	1	01/15/2015 13:43	80754
Sulfate	0.22	BJ	5.0	mg/L	1	01/15/2015 13:43	80754
SM 2320B -- Alkalinity (Total)							**SM2320_W**
Alkalinity, Total (As CaCO3)	840		40	mg/L CaCO3	2	01/21/2015 13:16	80835
SM 4500 H+ B -- pH VALUE							**SM4500_H+**
pH	5.8		1.0	S.U.	1	01/15/2015 14:00	R86861
SM 5310B TOC -- Total Organic Carbon by combustion							**SM5310B_TOC_W**
Organic Carbon, Total	1400		100	mg/L	10	01/22/2015 14:56	80828

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Client: Innovative Engineering Solutions, Inc.
Client Sample ID: MW-267S-20150114 **Project:** Raytheon - Wayland
Lab ID: P0034-07 **Collection Date:** 01/14/15 9:50

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
RSK175 -- Dissolved Gases by GC-FID							**RSK175**
Methane	38000		30	µg/L	50	01/21/2015 14:09	80816
Ethane	ND		62	µg/L	50	01/21/2015 14:09	80816
Ethene	ND		77	µg/L	50	01/21/2015 14:09	80816
SW846 6010C -- Metals by ICP							**SW6010_W**
Iron	130000		200	ug/L	1	01/21/2015 9:53	80805
SM 4500B-C NH3 -- Nitrogen (Ammonia)							**SM4500_NH3_W**
Ammonia-N	0.420		0.200	mg/l	1	01/20/2015 17:29	SUBBED
EPA 300.0 -- Anions by Ion Chromotography (LOW)							**E300IC_W**
Chloride	37		2.0	mg/L	1	01/15/2015 13:55	80754
Nitrogen, Nitrate (As N)	ND		0.13	mg/L	1	01/15/2015 13:55	80754
ortho-Phosphate (As P)	ND		0.50	mg/L	1	01/15/2015 13:55	80754
Sulfate	0.27	BJ	5.0	mg/L	1	01/15/2015 13:55	80754
SM 2320B -- Alkalinity (Total)							**SM2320_W**
Alkalinity, Total (As CaCO3)	390		20	mg/L CaCO3	1	01/21/2015 13:21	80835
SM 4500 H+ B -- pH VALUE							**SM4500_H+**
pH	5.7		1.0	S.U.	1	01/15/2015 14:02	R86861
SM 5310B TOC -- Total Organic Carbon by combustion							**SM5310B_TOC_W**
Organic Carbon, Total	3100		200	mg/L	20	01/22/2015 15:23	80828

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Client: Innovative Engineering Solutions, Inc.
Client Sample ID: MW-267M-20150114 **Project:** Raytheon - Wayland
Lab ID: P0034-08 **Collection Date:** 01/14/15 10:40

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
RSK175 -- Dissolved Gases by GC-FID							**RSK175**
Methane	57000		60	µg/L	100	01/21/2015 14:20	80816
Ethane	ND		120	µg/L	100	01/21/2015 14:20	80816
Ethene	ND		150	µg/L	100	01/21/2015 14:20	80816
SW846 6010C -- Metals by ICP							**SW6010_W**
Iron	230000		200	ug/L	1	01/21/2015 9:57	80805
SM 4500B-C NH3 -- Nitrogen (Ammonia)							**SM4500_NH3_W**
Ammonia-N	0.630		0.200	mg/l	1	01/20/2015 17:29	SUBBED
EPA 300.0 -- Anions by Ion Chromotography (LOW)							**E300IC_W**
Chloride	28		2.0	mg/L	1	01/15/2015 14:07	80754
Nitrogen, Nitrate (As N)	ND		0.13	mg/L	1	01/15/2015 14:07	80754
ortho-Phosphate (As P)	0.13	J	0.50	mg/L	1	01/15/2015 14:07	80754
Sulfate	0.20	BJ	5.0	mg/L	1	01/15/2015 14:07	80754
SM 2320B -- Alkalinity (Total)							**SM2320_W**
Alkalinity, Total (As CaCO3)	550		100	mg/L CaCO3	5	01/21/2015 13:27	80835
SM 4500 H+ B -- pH VALUE							**SM4500_H+**
pH	6.8		1.0	S.U.	1	01/15/2015 14:04	R86861
SM 5310B TOC -- Total Organic Carbon by combustion							**SM5310B_TOC_W**
Organic Carbon, Total	ND		10	mg/L	1	01/21/2015 19:46	80828

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Client: Innovative Engineering Solutions, Inc.
Client Sample ID: MW-268M-20150114 **Project:** Raytheon - Wayland
Lab ID: P0034-09 **Collection Date:** 01/14/15 8:30

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
RSK175 -- Dissolved Gases by GC-FID							**RSK175**
Methane	56000		61	µg/L	100	01/21/2015 14:28	80816
Ethane	ND		130	µg/L	100	01/21/2015 14:28	80816
Ethene	ND		160	µg/L	100	01/21/2015 14:28	80816
SW846 6010C -- Metals by ICP							**SW6010_W**
Iron	50000		200	ug/L	1	01/21/2015 10:01	80805
SM 4500B-C NH3 -- Nitrogen (Ammonia)							**SM4500_NH3_W**
Ammonia-N	ND	U	0.200	mg/l	1	01/20/2015 17:29	SUBBED
EPA 300.0 -- Anions by Ion Chromotography (LOW)							**E300IC_W**
Chloride	25		2.0	mg/L	1	01/15/2015 14:18	80754
Nitrogen, Nitrate (As N)	ND		0.13	mg/L	1	01/15/2015 14:18	80754
ortho-Phosphate (As P)	ND		0.50	mg/L	1	01/15/2015 14:18	80754
Sulfate	0.73	BJ	5.0	mg/L	1	01/15/2015 14:18	80754
SM 2320B -- Alkalinity (Total)							**SM2320_W**
Alkalinity, Total (As CaCO3)	260		20	mg/L CaCO3	1	01/21/2015 13:32	80835
SM 4500 H+ B -- pH VALUE							**SM4500_H+**
pH	6.5		1.0	S.U.	1	01/15/2015 14:06	R86861
SM 5310B TOC -- Total Organic Carbon by combustion							**SM5310B_TOC_W**
Organic Carbon, Total	310		10	mg/L	1	01/21/2015 20:05	80828

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Client: Innovative Engineering Solutions, Inc.
Client Sample ID: MW-560-20150114 **Project:** Raytheon - Wayland
Lab ID: P0034-10 **Collection Date:** 01/14/15 11:40

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
RSK175 -- Dissolved Gases by GC-FID							**RSK175**
Methane	59000		60	µg/L	100	01/21/2015 14:37	80816
Ethane	ND		120	µg/L	100	01/21/2015 14:37	80816
Ethene	ND		150	µg/L	100	01/21/2015 14:37	80816
SW846 6010C -- Metals by ICP							**SW6010_W**
Iron	190000		200	ug/L	1	01/21/2015 10:05	80805
SM 4500B-C NH3 -- Nitrogen (Ammonia)							**SM4500_NH3_W**
Ammonia-N	0.210		0.200	mg/l	1	01/20/2015 17:29	SUBBED
EPA 300.0 -- Anions by Ion Chromotography (LOW)							**E300IC_W**
Chloride	23		2.0	mg/L	1	01/15/2015 14:30	80754
Nitrogen, Nitrate (As N)	ND		0.13	mg/L	1	01/15/2015 14:30	80754
ortho-Phosphate (As P)	0.12	J	0.50	mg/L	1	01/15/2015 14:30	80754
Sulfate	0.16	BJ	5.0	mg/L	1	01/15/2015 14:30	80754
SM 2320B -- Alkalinity (Total)							**SM2320_W**
Alkalinity, Total (As CaCO3)	1200		100	mg/L CaCO3	5	01/21/2015 13:38	80835
SM 4500 H+ B -- pH VALUE							**SM4500_H+**
pH	6.8		1.0	S.U.	1	01/15/2015 14:08	R86861
SM 5310B TOC -- Total Organic Carbon by combustion							**SM5310B_TOC_W**
Organic Carbon, Total	220		10	mg/L	1	01/21/2015 21:22	80828

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Client: Innovative Engineering Solutions, Inc.
Client Sample ID: MW-561-20150114
Lab ID: P0034-11
Project: Raytheon - Wayland
Collection Date: 01/14/15 8:25

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
RSK175 -- Dissolved Gases by GC-FID							**RSK175**
Methane	52000		61	µg/L	100	01/22/2015 10:02	80843
Ethane	ND		130	µg/L	100	01/22/2015 10:02	80843
Ethene	ND		160	µg/L	100	01/22/2015 10:02	80843
SW846 6010C -- Metals by ICP							**SW6010_W**
Iron	65000		200	ug/L	1	01/21/2015 10:08	80805
SM 4500B-C NH3 -- Nitrogen (Ammonia)							**SM4500_NH3_W**
Ammonia-N	0.280		0.200	mg/l	1	01/20/2015 17:29	SUBBED
EPA 300.0 -- Anions by Ion Chromotography (LOW)							**E300IC_W**
Chloride	22		2.0	mg/L	1	01/15/2015 14:42	80754
Nitrogen, Nitrate (As N)	ND		0.13	mg/L	1	01/15/2015 14:42	80754
ortho-Phosphate (As P)	ND		0.50	mg/L	1	01/15/2015 14:42	80754
Sulfate	0.37	BJ	5.0	mg/L	1	01/15/2015 14:42	80754
SM 2320B -- Alkalinity (Total)							**SM2320_W**
Alkalinity, Total (As CaCO3)	340		20	mg/L CaCO3	1	01/21/2015 13:43	80835
SM 4500 H+ B -- pH VALUE							**SM4500_H+**
pH	5.7		1.0	S.U.	1	01/15/2015 14:11	R86861
SM 5310B TOC -- Total Organic Carbon by combustion							**SM5310B_TOC_W**
Organic Carbon, Total	350		10	mg/L	1	01/21/2015 21:41	80828

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Client: Innovative Engineering Solutions, Inc.
Client Sample ID: MW-562-20150114 **Project:** Raytheon - Wayland
Lab ID: P0034-12 **Collection Date:** 01/14/15 12:35

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
RSK175 -- Dissolved Gases by GC-FID							**RSK175**
Methane	47000		60	µg/L	100	01/22/2015 10:18	80843
Ethane	ND		120	µg/L	100	01/22/2015 10:18	80843
Ethene	ND		150	µg/L	100	01/22/2015 10:18	80843
SW846 6010C -- Metals by ICP							**SW6010_W**
Iron	450000		200	ug/L	1	01/21/2015 10:12	80805
SM 4500B-C NH3 -- Nitrogen (Ammonia)							**SM4500_NH3_W**
Ammonia-N	0.420		0.200	mg/l	1	01/20/2015 17:29	SUBBED
EPA 300.0 -- Anions by Ion Chromotography (LOW)							**E300IC_W**
Chloride	30		2.0	mg/L	1	01/15/2015 15:17	80754
Nitrogen, Nitrate (As N)	0.087	J	0.13	mg/L	1	01/15/2015 15:17	80754
ortho-Phosphate (As P)	0.52		0.50	mg/L	1	01/16/2015 12:31	80754
Sulfate	0.15	BJ	5.0	mg/L	1	01/15/2015 15:17	80754
SM 2320B -- Alkalinity (Total)							**SM2320_W**
Alkalinity, Total (As CaCO3)	720		20	mg/L CaCO3	1	01/21/2015 13:49	80835
SM 4500 H+ B -- pH VALUE							**SM4500_H+**
pH	5.3		1.0	S.U.	1	01/15/2015 14:13	R86861
SM 5310B TOC -- Total Organic Carbon by combustion							**SM5310B_TOC_W**
Organic Carbon, Total	3500		200	mg/L	20	01/22/2015 15:49	80828

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Client: Innovative Engineering Solutions, Inc.
Client Sample ID: MW-563-20150114 **Project:** Raytheon - Wayland
Lab ID: P0034-13 **Collection Date:** 01/14/15 9:50

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
RSK175 -- Dissolved Gases by GC-FID							**RSK175**
Methane	45000		61	µg/L	100	01/22/2015 10:38	80843
Ethane	ND		130	µg/L	100	01/22/2015 10:38	80843
Ethene	ND		160	µg/L	100	01/22/2015 10:38	80843
SW846 6010C -- Metals by ICP							**SW6010_W**
Iron	180000		200	ug/L	1	01/21/2015 10:16	80805
SM 4500B-C NH3 -- Nitrogen (Ammonia)							**SM4500_NH3_W**
Ammonia-N	0.140		0.200	mg/l	1	01/20/2015 17:29	SUBBED
EPA 300.0 -- Anions by Ion Chromotography (LOW)							**E300IC_W**
Chloride	35		2.0	mg/L	1	01/15/2015 15:29	80754
Nitrogen, Nitrate (As N)	ND		0.13	mg/L	1	01/15/2015 15:29	80754
ortho-Phosphate (As P)	ND		0.50	mg/L	1	01/16/2015 12:43	80754
Sulfate	0.15	BJ	5.0	mg/L	1	01/15/2015 15:29	80754
SM 2320B -- Alkalinity (Total)							**SM2320_W**
Alkalinity, Total (As CaCO3)	220		20	mg/L CaCO3	1	01/21/2015 13:54	80835
SM 4500 H+ B -- pH VALUE							**SM4500_H+**
pH	6.1		1.0	S.U.	1	01/15/2015 14:15	R86861
SM 5310B TOC -- Total Organic Carbon by combustion							**SM5310B_TOC_W**
Organic Carbon, Total	500		100	mg/L	10	01/22/2015 16:16	80828

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

CLIENT: Innovative Engineering Solutions, Inc.
Work Order: P0034
Project: Raytheon - Wayland

ANALYTICAL QC SUMMARY REPORT

E300IC_W

EPA 300.0 -- Anions by Ion Chromotography (LOW)

Sample ID: **MB-80742** SampType: **MBLK** TestCode: **E300IC_W** Prep Date: **01/14/15 13:00** Run ID: **IC1_150114A**
Client ID: **MB-80742** Batch ID: **80742** Units: **mg/L** Analysis Date: **01/14/15 13:51** SeqNo: **2218228**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	ND	0.28	2.0									
Nitrogen, Nitrate (As N)	ND	0.083	0.13									
Sulfate	0.2239	0.15	5.0									J

Sample ID: **MB-80742** SampType: **MBLK** TestCode: **E300IC_W** Prep Date: **01/14/15 13:00** Run ID: **IC1_150115B**
Client ID: **MB-80742** Batch ID: **80742** Units: **mg/L** Analysis Date: **01/15/15 10:51** SeqNo: **2218620**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
ortho-Phosphate (As P)	0.1377	0.10	0.50									J

Sample ID: **MB-80754** SampType: **MBLK** TestCode: **E300IC_W** Prep Date: **01/15/15 13:13** Run ID: **IC1_150115B**
Client ID: **MB-80754** Batch ID: **80754** Units: **mg/L** Analysis Date: **01/15/15 13:20** SeqNo: **2218614**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	ND	0.28	2.0									
Nitrogen, Nitrate (As N)	ND	0.083	0.13									
ortho-Phosphate (As P)	ND	0.10	0.50									
Sulfate	0.2687	0.15	5.0									J

Sample ID: **LCS-80742** SampType: **LCS** TestCode: **E300IC_W** Prep Date: **01/14/15 13:00** Run ID: **IC1_150114A**
Client ID: **LCS-80742** Batch ID: **80742** Units: **mg/L** Analysis Date: **01/14/15 14:03** SeqNo: **2218229**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	15.47	0.28	2.0	16.00	0	96.7	90	110	0			
Nitrogen, Nitrate (As N)	0.9018	0.083	0.13	1.000	0	90.2	90	110	0			
Sulfate	38.38	0.15	5.0	40.00	0	95.9	90	110	0			B

Sample ID: **LCS-80742** SampType: **LCS** TestCode: **E300IC_W** Prep Date: **01/14/15 13:00** Run ID: **IC1_150115B**
Client ID: **LCS-80742** Batch ID: **80742** Units: **mg/L** Analysis Date: **01/15/15 11:02** SeqNo: **2218621**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
ortho-Phosphate (As P)	4.104	0.10	0.50	4.000	0	103	90	110	0			B

Qualifiers: ND - Not Detected at the MDL; S - Recovery outside accepted recovery limits; MDL - Method Detection Limit; B - Analyte detected in the associated Method Blank
m15.01.26.1201 J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

CLIENT: Innovative Engineering Solutions, Inc.
Work Order: P0034
Project: Raytheon - Wayland

ANALYTICAL QC SUMMARY REPORT

E300IC_W

EPA 300.0 -- Anions by Ion Chromotography (LOW)

Sample ID: **LCS-80754** SampType: **LCS** TestCode: **E300IC_W** Prep Date: **01/15/15 13:13** Run ID: **IC1_150115B**
Client ID: **LCS-80754** Batch ID: **80754** Units: **mg/L** Analysis Date: **01/15/15 13:31** SeqNo: **2218615**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	15.13	0.28	2.0	16.00	0	94.6	90	110	0			
Nitrogen, Nitrate (As N)	0.9006	0.083	0.13	1.000	0	90.1	90	110	0			
ortho-Phosphate (As P)	4.110	0.10	0.50	4.000	0	103	90	110	0			
Sulfate	37.79	0.15	5.0	40.00	0	94.5	90	110	0			B

Sample ID: **P0034-01CMS** SampType: **MS** TestCode: **E300IC_W** Prep Date: **01/14/15 13:00** Run ID: **IC1_150114A**
Client ID: **REW-6-20150113** Batch ID: **80742** Units: **mg/L** Analysis Date: **01/14/15 14:26** SeqNo: **2218231**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	53.40	0.28	2.0	16.00	37.83	97.3	80	120	0			
Nitrogen, Nitrate (As N)	0.9866	0.083	0.13	1.000	0	98.7	80	120	0			
Sulfate	51.54	0.15	5.0	40.00	9.710	105	80	120	0			B

Sample ID: **P0034-01CMS** SampType: **MS** TestCode: **E300IC_W** Prep Date: **01/14/15 13:00** Run ID: **IC1_150115B**
Client ID: **REW-6-20150113** Batch ID: **80742** Units: **mg/L** Analysis Date: **01/15/15 11:26** SeqNo: **2218623**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
ortho-Phosphate (As P)	ND	0.10	0.50	4.000	0	0	80	120	0			S

Sample ID: **P0034-13CMS** SampType: **MS** TestCode: **E300IC_W** Prep Date: **01/15/15 13:13** Run ID: **IC1_150115B**
Client ID: **MW-563-20150114** Batch ID: **80754** Units: **mg/L** Analysis Date: **01/15/15 15:41** SeqNo: **2218639**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	49.82	0.28	2.0	16.00	35.40	90.2	80	120	0			
Nitrogen, Nitrate (As N)	0.8759	0.083	0.13	1.000	0	87.6	80	120	0			
Sulfate	26.85	0.15	5.0	40.00	0.1512	66.7	80	120	0			BS

Sample ID: **P0034-13CMS** SampType: **MS** TestCode: **E300IC_W** Prep Date: **01/15/15 13:13** Run ID: **IC1_150116A**
Client ID: **MW-563-20150114** Batch ID: **80754** Units: **mg/L** Analysis Date: **01/16/15 12:55** SeqNo: **2218653**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
ortho-Phosphate (As P)	ND	0.10	0.50	4.000	0	0	80	120	0			S

Qualifiers: ND - Not Detected at the MDL; S - Recovery outside accepted recovery limits; MDL - Method Detection Limit; B - Analyte detected in the associated Method Blank
J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

CLIENT: Innovative Engineering Solutions, Inc.
Work Order: P0034
Project: Raytheon - Wayland

ANALYTICAL QC SUMMARY REPORT

E300IC_W

EPA 300.0 -- Anions by Ion Chromotography (LOW)

Sample ID: **P0034-01CMSD** SampType: **MSD** TestCode: **E300IC_W** Prep Date: **01/14/15 13:00** Run ID: **IC1_150114A**
Client ID: **REW-6-20150113** Batch ID: **80742** Units: **mg/L** Analysis Date: **01/14/15 14:38** SeqNo: **2218232**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	52.30	0.28	2.0	16.00	37.83	90.4	80	120	53.40	2.09	20	
Nitrogen, Nitrate (As N)	1.002	0.083	0.13	1.000	0	100	80	120	0.9866	1.59	20	
Sulfate	51.67	0.15	5.0	40.00	9.710	105	80	120	51.54	0.238	20	B

Sample ID: **P0034-01CMSD** SampType: **MSD** TestCode: **E300IC_W** Prep Date: **01/14/15 13:00** Run ID: **IC1_150115B**
Client ID: **REW-6-20150113** Batch ID: **80742** Units: **mg/L** Analysis Date: **01/15/15 11:38** SeqNo: **2218624**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
ortho-Phosphate (As P)	ND	0.10	0.50	4.000	0	0	80	120	0	0	20	S

Sample ID: **P0034-13CMSD** SampType: **MSD** TestCode: **E300IC_W** Prep Date: **01/15/15 13:13** Run ID: **IC1_150115B**
Client ID: **MW-563-20150114** Batch ID: **80754** Units: **mg/L** Analysis Date: **01/15/15 15:52** SeqNo: **2218640**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	52.54	0.28	2.0	16.00	35.40	107	80	120	49.82	5.31	20	
Nitrogen, Nitrate (As N)	0.9547	0.083	0.13	1.000	0	95.5	80	120	0.8759	8.61	20	
Sulfate	32.31	0.15	5.0	40.00	0.1512	80.4	80	120	26.85	18.5	20	B

Sample ID: **P0034-13CMSD** SampType: **MSD** TestCode: **E300IC_W** Prep Date: **01/15/15 13:13** Run ID: **IC1_150116A**
Client ID: **MW-563-20150114** Batch ID: **80754** Units: **mg/L** Analysis Date: **01/16/15 13:07** SeqNo: **2218645**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
ortho-Phosphate (As P)	ND	0.10	0.50	4.000	0	0	80	120	0	0	20	S

Qualifiers: ND - Not Detected at the MDL; S - Recovery outside accepted recovery limits; MDL - Method Detection Limit; B - Analyte detected in the associated Method Blank; J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

CLIENT: Innovative Engineering Solutions, Inc.
Work Order: P0034
Project: Raytheon - Wayland

ANALYTICAL QC SUMMARY REPORT

RSK175

RSK175 -- Dissolved Gases by GC-FID

Sample ID: **MB-80816** SampType: **MBLK** TestCode: **RSK175** Prep Date: **01/21/15 9:28** Run ID: **V7_150121A**
Client ID: **MB-80816** Batch ID: **80816** Units: **µg/L** Analysis Date: **01/21/15 10:49** SeqNo: **2222151**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methane	ND	0.36	0.60									
Ethane	ND	0.51	1.2									
Ethene	ND	0.71	1.5									

Sample ID: **MB-80843** SampType: **MBLK** TestCode: **RSK175** Prep Date: **01/22/15 8:56** Run ID: **V7_150122A**
Client ID: **MB-80843** Batch ID: **80843** Units: **µg/L** Analysis Date: **01/22/15 9:41** SeqNo: **2222183**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methane	ND	0.35	0.58									
Ethane	ND	0.50	1.2									
Ethene	ND	0.69	1.5									

Sample ID: **LCS-80816** SampType: **LCS** TestCode: **RSK175** Prep Date: **01/21/15 9:28** Run ID: **V7_150121A**
Client ID: **LCS-80816** Batch ID: **80816** Units: **µg/L** Analysis Date: **01/21/15 10:22** SeqNo: **2222148**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methane	34.90	0.36	0.60	46.29	0	75.4	75	125	0			
Ethane	74.58	0.51	1.2	87.43	0	85.3	75	125	0			
Ethene	93.39	0.71	1.5	81.26	0	115	75	125	0			

Sample ID: **LCS-80843** SampType: **LCS** TestCode: **RSK175** Prep Date: **01/22/15 8:56** Run ID: **V7_150122A**
Client ID: **LCS-80843** Batch ID: **80843** Units: **µg/L** Analysis Date: **01/22/15 9:11** SeqNo: **2222181**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methane	40.90	0.35	0.58	45.00	0	90.9	75	125	0			
Ethane	84.98	0.50	1.2	85.00	0	100	75	125	0			
Ethene	100.7	0.69	1.5	79.00	0	127	75	125	0			S

Sample ID: **LCSD-80816** SampType: **LCSD** TestCode: **RSK175** Prep Date: **01/21/15 9:28** Run ID: **V7_150121A**
Client ID: **LCSD-80816** Batch ID: **80816** Units: **µg/L** Analysis Date: **01/21/15 10:34** SeqNo: **2222150**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methane	34.96	0.36	0.60	46.29	0	75.5	75	125	34.90	0.158	30	
Ethane	75.39	0.51	1.2	87.43	0	86.2	75	125	74.58	1.08	30	
Ethene	92.64	0.71	1.5	81.26	0	114	75	125	93.39	0.811	30	

Qualifiers: ND - Not Detected at the MDL; S - Recovery outside accepted recovery limits; MDL - Method Detection Limit; B - Analyte detected in the associated Method Blank; J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

CLIENT: Innovative Engineering Solutions, Inc.
Work Order: P0034
Project: Raytheon - Wayland

ANALYTICAL QC SUMMARY REPORT

RSK175

RSK175 -- Dissolved Gases by GC-FID

Sample ID: **LCSD-80843**	SampType: **LCSD**	TestCode: **RSK175**	Prep Date: **01/22/15 8:56**	Run ID: **V7_150122A**			
Client ID: **LCSD-80843**	Batch ID: **80843**	Units: **µg/L**	Analysis Date: **01/22/15 9:27**	SeqNo: **2222182**			

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methane	37.41	0.36	0.60	46.29	0	80.8	75	125	40.90	8.91	30	
Ethane	79.02	0.51	1.2	87.43	0	90.4	75	125	84.98	7.27	30	
Ethene	94.41	0.71	1.5	81.26	0	116	75	125	100.7	6.45	30	

Qualifiers:
ND - Not Detected at the MDL
J - Analyte detected below quanititation limits
S - Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
MDL - Method Detection Limit
RL - Reporting Limit
B - Analyte detected in the associated Method Blank

CLIENT: Innovative Engineering Solutions, Inc.
Work Order: P0034
Project: Raytheon - Wayland

ANALYTICAL QC SUMMARY REPORT

SM2320_W
SM 2320B -- Alkalinity (Total)

Sample ID: **MB-80750**	SampType: **MBLK**	TestCode: **SM2320_W**	Prep Date: **01/15/15 10:00**	Run ID: **MANUAL_150115A**
Client ID: **MB-80750**	Batch ID: **80750**	Units: **mg/L CaCO3**	Analysis Date: **01/15/15 10:10**	SeqNo: **2218417**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total (As CaCO3)	ND	20	20									

Sample ID: **MB-80835**	SampType: **MBLK**	TestCode: **SM2320_W**	Prep Date: **01/21/15 13:00**	Run ID: **MANUAL_150121A**
Client ID: **MB-80835**	Batch ID: **80835**	Units: **mg/L CaCO3**	Analysis Date: **01/21/15 13:00**	SeqNo: **2221434**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total (As CaCO3)	ND	20	20									

Sample ID: **LCS-80750**	SampType: **LCS**	TestCode: **SM2320_W**	Prep Date: **01/15/15 10:00**	Run ID: **MANUAL_150115A**
Client ID: **LCS-80750**	Batch ID: **80750**	Units: **mg/L CaCO3**	Analysis Date: **01/15/15 10:16**	SeqNo: **2218418**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total (As CaCO3)	101.0	20	20	100.0	0	101	80	120	0			

Sample ID: **LCS-80835**	SampType: **LCS**	TestCode: **SM2320_W**	Prep Date: **01/21/15 13:00**	Run ID: **MANUAL_150121A**
Client ID: **LCS-80835**	Batch ID: **80835**	Units: **mg/L CaCO3**	Analysis Date: **01/21/15 13:05**	SeqNo: **2221435**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total (As CaCO3)	101.0	20	20	100.0	0	101	80	120	0			

Sample ID: **LCSD-80750**	SampType: **LCSD**	TestCode: **SM2320_W**	Prep Date: **01/15/15 10:00**	Run ID: **MANUAL_150115A**
Client ID: **LCSD-80750**	Batch ID: **80750**	Units: **mg/L CaCO3**	Analysis Date: **01/15/15 10:22**	SeqNo: **2218419**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total (As CaCO3)	101.0	20	20	100.0	0	101	80	120	101.0	0	20	

Sample ID: **LCSD-80835**	SampType: **LCSD**	TestCode: **SM2320_W**	Prep Date: **01/21/15 13:00**	Run ID: **MANUAL_150121A**
Client ID: **LCSD-80835**	Batch ID: **80835**	Units: **mg/L CaCO3**	Analysis Date: **01/21/15 13:10**	SeqNo: **2221436**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total (As CaCO3)	101.0	20	20	100.0	0	101	80	120	101.0	0	20	

Qualifiers: ND - Not Detected at the MDL; S - Recovery outside accepted recovery limits; MDL - Method Detection Limit; B - Analyte detected in the associated Method Blank; J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

CLIENT: Innovative Engineering Solutions, Inc.
Work Order: P0034
Project: Raytheon - Wayland

ANALYTICAL QC SUMMARY REPORT

SM4500_H+
SM 4500 H+ B -- pH VALUE

Sample ID: **P0034-13CDUP** SampType: **DUP** TestCode: **SM4500_H+** Prep Date: **01/15/15 14:00** Run ID: **WC03_150115A**
Client ID: **MW-563-20150114** Batch ID: **R86861** Units: **S.U.** Analysis Date: **01/15/15 14:17** SeqNo: **2218408**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
pH	6.140	1.0	1.0	0	0	0	0	0	6.130	0.163	20	

Qualifiers: ND - Not Detected at the MDL; S - Recovery outside accepted recovery limits; MDL - Method Detection Limit; B - Analyte detected in the associated Method Blank
J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

CLIENT: Innovative Engineering Solutions, Inc.
Work Order: P0034
Project: Raytheon - Wayland

ANALYTICAL QC SUMMARY REPORT

SM4500_NH3_W
SM 4500B-C NH3 -- Nitrogen (Ammonia)

Sample ID: **1501258-BLK1**	SampType: **MBLK**	TestCode: **SM4500_NH3_W**			Prep Date: **01/20/15 10:00**			Run ID: **SUB_150123G**				
Client ID: **1501258-BLK1**	Batch ID: **SAI-1501258**	Units: **mg/l**			Analysis Date: **01/20/15 17:29**			SeqNo: **2222303**				
Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ammonia-N	U	0.118	0.200	0		0	0	0				U

Sample ID: **1501258-BS1**	SampType: **LCS**	TestCode: **SM4500_NH3_W**			Prep Date: **01/20/15 10:00**			Run ID: **SUB_150123G**				
Client ID: **1501258-BS1**	Batch ID: **SAI-1501258**	Units: **mg/l**			Analysis Date: **01/20/15 17:29**			SeqNo: **2222304**				
Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ammonia-N	5.320	0.118	0.200	5.000	0	106	90	110				

Sample ID: **1501258-SRM1**	SampType: **LCS**	TestCode: **SM4500_NH3_W**			Prep Date: **01/20/15 10:00**			Run ID: **SUB_150123G**				
Client ID: **1501258-SRM1**	Batch ID: **SAI-1501258**	Units: **mg/l**			Analysis Date: **01/20/15 17:29**			SeqNo: **2222305**				
Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ammonia-N	1.750	0.118	0.200	1.920	0	91.0	84	116				

Qualifiers:
ND - Not Detected at the MDL
J - Analyte detected below quanititation limits
S - Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
MDL - Method Detection Limit
RL - Reporting Limit
B - Analyte detected in the associated Method Blank

CLIENT: Innovative Engineering Solutions, Inc.
Work Order: P0034
Project: Raytheon - Wayland

ANALYTICAL QC SUMMARY REPORT

SM5310B_TOC_W

SM 5310B TOC -- Total Organic Carbon by combustion

Sample ID: **MB-80828**	SampType: **MBLK**	TestCode: **SM5310B_TOC_W**			Prep Date: **01/21/15 10:46**			Run ID: **TOC1_150121A**				
Client ID: **MB-80828**	Batch ID: **80828**	Units: **mg/L**			Analysis Date: **01/21/15 11:17**			SeqNo: **2221661**				
Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Organic Carbon, Total	ND	2.0	10									

Sample ID: **LCS-80828**	SampType: **LCS**	TestCode: **SM5310B_TOC_W**			Prep Date: **01/21/15 10:46**			Run ID: **TOC1_150121A**				
Client ID: **LCS-80828**	Batch ID: **80828**	Units: **mg/L**			Analysis Date: **01/21/15 11:44**			SeqNo: **2221662**				
Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Organic Carbon, Total	50.53	2.0	10	60.00	0	84.2	80	120	0			

Sample ID: **LCSD-80628**	SampType: **LCSD**	TestCode: **SM5310B_TOC_W**			Prep Date:			Run ID: **TOC1_150122A**				
Client ID: **LCSD-80628**	Batch ID: **80828**	Units: **mg/L**			Analysis Date: **01/22/15 13:11**			SeqNo: **2221756**				
Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Organic Carbon, Total	52.76	2.0	10	60.00	0	87.9	80	120	50.53	4.3	20	

Qualifiers:
ND - Not Detected at the MDL
J - Analyte detected below quanititation limits
S - Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
MDL - Method Detection Limit
RL - Reporting Limit
B - Analyte detected in the associated Method Blank

CLIENT: Innovative Engineering Solutions, Inc.
Work Order: P0034
Project: Raytheon - Wayland

ANALYTICAL QC SUMMARY REPORT

SW6010_W
SW846 6010C -- Metals by ICP

Sample ID: **MB-80805**	SampType: **MBLK**	TestCode: **SW6010_W**			Prep Date: **01/20/15 10:00**			Run ID: **OPTIMA3_150121A**					
Client ID: **MB-80805**	Batch ID: **80805**	Units: **ug/L**			Analysis Date: **01/21/15 9:05**			SeqNo: **2220802**					
Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Iron	ND	31	200										

Sample ID: **LCS-80805**	SampType: **LCS**	TestCode: **SW6010_W**			Prep Date: **01/20/15 10:00**			Run ID: **OPTIMA3_150121A**					
Client ID: **LCS-80805**	Batch ID: **80805**	Units: **ug/L**			Analysis Date: **01/21/15 9:08**			SeqNo: **2220803**					
Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Iron	4669	31	200	4550	0	103	80	120	0				

Sample ID: **LCSD-80805**	SampType: **LCSD**	TestCode: **SW6010_W**			Prep Date: **01/20/15 10:00**			Run ID: **OPTIMA3_150121A**					
Client ID: **LCSD-80805**	Batch ID: **80805**	Units: **ug/L**			Analysis Date: **01/21/15 9:12**			SeqNo: **2220804**					
Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Iron	4818	31	200	4550	0	106	80	120	4669	3.14	20		

Qualifiers:
ND - Not Detected at the MDL
J - Analyte detected below quanititation limits
S - Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
MDL - Method Detection Limit
RL - Reporting Limit
B - Analyte detected in the associated Method Blank

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

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TestAmerica Job ID: 480-78021-1
Client Project/Site: IDS Wayland

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4/17/2015 1:57:34 PM

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LINKS

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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
F1	MS and/or MSD Recovery exceeds the control limits
*	RPD of the LCS and LCSD exceeds the control limits
F2	MS/MSD RPD exceeds control limits

GC/MS Semi VOA

Qualifier	Qualifier Description
X	Surrogate is outside 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
CFL	Contains Free Liquid
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: 480-78021-1

Laboratory: TestAmerica Buffalo

Narrative

Receipt

The samples were received on 4/9/2015 12:45 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 0.6º C and 1.1º C.

Except:

The container label for the following samples did not match the information listed on the Chain-of-Custody (COC): MW-264M-20150408 (480-78021-2), MW-265S-20150408 (480-78021-3), MW-265D-20150408 (480-78021-5), MW-266Ma-20150408 (480-78021-6), MW-266Mb-20150408 (480-78021-7), MW-267S-20150408 (480-78021-8), MW-267M-20150408 (480-78021-9), MW-268S-20150408 (480-78021-10), MW-268M-20150408 (480-78021-11), MW-268D-20150408 (480-78021-12), MW-269Ma-20150408 (480-78021-13), MW-551-20150408 (480-78021-14), MW-552-20150408 (480-78021-15), MW-553-20150408 (480-78021-16) and DUP-3-20150408 (480-78021-33). The container labels list IS ending in 08, while the COC lists is missing 08. The client was contacted, and the lab was instructed to add 08 to ID.

The container label for the following sample did not match the information listed on the Chain-of-Custody (COC): MW-267M-20150408 (480-78021-9). The container labels list ID ending with 08 while the COC lists ID ending with 07. The client was contacted, and the lab was instructed to end ID with 08.

GC/MS VOA

Method 8260C: 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-Amyl Methyl Ether and Tetrahydrofuran.

Method 8260C: The following samples was diluted to bring the concentration of target analytes within the calibration range: MW-265M-20150407 (480-78021-4), MW-267S-20150408 (480-78021-8), MW-268M-20150408 (480-78021-11), MW-552-20150408 (480-78021-15), MW-561-20150407 (480-78021-18), REW-11-20150407 (480-78021-29), REW-12-20150407 (480-78021-30), MW-261S-20150407 (480-78021-1), MW-268S-20150408 (480-78021-10), MW-551-20150408 (480-78021-14), REW-6-20150407 (480-78021-24), REW-7-20150407 (480-78021-25), DUP-1-20150407 (480-78021-31), DUP-2-20150407 (480-78021-32), (480-78021-B-31 MS), (480-78021-B-31 MSD), REW-11-20150407 (480-78021-29) and REW-12-20150407 (480-78021-30). Elevated reporting limits (RLs) are provided.

Method 8260C: The continuing calibration verification (CCV) for Acetone, Dichlorodifluoromethane, and 1,4Dioxane associated with batch 235341 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 batch 235341 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 continuing calibration verification (CCV) for Acetone and 1,2 Dibromo-3-Chloropropane associated with batch 235598 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 Acetone associated with batch 235529 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.MW-261S-20150407 (480-78021-1), MW-264M-20150408 (480-78021-2), MW-265S-20150408 (480-78021-3), MW-268S-20150408 (480-78021-10), MW-551-20150408 (480-78021-14), MW-553-20150408 (480-78021-16), MW-560-20150407 (480-78021-17), MW-562-20150407 (480-78021-19), MW-563-20150407 (480-78021-20), REW-1-20150407 (480-78021-21), REW-4-20150407 (480-78021-22), REW-5-20150407 (480-78021-23), REW-6-20150407 (480-78021-24), REW-7-20150407 (480-78021-25), REW-8-20150407 (480-78021-26) and REW-9-20150407 (480-78021-27)

Method 8260C: The laboratory control sample (LCS) and the laboratory control sample duplicate (LCSD) for batch 235529 exceeded

Job ID: 480-78021-1 (Continued)

Laboratory: TestAmerica Buffalo (Continued)

control limits for the following analyte: 2-Butanone and Tetrahydrofuran. Unlike the calibration standards, this is due to the coelution with Ethyl Acetate and Methacrylonitrile, respectively, 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.MW-261S-20150407 (480-78021-1), MW-264M-20150408 (480-78021-2), MW-265S-20150408 (480-78021-3), MW-268S-20150408 (480-78021-10), MW-551-20150408 (480-78021-14), MW-553-20150408 (480-78021-16), MW-560-20150407 (480-78021-17), MW-562-20150407 (480-78021-19), MW-563-20150407 (480-78021-20), REW-1-20150407 (480-78021-21), REW-4-20150407 (480-78021-22), REW-5-20150407 (480-78021-23), REW-6-20150407 (480-78021-24), REW-7-20150407 (480-78021-25), REW-8-20150407 (480-78021-26) and REW-9-20150407 (480-78021-27)

Method 8260C: The laboratory control sample (LCS) for batch 235529 exceeded control limits for the following analyte: 1,4-Dioxane. MCP protocol allows for 10% of the target compounds to be outside of the limits provided the recoveries are over 10%.MW-261S-20150407 (480-78021-1), MW-264M-20150408 (480-78021-2), MW-265S-20150408 (480-78021-3), MW-268S-20150408 (480-78021-10), MW-551-20150408 (480-78021-14), MW-553-20150408 (480-78021-16), MW-560-20150407 (480-78021-17), MW-562-20150407 (480-78021-19), MW-563-20150407 (480-78021-20), REW-1-20150407 (480-78021-21), REW-4-20150407 (480-78021-22), REW-5-20150407 (480-78021-23), REW-6-20150407 (480-78021-24), REW-7-20150407 (480-78021-25), REW-8-20150407 (480-78021-26) and REW-9-20150407 (480-78021-27)

Method 8260C: The laboratory control sample (LCS) and the laboratory control sample duplicate (LCSD) for batch 235783 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 235943 exceeded control limits for the following analyte: 1,4 Dioxane. MCP protocol allows for 10% of the target compounds to be outside of the limits provided the recoveries are over 10%.MW-552-20150408 (480-78021-15), MW-561-20150407 (480-78021-18), REW-10-20150407 (480-78021-28), REW-11-20150407 (480-78021-29), REW-12-20150407 (480-78021-30), DUP-3-20150408 (480-78021-33) and TRIP BLANK (480-78021-34)

Method 8260C: The laboratory control sample (LCS) and the laboratory control sample duplicate (LCSD) for batch 235943 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.MW-552-20150408 (480-78021-15), MW-561-20150407 (480-78021-18), REW-10-20150407 (480-78021-28), REW-11-20150407 (480-78021-29), REW-12-20150407 (480-78021-30), DUP-3-20150408 (480-78021-33) and TRIP BLANK (480-78021-34)

Method 8260C: The laboratory control sample (LCS) and the laboratory control sample duplicate (LCSD) for batch 236002 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.DUP-3-20150408 (480-78021-33)

Method 8260C: The laboratory control sample (LCS) and the laboratory control sample duplicate (LCSD) for batch 236002 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%.DUP-3-20150408 (480-78021-33)

Method 8260C: The %RPD of the laboratory control standard duplicate (LCSD) for preparation batch 235943 recovered outside control limits for the following analyte: 1,4-Dioxane.

Method 8260C: The laboratory control sample (LCS) and / or the laboratory control sample duplicate (LCSD) for batch 236494 exceeded control limits for the following analyte: 2-Butanone and Tetrahydrofuran. Unlike the calibration standards, this is due to the coelution with Ethyl Acetate and Methacrylonitrile 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.DUP-3-20150408 (480-78021-33)

Job ID: 480-78021-1 (Continued)

Laboratory: TestAmerica Buffalo (Continued)

Method 8260C: The continuing calibration verification (CCV) for Acetone and Dichlorodifluoromethane associated with batch 236494 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.DUP-3-20150408 (480-78021-33)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA

Method 522 MOD: Surrogate recovery for the following sample was outside control limits: Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

MassDEP Analytical Protocol Certification Form

Laboratory Name: **TestAmerica Buffalo** Project #: **480-78021**

Project Location: **Wayland** RTN:

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

48078021-1[1-34]

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 ☐	9012 / 9014/ 4500CN 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: Becky Mason Position: Project Manager

Printed Name: Becky Mason Date: 4/17/15 13:56

This form has been electronically signed and approved

Detection Summary

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

TestAmerica Job ID: 480-78021-1

Client Sample ID: MW-261S-20150407 — Lab Sample ID: 480-78021-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	83	*	10		ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	15		1.0		ug/L	1		8260C	Total/NA
Ethylbenzene	7.2		1.0		ug/L	1		8260C	Total/NA
m-Xylene & p-Xylene	25		2.0		ug/L	1		8260C	Total/NA
o-Xylene	5.1		1.0		ug/L	1		8260C	Total/NA
Tetrahydrofuran	16		10		ug/L	1		8260C	Total/NA
Toluene	31		1.0		ug/L	1		8260C	Total/NA
Vinyl chloride	12		1.0		ug/L	1		8260C	Total/NA
Acetone - DL	7200	F1	1300		ug/L	25		8260C	Total/NA
1,4-Dioxane	3.4		0.20		ug/L	1		522 MOD	Total/NA

Client Sample ID: MW-264M-20150408 — Lab Sample ID: 480-78021-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	7.5		1.0		ug/L	1		8260C	Total/NA
Trichloroethene	11		1.0		ug/L	1		8260C	Total/NA

Client Sample ID: MW-265S-20150408 — Lab Sample ID: 480-78021-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	51	*	10		ug/L	1		8260C	Total/NA

Client Sample ID: MW-265M-20150407 — Lab Sample ID: 480-78021-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	300	*	50		ug/L	5		8260C	Total/NA
Acetone	1400		250		ug/L	5		8260C	Total/NA
cis-1,2-Dichloroethene	5.8		5.0		ug/L	5		8260C	Total/NA
m-Xylene & p-Xylene	13		10		ug/L	5		8260C	Total/NA
Toluene	11		5.0		ug/L	5		8260C	Total/NA
1,4-Dioxane	6.2		0.20		ug/L	1		522 MOD	Total/NA

Client Sample ID: MW-265D-20150408 — Lab Sample ID: 480-78021-5

No Detections.

Client Sample ID: MW-266Ma-20150408 — Lab Sample ID: 480-78021-6

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
Toluene	17		1.0		ug/L	1		8260C	Total/NA
Vinyl chloride	8.7		1.0		ug/L	1		8260C	Total/NA
1,4-Dioxane	0.48		0.20		ug/L	1		522 MOD	Total/NA

Client Sample ID: MW-266Mb-20150408 — Lab Sample ID: 480-78021-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	24	*	10		ug/L	1		8260C	Total/NA
Acetone	320		50		ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	26		1.0		ug/L	1		8260C	Total/NA
trans-1,2-Dichloroethene	2.3		1.0		ug/L	1		8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-266Mb-20150408 (Continued) — Lab Sample ID: 480-78021-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Trichloroethene	1.0		1.0		ug/L	1		8260C	Total/NA
Vinyl chloride	66		1.0		ug/L	1		8260C	Total/NA

Client Sample ID: MW-267S-20150408 — Lab Sample ID: 480-78021-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	200	*	50		ug/L	5		8260C	Total/NA
cis-1,2-Dichloroethene	350		5.0		ug/L	5		8260C	Total/NA
Toluene	190		5.0		ug/L	5		8260C	Total/NA
Vinyl chloride	27		5.0		ug/L	5		8260C	Total/NA
1,4-Dioxane	4.1		0.20		ug/L	1		522 MOD	Total/NA

Client Sample ID: MW-267M-20150408 — Lab Sample ID: 480-78021-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	160	*	10		ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	8.6		1.0		ug/L	1		8260C	Total/NA
m-Xylene & p-Xylene	2.2		2.0		ug/L	1		8260C	Total/NA
Toluene	29		1.0		ug/L	1		8260C	Total/NA
Vinyl chloride	7.4		1.0		ug/L	1		8260C	Total/NA
1,4-Dioxane	6.4		0.20		ug/L	1		522 MOD	Total/NA

Client Sample ID: MW-268S-20150408 — Lab Sample ID: 480-78021-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	1.7		1.0		ug/L	1		8260C	Total/NA
Benzene	1.0		1.0		ug/L	1		8260C	Total/NA
Vinyl chloride	9.5		1.0		ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene - DL	180		4.0		ug/L	4		8260C	Total/NA
Trichloroethene - DL	140		4.0		ug/L	4		8260C	Total/NA
1,4-Dioxane	13		0.20		ug/L	1		522 MOD	Total/NA

Client Sample ID: MW-268M-20150408 — Lab Sample ID: 480-78021-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	2500		40		ug/L	40		8260C	Total/NA
Trichloroethene	1500		40		ug/L	40		8260C	Total/NA
Vinyl chloride	190		40		ug/L	40		8260C	Total/NA
1,4-Dioxane	13		0.20		ug/L	1		522 MOD	Total/NA

Client Sample ID: MW-268D-20150408 — Lab Sample ID: 480-78021-12

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
Toluene	1.8		1.0		ug/L	1		8260C	Total/NA

Client Sample ID: MW-269Ma-20150408 — Lab Sample ID: 480-78021-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	3.6		1.0		ug/L	1		8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-269Ma-20150408 (Continued) — Lab Sample ID: 480-78021-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Trichloroethene	3.4		1.0		ug/L	1		8260C	Total/NA
1,4-Dioxane	1.4		0.20		ug/L	1		522 MOD	Total/NA

Client Sample ID: MW-551-20150408 — Lab Sample ID: 480-78021-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	15	*	10		ug/L	1		8260C	Total/NA
Ethylbenzene	3.5		1.0		ug/L	1		8260C	Total/NA
m-Xylene & p-Xylene	10		2.0		ug/L	1		8260C	Total/NA
o-Xylene	1.1		1.0		ug/L	1		8260C	Total/NA
Toluene	9.3		1.0		ug/L	1		8260C	Total/NA
Acetone - DL	650		100		ug/L	2		8260C	Total/NA

Client Sample ID: MW-552-20150408 — Lab Sample ID: 480-78021-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	290		100		ug/L	2		8260C	Total/NA
cis-1,2-Dichloroethene	2.8		2.0		ug/L	2		8260C	Total/NA
Toluene	2.9		2.0		ug/L	2		8260C	Total/NA
1,4-Dioxane	3.9		0.20		ug/L	1		522 MOD	Total/NA

Client Sample ID: MW-553-20150408 — Lab Sample ID: 480-78021-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	3.6		1.0		ug/L	1		8260C	Total/NA
Ethylbenzene	6.3		1.0		ug/L	1		8260C	Total/NA
m-Xylene & p-Xylene	27		2.0		ug/L	1		8260C	Total/NA
o-Xylene	4.5		1.0		ug/L	1		8260C	Total/NA
Tetrahydrofuran	12	*	10		ug/L	1		8260C	Total/NA
Toluene	19		1.0		ug/L	1		8260C	Total/NA
trans-1,2-Dichloroethene	1.1		1.0		ug/L	1		8260C	Total/NA
Vinyl chloride	26		1.0		ug/L	1		8260C	Total/NA

Client Sample ID: MW-560-20150407 — Lab Sample ID: 480-78021-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	180	*	10		ug/L	1		8260C	Total/NA
Acetone	79		50		ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	1.5		1.0		ug/L	1		8260C	Total/NA
Ethylbenzene	1.1		1.0		ug/L	1		8260C	Total/NA
m-Xylene & p-Xylene	5.6		2.0		ug/L	1		8260C	Total/NA
o-Xylene	1.3		1.0		ug/L	1		8260C	Total/NA
Toluene	48		1.0		ug/L	1		8260C	Total/NA
Vinyl chloride	7.3		1.0		ug/L	1		8260C	Total/NA

Client Sample ID: MW-561-20150407 — Lab Sample ID: 480-78021-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	110	*	20		ug/L	2		8260C	Total/NA
Ethylbenzene	4.6		2.0		ug/L	2		8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-561-20150407 (Continued) — Lab Sample ID: 480-78021-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
m-Xylene & p-Xylene	20		4.0		ug/L	2		8260C	Total/NA
o-Xylene	4.9		2.0		ug/L	2		8260C	Total/NA
Toluene	88		2.0		ug/L	2		8260C	Total/NA
Vinyl chloride	60		2.0		ug/L	2		8260C	Total/NA

Client Sample ID: MW-562-20150407 — Lab Sample ID: 480-78021-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	420	*	10		ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	63		1.0		ug/L	1		8260C	Total/NA
m-Xylene & p-Xylene	2.1		2.0		ug/L	1		8260C	Total/NA
Toluene	29		1.0		ug/L	1		8260C	Total/NA
Vinyl chloride	58		1.0		ug/L	1		8260C	Total/NA

Client Sample ID: MW-563-20150407 — Lab Sample ID: 480-78021-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	77	*	10		ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	10		1.0		ug/L	1		8260C	Total/NA
m-Xylene & p-Xylene	4.0		2.0		ug/L	1		8260C	Total/NA
o-Xylene	1.0		1.0		ug/L	1		8260C	Total/NA
Toluene	28		1.0		ug/L	1		8260C	Total/NA
Vinyl chloride	4.2		1.0		ug/L	1		8260C	Total/NA

Client Sample ID: REW-1-20150407 — Lab Sample ID: 480-78021-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	3.1		1.0		ug/L	1		8260C	Total/NA
Ethylbenzene	1.4		1.0		ug/L	1		8260C	Total/NA
m-Xylene & p-Xylene	3.2		2.0		ug/L	1		8260C	Total/NA
Vinyl chloride	1.2		1.0		ug/L	1		8260C	Total/NA

Client Sample ID: REW-4-20150407 — Lab Sample ID: 480-78021-22

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

Client Sample ID: REW-5-20150407 — Lab Sample ID: 480-78021-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	8.3		1.0		ug/L	1		8260C	Total/NA
Vinyl chloride	3.3		1.0		ug/L	1		8260C	Total/NA

Client Sample ID: REW-6-20150407 — Lab Sample ID: 480-78021-24

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	120	*	50		ug/L	5		8260C	Total/NA
cis-1,2-Dichloroethene	360		5.0		ug/L	5		8260C	Total/NA
Toluene	100		5.0		ug/L	5		8260C	Total/NA
Trichloroethene	14		5.0		ug/L	5		8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: REW-6-20150407 (Continued) — Lab Sample ID: 480-78021-24

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vinyl chloride	28		5.0		ug/L	5		8260C	Total/NA

Client Sample ID: REW-7-20150407 — Lab Sample ID: 480-78021-25

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	68	*	50		ug/L	5		8260C	Total/NA
cis-1,2-Dichloroethene	240		5.0		ug/L	5		8260C	Total/NA
Toluene	200		5.0		ug/L	5		8260C	Total/NA
Vinyl chloride	82		5.0		ug/L	5		8260C	Total/NA

Client Sample ID: REW-8-20150407 — Lab Sample ID: 480-78021-26

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	78	*	10		ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	44		1.0		ug/L	1		8260C	Total/NA
m-Xylene & p-Xylene	2.5		2.0		ug/L	1		8260C	Total/NA
Toluene	42		1.0		ug/L	1		8260C	Total/NA
Vinyl chloride	35		1.0		ug/L	1		8260C	Total/NA

Client Sample ID: REW-9-20150407 — Lab Sample ID: 480-78021-27

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	88		1.0		ug/L	1		8260C	Total/NA
Ethylbenzene	1.6		1.0		ug/L	1		8260C	Total/NA
m-Xylene & p-Xylene	5.7		2.0		ug/L	1		8260C	Total/NA
o-Xylene	1.4		1.0		ug/L	1		8260C	Total/NA
Toluene	66		1.0		ug/L	1		8260C	Total/NA
Vinyl chloride	39		1.0		ug/L	1		8260C	Total/NA

Client Sample ID: REW-10-20150407 — Lab Sample ID: 480-78021-28

No Detections.

Client Sample ID: REW-11-20150407 — Lab Sample ID: 480-78021-29

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	1400		20		ug/L	20		8260C	Total/NA
Trichloroethene	280		20		ug/L	20		8260C	Total/NA
Vinyl chloride	110		20		ug/L	20		8260C	Total/NA

Client Sample ID: REW-12-20150407 — Lab Sample ID: 480-78021-30

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	210		5.0		ug/L	5		8260C	Total/NA
Toluene	52		5.0		ug/L	5		8260C	Total/NA
Trichloroethene	35		5.0		ug/L	5		8260C	Total/NA
Vinyl chloride	65		5.0		ug/L	5		8260C	Total/NA

Client Sample ID: DUP-1-20150407 — Lab Sample ID: 480-78021-31

This Detection Summary does not include radiochemical test results.

Client Sample ID: DUP-1-20150407 (Continued) — Lab Sample ID: 480-78021-31

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	2200		50		ug/L	50		8260C	Total/NA
Trichloroethene	1300		50		ug/L	50		8260C	Total/NA
Vinyl chloride	180		50		ug/L	50		8260C	Total/NA
1,4-Dioxane	14		0.20		ug/L	1		522 MOD	Total/NA

Client Sample ID: DUP-2-20150407 — Lab Sample ID: 480-78021-32

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	210		5.0		ug/L	5		8260C	Total/NA
Toluene	55		5.0		ug/L	5		8260C	Total/NA
Trichloroethene	38		5.0		ug/L	5		8260C	Total/NA
Vinyl chloride	68		5.0		ug/L	5		8260C	Total/NA

Client Sample ID: DUP-3-20150408 — Lab Sample ID: 480-78021-33

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	14	*	10		ug/L	1		8260C	Total/NA
Ethylbenzene	3.6		1.0		ug/L	1		8260C	Total/NA
m-Xylene & p-Xylene	11		2.0		ug/L	1		8260C	Total/NA
o-Xylene	1.2		1.0		ug/L	1		8260C	Total/NA
Toluene	9.1		1.0		ug/L	1		8260C	Total/NA
Acetone - DL	830		100		ug/L	2		8260C	Total/NA

Client Sample ID: TRIP BLANK — Lab Sample ID: 480-78021-34

No Detections.

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-261S-20150407
Date Collected: 04/07/15 10:55
Date Received: 04/09/15 00:45

Lab Sample ID: 480-78021-1
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			04/10/15 14:53	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/10/15 14:53	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/10/15 14:53	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/10/15 14:53	1
1,1-Dichloroethane	ND		1.0		ug/L			04/10/15 14:53	1
1,1-Dichloroethene	ND		1.0		ug/L			04/10/15 14:53	1
1,1-Dichloropropene	ND		1.0		ug/L			04/10/15 14:53	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/10/15 14:53	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/10/15 14:53	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/10/15 14:53	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/10/15 14:53	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/10/15 14:53	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/10/15 14:53	1
1,2-Dichloroethane	ND		1.0		ug/L			04/10/15 14:53	1
1,2-Dichloropropane	ND		1.0		ug/L			04/10/15 14:53	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/10/15 14:53	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/10/15 14:53	1
1,3-Dichloropropane	ND		1.0		ug/L			04/10/15 14:53	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/10/15 14:53	1
1,4-Dioxane	ND		50		ug/L			04/10/15 14:53	1
2,2-Dichloropropane	ND		1.0		ug/L			04/10/15 14:53	1
2-Butanone (MEK)	**83**	*	10		ug/L			04/10/15 14:53	1
2-Chlorotoluene	ND		1.0		ug/L			04/10/15 14:53	1
2-Hexanone	ND		10		ug/L			04/10/15 14:53	1
4-Chlorotoluene	ND		1.0		ug/L			04/10/15 14:53	1
4-Isopropyltoluene	ND		1.0		ug/L			04/10/15 14:53	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/10/15 14:53	1
Benzene	ND		1.0		ug/L			04/10/15 14:53	1
Bromobenzene	ND		1.0		ug/L			04/10/15 14:53	1
Bromoform	ND		1.0		ug/L			04/10/15 14:53	1
Bromomethane	ND		2.0		ug/L			04/10/15 14:53	1
Carbon disulfide	ND		10		ug/L			04/10/15 14:53	1
Carbon tetrachloride	ND		1.0		ug/L			04/10/15 14:53	1
Chlorobenzene	ND		1.0		ug/L			04/10/15 14:53	1
Chlorobromomethane	ND		1.0		ug/L			04/10/15 14:53	1
Chlorodibromomethane	ND		0.50		ug/L			04/10/15 14:53	1
Chloroethane	ND		2.0		ug/L			04/10/15 14:53	1
Chloroform	ND		1.0		ug/L			04/10/15 14:53	1
Chloromethane	ND		2.0		ug/L			04/10/15 14:53	1
cis-1,2-Dichloroethene	**15**		1.0		ug/L			04/10/15 14:53	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/10/15 14:53	1
Dichlorobromomethane	ND		0.50		ug/L			04/10/15 14:53	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/10/15 14:53	1
Ethyl ether	ND		1.0		ug/L			04/10/15 14:53	1
Ethylbenzene	**7.2**		1.0		ug/L			04/10/15 14:53	1
Ethylene Dibromide	ND		1.0		ug/L			04/10/15 14:53	1
Hexachlorobutadiene	ND		0.40		ug/L			04/10/15 14:53	1
Isopropyl ether	ND		10		ug/L			04/10/15 14:53	1
Isopropylbenzene	ND		1.0		ug/L			04/10/15 14:53	1

Client Sample ID: MW-261S-20150407

Lab Sample ID: 480-78021-1

Date Collected: 04/07/15 10:55

Matrix: Water

Date Received: 04/09/15 00:45

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			04/10/15 14:53	1
Methylene Chloride	ND		1.0		ug/L			04/10/15 14:53	1
m-Xylene & p-Xylene	**25**		2.0		ug/L			04/10/15 14:53	1
Naphthalene	ND		5.0		ug/L			04/10/15 14:53	1
n-Butylbenzene	ND		1.0		ug/L			04/10/15 14:53	1
N-Propylbenzene	ND		1.0		ug/L			04/10/15 14:53	1
o-Xylene	**5.1**		1.0		ug/L			04/10/15 14:53	1
sec-Butylbenzene	ND		1.0		ug/L			04/10/15 14:53	1
Styrene	ND		1.0		ug/L			04/10/15 14:53	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/10/15 14:53	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/10/15 14:53	1
tert-Butylbenzene	ND		1.0		ug/L			04/10/15 14:53	1
Tetrachloroethene	ND		1.0		ug/L			04/10/15 14:53	1
Tetrahydrofuran	**16**		10		ug/L			04/10/15 14:53	1
Toluene	**31**		1.0		ug/L			04/10/15 14:53	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/10/15 14:53	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/10/15 14:53	1
Trichloroethene	ND		1.0		ug/L			04/10/15 14:53	1
Trichlorofluoromethane	ND		1.0		ug/L			04/10/15 14:53	1
Vinyl chloride	**12**		1.0		ug/L			04/10/15 14:53	1
Dibromomethane	ND		1.0		ug/L			04/10/15 14:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*97*		*70 - 130*		*04/10/15 14:53*	*1*
1,2-Dichloroethane-d4 (Surr)	*107*		*70 - 130*		*04/10/15 14:53*	*1*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*		*04/10/15 14:53*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**7200**	**F1**	1300		ug/L			04/11/15 01:39	25

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*98*		*70 - 130*		*04/11/15 01:39*	*25*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 130*		*04/11/15 01:39*	*25*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*04/11/15 01:39*	*25*

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	**3.4**		0.20		ug/L		04/10/15 19:00	04/11/15 15:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*91*		*70 - 130*	*04/10/15 19:00*	*04/11/15 15:27*	*1*

Client Sample ID: MW-264M-20150408

Lab Sample ID: 480-78021-2

Date Collected: 04/08/15 09:55

Matrix: Water

Date Received: 04/09/15 00:45

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			04/11/15 02:03	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/11/15 02:03	1

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

TestAmerica Job ID: 480-78021-1

Client Sample ID: MW-264M-20150408
Date Collected: 04/08/15 09:55
Date Received: 04/09/15 00:45

Lab Sample ID: 480-78021-2
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			04/11/15 02:03	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/11/15 02:03	1
1,1-Dichloroethane	ND		1.0		ug/L			04/11/15 02:03	1
1,1-Dichloroethene	ND		1.0		ug/L			04/11/15 02:03	1
1,1-Dichloropropene	ND		1.0		ug/L			04/11/15 02:03	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/11/15 02:03	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/11/15 02:03	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/11/15 02:03	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/11/15 02:03	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/11/15 02:03	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/11/15 02:03	1
1,2-Dichloroethane	ND		1.0		ug/L			04/11/15 02:03	1
1,2-Dichloropropane	ND		1.0		ug/L			04/11/15 02:03	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/11/15 02:03	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/11/15 02:03	1
1,3-Dichloropropane	ND		1.0		ug/L			04/11/15 02:03	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/11/15 02:03	1
1,4-Dioxane	ND	*	50		ug/L			04/11/15 02:03	1
2,2-Dichloropropane	ND		1.0		ug/L			04/11/15 02:03	1
2-Butanone (MEK)	ND	*	10		ug/L			04/11/15 02:03	1
2-Chlorotoluene	ND		1.0		ug/L			04/11/15 02:03	1
2-Hexanone	ND		10		ug/L			04/11/15 02:03	1
4-Chlorotoluene	ND		1.0		ug/L			04/11/15 02:03	1
4-Isopropyltoluene	ND		1.0		ug/L			04/11/15 02:03	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/11/15 02:03	1
Acetone	ND		50		ug/L			04/11/15 02:03	1
Benzene	ND		1.0		ug/L			04/11/15 02:03	1
Bromobenzene	ND		1.0		ug/L			04/11/15 02:03	1
Bromoform	ND		1.0		ug/L			04/11/15 02:03	1
Bromomethane	ND		2.0		ug/L			04/11/15 02:03	1
Carbon disulfide	ND		10		ug/L			04/11/15 02:03	1
Carbon tetrachloride	ND		1.0		ug/L			04/11/15 02:03	1
Chlorobenzene	ND		1.0		ug/L			04/11/15 02:03	1
Chlorobromomethane	ND		1.0		ug/L			04/11/15 02:03	1
Chlorodibromomethane	ND		0.50		ug/L			04/11/15 02:03	1
Chloroethane	ND		2.0		ug/L			04/11/15 02:03	1
Chloroform	ND		1.0		ug/L			04/11/15 02:03	1
Chloromethane	ND		2.0		ug/L			04/11/15 02:03	1
cis-1,2-Dichloroethene	**7.5**		1.0		ug/L			04/11/15 02:03	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/11/15 02:03	1
Dichlorobromomethane	ND		0.50		ug/L			04/11/15 02:03	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/11/15 02:03	1
Ethyl ether	ND		1.0		ug/L			04/11/15 02:03	1
Ethylbenzene	ND		1.0		ug/L			04/11/15 02:03	1
Ethylene Dibromide	ND		1.0		ug/L			04/11/15 02:03	1
Hexachlorobutadiene	ND		0.40		ug/L			04/11/15 02:03	1
Isopropyl ether	ND		10		ug/L			04/11/15 02:03	1
Isopropylbenzene	ND		1.0		ug/L			04/11/15 02:03	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/11/15 02:03	1

Client Sample ID: MW-264M-20150408

Lab Sample ID: 480-78021-2

Date Collected: 04/08/15 09:55

Matrix: Water

Date Received: 04/09/15 00:45

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			04/11/15 02:03	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/11/15 02:03	1
Naphthalene	ND		5.0		ug/L			04/11/15 02:03	1
n-Butylbenzene	ND		1.0		ug/L			04/11/15 02:03	1
N-Propylbenzene	ND		1.0		ug/L			04/11/15 02:03	1
o-Xylene	ND		1.0		ug/L			04/11/15 02:03	1
sec-Butylbenzene	ND		1.0		ug/L			04/11/15 02:03	1
Styrene	ND		1.0		ug/L			04/11/15 02:03	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/11/15 02:03	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/11/15 02:03	1
tert-Butylbenzene	ND		1.0		ug/L			04/11/15 02:03	1
Tetrachloroethene	ND		1.0		ug/L			04/11/15 02:03	1
Tetrahydrofuran	ND	*	10		ug/L			04/11/15 02:03	1
Toluene	ND		1.0		ug/L			04/11/15 02:03	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/11/15 02:03	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/11/15 02:03	1
Trichloroethene	**11**		1.0		ug/L			04/11/15 02:03	1
Trichlorofluoromethane	ND		1.0		ug/L			04/11/15 02:03	1
Vinyl chloride	ND		1.0		ug/L			04/11/15 02:03	1
Dibromomethane	ND		1.0		ug/L			04/11/15 02:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*95*		*70 - 130*		*04/11/15 02:03*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 130*		*04/11/15 02:03*	*1*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*		*04/11/15 02:03*	*1*

Client Sample ID: MW-265S-20150408

Lab Sample ID: 480-78021-3

Date Collected: 04/08/15 11:45

Matrix: Water

Date Received: 04/09/15 00:45

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			04/11/15 02:27	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/11/15 02:27	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/11/15 02:27	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/11/15 02:27	1
1,1-Dichloroethane	ND		1.0		ug/L			04/11/15 02:27	1
1,1-Dichloroethene	ND		1.0		ug/L			04/11/15 02:27	1
1,1-Dichloropropene	ND		1.0		ug/L			04/11/15 02:27	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/11/15 02:27	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/11/15 02:27	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/11/15 02:27	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/11/15 02:27	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/11/15 02:27	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/11/15 02:27	1
1,2-Dichloroethane	ND		1.0		ug/L			04/11/15 02:27	1
1,2-Dichloropropane	ND		1.0		ug/L			04/11/15 02:27	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/11/15 02:27	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/11/15 02:27	1
1,3-Dichloropropane	ND		1.0		ug/L			04/11/15 02:27	1

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

TestAmerica Job ID: 480-78021-1

Client Sample ID: MW-265S-20150408
Date Collected: 04/08/15 11:45
Date Received: 04/09/15 00:45

Lab Sample ID: 480-78021-3
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			04/11/15 02:27	1
1,4-Dioxane	ND	*	50		ug/L			04/11/15 02:27	1
2,2-Dichloropropane	ND		1.0		ug/L			04/11/15 02:27	1
2-Butanone (MEK)	**51**	*	10		ug/L			04/11/15 02:27	1
2-Chlorotoluene	ND		1.0		ug/L			04/11/15 02:27	1
2-Hexanone	ND		10		ug/L			04/11/15 02:27	1
4-Chlorotoluene	ND		1.0		ug/L			04/11/15 02:27	1
4-Isopropyltoluene	ND		1.0		ug/L			04/11/15 02:27	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/11/15 02:27	1
Acetone	ND		50		ug/L			04/11/15 02:27	1
Benzene	ND		1.0		ug/L			04/11/15 02:27	1
Bromobenzene	ND		1.0		ug/L			04/11/15 02:27	1
Bromoform	ND		1.0		ug/L			04/11/15 02:27	1
Bromomethane	ND		2.0		ug/L			04/11/15 02:27	1
Carbon disulfide	ND		10		ug/L			04/11/15 02:27	1
Carbon tetrachloride	ND		1.0		ug/L			04/11/15 02:27	1
Chlorobenzene	ND		1.0		ug/L			04/11/15 02:27	1
Chlorobromomethane	ND		1.0		ug/L			04/11/15 02:27	1
Chlorodibromomethane	ND		0.50		ug/L			04/11/15 02:27	1
Chloroethane	ND		2.0		ug/L			04/11/15 02:27	1
Chloroform	ND		1.0		ug/L			04/11/15 02:27	1
Chloromethane	ND		2.0		ug/L			04/11/15 02:27	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			04/11/15 02:27	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/11/15 02:27	1
Dichlorobromomethane	ND		0.50		ug/L			04/11/15 02:27	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/11/15 02:27	1
Ethyl ether	ND		1.0		ug/L			04/11/15 02:27	1
Ethylbenzene	ND		1.0		ug/L			04/11/15 02:27	1
Ethylene Dibromide	ND		1.0		ug/L			04/11/15 02:27	1
Hexachlorobutadiene	ND		0.40		ug/L			04/11/15 02:27	1
Isopropyl ether	ND		10		ug/L			04/11/15 02:27	1
Isopropylbenzene	ND		1.0		ug/L			04/11/15 02:27	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/11/15 02:27	1
Methylene Chloride	ND		1.0		ug/L			04/11/15 02:27	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/11/15 02:27	1
Naphthalene	ND		5.0		ug/L			04/11/15 02:27	1
n-Butylbenzene	ND		1.0		ug/L			04/11/15 02:27	1
N-Propylbenzene	ND		1.0		ug/L			04/11/15 02:27	1
o-Xylene	ND		1.0		ug/L			04/11/15 02:27	1
sec-Butylbenzene	ND		1.0		ug/L			04/11/15 02:27	1
Styrene	ND		1.0		ug/L			04/11/15 02:27	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/11/15 02:27	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/11/15 02:27	1
tert-Butylbenzene	ND		1.0		ug/L			04/11/15 02:27	1
Tetrachloroethene	ND		1.0		ug/L			04/11/15 02:27	1
Tetrahydrofuran	ND	*	10		ug/L			04/11/15 02:27	1
Toluene	ND		1.0		ug/L			04/11/15 02:27	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/11/15 02:27	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/11/15 02:27	1

Client Sample ID: MW-265S-20150408

Lab Sample ID: 480-78021-3

Date Collected: 04/08/15 11:45

Matrix: Water

Date Received: 04/09/15 00:45

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			04/11/15 02:27	1
Trichlorofluoromethane	ND		1.0		ug/L			04/11/15 02:27	1
Vinyl chloride	ND		1.0		ug/L			04/11/15 02:27	1
Dibromomethane	ND		1.0		ug/L			04/11/15 02:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*97*		*70 - 130*		*04/11/15 02:27*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 130*		*04/11/15 02:27*	*1*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*		*04/11/15 02:27*	*1*

Client Sample ID: MW-265M-20150407

Lab Sample ID: 480-78021-4

Date Collected: 04/07/15 12:05

Matrix: Water

Date Received: 04/09/15 00:45

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			04/10/15 16:04	5
1,1,1-Trichloroethane	ND		5.0		ug/L			04/10/15 16:04	5
1,1,2,2-Tetrachloroethane	ND		2.5		ug/L			04/10/15 16:04	5
1,1,2-Trichloroethane	ND		5.0		ug/L			04/10/15 16:04	5
1,1-Dichloroethane	ND		5.0		ug/L			04/10/15 16:04	5
1,1-Dichloroethene	ND		5.0		ug/L			04/10/15 16:04	5
1,1-Dichloropropene	ND		5.0		ug/L			04/10/15 16:04	5
1,2,3-Trichlorobenzene	ND		5.0		ug/L			04/10/15 16:04	5
1,2,3-Trichloropropane	ND		5.0		ug/L			04/10/15 16:04	5
1,2,4-Trichlorobenzene	ND		5.0		ug/L			04/10/15 16:04	5
1,2,4-Trimethylbenzene	ND		5.0		ug/L			04/10/15 16:04	5
1,2-Dibromo-3-Chloropropane	ND		25		ug/L			04/10/15 16:04	5
1,2-Dichlorobenzene	ND		5.0		ug/L			04/10/15 16:04	5
1,2-Dichloroethane	ND		5.0		ug/L			04/10/15 16:04	5
1,2-Dichloropropane	ND		5.0		ug/L			04/10/15 16:04	5
1,3,5-Trimethylbenzene	ND		5.0		ug/L			04/10/15 16:04	5
1,3-Dichlorobenzene	ND		5.0		ug/L			04/10/15 16:04	5
1,3-Dichloropropane	ND		5.0		ug/L			04/10/15 16:04	5
1,4-Dichlorobenzene	ND		5.0		ug/L			04/10/15 16:04	5
1,4-Dioxane	ND		250		ug/L			04/10/15 16:04	5
2,2-Dichloropropane	ND		5.0		ug/L			04/10/15 16:04	5
2-Butanone (MEK)	**300**	*	50		ug/L			04/10/15 16:04	5
2-Chlorotoluene	ND		5.0		ug/L			04/10/15 16:04	5
2-Hexanone	ND		50		ug/L			04/10/15 16:04	5
4-Chlorotoluene	ND		5.0		ug/L			04/10/15 16:04	5
4-Isopropyltoluene	ND		5.0		ug/L			04/10/15 16:04	5
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			04/10/15 16:04	5
Acetone	**1400**		250		ug/L			04/10/15 16:04	5
Benzene	ND		5.0		ug/L			04/10/15 16:04	5
Bromobenzene	ND		5.0		ug/L			04/10/15 16:04	5
Bromoform	ND		5.0		ug/L			04/10/15 16:04	5
Bromomethane	ND		10		ug/L			04/10/15 16:04	5
Carbon disulfide	ND		50		ug/L			04/10/15 16:04	5
Carbon tetrachloride	ND		5.0		ug/L			04/10/15 16:04	5

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

TestAmerica Job ID: 480-78021-1

Client Sample ID: MW-265M-20150407
Date Collected: 04/07/15 12:05
Date Received: 04/09/15 00:45

Lab Sample ID: 480-78021-4
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	ND		5.0		ug/L			04/10/15 16:04	5
Chlorobromomethane	ND		5.0		ug/L			04/10/15 16:04	5
Chlorodibromomethane	ND		2.5		ug/L			04/10/15 16:04	5
Chloroethane	ND		10		ug/L			04/10/15 16:04	5
Chloroform	ND		5.0		ug/L			04/10/15 16:04	5
Chloromethane	ND		10		ug/L			04/10/15 16:04	5
cis-1,2-Dichloroethene	**5.8**		5.0		ug/L			04/10/15 16:04	5
cis-1,3-Dichloropropene	ND		2.0		ug/L			04/10/15 16:04	5
Dichlorobromomethane	ND		2.5		ug/L			04/10/15 16:04	5
Dichlorodifluoromethane	ND		5.0		ug/L			04/10/15 16:04	5
Ethyl ether	ND		5.0		ug/L			04/10/15 16:04	5
Ethylbenzene	ND		5.0		ug/L			04/10/15 16:04	5
Ethylene Dibromide	ND		5.0		ug/L			04/10/15 16:04	5
Hexachlorobutadiene	ND		2.0		ug/L			04/10/15 16:04	5
Isopropyl ether	ND		50		ug/L			04/10/15 16:04	5
Isopropylbenzene	ND		5.0		ug/L			04/10/15 16:04	5
Methyl tert-butyl ether	ND		5.0		ug/L			04/10/15 16:04	5
Methylene Chloride	ND		5.0		ug/L			04/10/15 16:04	5
m-Xylene & p-Xylene	**13**		10		ug/L			04/10/15 16:04	5
Naphthalene	ND		25		ug/L			04/10/15 16:04	5
n-Butylbenzene	ND		5.0		ug/L			04/10/15 16:04	5
N-Propylbenzene	ND		5.0		ug/L			04/10/15 16:04	5
o-Xylene	ND		5.0		ug/L			04/10/15 16:04	5
sec-Butylbenzene	ND		5.0		ug/L			04/10/15 16:04	5
Styrene	ND		5.0		ug/L			04/10/15 16:04	5
Tert-amyl methyl ether	ND		25		ug/L			04/10/15 16:04	5
Tert-butyl ethyl ether	ND		25		ug/L			04/10/15 16:04	5
tert-Butylbenzene	ND		5.0		ug/L			04/10/15 16:04	5
Tetrachloroethene	ND		5.0		ug/L			04/10/15 16:04	5
Tetrahydrofuran	ND		50		ug/L			04/10/15 16:04	5
Toluene	**11**		5.0		ug/L			04/10/15 16:04	5
trans-1,2-Dichloroethene	ND		5.0		ug/L			04/10/15 16:04	5
trans-1,3-Dichloropropene	ND		2.0		ug/L			04/10/15 16:04	5
Trichloroethene	ND		5.0		ug/L			04/10/15 16:04	5
Trichlorofluoromethane	ND		5.0		ug/L			04/10/15 16:04	5
Vinyl chloride	ND		5.0		ug/L			04/10/15 16:04	5
Dibromomethane	ND		5.0		ug/L			04/10/15 16:04	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*97*		*70 - 130*		*04/10/15 16:04*	*5*
1,2-Dichloroethane-d4 (Surr)	*105*		*70 - 130*		*04/10/15 16:04*	*5*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*04/10/15 16:04*	*5*

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	**6.2**		0.20		ug/L		04/10/15 19:00	04/11/15 15:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*83*		*70 - 130*	*04/10/15 19:00*	*04/11/15 15:46*	*1*

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

TestAmerica Job ID: 480-78021-1

Client Sample ID: MW-265D-20150408
Date Collected: 04/08/15 11:05
Date Received: 04/09/15 00:45

Lab Sample ID: 480-78021-5
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			04/10/15 16:28	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/10/15 16:28	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/10/15 16:28	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/10/15 16:28	1
1,1-Dichloroethane	ND		1.0		ug/L			04/10/15 16:28	1
1,1-Dichloroethene	ND		1.0		ug/L			04/10/15 16:28	1
1,1-Dichloropropene	ND		1.0		ug/L			04/10/15 16:28	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/10/15 16:28	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/10/15 16:28	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/10/15 16:28	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/10/15 16:28	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/10/15 16:28	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/10/15 16:28	1
1,2-Dichloroethane	ND		1.0		ug/L			04/10/15 16:28	1
1,2-Dichloropropane	ND		1.0		ug/L			04/10/15 16:28	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/10/15 16:28	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/10/15 16:28	1
1,3-Dichloropropane	ND		1.0		ug/L			04/10/15 16:28	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/10/15 16:28	1
1,4-Dioxane	ND		50		ug/L			04/10/15 16:28	1
2,2-Dichloropropane	ND		1.0		ug/L			04/10/15 16:28	1
2-Butanone (MEK)	ND	*	10		ug/L			04/10/15 16:28	1
2-Chlorotoluene	ND		1.0		ug/L			04/10/15 16:28	1
2-Hexanone	ND		10		ug/L			04/10/15 16:28	1
4-Chlorotoluene	ND		1.0		ug/L			04/10/15 16:28	1
4-Isopropyltoluene	ND		1.0		ug/L			04/10/15 16:28	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/10/15 16:28	1
Acetone	ND		50		ug/L			04/10/15 16:28	1
Benzene	ND		1.0		ug/L			04/10/15 16:28	1
Bromobenzene	ND		1.0		ug/L			04/10/15 16:28	1
Bromoform	ND		1.0		ug/L			04/10/15 16:28	1
Bromomethane	ND		2.0		ug/L			04/10/15 16:28	1
Carbon disulfide	ND		10		ug/L			04/10/15 16:28	1
Carbon tetrachloride	ND		1.0		ug/L			04/10/15 16:28	1
Chlorobenzene	ND		1.0		ug/L			04/10/15 16:28	1
Chlorobromomethane	ND		1.0		ug/L			04/10/15 16:28	1
Chlorodibromomethane	ND		0.50		ug/L			04/10/15 16:28	1
Chloroethane	ND		2.0		ug/L			04/10/15 16:28	1
Chloroform	ND		1.0		ug/L			04/10/15 16:28	1
Chloromethane	ND		2.0		ug/L			04/10/15 16:28	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			04/10/15 16:28	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/10/15 16:28	1
Dichlorobromomethane	ND		0.50		ug/L			04/10/15 16:28	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/10/15 16:28	1
Ethyl ether	ND		1.0		ug/L			04/10/15 16:28	1
Ethylbenzene	ND		1.0		ug/L			04/10/15 16:28	1
Ethylene Dibromide	ND		1.0		ug/L			04/10/15 16:28	1
Hexachlorobutadiene	ND		0.40		ug/L			04/10/15 16:28	1
Isopropyl ether	ND		10		ug/L			04/10/15 16:28	1

Client Sample ID: MW-265D-20150408

Lab Sample ID: 480-78021-5

Date Collected: 04/08/15 11:05

Matrix: Water

Date Received: 04/09/15 00:45

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			04/10/15 16:28	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/10/15 16:28	1
Methylene Chloride	ND		1.0		ug/L			04/10/15 16:28	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/10/15 16:28	1
Naphthalene	ND		5.0		ug/L			04/10/15 16:28	1
n-Butylbenzene	ND		1.0		ug/L			04/10/15 16:28	1
N-Propylbenzene	ND		1.0		ug/L			04/10/15 16:28	1
o-Xylene	ND		1.0		ug/L			04/10/15 16:28	1
sec-Butylbenzene	ND		1.0		ug/L			04/10/15 16:28	1
Styrene	ND		1.0		ug/L			04/10/15 16:28	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/10/15 16:28	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/10/15 16:28	1
tert-Butylbenzene	ND		1.0		ug/L			04/10/15 16:28	1
Tetrachloroethene	ND		1.0		ug/L			04/10/15 16:28	1
Tetrahydrofuran	ND		10		ug/L			04/10/15 16:28	1
Toluene	ND		1.0		ug/L			04/10/15 16:28	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/10/15 16:28	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/10/15 16:28	1
Trichloroethene	ND		1.0		ug/L			04/10/15 16:28	1
Trichlorofluoromethane	ND		1.0		ug/L			04/10/15 16:28	1
Vinyl chloride	ND		1.0		ug/L			04/10/15 16:28	1
Dibromomethane	ND		1.0		ug/L			04/10/15 16:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*98*		*70 - 130*		*04/10/15 16:28*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*		*04/10/15 16:28*	*1*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*04/10/15 16:28*	*1*

Client Sample ID: MW-266Ma-20150408

Lab Sample ID: 480-78021-6

Date Collected: 04/08/15 11:00

Matrix: Water

Date Received: 04/09/15 00:45

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			04/10/15 16:51	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/10/15 16:51	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/10/15 16:51	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/10/15 16:51	1
1,1-Dichloroethane	ND		1.0		ug/L			04/10/15 16:51	1
1,1-Dichloroethene	ND		1.0		ug/L			04/10/15 16:51	1
1,1-Dichloropropene	ND		1.0		ug/L			04/10/15 16:51	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/10/15 16:51	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/10/15 16:51	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/10/15 16:51	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/10/15 16:51	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/10/15 16:51	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/10/15 16:51	1
1,2-Dichloroethane	ND		1.0		ug/L			04/10/15 16:51	1
1,2-Dichloropropane	ND		1.0		ug/L			04/10/15 16:51	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/10/15 16:51	1

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

TestAmerica Job ID: 480-78021-1

Client Sample ID: MW-266Ma-20150408
Date Collected: 04/08/15 11:00
Date Received: 04/09/15 00:45

Lab Sample ID: 480-78021-6
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			04/10/15 16:51	1
1,3-Dichloropropane	ND		1.0		ug/L			04/10/15 16:51	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/10/15 16:51	1
1,4-Dioxane	ND		50		ug/L			04/10/15 16:51	1
2,2-Dichloropropane	ND		1.0		ug/L			04/10/15 16:51	1
2-Butanone (MEK)	ND	*	10		ug/L			04/10/15 16:51	1
2-Chlorotoluene	ND		1.0		ug/L			04/10/15 16:51	1
2-Hexanone	ND		10		ug/L			04/10/15 16:51	1
4-Chlorotoluene	ND		1.0		ug/L			04/10/15 16:51	1
4-Isopropyltoluene	ND		1.0		ug/L			04/10/15 16:51	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/10/15 16:51	1
Acetone	ND		50		ug/L			04/10/15 16:51	1
Benzene	ND		1.0		ug/L			04/10/15 16:51	1
Bromobenzene	ND		1.0		ug/L			04/10/15 16:51	1
Bromoform	ND		1.0		ug/L			04/10/15 16:51	1
Bromomethane	ND		2.0		ug/L			04/10/15 16:51	1
Carbon disulfide	ND		10		ug/L			04/10/15 16:51	1
Carbon tetrachloride	ND		1.0		ug/L			04/10/15 16:51	1
Chlorobenzene	ND		1.0		ug/L			04/10/15 16:51	1
Chlorobromomethane	ND		1.0		ug/L			04/10/15 16:51	1
Chlorodibromomethane	ND		0.50		ug/L			04/10/15 16:51	1
Chloroethane	ND		2.0		ug/L			04/10/15 16:51	1
Chloroform	ND		1.0		ug/L			04/10/15 16:51	1
Chloromethane	ND		2.0		ug/L			04/10/15 16:51	1
cis-1,2-Dichloroethene	**19**		1.0		ug/L			04/10/15 16:51	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/10/15 16:51	1
Dichlorobromomethane	ND		0.50		ug/L			04/10/15 16:51	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/10/15 16:51	1
Ethyl ether	ND		1.0		ug/L			04/10/15 16:51	1
Ethylbenzene	ND		1.0		ug/L			04/10/15 16:51	1
Ethylene Dibromide	ND		1.0		ug/L			04/10/15 16:51	1
Hexachlorobutadiene	ND		0.40		ug/L			04/10/15 16:51	1
Isopropyl ether	ND		10		ug/L			04/10/15 16:51	1
Isopropylbenzene	ND		1.0		ug/L			04/10/15 16:51	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/10/15 16:51	1
Methylene Chloride	ND		1.0		ug/L			04/10/15 16:51	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/10/15 16:51	1
Naphthalene	ND		5.0		ug/L			04/10/15 16:51	1
n-Butylbenzene	ND		1.0		ug/L			04/10/15 16:51	1
N-Propylbenzene	ND		1.0		ug/L			04/10/15 16:51	1
o-Xylene	ND		1.0		ug/L			04/10/15 16:51	1
sec-Butylbenzene	ND		1.0		ug/L			04/10/15 16:51	1
Styrene	ND		1.0		ug/L			04/10/15 16:51	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/10/15 16:51	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/10/15 16:51	1
tert-Butylbenzene	ND		1.0		ug/L			04/10/15 16:51	1
Tetrachloroethene	ND		1.0		ug/L			04/10/15 16:51	1
Tetrahydrofuran	ND		10		ug/L			04/10/15 16:51	1
Toluene	**17**		1.0		ug/L			04/10/15 16:51	1

Client Sample ID: MW-266Ma-20150408

Lab Sample ID: 480-78021-6

Date Collected: 04/08/15 11:00

Matrix: Water

Date Received: 04/09/15 00:45

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			04/10/15 16:51	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/10/15 16:51	1
Trichloroethene	ND		1.0		ug/L			04/10/15 16:51	1
Trichlorofluoromethane	ND		1.0		ug/L			04/10/15 16:51	1
Vinyl chloride	**8.7**		1.0		ug/L			04/10/15 16:51	1
Dibromomethane	ND		1.0		ug/L			04/10/15 16:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*97*		*70 - 130*		*04/10/15 16:51*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 130*		*04/10/15 16:51*	*1*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*		*04/10/15 16:51*	*1*

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	**0.48**		0.20		ug/L		04/10/15 19:00	04/11/15 16:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*83*		*70 - 130*	*04/10/15 19:00*	*04/11/15 16:05*	*1*

Client Sample ID: MW-266Mb-20150408

Lab Sample ID: 480-78021-7

Date Collected: 04/08/15 11:55

Matrix: Water

Date Received: 04/09/15 00:45

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			04/10/15 17:15	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/10/15 17:15	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/10/15 17:15	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/10/15 17:15	1
1,1-Dichloroethane	ND		1.0		ug/L			04/10/15 17:15	1
1,1-Dichloroethene	ND		1.0		ug/L			04/10/15 17:15	1
1,1-Dichloropropene	ND		1.0		ug/L			04/10/15 17:15	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/10/15 17:15	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/10/15 17:15	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/10/15 17:15	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/10/15 17:15	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/10/15 17:15	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/10/15 17:15	1
1,2-Dichloroethane	ND		1.0		ug/L			04/10/15 17:15	1
1,2-Dichloropropane	ND		1.0		ug/L			04/10/15 17:15	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/10/15 17:15	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/10/15 17:15	1
1,3-Dichloropropane	ND		1.0		ug/L			04/10/15 17:15	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/10/15 17:15	1
1,4-Dioxane	ND		50		ug/L			04/10/15 17:15	1
2,2-Dichloropropane	ND		1.0		ug/L			04/10/15 17:15	1
2-Butanone (MEK)	**24**	*	10		ug/L			04/10/15 17:15	1
2-Chlorotoluene	ND		1.0		ug/L			04/10/15 17:15	1
2-Hexanone	ND		10		ug/L			04/10/15 17:15	1
4-Chlorotoluene	ND		1.0		ug/L			04/10/15 17:15	1

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

TestAmerica Job ID: 480-78021-1

Client Sample ID: MW-266Mb-20150408
Date Collected: 04/08/15 11:55
Date Received: 04/09/15 00:45

Lab Sample ID: 480-78021-7
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			04/10/15 17:15	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/10/15 17:15	1
Acetone	**320**		50		ug/L			04/10/15 17:15	1
Benzene	ND		1.0		ug/L			04/10/15 17:15	1
Bromobenzene	ND		1.0		ug/L			04/10/15 17:15	1
Bromoform	ND		1.0		ug/L			04/10/15 17:15	1
Bromomethane	ND		2.0		ug/L			04/10/15 17:15	1
Carbon disulfide	ND		10		ug/L			04/10/15 17:15	1
Carbon tetrachloride	ND		1.0		ug/L			04/10/15 17:15	1
Chlorobenzene	ND		1.0		ug/L			04/10/15 17:15	1
Chlorobromomethane	ND		1.0		ug/L			04/10/15 17:15	1
Chlorodibromomethane	ND		0.50		ug/L			04/10/15 17:15	1
Chloroethane	ND		2.0		ug/L			04/10/15 17:15	1
Chloroform	ND		1.0		ug/L			04/10/15 17:15	1
Chloromethane	ND		2.0		ug/L			04/10/15 17:15	1
cis-1,2-Dichloroethene	**26**		1.0		ug/L			04/10/15 17:15	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/10/15 17:15	1
Dichlorobromomethane	ND		0.50		ug/L			04/10/15 17:15	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/10/15 17:15	1
Ethyl ether	ND		1.0		ug/L			04/10/15 17:15	1
Ethylbenzene	ND		1.0		ug/L			04/10/15 17:15	1
Ethylene Dibromide	ND		1.0		ug/L			04/10/15 17:15	1
Hexachlorobutadiene	ND		0.40		ug/L			04/10/15 17:15	1
Isopropyl ether	ND		10		ug/L			04/10/15 17:15	1
Isopropylbenzene	ND		1.0		ug/L			04/10/15 17:15	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/10/15 17:15	1
Methylene Chloride	ND		1.0		ug/L			04/10/15 17:15	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/10/15 17:15	1
Naphthalene	ND		5.0		ug/L			04/10/15 17:15	1
n-Butylbenzene	ND		1.0		ug/L			04/10/15 17:15	1
N-Propylbenzene	ND		1.0		ug/L			04/10/15 17:15	1
o-Xylene	ND		1.0		ug/L			04/10/15 17:15	1
sec-Butylbenzene	ND		1.0		ug/L			04/10/15 17:15	1
Styrene	ND		1.0		ug/L			04/10/15 17:15	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/10/15 17:15	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/10/15 17:15	1
tert-Butylbenzene	ND		1.0		ug/L			04/10/15 17:15	1
Tetrachloroethene	ND		1.0		ug/L			04/10/15 17:15	1
Tetrahydrofuran	ND		10		ug/L			04/10/15 17:15	1
Toluene	ND		1.0		ug/L			04/10/15 17:15	1
trans-1,2-Dichloroethene	**2.3**		1.0		ug/L			04/10/15 17:15	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/10/15 17:15	1
Trichloroethene	**1.0**		1.0		ug/L			04/10/15 17:15	1
Trichlorofluoromethane	ND		1.0		ug/L			04/10/15 17:15	1
Vinyl chloride	**66**		1.0		ug/L			04/10/15 17:15	1
Dibromomethane	ND		1.0		ug/L			04/10/15 17:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*96*		*70 - 130*		*04/10/15 17:15*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 130*		*04/10/15 17:15*	*1*

Client Sample ID: MW-266Mb-20150408

Lab Sample ID: 480-78021-7

Date Collected: 04/08/15 11:55

Matrix: Water

Date Received: 04/09/15 00:45

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*		*04/10/15 17:15*	*1*

Client Sample ID: MW-267S-20150408

Lab Sample ID: 480-78021-8

Date Collected: 04/08/15 09:30

Matrix: Water

Date Received: 04/09/15 00:45

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			04/10/15 17:39	5
1,1,1-Trichloroethane	ND		5.0		ug/L			04/10/15 17:39	5
1,1,2,2-Tetrachloroethane	ND		2.5		ug/L			04/10/15 17:39	5
1,1,2-Trichloroethane	ND		5.0		ug/L			04/10/15 17:39	5
1,1-Dichloroethane	ND		5.0		ug/L			04/10/15 17:39	5
1,1-Dichloroethene	ND		5.0		ug/L			04/10/15 17:39	5
1,1-Dichloropropene	ND		5.0		ug/L			04/10/15 17:39	5
1,2,3-Trichlorobenzene	ND		5.0		ug/L			04/10/15 17:39	5
1,2,3-Trichloropropane	ND		5.0		ug/L			04/10/15 17:39	5
1,2,4-Trichlorobenzene	ND		5.0		ug/L			04/10/15 17:39	5
1,2,4-Trimethylbenzene	ND		5.0		ug/L			04/10/15 17:39	5
1,2-Dibromo-3-Chloropropane	ND		25		ug/L			04/10/15 17:39	5
1,2-Dichlorobenzene	ND		5.0		ug/L			04/10/15 17:39	5
1,2-Dichloroethane	ND		5.0		ug/L			04/10/15 17:39	5
1,2-Dichloropropane	ND		5.0		ug/L			04/10/15 17:39	5
1,3,5-Trimethylbenzene	ND		5.0		ug/L			04/10/15 17:39	5
1,3-Dichlorobenzene	ND		5.0		ug/L			04/10/15 17:39	5
1,3-Dichloropropane	ND		5.0		ug/L			04/10/15 17:39	5
1,4-Dichlorobenzene	ND		5.0		ug/L			04/10/15 17:39	5
1,4-Dioxane	ND		250		ug/L			04/10/15 17:39	5
2,2-Dichloropropane	ND		5.0		ug/L			04/10/15 17:39	5
2-Butanone (MEK)	**200**	*	50		ug/L			04/10/15 17:39	5
2-Chlorotoluene	ND		5.0		ug/L			04/10/15 17:39	5
2-Hexanone	ND		50		ug/L			04/10/15 17:39	5
4-Chlorotoluene	ND		5.0		ug/L			04/10/15 17:39	5
4-Isopropyltoluene	ND		5.0		ug/L			04/10/15 17:39	5
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			04/10/15 17:39	5
Acetone	ND		250		ug/L			04/10/15 17:39	5
Benzene	ND		5.0		ug/L			04/10/15 17:39	5
Bromobenzene	ND		5.0		ug/L			04/10/15 17:39	5
Bromoform	ND		5.0		ug/L			04/10/15 17:39	5
Bromomethane	ND		10		ug/L			04/10/15 17:39	5
Carbon disulfide	ND		50		ug/L			04/10/15 17:39	5
Carbon tetrachloride	ND		5.0		ug/L			04/10/15 17:39	5
Chlorobenzene	ND		5.0		ug/L			04/10/15 17:39	5
Chlorobromomethane	ND		5.0		ug/L			04/10/15 17:39	5
Chlorodibromomethane	ND		2.5		ug/L			04/10/15 17:39	5
Chloroethane	ND		10		ug/L			04/10/15 17:39	5
Chloroform	ND		5.0		ug/L			04/10/15 17:39	5
Chloromethane	ND		10		ug/L			04/10/15 17:39	5
cis-1,2-Dichloroethene	**350**		5.0		ug/L			04/10/15 17:39	5

Client Sample ID: MW-267S-20150408

Lab Sample ID: 480-78021-8

Date Collected: 04/08/15 09:30

Matrix: Water

Date Received: 04/09/15 00:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND		2.0		ug/L			04/10/15 17:39	5
Dichlorobromomethane	ND		2.5		ug/L			04/10/15 17:39	5
Dichlorodifluoromethane	ND		5.0		ug/L			04/10/15 17:39	5
Ethyl ether	ND		5.0		ug/L			04/10/15 17:39	5
Ethylbenzene	ND		5.0		ug/L			04/10/15 17:39	5
Ethylene Dibromide	ND		5.0		ug/L			04/10/15 17:39	5
Hexachlorobutadiene	ND		2.0		ug/L			04/10/15 17:39	5
Isopropyl ether	ND		50		ug/L			04/10/15 17:39	5
Isopropylbenzene	ND		5.0		ug/L			04/10/15 17:39	5
Methyl tert-butyl ether	ND		5.0		ug/L			04/10/15 17:39	5
Methylene Chloride	ND		5.0		ug/L			04/10/15 17:39	5
m-Xylene & p-Xylene	ND		10		ug/L			04/10/15 17:39	5
Naphthalene	ND		25		ug/L			04/10/15 17:39	5
n-Butylbenzene	ND		5.0		ug/L			04/10/15 17:39	5
N-Propylbenzene	ND		5.0		ug/L			04/10/15 17:39	5
o-Xylene	ND		5.0		ug/L			04/10/15 17:39	5
sec-Butylbenzene	ND		5.0		ug/L			04/10/15 17:39	5
Styrene	ND		5.0		ug/L			04/10/15 17:39	5
Tert-amyl methyl ether	ND		25		ug/L			04/10/15 17:39	5
Tert-butyl ethyl ether	ND		25		ug/L			04/10/15 17:39	5
tert-Butylbenzene	ND		5.0		ug/L			04/10/15 17:39	5
Tetrachloroethene	ND		5.0		ug/L			04/10/15 17:39	5
Tetrahydrofuran	ND		50		ug/L			04/10/15 17:39	5
Toluene	**190**		5.0		ug/L			04/10/15 17:39	5
trans-1,2-Dichloroethene	ND		5.0		ug/L			04/10/15 17:39	5
trans-1,3-Dichloropropene	ND		2.0		ug/L			04/10/15 17:39	5
Trichloroethene	ND		5.0		ug/L			04/10/15 17:39	5
Trichlorofluoromethane	ND		5.0		ug/L			04/10/15 17:39	5
Vinyl chloride	**27**		5.0		ug/L			04/10/15 17:39	5
Dibromomethane	ND		5.0		ug/L			04/10/15 17:39	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*98*		*70 - 130*		*04/10/15 17:39*	*5*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*		*04/10/15 17:39*	*5*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*		*04/10/15 17:39*	*5*

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	**4.1**		0.20		ug/L		04/10/15 19:00	04/11/15 16:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*52*	*X*	*70 - 130*	*04/10/15 19:00*	*04/11/15 16:24*	*1*

Client Sample ID: MW-267M-20150408

Lab Sample ID: 480-78021-9

Date Collected: 04/08/15 10:15

Matrix: Water

Date Received: 04/09/15 00:45

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			04/10/15 18:02	1

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

TestAmerica Job ID: 480-78021-1

Client Sample ID: MW-267M-20150408
Date Collected: 04/08/15 10:15
Date Received: 04/09/15 00:45

Lab Sample ID: 480-78021-9
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			04/10/15 18:02	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/10/15 18:02	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/10/15 18:02	1
1,1-Dichloroethane	ND		1.0		ug/L			04/10/15 18:02	1
1,1-Dichloroethene	ND		1.0		ug/L			04/10/15 18:02	1
1,1-Dichloropropene	ND		1.0		ug/L			04/10/15 18:02	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/10/15 18:02	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/10/15 18:02	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/10/15 18:02	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/10/15 18:02	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/10/15 18:02	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/10/15 18:02	1
1,2-Dichloroethane	ND		1.0		ug/L			04/10/15 18:02	1
1,2-Dichloropropane	ND		1.0		ug/L			04/10/15 18:02	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/10/15 18:02	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/10/15 18:02	1
1,3-Dichloropropane	ND		1.0		ug/L			04/10/15 18:02	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/10/15 18:02	1
1,4-Dioxane	ND		50		ug/L			04/10/15 18:02	1
2,2-Dichloropropane	ND		1.0		ug/L			04/10/15 18:02	1
2-Butanone (MEK)	**160**	*	10		ug/L			04/10/15 18:02	1
2-Chlorotoluene	ND		1.0		ug/L			04/10/15 18:02	1
2-Hexanone	ND		10		ug/L			04/10/15 18:02	1
4-Chlorotoluene	ND		1.0		ug/L			04/10/15 18:02	1
4-Isopropyltoluene	ND		1.0		ug/L			04/10/15 18:02	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/10/15 18:02	1
Acetone	ND		50		ug/L			04/10/15 18:02	1
Benzene	ND		1.0		ug/L			04/10/15 18:02	1
Bromobenzene	ND		1.0		ug/L			04/10/15 18:02	1
Bromoform	ND		1.0		ug/L			04/10/15 18:02	1
Bromomethane	ND		2.0		ug/L			04/10/15 18:02	1
Carbon disulfide	ND		10		ug/L			04/10/15 18:02	1
Carbon tetrachloride	ND		1.0		ug/L			04/10/15 18:02	1
Chlorobenzene	ND		1.0		ug/L			04/10/15 18:02	1
Chlorobromomethane	ND		1.0		ug/L			04/10/15 18:02	1
Chlorodibromomethane	ND		0.50		ug/L			04/10/15 18:02	1
Chloroethane	ND		2.0		ug/L			04/10/15 18:02	1
Chloroform	ND		1.0		ug/L			04/10/15 18:02	1
Chloromethane	ND		2.0		ug/L			04/10/15 18:02	1
cis-1,2-Dichloroethene	**8.6**		1.0		ug/L			04/10/15 18:02	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/10/15 18:02	1
Dichlorobromomethane	ND		0.50		ug/L			04/10/15 18:02	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/10/15 18:02	1
Ethyl ether	ND		1.0		ug/L			04/10/15 18:02	1
Ethylbenzene	ND		1.0		ug/L			04/10/15 18:02	1
Ethylene Dibromide	ND		1.0		ug/L			04/10/15 18:02	1
Hexachlorobutadiene	ND		0.40		ug/L			04/10/15 18:02	1
Isopropyl ether	ND		10		ug/L			04/10/15 18:02	1
Isopropylbenzene	ND		1.0		ug/L			04/10/15 18:02	1

Client Sample ID: MW-267M-20150408

Lab Sample ID: 480-78021-9

Date Collected: 04/08/15 10:15

Matrix: Water

Date Received: 04/09/15 00:45

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			04/10/15 18:02	1
Methylene Chloride	ND		1.0		ug/L			04/10/15 18:02	1
m-Xylene & p-Xylene	**2.2**		2.0		ug/L			04/10/15 18:02	1
Naphthalene	ND		5.0		ug/L			04/10/15 18:02	1
n-Butylbenzene	ND		1.0		ug/L			04/10/15 18:02	1
N-Propylbenzene	ND		1.0		ug/L			04/10/15 18:02	1
o-Xylene	ND		1.0		ug/L			04/10/15 18:02	1
sec-Butylbenzene	ND		1.0		ug/L			04/10/15 18:02	1
Styrene	ND		1.0		ug/L			04/10/15 18:02	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/10/15 18:02	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/10/15 18:02	1
tert-Butylbenzene	ND		1.0		ug/L			04/10/15 18:02	1
Tetrachloroethene	ND		1.0		ug/L			04/10/15 18:02	1
Tetrahydrofuran	ND		10		ug/L			04/10/15 18:02	1
Toluene	**29**		1.0		ug/L			04/10/15 18:02	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/10/15 18:02	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/10/15 18:02	1
Trichloroethene	ND		1.0		ug/L			04/10/15 18:02	1
Trichlorofluoromethane	ND		1.0		ug/L			04/10/15 18:02	1
Vinyl chloride	**7.4**		1.0		ug/L			04/10/15 18:02	1
Dibromomethane	ND		1.0		ug/L			04/10/15 18:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*98*		*70 - 130*		*04/10/15 18:02*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 130*		*04/10/15 18:02*	*1*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*		*04/10/15 18:02*	*1*

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	**6.4**		0.20		ug/L		04/10/15 19:00	04/11/15 16:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*65*	*X*	*70 - 130*	*04/10/15 19:00*	*04/11/15 16:43*	*1*

Client Sample ID: MW-268S-20150408

Lab Sample ID: 480-78021-10

Date Collected: 04/07/15 13:50

Matrix: Water

Date Received: 04/09/15 00:45

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			04/10/15 18:26	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/10/15 18:26	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/10/15 18:26	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/10/15 18:26	1
1,1-Dichloroethane	**1.7**		1.0		ug/L			04/10/15 18:26	1
1,1-Dichloroethene	ND		1.0		ug/L			04/10/15 18:26	1
1,1-Dichloropropene	ND		1.0		ug/L			04/10/15 18:26	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/10/15 18:26	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/10/15 18:26	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/10/15 18:26	1

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

TestAmerica Job ID: 480-78021-1

Client Sample ID: MW-268S-20150408
Date Collected: 04/07/15 13:50
Date Received: 04/09/15 00:45

Lab Sample ID: 480-78021-10
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			04/10/15 18:26	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/10/15 18:26	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/10/15 18:26	1
1,2-Dichloroethane	ND		1.0		ug/L			04/10/15 18:26	1
1,2-Dichloropropane	ND		1.0		ug/L			04/10/15 18:26	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/10/15 18:26	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/10/15 18:26	1
1,3-Dichloropropane	ND		1.0		ug/L			04/10/15 18:26	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/10/15 18:26	1
1,4-Dioxane	ND		50		ug/L			04/10/15 18:26	1
2,2-Dichloropropane	ND		1.0		ug/L			04/10/15 18:26	1
2-Butanone (MEK)	ND	*	10		ug/L			04/10/15 18:26	1
2-Chlorotoluene	ND		1.0		ug/L			04/10/15 18:26	1
2-Hexanone	ND		10		ug/L			04/10/15 18:26	1
4-Chlorotoluene	ND		1.0		ug/L			04/10/15 18:26	1
4-Isopropyltoluene	ND		1.0		ug/L			04/10/15 18:26	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/10/15 18:26	1
Acetone	ND		50		ug/L			04/10/15 18:26	1
Benzene	**1.0**		1.0		ug/L			04/10/15 18:26	1
Bromobenzene	ND		1.0		ug/L			04/10/15 18:26	1
Bromoform	ND		1.0		ug/L			04/10/15 18:26	1
Bromomethane	ND		2.0		ug/L			04/10/15 18:26	1
Carbon disulfide	ND		10		ug/L			04/10/15 18:26	1
Carbon tetrachloride	ND		1.0		ug/L			04/10/15 18:26	1
Chlorobenzene	ND		1.0		ug/L			04/10/15 18:26	1
Chlorobromomethane	ND		1.0		ug/L			04/10/15 18:26	1
Chlorodibromomethane	ND		0.50		ug/L			04/10/15 18:26	1
Chloroethane	ND		2.0		ug/L			04/10/15 18:26	1
Chloroform	ND		1.0		ug/L			04/10/15 18:26	1
Chloromethane	ND		2.0		ug/L			04/10/15 18:26	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/10/15 18:26	1
Dichlorobromomethane	ND		0.50		ug/L			04/10/15 18:26	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/10/15 18:26	1
Ethyl ether	ND		1.0		ug/L			04/10/15 18:26	1
Ethylbenzene	ND		1.0		ug/L			04/10/15 18:26	1
Ethylene Dibromide	ND		1.0		ug/L			04/10/15 18:26	1
Hexachlorobutadiene	ND		0.40		ug/L			04/10/15 18:26	1
Isopropyl ether	ND		10		ug/L			04/10/15 18:26	1
Isopropylbenzene	ND		1.0		ug/L			04/10/15 18:26	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/10/15 18:26	1
Methylene Chloride	ND		1.0		ug/L			04/10/15 18:26	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/10/15 18:26	1
Naphthalene	ND		5.0		ug/L			04/10/15 18:26	1
n-Butylbenzene	ND		1.0		ug/L			04/10/15 18:26	1
N-Propylbenzene	ND		1.0		ug/L			04/10/15 18:26	1
o-Xylene	ND		1.0		ug/L			04/10/15 18:26	1
sec-Butylbenzene	ND		1.0		ug/L			04/10/15 18:26	1
Styrene	ND		1.0		ug/L			04/10/15 18:26	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/10/15 18:26	1

Client Sample ID: MW-268S-20150408

Lab Sample ID: 480-78021-10

Date Collected: 04/07/15 13:50

Matrix: Water

Date Received: 04/09/15 00:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tert-butyl ethyl ether	ND		5.0		ug/L			04/10/15 18:26	1
tert-Butylbenzene	ND		1.0		ug/L			04/10/15 18:26	1
Tetrachloroethene	ND		1.0		ug/L			04/10/15 18:26	1
Tetrahydrofuran	ND		10		ug/L			04/10/15 18:26	1
Toluene	ND		1.0		ug/L			04/10/15 18:26	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/10/15 18:26	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/10/15 18:26	1
Trichlorofluoromethane	ND		1.0		ug/L			04/10/15 18:26	1
Vinyl chloride	**9.5**		1.0		ug/L			04/10/15 18:26	1
Dibromomethane	ND		1.0		ug/L			04/10/15 18:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*97*		*70 - 130*		*04/10/15 18:26*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 130*		*04/10/15 18:26*	*1*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*		*04/10/15 18:26*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	**180**		4.0		ug/L			04/11/15 02:51	4
Trichloroethene	**140**		4.0		ug/L			04/11/15 02:51	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*98*		*70 - 130*		*04/11/15 02:51*	*4*
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 130*		*04/11/15 02:51*	*4*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*		*04/11/15 02:51*	*4*

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	**13**		0.20		ug/L		04/10/15 19:00	04/11/15 17:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*87*		*70 - 130*	*04/10/15 19:00*	*04/11/15 17:02*	*1*

Client Sample ID: MW-268M-20150408

Lab Sample ID: 480-78021-11

Date Collected: 04/07/15 12:25

Matrix: Water

Date Received: 04/09/15 00:45

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			04/10/15 18:50	40
1,1,1-Trichloroethane	ND		40		ug/L			04/10/15 18:50	40
1,1,2,2-Tetrachloroethane	ND		20		ug/L			04/10/15 18:50	40
1,1,2-Trichloroethane	ND		40		ug/L			04/10/15 18:50	40
1,1-Dichloroethane	ND		40		ug/L			04/10/15 18:50	40
1,1-Dichloroethene	ND		40		ug/L			04/10/15 18:50	40
1,1-Dichloropropene	ND		40		ug/L			04/10/15 18:50	40
1,2,3-Trichlorobenzene	ND		40		ug/L			04/10/15 18:50	40
1,2,3-Trichloropropane	ND		40		ug/L			04/10/15 18:50	40
1,2,4-Trichlorobenzene	ND		40		ug/L			04/10/15 18:50	40
1,2,4-Trimethylbenzene	ND		40		ug/L			04/10/15 18:50	40
1,2-Dibromo-3-Chloropropane	ND		200		ug/L			04/10/15 18:50	40

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

TestAmerica Job ID: 480-78021-1

Client Sample ID: MW-268M-20150408
Date Collected: 04/07/15 12:25
Date Received: 04/09/15 00:45

Lab Sample ID: 480-78021-11
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	ND		40		ug/L			04/10/15 18:50	40
1,2-Dichloroethane	ND		40		ug/L			04/10/15 18:50	40
1,2-Dichloropropane	ND		40		ug/L			04/10/15 18:50	40
1,3,5-Trimethylbenzene	ND		40		ug/L			04/10/15 18:50	40
1,3-Dichlorobenzene	ND		40		ug/L			04/10/15 18:50	40
1,3-Dichloropropane	ND		40		ug/L			04/10/15 18:50	40
1,4-Dichlorobenzene	ND		40		ug/L			04/10/15 18:50	40
1,4-Dioxane	ND		2000		ug/L			04/10/15 18:50	40
2,2-Dichloropropane	ND		40		ug/L			04/10/15 18:50	40
2-Butanone (MEK)	ND	*	400		ug/L			04/10/15 18:50	40
2-Chlorotoluene	ND		40		ug/L			04/10/15 18:50	40
2-Hexanone	ND		400		ug/L			04/10/15 18:50	40
4-Chlorotoluene	ND		40		ug/L			04/10/15 18:50	40
4-Isopropyltoluene	ND		40		ug/L			04/10/15 18:50	40
4-Methyl-2-pentanone (MIBK)	ND		400		ug/L			04/10/15 18:50	40
Acetone	ND		2000		ug/L			04/10/15 18:50	40
Benzene	ND		40		ug/L			04/10/15 18:50	40
Bromobenzene	ND		40		ug/L			04/10/15 18:50	40
Bromoform	ND		40		ug/L			04/10/15 18:50	40
Bromomethane	ND		80		ug/L			04/10/15 18:50	40
Carbon disulfide	ND		400		ug/L			04/10/15 18:50	40
Carbon tetrachloride	ND		40		ug/L			04/10/15 18:50	40
Chlorobenzene	ND		40		ug/L			04/10/15 18:50	40
Chlorobromomethane	ND		40		ug/L			04/10/15 18:50	40
Chlorodibromomethane	ND		20		ug/L			04/10/15 18:50	40
Chloroethane	ND		80		ug/L			04/10/15 18:50	40
Chloroform	ND		40		ug/L			04/10/15 18:50	40
Chloromethane	ND		80		ug/L			04/10/15 18:50	40
cis-1,2-Dichloroethene	**2500**		40		ug/L			04/10/15 18:50	40
cis-1,3-Dichloropropene	ND		16		ug/L			04/10/15 18:50	40
Dichlorobromomethane	ND		20		ug/L			04/10/15 18:50	40
Dichlorodifluoromethane	ND		40		ug/L			04/10/15 18:50	40
Ethyl ether	ND		40		ug/L			04/10/15 18:50	40
Ethylbenzene	ND		40		ug/L			04/10/15 18:50	40
Ethylene Dibromide	ND		40		ug/L			04/10/15 18:50	40
Hexachlorobutadiene	ND		16		ug/L			04/10/15 18:50	40
Isopropyl ether	ND		400		ug/L			04/10/15 18:50	40
Isopropylbenzene	ND		40		ug/L			04/10/15 18:50	40
Methyl tert-butyl ether	ND		40		ug/L			04/10/15 18:50	40
Methylene Chloride	ND		40		ug/L			04/10/15 18:50	40
m-Xylene & p-Xylene	ND		80		ug/L			04/10/15 18:50	40
Naphthalene	ND		200		ug/L			04/10/15 18:50	40
n-Butylbenzene	ND		40		ug/L			04/10/15 18:50	40
N-Propylbenzene	ND		40		ug/L			04/10/15 18:50	40
o-Xylene	ND		40		ug/L			04/10/15 18:50	40
sec-Butylbenzene	ND		40		ug/L			04/10/15 18:50	40
Styrene	ND		40		ug/L			04/10/15 18:50	40
Tert-amyl methyl ether	ND		200		ug/L			04/10/15 18:50	40
Tert-butyl ethyl ether	ND		200		ug/L			04/10/15 18:50	40

Client Sample ID: MW-268M-20150408

Lab Sample ID: 480-78021-11

Date Collected: 04/07/15 12:25

Matrix: Water

Date Received: 04/09/15 00:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
tert-Butylbenzene	ND		40		ug/L			04/10/15 18:50	40
Tetrachloroethene	ND		40		ug/L			04/10/15 18:50	40
Tetrahydrofuran	ND		400		ug/L			04/10/15 18:50	40
Toluene	ND		40		ug/L			04/10/15 18:50	40
trans-1,2-Dichloroethene	ND		40		ug/L			04/10/15 18:50	40
trans-1,3-Dichloropropene	ND		16		ug/L			04/10/15 18:50	40
Trichloroethene	**1500**		40		ug/L			04/10/15 18:50	40
Trichlorofluoromethane	ND		40		ug/L			04/10/15 18:50	40
Vinyl chloride	**190**		40		ug/L			04/10/15 18:50	40
Dibromomethane	ND		40		ug/L			04/10/15 18:50	40

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*96*		*70 - 130*		*04/10/15 18:50*	*40*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 130*		*04/10/15 18:50*	*40*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*		*04/10/15 18:50*	*40*

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	**13**		0.20		ug/L		04/10/15 19:00	04/11/15 17:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*77*		*70 - 130*	*04/10/15 19:00*	*04/11/15 17:21*	*1*

Client Sample ID: MW-268D-20150408

Lab Sample ID: 480-78021-12

Date Collected: 04/08/15 09:05

Matrix: Water

Date Received: 04/09/15 00:45

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			04/10/15 19:14	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/10/15 19:14	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/10/15 19:14	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/10/15 19:14	1
1,1-Dichloroethane	ND		1.0		ug/L			04/10/15 19:14	1
1,1-Dichloroethene	ND		1.0		ug/L			04/10/15 19:14	1
1,1-Dichloropropene	ND		1.0		ug/L			04/10/15 19:14	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/10/15 19:14	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/10/15 19:14	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/10/15 19:14	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/10/15 19:14	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/10/15 19:14	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/10/15 19:14	1
1,2-Dichloroethane	ND		1.0		ug/L			04/10/15 19:14	1
1,2-Dichloropropane	ND		1.0		ug/L			04/10/15 19:14	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/10/15 19:14	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/10/15 19:14	1
1,3-Dichloropropane	ND		1.0		ug/L			04/10/15 19:14	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/10/15 19:14	1
1,4-Dioxane	ND		50		ug/L			04/10/15 19:14	1
2,2-Dichloropropane	ND		1.0		ug/L			04/10/15 19:14	1

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

TestAmerica Job ID: 480-78021-1

Client Sample ID: MW-268D-20150408
Date Collected: 04/08/15 09:05
Date Received: 04/09/15 00:45

Lab Sample ID: 480-78021-12
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone (MEK)	ND	*	10		ug/L			04/10/15 19:14	1
2-Chlorotoluene	ND		1.0		ug/L			04/10/15 19:14	1
2-Hexanone	ND		10		ug/L			04/10/15 19:14	1
4-Chlorotoluene	ND		1.0		ug/L			04/10/15 19:14	1
4-Isopropyltoluene	ND		1.0		ug/L			04/10/15 19:14	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/10/15 19:14	1
Acetone	ND		50		ug/L			04/10/15 19:14	1
Benzene	ND		1.0		ug/L			04/10/15 19:14	1
Bromobenzene	ND		1.0		ug/L			04/10/15 19:14	1
Bromoform	ND		1.0		ug/L			04/10/15 19:14	1
Bromomethane	ND		2.0		ug/L			04/10/15 19:14	1
Carbon disulfide	ND		10		ug/L			04/10/15 19:14	1
Carbon tetrachloride	ND		1.0		ug/L			04/10/15 19:14	1
Chlorobenzene	ND		1.0		ug/L			04/10/15 19:14	1
Chlorobromomethane	ND		1.0		ug/L			04/10/15 19:14	1
Chlorodibromomethane	ND		0.50		ug/L			04/10/15 19:14	1
Chloroethane	ND		2.0		ug/L			04/10/15 19:14	1
Chloroform	ND		1.0		ug/L			04/10/15 19:14	1
Chloromethane	ND		2.0		ug/L			04/10/15 19:14	1
cis-1,2-Dichloroethene	**1.4**		1.0		ug/L			04/10/15 19:14	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/10/15 19:14	1
Dichlorobromomethane	ND		0.50		ug/L			04/10/15 19:14	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/10/15 19:14	1
Ethyl ether	ND		1.0		ug/L			04/10/15 19:14	1
Ethylbenzene	ND		1.0		ug/L			04/10/15 19:14	1
Ethylene Dibromide	ND		1.0		ug/L			04/10/15 19:14	1
Hexachlorobutadiene	ND		0.40		ug/L			04/10/15 19:14	1
Isopropyl ether	ND		10		ug/L			04/10/15 19:14	1
Isopropylbenzene	ND		1.0		ug/L			04/10/15 19:14	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/10/15 19:14	1
Methylene Chloride	ND		1.0		ug/L			04/10/15 19:14	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/10/15 19:14	1
Naphthalene	ND		5.0		ug/L			04/10/15 19:14	1
n-Butylbenzene	ND		1.0		ug/L			04/10/15 19:14	1
N-Propylbenzene	ND		1.0		ug/L			04/10/15 19:14	1
o-Xylene	ND		1.0		ug/L			04/10/15 19:14	1
sec-Butylbenzene	ND		1.0		ug/L			04/10/15 19:14	1
Styrene	ND		1.0		ug/L			04/10/15 19:14	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/10/15 19:14	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/10/15 19:14	1
tert-Butylbenzene	ND		1.0		ug/L			04/10/15 19:14	1
Tetrachloroethene	ND		1.0		ug/L			04/10/15 19:14	1
Tetrahydrofuran	ND		10		ug/L			04/10/15 19:14	1
Toluene	**1.8**		1.0		ug/L			04/10/15 19:14	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/10/15 19:14	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/10/15 19:14	1
Trichloroethene	ND		1.0		ug/L			04/10/15 19:14	1
Trichlorofluoromethane	ND		1.0		ug/L			04/10/15 19:14	1
Vinyl chloride	ND		1.0		ug/L			04/10/15 19:14	1

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

TestAmerica Job ID: 480-78021-1

Client Sample ID: MW-268D-20150408

Lab Sample ID: 480-78021-12

Date Collected: 04/08/15 09:05

Matrix: Water

Date Received: 04/09/15 00:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibromomethane	ND		1.0		ug/L			04/10/15 19:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*97*		*70 - 130*		*04/10/15 19:14*	*1*
1,2-Dichloroethane-d4 (Surr)	*104*		*70 - 130*		*04/10/15 19:14*	*1*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*04/10/15 19:14*	*1*

Client Sample ID: MW-269Ma-20150408

Lab Sample ID: 480-78021-13

Date Collected: 04/08/15 11:50

Matrix: Water

Date Received: 04/09/15 00:45

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			04/10/15 19:38	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/10/15 19:38	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/10/15 19:38	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/10/15 19:38	1
1,1-Dichloroethane	ND		1.0		ug/L			04/10/15 19:38	1
1,1-Dichloroethene	ND		1.0		ug/L			04/10/15 19:38	1
1,1-Dichloropropene	ND		1.0		ug/L			04/10/15 19:38	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/10/15 19:38	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/10/15 19:38	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/10/15 19:38	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/10/15 19:38	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/10/15 19:38	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/10/15 19:38	1
1,2-Dichloroethane	ND		1.0		ug/L			04/10/15 19:38	1
1,2-Dichloropropane	ND		1.0		ug/L			04/10/15 19:38	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/10/15 19:38	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/10/15 19:38	1
1,3-Dichloropropane	ND		1.0		ug/L			04/10/15 19:38	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/10/15 19:38	1
1,4-Dioxane	ND		50		ug/L			04/10/15 19:38	1
2,2-Dichloropropane	ND		1.0		ug/L			04/10/15 19:38	1
2-Butanone (MEK)	ND	*	10		ug/L			04/10/15 19:38	1
2-Chlorotoluene	ND		1.0		ug/L			04/10/15 19:38	1
2-Hexanone	ND		10		ug/L			04/10/15 19:38	1
4-Chlorotoluene	ND		1.0		ug/L			04/10/15 19:38	1
4-Isopropyltoluene	ND		1.0		ug/L			04/10/15 19:38	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/10/15 19:38	1
Acetone	ND		50		ug/L			04/10/15 19:38	1
Benzene	ND		1.0		ug/L			04/10/15 19:38	1
Bromobenzene	ND		1.0		ug/L			04/10/15 19:38	1
Bromoform	ND		1.0		ug/L			04/10/15 19:38	1
Bromomethane	ND		2.0		ug/L			04/10/15 19:38	1
Carbon disulfide	ND		10		ug/L			04/10/15 19:38	1
Carbon tetrachloride	ND		1.0		ug/L			04/10/15 19:38	1
Chlorobenzene	ND		1.0		ug/L			04/10/15 19:38	1
Chlorobromomethane	ND		1.0		ug/L			04/10/15 19:38	1
Chlorodibromomethane	ND		0.50		ug/L			04/10/15 19:38	1

Client Sample ID: MW-269Ma-20150408
Date Collected: 04/08/15 11:50
Date Received: 04/09/15 00:45

Lab Sample ID: 480-78021-13
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroethane	ND		2.0		ug/L			04/10/15 19:38	1
Chloroform	ND		1.0		ug/L			04/10/15 19:38	1
Chloromethane	ND		2.0		ug/L			04/10/15 19:38	1
cis-1,2-Dichloroethene	**3.6**		1.0		ug/L			04/10/15 19:38	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/10/15 19:38	1
Dichlorobromomethane	ND		0.50		ug/L			04/10/15 19:38	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/10/15 19:38	1
Ethyl ether	ND		1.0		ug/L			04/10/15 19:38	1
Ethylbenzene	ND		1.0		ug/L			04/10/15 19:38	1
Ethylene Dibromide	ND		1.0		ug/L			04/10/15 19:38	1
Hexachlorobutadiene	ND		0.40		ug/L			04/10/15 19:38	1
Isopropyl ether	ND		10		ug/L			04/10/15 19:38	1
Isopropylbenzene	ND		1.0		ug/L			04/10/15 19:38	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/10/15 19:38	1
Methylene Chloride	ND		1.0		ug/L			04/10/15 19:38	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/10/15 19:38	1
Naphthalene	ND		5.0		ug/L			04/10/15 19:38	1
n-Butylbenzene	ND		1.0		ug/L			04/10/15 19:38	1
N-Propylbenzene	ND		1.0		ug/L			04/10/15 19:38	1
o-Xylene	ND		1.0		ug/L			04/10/15 19:38	1
sec-Butylbenzene	ND		1.0		ug/L			04/10/15 19:38	1
Styrene	ND		1.0		ug/L			04/10/15 19:38	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/10/15 19:38	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/10/15 19:38	1
tert-Butylbenzene	ND		1.0		ug/L			04/10/15 19:38	1
Tetrachloroethene	ND		1.0		ug/L			04/10/15 19:38	1
Tetrahydrofuran	ND		10		ug/L			04/10/15 19:38	1
Toluene	ND		1.0		ug/L			04/10/15 19:38	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/10/15 19:38	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/10/15 19:38	1
Trichloroethene	**3.4**		1.0		ug/L			04/10/15 19:38	1
Trichlorofluoromethane	ND		1.0		ug/L			04/10/15 19:38	1
Vinyl chloride	ND		1.0		ug/L			04/10/15 19:38	1
Dibromomethane	ND		1.0		ug/L			04/10/15 19:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*97*		*70 - 130*		*04/10/15 19:38*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 130*		*04/10/15 19:38*	*1*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*		*04/10/15 19:38*	*1*

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	**1.4**		0.20		ug/L		04/10/15 19:00	04/11/15 18:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*89*		*70 - 130*	*04/10/15 19:00*	*04/11/15 18:00*	*1*

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

TestAmerica Job ID: 480-78021-1

Client Sample ID: MW-551-20150408
Date Collected: 04/08/15 10:20
Date Received: 04/09/15 00:45

Lab Sample ID: 480-78021-14
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			04/10/15 20:01	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/10/15 20:01	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/10/15 20:01	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/10/15 20:01	1
1,1-Dichloroethane	ND		1.0		ug/L			04/10/15 20:01	1
1,1-Dichloroethene	ND		1.0		ug/L			04/10/15 20:01	1
1,1-Dichloropropene	ND		1.0		ug/L			04/10/15 20:01	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/10/15 20:01	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/10/15 20:01	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/10/15 20:01	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/10/15 20:01	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/10/15 20:01	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/10/15 20:01	1
1,2-Dichloroethane	ND		1.0		ug/L			04/10/15 20:01	1
1,2-Dichloropropane	ND		1.0		ug/L			04/10/15 20:01	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/10/15 20:01	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/10/15 20:01	1
1,3-Dichloropropane	ND		1.0		ug/L			04/10/15 20:01	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/10/15 20:01	1
1,4-Dioxane	ND		50		ug/L			04/10/15 20:01	1
2,2-Dichloropropane	ND		1.0		ug/L			04/10/15 20:01	1
2-Butanone (MEK)	**15**	*	10		ug/L			04/10/15 20:01	1
2-Chlorotoluene	ND		1.0		ug/L			04/10/15 20:01	1
2-Hexanone	ND		10		ug/L			04/10/15 20:01	1
4-Chlorotoluene	ND		1.0		ug/L			04/10/15 20:01	1
4-Isopropyltoluene	ND		1.0		ug/L			04/10/15 20:01	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/10/15 20:01	1
Benzene	ND		1.0		ug/L			04/10/15 20:01	1
Bromobenzene	ND		1.0		ug/L			04/10/15 20:01	1
Bromoform	ND		1.0		ug/L			04/10/15 20:01	1
Bromomethane	ND		2.0		ug/L			04/10/15 20:01	1
Carbon disulfide	ND		10		ug/L			04/10/15 20:01	1
Carbon tetrachloride	ND		1.0		ug/L			04/10/15 20:01	1
Chlorobenzene	ND		1.0		ug/L			04/10/15 20:01	1
Chlorobromomethane	ND		1.0		ug/L			04/10/15 20:01	1
Chlorodibromomethane	ND		0.50		ug/L			04/10/15 20:01	1
Chloroethane	ND		2.0		ug/L			04/10/15 20:01	1
Chloroform	ND		1.0		ug/L			04/10/15 20:01	1
Chloromethane	ND		2.0		ug/L			04/10/15 20:01	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			04/10/15 20:01	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/10/15 20:01	1
Dichlorobromomethane	ND		0.50		ug/L			04/10/15 20:01	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/10/15 20:01	1
Ethyl ether	ND		1.0		ug/L			04/10/15 20:01	1
Ethylbenzene	**3.5**		1.0		ug/L			04/10/15 20:01	1
Ethylene Dibromide	ND		1.0		ug/L			04/10/15 20:01	1
Hexachlorobutadiene	ND		0.40		ug/L			04/10/15 20:01	1
Isopropyl ether	ND		10		ug/L			04/10/15 20:01	1
Isopropylbenzene	ND		1.0		ug/L			04/10/15 20:01	1

Client Sample ID: MW-551-20150408

Lab Sample ID: 480-78021-14

Date Collected: 04/08/15 10:20

Matrix: Water

Date Received: 04/09/15 00:45

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			04/10/15 20:01	1
Methylene Chloride	ND		1.0		ug/L			04/10/15 20:01	1
m-Xylene & p-Xylene	**10**		2.0		ug/L			04/10/15 20:01	1
Naphthalene	ND		5.0		ug/L			04/10/15 20:01	1
n-Butylbenzene	ND		1.0		ug/L			04/10/15 20:01	1
N-Propylbenzene	ND		1.0		ug/L			04/10/15 20:01	1
o-Xylene	**1.1**		1.0		ug/L			04/10/15 20:01	1
sec-Butylbenzene	ND		1.0		ug/L			04/10/15 20:01	1
Styrene	ND		1.0		ug/L			04/10/15 20:01	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/10/15 20:01	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/10/15 20:01	1
tert-Butylbenzene	ND		1.0		ug/L			04/10/15 20:01	1
Tetrachloroethene	ND		1.0		ug/L			04/10/15 20:01	1
Tetrahydrofuran	ND		10		ug/L			04/10/15 20:01	1
Toluene	**9.3**		1.0		ug/L			04/10/15 20:01	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/10/15 20:01	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/10/15 20:01	1
Trichloroethene	ND		1.0		ug/L			04/10/15 20:01	1
Trichlorofluoromethane	ND		1.0		ug/L			04/10/15 20:01	1
Vinyl chloride	ND		1.0		ug/L			04/10/15 20:01	1
Dibromomethane	ND		1.0		ug/L			04/10/15 20:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*98*		*70 - 130*		*04/10/15 20:01*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 130*		*04/10/15 20:01*	*1*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*		*04/10/15 20:01*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**650**		100		ug/L			04/11/15 03:15	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*97*		*70 - 130*		*04/11/15 03:15*	*2*
1,2-Dichloroethane-d4 (Surr)	*105*		*70 - 130*		*04/11/15 03:15*	*2*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*		*04/11/15 03:15*	*2*

Client Sample ID: MW-552-20150408

Lab Sample ID: 480-78021-15

Date Collected: 04/08/15 09:35

Matrix: Water

Date Received: 04/09/15 00:45

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			04/14/15 03:19	2
1,1,1-Trichloroethane	ND		2.0		ug/L			04/14/15 03:19	2
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			04/14/15 03:19	2
1,1,2-Trichloroethane	ND		2.0		ug/L			04/14/15 03:19	2
1,1-Dichloroethane	ND		2.0		ug/L			04/14/15 03:19	2
1,1-Dichloroethene	ND		2.0		ug/L			04/14/15 03:19	2
1,1-Dichloropropene	ND		2.0		ug/L			04/14/15 03:19	2
1,2,3-Trichlorobenzene	ND		2.0		ug/L			04/14/15 03:19	2

Client Sample ID: MW-552-20150408
Date Collected: 04/08/15 09:35
Date Received: 04/09/15 00:45

Lab Sample ID: 480-78021-15
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		2.0		ug/L			04/14/15 03:19	2
1,2,4-Trichlorobenzene	ND		2.0		ug/L			04/14/15 03:19	2
1,2,4-Trimethylbenzene	ND		2.0		ug/L			04/14/15 03:19	2
1,2-Dibromo-3-Chloropropane	ND		10		ug/L			04/14/15 03:19	2
1,2-Dichlorobenzene	ND		2.0		ug/L			04/14/15 03:19	2
1,2-Dichloroethane	ND		2.0		ug/L			04/14/15 03:19	2
1,2-Dichloropropane	ND		2.0		ug/L			04/14/15 03:19	2
1,3,5-Trimethylbenzene	ND		2.0		ug/L			04/14/15 03:19	2
1,3-Dichlorobenzene	ND		2.0		ug/L			04/14/15 03:19	2
1,3-Dichloropropane	ND		2.0		ug/L			04/14/15 03:19	2
1,4-Dichlorobenzene	ND		2.0		ug/L			04/14/15 03:19	2
1,4-Dioxane	ND	*	100		ug/L			04/14/15 03:19	2
2,2-Dichloropropane	ND		2.0		ug/L			04/14/15 03:19	2
2-Butanone (MEK)	ND	*	20		ug/L			04/14/15 03:19	2
2-Chlorotoluene	ND		2.0		ug/L			04/14/15 03:19	2
2-Hexanone	ND		20		ug/L			04/14/15 03:19	2
4-Chlorotoluene	ND		2.0		ug/L			04/14/15 03:19	2
4-Isopropyltoluene	ND		2.0		ug/L			04/14/15 03:19	2
4-Methyl-2-pentanone (MIBK)	ND		20		ug/L			04/14/15 03:19	2
Acetone	**290**		100		ug/L			04/14/15 03:19	2
Benzene	ND		2.0		ug/L			04/14/15 03:19	2
Bromobenzene	ND		2.0		ug/L			04/14/15 03:19	2
Bromoform	ND		2.0		ug/L			04/14/15 03:19	2
Bromomethane	ND		4.0		ug/L			04/14/15 03:19	2
Carbon disulfide	ND		20		ug/L			04/14/15 03:19	2
Carbon tetrachloride	ND		2.0		ug/L			04/14/15 03:19	2
Chlorobenzene	ND		2.0		ug/L			04/14/15 03:19	2
Chlorobromomethane	ND		2.0		ug/L			04/14/15 03:19	2
Chlorodibromomethane	ND		1.0		ug/L			04/14/15 03:19	2
Chloroethane	ND		4.0		ug/L			04/14/15 03:19	2
Chloroform	ND		2.0		ug/L			04/14/15 03:19	2
Chloromethane	ND		4.0		ug/L			04/14/15 03:19	2
cis-1,2-Dichloroethene	**2.8**		2.0		ug/L			04/14/15 03:19	2
cis-1,3-Dichloropropene	ND		0.80		ug/L			04/14/15 03:19	2
Dichlorobromomethane	ND		1.0		ug/L			04/14/15 03:19	2
Dichlorodifluoromethane	ND		2.0		ug/L			04/14/15 03:19	2
Ethyl ether	ND		2.0		ug/L			04/14/15 03:19	2
Ethylbenzene	ND		2.0		ug/L			04/14/15 03:19	2
Ethylene Dibromide	ND		2.0		ug/L			04/14/15 03:19	2
Hexachlorobutadiene	ND		0.80		ug/L			04/14/15 03:19	2
Isopropyl ether	ND		20		ug/L			04/14/15 03:19	2
Isopropylbenzene	ND		2.0		ug/L			04/14/15 03:19	2
Methyl tert-butyl ether	ND		2.0		ug/L			04/14/15 03:19	2
Methylene Chloride	ND		2.0		ug/L			04/14/15 03:19	2
m-Xylene & p-Xylene	ND		4.0		ug/L			04/14/15 03:19	2
Naphthalene	ND		10		ug/L			04/14/15 03:19	2
n-Butylbenzene	ND		2.0		ug/L			04/14/15 03:19	2
N-Propylbenzene	ND		2.0		ug/L			04/14/15 03:19	2
o-Xylene	ND		2.0		ug/L			04/14/15 03:19	2

Client Sample ID: MW-552-20150408

Lab Sample ID: 480-78021-15

Date Collected: 04/08/15 09:35

Matrix: Water

Date Received: 04/09/15 00:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		2.0		ug/L			04/14/15 03:19	2
Styrene	ND		2.0		ug/L			04/14/15 03:19	2
Tert-amyl methyl ether	ND		10		ug/L			04/14/15 03:19	2
Tert-butyl ethyl ether	ND		10		ug/L			04/14/15 03:19	2
tert-Butylbenzene	ND		2.0		ug/L			04/14/15 03:19	2
Tetrachloroethene	ND		2.0		ug/L			04/14/15 03:19	2
Tetrahydrofuran	ND		20		ug/L			04/14/15 03:19	2
Toluene	**2.9**		2.0		ug/L			04/14/15 03:19	2
trans-1,2-Dichloroethene	ND		2.0		ug/L			04/14/15 03:19	2
trans-1,3-Dichloropropene	ND		0.80		ug/L			04/14/15 03:19	2
Trichloroethene	ND		2.0		ug/L			04/14/15 03:19	2
Trichlorofluoromethane	ND		2.0		ug/L			04/14/15 03:19	2
Vinyl chloride	ND		2.0		ug/L			04/14/15 03:19	2
Dibromomethane	ND		2.0		ug/L			04/14/15 03:19	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*96*		*70 - 130*		*04/14/15 03:19*	*2*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 130*		*04/14/15 03:19*	*2*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*		*04/14/15 03:19*	*2*

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	**3.9**		0.20		ug/L		04/10/15 19:00	04/11/15 18:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*89*		*70 - 130*	*04/10/15 19:00*	*04/11/15 18:19*	*1*

Client Sample ID: MW-553-20150408

Lab Sample ID: 480-78021-16

Date Collected: 04/08/15 09:00

Matrix: Water

Date Received: 04/09/15 00:45

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			04/11/15 04:03	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/11/15 04:03	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/11/15 04:03	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/11/15 04:03	1
1,1-Dichloroethane	ND		1.0		ug/L			04/11/15 04:03	1
1,1-Dichloroethene	ND		1.0		ug/L			04/11/15 04:03	1
1,1-Dichloropropene	ND		1.0		ug/L			04/11/15 04:03	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/11/15 04:03	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/11/15 04:03	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/11/15 04:03	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/11/15 04:03	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/11/15 04:03	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/11/15 04:03	1
1,2-Dichloroethane	ND		1.0		ug/L			04/11/15 04:03	1
1,2-Dichloropropane	ND		1.0		ug/L			04/11/15 04:03	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/11/15 04:03	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/11/15 04:03	1

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

TestAmerica Job ID: 480-78021-1

Client Sample ID: MW-553-20150408
Date Collected: 04/08/15 09:00
Date Received: 04/09/15 00:45

Lab Sample ID: 480-78021-16
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			04/11/15 04:03	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/11/15 04:03	1
1,4-Dioxane	ND	*	50		ug/L			04/11/15 04:03	1
2,2-Dichloropropane	ND		1.0		ug/L			04/11/15 04:03	1
2-Butanone (MEK)	ND	*	10		ug/L			04/11/15 04:03	1
2-Chlorotoluene	ND		1.0		ug/L			04/11/15 04:03	1
2-Hexanone	ND		10		ug/L			04/11/15 04:03	1
4-Chlorotoluene	ND		1.0		ug/L			04/11/15 04:03	1
4-Isopropyltoluene	ND		1.0		ug/L			04/11/15 04:03	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/11/15 04:03	1
Acetone	ND		50		ug/L			04/11/15 04:03	1
Benzene	ND		1.0		ug/L			04/11/15 04:03	1
Bromobenzene	ND		1.0		ug/L			04/11/15 04:03	1
Bromoform	ND		1.0		ug/L			04/11/15 04:03	1
Bromomethane	ND		2.0		ug/L			04/11/15 04:03	1
Carbon disulfide	ND		10		ug/L			04/11/15 04:03	1
Carbon tetrachloride	ND		1.0		ug/L			04/11/15 04:03	1
Chlorobenzene	ND		1.0		ug/L			04/11/15 04:03	1
Chlorobromomethane	ND		1.0		ug/L			04/11/15 04:03	1
Chlorodibromomethane	ND		0.50		ug/L			04/11/15 04:03	1
Chloroethane	ND		2.0		ug/L			04/11/15 04:03	1
Chloroform	ND		1.0		ug/L			04/11/15 04:03	1
Chloromethane	ND		2.0		ug/L			04/11/15 04:03	1
cis-1,2-Dichloroethene	**3.6**		1.0		ug/L			04/11/15 04:03	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/11/15 04:03	1
Dichlorobromomethane	ND		0.50		ug/L			04/11/15 04:03	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/11/15 04:03	1
Ethyl ether	ND		1.0		ug/L			04/11/15 04:03	1
Ethylbenzene	**6.3**		1.0		ug/L			04/11/15 04:03	1
Ethylene Dibromide	ND		1.0		ug/L			04/11/15 04:03	1
Hexachlorobutadiene	ND		0.40		ug/L			04/11/15 04:03	1
Isopropyl ether	ND		10		ug/L			04/11/15 04:03	1
Isopropylbenzene	ND		1.0		ug/L			04/11/15 04:03	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/11/15 04:03	1
Methylene Chloride	ND		1.0		ug/L			04/11/15 04:03	1
m-Xylene & p-Xylene	**27**		2.0		ug/L			04/11/15 04:03	1
Naphthalene	ND		5.0		ug/L			04/11/15 04:03	1
n-Butylbenzene	ND		1.0		ug/L			04/11/15 04:03	1
N-Propylbenzene	ND		1.0		ug/L			04/11/15 04:03	1
o-Xylene	**4.5**		1.0		ug/L			04/11/15 04:03	1
sec-Butylbenzene	ND		1.0		ug/L			04/11/15 04:03	1
Styrene	ND		1.0		ug/L			04/11/15 04:03	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/11/15 04:03	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/11/15 04:03	1
tert-Butylbenzene	ND		1.0		ug/L			04/11/15 04:03	1
Tetrachloroethene	ND		1.0		ug/L			04/11/15 04:03	1
Tetrahydrofuran	**12**	*	10		ug/L			04/11/15 04:03	1
Toluene	**19**		1.0		ug/L			04/11/15 04:03	1
trans-1,2-Dichloroethene	**1.1**		1.0		ug/L			04/11/15 04:03	1

Client Sample ID: MW-553-20150408

Lab Sample ID: 480-78021-16

Date Collected: 04/08/15 09:00

Matrix: Water

Date Received: 04/09/15 00:45

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			04/11/15 04:03	1
Trichloroethene	ND		1.0		ug/L			04/11/15 04:03	1
Trichlorofluoromethane	ND		1.0		ug/L			04/11/15 04:03	1
Vinyl chloride	**26**		1.0		ug/L			04/11/15 04:03	1
Dibromomethane	ND		1.0		ug/L			04/11/15 04:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*96*		*70 - 130*		*04/11/15 04:03*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*		*04/11/15 04:03*	*1*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*		*04/11/15 04:03*	*1*

Client Sample ID: MW-560-20150407

Lab Sample ID: 480-78021-17

Date Collected: 04/07/15 11:05

Matrix: Water

Date Received: 04/09/15 00:45

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			04/11/15 04:26	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/11/15 04:26	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/11/15 04:26	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/11/15 04:26	1
1,1-Dichloroethane	ND		1.0		ug/L			04/11/15 04:26	1
1,1-Dichloroethene	ND		1.0		ug/L			04/11/15 04:26	1
1,1-Dichloropropene	ND		1.0		ug/L			04/11/15 04:26	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/11/15 04:26	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/11/15 04:26	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/11/15 04:26	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/11/15 04:26	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/11/15 04:26	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/11/15 04:26	1
1,2-Dichloroethane	ND		1.0		ug/L			04/11/15 04:26	1
1,2-Dichloropropane	ND		1.0		ug/L			04/11/15 04:26	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/11/15 04:26	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/11/15 04:26	1
1,3-Dichloropropane	ND		1.0		ug/L			04/11/15 04:26	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/11/15 04:26	1
1,4-Dioxane	ND	*	50		ug/L			04/11/15 04:26	1
2,2-Dichloropropane	ND		1.0		ug/L			04/11/15 04:26	1
2-Butanone (MEK)	**180**	*	10		ug/L			04/11/15 04:26	1
2-Chlorotoluene	ND		1.0		ug/L			04/11/15 04:26	1
2-Hexanone	ND		10		ug/L			04/11/15 04:26	1
4-Chlorotoluene	ND		1.0		ug/L			04/11/15 04:26	1
4-Isopropyltoluene	ND		1.0		ug/L			04/11/15 04:26	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/11/15 04:26	1
Acetone	**79**		50		ug/L			04/11/15 04:26	1
Benzene	ND		1.0		ug/L			04/11/15 04:26	1
Bromobenzene	ND		1.0		ug/L			04/11/15 04:26	1
Bromoform	ND		1.0		ug/L			04/11/15 04:26	1
Bromomethane	ND		2.0		ug/L			04/11/15 04:26	1
Carbon disulfide	ND		10		ug/L			04/11/15 04:26	1

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

TestAmerica Job ID: 480-78021-1

Client Sample ID: MW-560-20150407
Date Collected: 04/07/15 11:05
Date Received: 04/09/15 00:45

Lab Sample ID: 480-78021-17
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			04/11/15 04:26	1
Chlorobenzene	ND		1.0		ug/L			04/11/15 04:26	1
Chlorobromomethane	ND		1.0		ug/L			04/11/15 04:26	1
Chlorodibromomethane	ND		0.50		ug/L			04/11/15 04:26	1
Chloroethane	ND		2.0		ug/L			04/11/15 04:26	1
Chloroform	ND		1.0		ug/L			04/11/15 04:26	1
Chloromethane	ND		2.0		ug/L			04/11/15 04:26	1
cis-1,2-Dichloroethene	**1.5**		1.0		ug/L			04/11/15 04:26	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/11/15 04:26	1
Dichlorobromomethane	ND		0.50		ug/L			04/11/15 04:26	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/11/15 04:26	1
Ethyl ether	ND		1.0		ug/L			04/11/15 04:26	1
Ethylbenzene	**1.1**		1.0		ug/L			04/11/15 04:26	1
Ethylene Dibromide	ND		1.0		ug/L			04/11/15 04:26	1
Hexachlorobutadiene	ND		0.40		ug/L			04/11/15 04:26	1
Isopropyl ether	ND		10		ug/L			04/11/15 04:26	1
Isopropylbenzene	ND		1.0		ug/L			04/11/15 04:26	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/11/15 04:26	1
Methylene Chloride	ND		1.0		ug/L			04/11/15 04:26	1
m-Xylene & p-Xylene	**5.6**		2.0		ug/L			04/11/15 04:26	1
Naphthalene	ND		5.0		ug/L			04/11/15 04:26	1
n-Butylbenzene	ND		1.0		ug/L			04/11/15 04:26	1
N-Propylbenzene	ND		1.0		ug/L			04/11/15 04:26	1
o-Xylene	**1.3**		1.0		ug/L			04/11/15 04:26	1
sec-Butylbenzene	ND		1.0		ug/L			04/11/15 04:26	1
Styrene	ND		1.0		ug/L			04/11/15 04:26	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/11/15 04:26	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/11/15 04:26	1
tert-Butylbenzene	ND		1.0		ug/L			04/11/15 04:26	1
Tetrachloroethene	ND		1.0		ug/L			04/11/15 04:26	1
Tetrahydrofuran	ND	*	10		ug/L			04/11/15 04:26	1
Toluene	**48**		1.0		ug/L			04/11/15 04:26	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/11/15 04:26	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/11/15 04:26	1
Trichloroethene	ND		1.0		ug/L			04/11/15 04:26	1
Trichlorofluoromethane	ND		1.0		ug/L			04/11/15 04:26	1
Vinyl chloride	**7.3**		1.0		ug/L			04/11/15 04:26	1
Dibromomethane	ND		1.0		ug/L			04/11/15 04:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*97*		*70 - 130*		*04/11/15 04:26*	*1*
1,2-Dichloroethane-d4 (Surr)	*104*		*70 - 130*		*04/11/15 04:26*	*1*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*		*04/11/15 04:26*	*1*

Client Sample ID: MW-561-20150407
Date Collected: 04/07/15 08:45
Date Received: 04/09/15 00:45

Lab Sample ID: 480-78021-18
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		2.0		ug/L			04/14/15 03:42	2
1,1,1-Trichloroethane	ND		2.0		ug/L			04/14/15 03:42	2
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			04/14/15 03:42	2
1,1,2-Trichloroethane	ND		2.0		ug/L			04/14/15 03:42	2
1,1-Dichloroethane	ND		2.0		ug/L			04/14/15 03:42	2
1,1-Dichloroethene	ND		2.0		ug/L			04/14/15 03:42	2
1,1-Dichloropropene	ND		2.0		ug/L			04/14/15 03:42	2
1,2,3-Trichlorobenzene	ND		2.0		ug/L			04/14/15 03:42	2
1,2,3-Trichloropropane	ND		2.0		ug/L			04/14/15 03:42	2
1,2,4-Trichlorobenzene	ND		2.0		ug/L			04/14/15 03:42	2
1,2,4-Trimethylbenzene	ND		2.0		ug/L			04/14/15 03:42	2
1,2-Dibromo-3-Chloropropane	ND		10		ug/L			04/14/15 03:42	2
1,2-Dichlorobenzene	ND		2.0		ug/L			04/14/15 03:42	2
1,2-Dichloroethane	ND		2.0		ug/L			04/14/15 03:42	2
1,2-Dichloropropane	ND		2.0		ug/L			04/14/15 03:42	2
1,3,5-Trimethylbenzene	ND		2.0		ug/L			04/14/15 03:42	2
1,3-Dichlorobenzene	ND		2.0		ug/L			04/14/15 03:42	2
1,3-Dichloropropane	ND		2.0		ug/L			04/14/15 03:42	2
1,4-Dichlorobenzene	ND		2.0		ug/L			04/14/15 03:42	2
1,4-Dioxane	ND	*	100		ug/L			04/14/15 03:42	2
2,2-Dichloropropane	ND		2.0		ug/L			04/14/15 03:42	2
2-Butanone (MEK)	**110**	*	20		ug/L			04/14/15 03:42	2
2-Chlorotoluene	ND		2.0		ug/L			04/14/15 03:42	2
2-Hexanone	ND		20		ug/L			04/14/15 03:42	2
4-Chlorotoluene	ND		2.0		ug/L			04/14/15 03:42	2
4-Isopropyltoluene	ND		2.0		ug/L			04/14/15 03:42	2
4-Methyl-2-pentanone (MIBK)	ND		20		ug/L			04/14/15 03:42	2
Acetone	ND		100		ug/L			04/14/15 03:42	2
Benzene	ND		2.0		ug/L			04/14/15 03:42	2
Bromobenzene	ND		2.0		ug/L			04/14/15 03:42	2
Bromoform	ND		2.0		ug/L			04/14/15 03:42	2
Bromomethane	ND		4.0		ug/L			04/14/15 03:42	2
Carbon disulfide	ND		20		ug/L			04/14/15 03:42	2
Carbon tetrachloride	ND		2.0		ug/L			04/14/15 03:42	2
Chlorobenzene	ND		2.0		ug/L			04/14/15 03:42	2
Chlorobromomethane	ND		2.0		ug/L			04/14/15 03:42	2
Chlorodibromomethane	ND		1.0		ug/L			04/14/15 03:42	2
Chloroethane	ND		4.0		ug/L			04/14/15 03:42	2
Chloroform	ND		2.0		ug/L			04/14/15 03:42	2
Chloromethane	ND		4.0		ug/L			04/14/15 03:42	2
cis-1,2-Dichloroethene	ND		2.0		ug/L			04/14/15 03:42	2
cis-1,3-Dichloropropene	ND		0.80		ug/L			04/14/15 03:42	2
Dichlorobromomethane	ND		1.0		ug/L			04/14/15 03:42	2
Dichlorodifluoromethane	ND		2.0		ug/L			04/14/15 03:42	2
Ethyl ether	ND		2.0		ug/L			04/14/15 03:42	2
Ethylbenzene	**4.6**		2.0		ug/L			04/14/15 03:42	2
Ethylene Dibromide	ND		2.0		ug/L			04/14/15 03:42	2
Hexachlorobutadiene	ND		0.80		ug/L			04/14/15 03:42	2
Isopropyl ether	ND		20		ug/L			04/14/15 03:42	2

Client Sample ID: MW-561-20150407

Lab Sample ID: 480-78021-18

Date Collected: 04/07/15 08:45

Matrix: Water

Date Received: 04/09/15 00:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	ND		2.0		ug/L			04/14/15 03:42	2
Methyl tert-butyl ether	ND		2.0		ug/L			04/14/15 03:42	2
Methylene Chloride	ND		2.0		ug/L			04/14/15 03:42	2
m-Xylene & p-Xylene	**20**		4.0		ug/L			04/14/15 03:42	2
Naphthalene	ND		10		ug/L			04/14/15 03:42	2
n-Butylbenzene	ND		2.0		ug/L			04/14/15 03:42	2
N-Propylbenzene	ND		2.0		ug/L			04/14/15 03:42	2
o-Xylene	**4.9**		2.0		ug/L			04/14/15 03:42	2
sec-Butylbenzene	ND		2.0		ug/L			04/14/15 03:42	2
Styrene	ND		2.0		ug/L			04/14/15 03:42	2
Tert-amyl methyl ether	ND		10		ug/L			04/14/15 03:42	2
Tert-butyl ethyl ether	ND		10		ug/L			04/14/15 03:42	2
tert-Butylbenzene	ND		2.0		ug/L			04/14/15 03:42	2
Tetrachloroethene	ND		2.0		ug/L			04/14/15 03:42	2
Tetrahydrofuran	ND		20		ug/L			04/14/15 03:42	2
Toluene	**88**		2.0		ug/L			04/14/15 03:42	2
trans-1,2-Dichloroethene	ND		2.0		ug/L			04/14/15 03:42	2
trans-1,3-Dichloropropene	ND		0.80		ug/L			04/14/15 03:42	2
Trichloroethene	ND		2.0		ug/L			04/14/15 03:42	2
Trichlorofluoromethane	ND		2.0		ug/L			04/14/15 03:42	2
Vinyl chloride	**60**		2.0		ug/L			04/14/15 03:42	2
Dibromomethane	ND		2.0		ug/L			04/14/15 03:42	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*97*		*70 - 130*		*04/14/15 03:42*	*2*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 130*		*04/14/15 03:42*	*2*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*04/14/15 03:42*	*2*

Client Sample ID: MW-562-20150407

Lab Sample ID: 480-78021-19

Date Collected: 04/07/15 09:40

Matrix: Water

Date Received: 04/09/15 00:45

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			04/11/15 05:14	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/11/15 05:14	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/11/15 05:14	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/11/15 05:14	1
1,1-Dichloroethane	ND		1.0		ug/L			04/11/15 05:14	1
1,1-Dichloroethene	ND		1.0		ug/L			04/11/15 05:14	1
1,1-Dichloropropene	ND		1.0		ug/L			04/11/15 05:14	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/11/15 05:14	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/11/15 05:14	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/11/15 05:14	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/11/15 05:14	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/11/15 05:14	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/11/15 05:14	1
1,2-Dichloroethane	ND		1.0		ug/L			04/11/15 05:14	1
1,2-Dichloropropane	ND		1.0		ug/L			04/11/15 05:14	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/11/15 05:14	1

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

TestAmerica Job ID: 480-78021-1

Client Sample ID: MW-562-20150407
Date Collected: 04/07/15 09:40
Date Received: 04/09/15 00:45

Lab Sample ID: 480-78021-19
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			04/11/15 05:14	1
1,3-Dichloropropane	ND		1.0		ug/L			04/11/15 05:14	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/11/15 05:14	1
1,4-Dioxane	ND	*	50		ug/L			04/11/15 05:14	1
2,2-Dichloropropane	ND		1.0		ug/L			04/11/15 05:14	1
2-Butanone (MEK)	**420**	*	10		ug/L			04/11/15 05:14	1
2-Chlorotoluene	ND		1.0		ug/L			04/11/15 05:14	1
2-Hexanone	ND		10		ug/L			04/11/15 05:14	1
4-Chlorotoluene	ND		1.0		ug/L			04/11/15 05:14	1
4-Isopropyltoluene	ND		1.0		ug/L			04/11/15 05:14	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/11/15 05:14	1
Acetone	ND		50		ug/L			04/11/15 05:14	1
Benzene	ND		1.0		ug/L			04/11/15 05:14	1
Bromobenzene	ND		1.0		ug/L			04/11/15 05:14	1
Bromoform	ND		1.0		ug/L			04/11/15 05:14	1
Bromomethane	ND		2.0		ug/L			04/11/15 05:14	1
Carbon disulfide	ND		10		ug/L			04/11/15 05:14	1
Carbon tetrachloride	ND		1.0		ug/L			04/11/15 05:14	1
Chlorobenzene	ND		1.0		ug/L			04/11/15 05:14	1
Chlorobromomethane	ND		1.0		ug/L			04/11/15 05:14	1
Chlorodibromomethane	ND		0.50		ug/L			04/11/15 05:14	1
Chloroethane	ND		2.0		ug/L			04/11/15 05:14	1
Chloroform	ND		1.0		ug/L			04/11/15 05:14	1
Chloromethane	ND		2.0		ug/L			04/11/15 05:14	1
cis-1,2-Dichloroethene	**63**		1.0		ug/L			04/11/15 05:14	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/11/15 05:14	1
Dichlorobromomethane	ND		0.50		ug/L			04/11/15 05:14	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/11/15 05:14	1
Ethyl ether	ND		1.0		ug/L			04/11/15 05:14	1
Ethylbenzene	ND		1.0		ug/L			04/11/15 05:14	1
Ethylene Dibromide	ND		1.0		ug/L			04/11/15 05:14	1
Hexachlorobutadiene	ND		0.40		ug/L			04/11/15 05:14	1
Isopropyl ether	ND		10		ug/L			04/11/15 05:14	1
Isopropylbenzene	ND		1.0		ug/L			04/11/15 05:14	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/11/15 05:14	1
Methylene Chloride	ND		1.0		ug/L			04/11/15 05:14	1
m-Xylene & p-Xylene	**2.1**		2.0		ug/L			04/11/15 05:14	1
Naphthalene	ND		5.0		ug/L			04/11/15 05:14	1
n-Butylbenzene	ND		1.0		ug/L			04/11/15 05:14	1
N-Propylbenzene	ND		1.0		ug/L			04/11/15 05:14	1
o-Xylene	ND		1.0		ug/L			04/11/15 05:14	1
sec-Butylbenzene	ND		1.0		ug/L			04/11/15 05:14	1
Styrene	ND		1.0		ug/L			04/11/15 05:14	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/11/15 05:14	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/11/15 05:14	1
tert-Butylbenzene	ND		1.0		ug/L			04/11/15 05:14	1
Tetrachloroethene	ND		1.0		ug/L			04/11/15 05:14	1
Tetrahydrofuran	ND	*	10		ug/L			04/11/15 05:14	1
Toluene	**29**		1.0		ug/L			04/11/15 05:14	1

Client Sample ID: MW-562-20150407 — **Lab Sample ID: 480-78021-19**
Date Collected: 04/07/15 09:40 — **Matrix: Water**
Date Received: 04/09/15 00:45

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			04/11/15 05:14	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/11/15 05:14	1
Trichloroethene	ND		1.0		ug/L			04/11/15 05:14	1
Trichlorofluoromethane	ND		1.0		ug/L			04/11/15 05:14	1
Vinyl chloride	**58**		1.0		ug/L			04/11/15 05:14	1
Dibromomethane	ND		1.0		ug/L			04/11/15 05:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*100*		*70 - 130*		*04/11/15 05:14*	*1*
1,2-Dichloroethane-d4 (Surr)	*105*		*70 - 130*		*04/11/15 05:14*	*1*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*		*04/11/15 05:14*	*1*

Client Sample ID: MW-563-20150407 — **Lab Sample ID: 480-78021-20**
Date Collected: 04/07/15 10:05 — **Matrix: Water**
Date Received: 04/09/15 00:45

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			04/11/15 05:38	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/11/15 05:38	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/11/15 05:38	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/11/15 05:38	1
1,1-Dichloroethane	ND		1.0		ug/L			04/11/15 05:38	1
1,1-Dichloroethene	ND		1.0		ug/L			04/11/15 05:38	1
1,1-Dichloropropene	ND		1.0		ug/L			04/11/15 05:38	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/11/15 05:38	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/11/15 05:38	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/11/15 05:38	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/11/15 05:38	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/11/15 05:38	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/11/15 05:38	1
1,2-Dichloroethane	ND		1.0		ug/L			04/11/15 05:38	1
1,2-Dichloropropane	ND		1.0		ug/L			04/11/15 05:38	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/11/15 05:38	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/11/15 05:38	1
1,3-Dichloropropane	ND		1.0		ug/L			04/11/15 05:38	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/11/15 05:38	1
1,4-Dioxane	ND	*	50		ug/L			04/11/15 05:38	1
2,2-Dichloropropane	ND		1.0		ug/L			04/11/15 05:38	1
2-Butanone (MEK)	**77**	*	10		ug/L			04/11/15 05:38	1
2-Chlorotoluene	ND		1.0		ug/L			04/11/15 05:38	1
2-Hexanone	ND		10		ug/L			04/11/15 05:38	1
4-Chlorotoluene	ND		1.0		ug/L			04/11/15 05:38	1
4-Isopropyltoluene	ND		1.0		ug/L			04/11/15 05:38	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/11/15 05:38	1
Acetone	ND		50		ug/L			04/11/15 05:38	1
Benzene	ND		1.0		ug/L			04/11/15 05:38	1
Bromobenzene	ND		1.0		ug/L			04/11/15 05:38	1
Bromoform	ND		1.0		ug/L			04/11/15 05:38	1
Bromomethane	ND		2.0		ug/L			04/11/15 05:38	1

Client Sample ID: MW-563-20150407
Date Collected: 04/07/15 10:05
Date Received: 04/09/15 00:45

Lab Sample ID: 480-78021-20
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			04/11/15 05:38	1
Carbon tetrachloride	ND		1.0		ug/L			04/11/15 05:38	1
Chlorobenzene	ND		1.0		ug/L			04/11/15 05:38	1
Chlorobromomethane	ND		1.0		ug/L			04/11/15 05:38	1
Chlorodibromomethane	ND		0.50		ug/L			04/11/15 05:38	1
Chloroethane	ND		2.0		ug/L			04/11/15 05:38	1
Chloroform	ND		1.0		ug/L			04/11/15 05:38	1
Chloromethane	ND		2.0		ug/L			04/11/15 05:38	1
cis-1,2-Dichloroethene	**10**		1.0		ug/L			04/11/15 05:38	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/11/15 05:38	1
Dichlorobromomethane	ND		0.50		ug/L			04/11/15 05:38	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/11/15 05:38	1
Ethyl ether	ND		1.0		ug/L			04/11/15 05:38	1
Ethylbenzene	ND		1.0		ug/L			04/11/15 05:38	1
Ethylene Dibromide	ND		1.0		ug/L			04/11/15 05:38	1
Hexachlorobutadiene	ND		0.40		ug/L			04/11/15 05:38	1
Isopropyl ether	ND		10		ug/L			04/11/15 05:38	1
Isopropylbenzene	ND		1.0		ug/L			04/11/15 05:38	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/11/15 05:38	1
Methylene Chloride	ND		1.0		ug/L			04/11/15 05:38	1
m-Xylene & p-Xylene	**4.0**		2.0		ug/L			04/11/15 05:38	1
Naphthalene	ND		5.0		ug/L			04/11/15 05:38	1
n-Butylbenzene	ND		1.0		ug/L			04/11/15 05:38	1
N-Propylbenzene	ND		1.0		ug/L			04/11/15 05:38	1
o-Xylene	**1.0**		1.0		ug/L			04/11/15 05:38	1
sec-Butylbenzene	ND		1.0		ug/L			04/11/15 05:38	1
Styrene	ND		1.0		ug/L			04/11/15 05:38	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/11/15 05:38	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/11/15 05:38	1
tert-Butylbenzene	ND		1.0		ug/L			04/11/15 05:38	1
Tetrachloroethene	ND		1.0		ug/L			04/11/15 05:38	1
Tetrahydrofuran	ND	*	10		ug/L			04/11/15 05:38	1
Toluene	**28**		1.0		ug/L			04/11/15 05:38	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/11/15 05:38	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/11/15 05:38	1
Trichloroethene	ND		1.0		ug/L			04/11/15 05:38	1
Trichlorofluoromethane	ND		1.0		ug/L			04/11/15 05:38	1
Vinyl chloride	**4.2**		1.0		ug/L			04/11/15 05:38	1
Dibromomethane	ND		1.0		ug/L			04/11/15 05:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*98*		*70 - 130*		*04/11/15 05:38*	*1*
1,2-Dichloroethane-d4 (Surr)	*108*		*70 - 130*		*04/11/15 05:38*	*1*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*		*04/11/15 05:38*	*1*

Client Sample ID: REW-1-20150407
Date Collected: 04/07/15 09:40
Date Received: 04/09/15 00:45

Lab Sample ID: 480-78021-21
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			04/11/15 06:01	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/11/15 06:01	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/11/15 06:01	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/11/15 06:01	1
1,1-Dichloroethane	ND		1.0		ug/L			04/11/15 06:01	1
1,1-Dichloroethene	ND		1.0		ug/L			04/11/15 06:01	1
1,1-Dichloropropene	ND		1.0		ug/L			04/11/15 06:01	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/11/15 06:01	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/11/15 06:01	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/11/15 06:01	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/11/15 06:01	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/11/15 06:01	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/11/15 06:01	1
1,2-Dichloroethane	ND		1.0		ug/L			04/11/15 06:01	1
1,2-Dichloropropane	ND		1.0		ug/L			04/11/15 06:01	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/11/15 06:01	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/11/15 06:01	1
1,3-Dichloropropane	ND		1.0		ug/L			04/11/15 06:01	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/11/15 06:01	1
1,4-Dioxane	ND	*	50		ug/L			04/11/15 06:01	1
2,2-Dichloropropane	ND		1.0		ug/L			04/11/15 06:01	1
2-Butanone (MEK)	ND	*	10		ug/L			04/11/15 06:01	1
2-Chlorotoluene	ND		1.0		ug/L			04/11/15 06:01	1
2-Hexanone	ND		10		ug/L			04/11/15 06:01	1
4-Chlorotoluene	ND		1.0		ug/L			04/11/15 06:01	1
4-Isopropyltoluene	ND		1.0		ug/L			04/11/15 06:01	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/11/15 06:01	1
Acetone	ND		50		ug/L			04/11/15 06:01	1
Benzene	ND		1.0		ug/L			04/11/15 06:01	1
Bromobenzene	ND		1.0		ug/L			04/11/15 06:01	1
Bromoform	ND		1.0		ug/L			04/11/15 06:01	1
Bromomethane	ND		2.0		ug/L			04/11/15 06:01	1
Carbon disulfide	ND		10		ug/L			04/11/15 06:01	1
Carbon tetrachloride	ND		1.0		ug/L			04/11/15 06:01	1
Chlorobenzene	ND		1.0		ug/L			04/11/15 06:01	1
Chlorobromomethane	ND		1.0		ug/L			04/11/15 06:01	1
Chlorodibromomethane	ND		0.50		ug/L			04/11/15 06:01	1
Chloroethane	ND		2.0		ug/L			04/11/15 06:01	1
Chloroform	ND		1.0		ug/L			04/11/15 06:01	1
Chloromethane	ND		2.0		ug/L			04/11/15 06:01	1
cis-1,2-Dichloroethene	**3.1**		1.0		ug/L			04/11/15 06:01	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/11/15 06:01	1
Dichlorobromomethane	ND		0.50		ug/L			04/11/15 06:01	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/11/15 06:01	1
Ethyl ether	ND		1.0		ug/L			04/11/15 06:01	1
Ethylbenzene	**1.4**		1.0		ug/L			04/11/15 06:01	1
Ethylene Dibromide	ND		1.0		ug/L			04/11/15 06:01	1
Hexachlorobutadiene	ND		0.40		ug/L			04/11/15 06:01	1
Isopropyl ether	ND		10		ug/L			04/11/15 06:01	1

Client Sample ID: REW-1-20150407

Lab Sample ID: 480-78021-21

Date Collected: 04/07/15 09:40

Matrix: Water

Date Received: 04/09/15 00:45

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			04/11/15 06:01	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/11/15 06:01	1
Methylene Chloride	ND		1.0		ug/L			04/11/15 06:01	1
m-Xylene & p-Xylene	**3.2**		2.0		ug/L			04/11/15 06:01	1
Naphthalene	ND		5.0		ug/L			04/11/15 06:01	1
n-Butylbenzene	ND		1.0		ug/L			04/11/15 06:01	1
N-Propylbenzene	ND		1.0		ug/L			04/11/15 06:01	1
o-Xylene	ND		1.0		ug/L			04/11/15 06:01	1
sec-Butylbenzene	ND		1.0		ug/L			04/11/15 06:01	1
Styrene	ND		1.0		ug/L			04/11/15 06:01	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/11/15 06:01	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/11/15 06:01	1
tert-Butylbenzene	ND		1.0		ug/L			04/11/15 06:01	1
Tetrachloroethene	ND		1.0		ug/L			04/11/15 06:01	1
Tetrahydrofuran	ND	*	10		ug/L			04/11/15 06:01	1
Toluene	ND		1.0		ug/L			04/11/15 06:01	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/11/15 06:01	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/11/15 06:01	1
Trichloroethene	ND		1.0		ug/L			04/11/15 06:01	1
Trichlorofluoromethane	ND		1.0		ug/L			04/11/15 06:01	1
Vinyl chloride	**1.2**		1.0		ug/L			04/11/15 06:01	1
Dibromomethane	ND		1.0		ug/L			04/11/15 06:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*100*		*70 - 130*		*04/11/15 06:01*	*1*
1,2-Dichloroethane-d4 (Surr)	*77*		*70 - 130*		*04/11/15 06:01*	*1*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*		*04/11/15 06:01*	*1*

Client Sample ID: REW-4-20150407

Lab Sample ID: 480-78021-22

Date Collected: 04/07/15 08:25

Matrix: Water

Date Received: 04/09/15 00:45

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			04/11/15 06:25	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/11/15 06:25	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/11/15 06:25	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/11/15 06:25	1
1,1-Dichloroethane	ND		1.0		ug/L			04/11/15 06:25	1
1,1-Dichloroethene	ND		1.0		ug/L			04/11/15 06:25	1
1,1-Dichloropropene	ND		1.0		ug/L			04/11/15 06:25	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/11/15 06:25	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/11/15 06:25	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/11/15 06:25	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/11/15 06:25	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/11/15 06:25	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/11/15 06:25	1
1,2-Dichloroethane	ND		1.0		ug/L			04/11/15 06:25	1
1,2-Dichloropropane	ND		1.0		ug/L			04/11/15 06:25	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/11/15 06:25	1

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

TestAmerica Job ID: 480-78021-1

Client Sample ID: REW-4-20150407
Date Collected: 04/07/15 08:25
Date Received: 04/09/15 00:45

Lab Sample ID: 480-78021-22
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			04/11/15 06:25	1
1,3-Dichloropropane	ND		1.0		ug/L			04/11/15 06:25	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/11/15 06:25	1
1,4-Dioxane	ND	*	50		ug/L			04/11/15 06:25	1
2,2-Dichloropropane	ND		1.0		ug/L			04/11/15 06:25	1
2-Butanone (MEK)	ND	*	10		ug/L			04/11/15 06:25	1
2-Chlorotoluene	ND		1.0		ug/L			04/11/15 06:25	1
2-Hexanone	ND		10		ug/L			04/11/15 06:25	1
4-Chlorotoluene	ND		1.0		ug/L			04/11/15 06:25	1
4-Isopropyltoluene	ND		1.0		ug/L			04/11/15 06:25	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/11/15 06:25	1
Acetone	ND		50		ug/L			04/11/15 06:25	1
Benzene	ND		1.0		ug/L			04/11/15 06:25	1
Bromobenzene	ND		1.0		ug/L			04/11/15 06:25	1
Bromoform	ND		1.0		ug/L			04/11/15 06:25	1
Bromomethane	ND		2.0		ug/L			04/11/15 06:25	1
Carbon disulfide	ND		10		ug/L			04/11/15 06:25	1
Carbon tetrachloride	ND		1.0		ug/L			04/11/15 06:25	1
Chlorobenzene	ND		1.0		ug/L			04/11/15 06:25	1
Chlorobromomethane	ND		1.0		ug/L			04/11/15 06:25	1
Chlorodibromomethane	ND		0.50		ug/L			04/11/15 06:25	1
Chloroethane	ND		2.0		ug/L			04/11/15 06:25	1
Chloroform	ND		1.0		ug/L			04/11/15 06:25	1
Chloromethane	ND		2.0		ug/L			04/11/15 06:25	1
cis-1,2-Dichloroethene	**1.3**		1.0		ug/L			04/11/15 06:25	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/11/15 06:25	1
Dichlorobromomethane	ND		0.50		ug/L			04/11/15 06:25	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/11/15 06:25	1
Ethyl ether	ND		1.0		ug/L			04/11/15 06:25	1
Ethylbenzene	ND		1.0		ug/L			04/11/15 06:25	1
Ethylene Dibromide	ND		1.0		ug/L			04/11/15 06:25	1
Hexachlorobutadiene	ND		0.40		ug/L			04/11/15 06:25	1
Isopropyl ether	ND		10		ug/L			04/11/15 06:25	1
Isopropylbenzene	ND		1.0		ug/L			04/11/15 06:25	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/11/15 06:25	1
Methylene Chloride	ND		1.0		ug/L			04/11/15 06:25	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/11/15 06:25	1
Naphthalene	ND		5.0		ug/L			04/11/15 06:25	1
n-Butylbenzene	ND		1.0		ug/L			04/11/15 06:25	1
N-Propylbenzene	ND		1.0		ug/L			04/11/15 06:25	1
o-Xylene	ND		1.0		ug/L			04/11/15 06:25	1
sec-Butylbenzene	ND		1.0		ug/L			04/11/15 06:25	1
Styrene	ND		1.0		ug/L			04/11/15 06:25	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/11/15 06:25	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/11/15 06:25	1
tert-Butylbenzene	ND		1.0		ug/L			04/11/15 06:25	1
Tetrachloroethene	ND		1.0		ug/L			04/11/15 06:25	1
Tetrahydrofuran	ND	*	10		ug/L			04/11/15 06:25	1
Toluene	ND		1.0		ug/L			04/11/15 06:25	1

Client Sample ID: REW-4-20150407 — **Lab Sample ID: 480-78021-22**
Date Collected: 04/07/15 08:25 — **Matrix: Water**
Date Received: 04/09/15 00:45

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			04/11/15 06:25	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/11/15 06:25	1
Trichloroethene	ND		1.0		ug/L			04/11/15 06:25	1
Trichlorofluoromethane	ND		1.0		ug/L			04/11/15 06:25	1
Vinyl chloride	ND		1.0		ug/L			04/11/15 06:25	1
Dibromomethane	ND		1.0		ug/L			04/11/15 06:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*96*		*70 - 130*		*04/11/15 06:25*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 130*		*04/11/15 06:25*	*1*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*		*04/11/15 06:25*	*1*

Client Sample ID: REW-5-20150407 — **Lab Sample ID: 480-78021-23**
Date Collected: 04/07/15 09:00 — **Matrix: Water**
Date Received: 04/09/15 00:45

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			04/11/15 06:49	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/11/15 06:49	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/11/15 06:49	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/11/15 06:49	1
1,1-Dichloroethane	ND		1.0		ug/L			04/11/15 06:49	1
1,1-Dichloroethene	ND		1.0		ug/L			04/11/15 06:49	1
1,1-Dichloropropene	ND		1.0		ug/L			04/11/15 06:49	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/11/15 06:49	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/11/15 06:49	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/11/15 06:49	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/11/15 06:49	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/11/15 06:49	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/11/15 06:49	1
1,2-Dichloroethane	ND		1.0		ug/L			04/11/15 06:49	1
1,2-Dichloropropane	ND		1.0		ug/L			04/11/15 06:49	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/11/15 06:49	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/11/15 06:49	1
1,3-Dichloropropane	ND		1.0		ug/L			04/11/15 06:49	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/11/15 06:49	1
1,4-Dioxane	ND	*	50		ug/L			04/11/15 06:49	1
2,2-Dichloropropane	ND		1.0		ug/L			04/11/15 06:49	1
2-Butanone (MEK)	ND	*	10		ug/L			04/11/15 06:49	1
2-Chlorotoluene	ND		1.0		ug/L			04/11/15 06:49	1
2-Hexanone	ND		10		ug/L			04/11/15 06:49	1
4-Chlorotoluene	ND		1.0		ug/L			04/11/15 06:49	1
4-Isopropyltoluene	ND		1.0		ug/L			04/11/15 06:49	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/11/15 06:49	1
Acetone	ND		50		ug/L			04/11/15 06:49	1
Benzene	ND		1.0		ug/L			04/11/15 06:49	1
Bromobenzene	ND		1.0		ug/L			04/11/15 06:49	1
Bromoform	ND		1.0		ug/L			04/11/15 06:49	1
Bromomethane	ND		2.0		ug/L			04/11/15 06:49	1

Client Sample ID: REW-5-20150407
Date Collected: 04/07/15 09:00
Date Received: 04/09/15 00:45

Lab Sample ID: 480-78021-23
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			04/11/15 06:49	1
Carbon tetrachloride	ND		1.0		ug/L			04/11/15 06:49	1
Chlorobenzene	ND		1.0		ug/L			04/11/15 06:49	1
Chlorobromomethane	ND		1.0		ug/L			04/11/15 06:49	1
Chlorodibromomethane	ND		0.50		ug/L			04/11/15 06:49	1
Chloroethane	ND		2.0		ug/L			04/11/15 06:49	1
Chloroform	ND		1.0		ug/L			04/11/15 06:49	1
Chloromethane	ND		2.0		ug/L			04/11/15 06:49	1
cis-1,2-Dichloroethene	**8.3**		1.0		ug/L			04/11/15 06:49	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/11/15 06:49	1
Dichlorobromomethane	ND		0.50		ug/L			04/11/15 06:49	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/11/15 06:49	1
Ethyl ether	ND		1.0		ug/L			04/11/15 06:49	1
Ethylbenzene	ND		1.0		ug/L			04/11/15 06:49	1
Ethylene Dibromide	ND		1.0		ug/L			04/11/15 06:49	1
Hexachlorobutadiene	ND		0.40		ug/L			04/11/15 06:49	1
Isopropyl ether	ND		10		ug/L			04/11/15 06:49	1
Isopropylbenzene	ND		1.0		ug/L			04/11/15 06:49	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/11/15 06:49	1
Methylene Chloride	ND		1.0		ug/L			04/11/15 06:49	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/11/15 06:49	1
Naphthalene	ND		5.0		ug/L			04/11/15 06:49	1
n-Butylbenzene	ND		1.0		ug/L			04/11/15 06:49	1
N-Propylbenzene	ND		1.0		ug/L			04/11/15 06:49	1
o-Xylene	ND		1.0		ug/L			04/11/15 06:49	1
sec-Butylbenzene	ND		1.0		ug/L			04/11/15 06:49	1
Styrene	ND		1.0		ug/L			04/11/15 06:49	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/11/15 06:49	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/11/15 06:49	1
tert-Butylbenzene	ND		1.0		ug/L			04/11/15 06:49	1
Tetrachloroethene	ND		1.0		ug/L			04/11/15 06:49	1
Tetrahydrofuran	ND	*	10		ug/L			04/11/15 06:49	1
Toluene	ND		1.0		ug/L			04/11/15 06:49	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/11/15 06:49	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/11/15 06:49	1
Trichloroethene	ND		1.0		ug/L			04/11/15 06:49	1
Trichlorofluoromethane	ND		1.0		ug/L			04/11/15 06:49	1
Vinyl chloride	**3.3**		1.0		ug/L			04/11/15 06:49	1
Dibromomethane	ND		1.0		ug/L			04/11/15 06:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*97*		*70 - 130*		*04/11/15 06:49*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 130*		*04/11/15 06:49*	*1*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*		*04/11/15 06:49*	*1*

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

TestAmerica Job ID: 480-78021-1

Client Sample ID: REW-6-20150407
Date Collected: 04/07/15 10:50
Date Received: 04/09/15 00:45

Lab Sample ID: 480-78021-24
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			04/11/15 07:12	5
1,1,1-Trichloroethane	ND		5.0		ug/L			04/11/15 07:12	5
1,1,2,2-Tetrachloroethane	ND		2.5		ug/L			04/11/15 07:12	5
1,1,2-Trichloroethane	ND		5.0		ug/L			04/11/15 07:12	5
1,1-Dichloroethane	ND		5.0		ug/L			04/11/15 07:12	5
1,1-Dichloroethene	ND		5.0		ug/L			04/11/15 07:12	5
1,1-Dichloropropene	ND		5.0		ug/L			04/11/15 07:12	5
1,2,3-Trichlorobenzene	ND		5.0		ug/L			04/11/15 07:12	5
1,2,3-Trichloropropane	ND		5.0		ug/L			04/11/15 07:12	5
1,2,4-Trichlorobenzene	ND		5.0		ug/L			04/11/15 07:12	5
1,2,4-Trimethylbenzene	ND		5.0		ug/L			04/11/15 07:12	5
1,2-Dibromo-3-Chloropropane	ND		25		ug/L			04/11/15 07:12	5
1,2-Dichlorobenzene	ND		5.0		ug/L			04/11/15 07:12	5
1,2-Dichloroethane	ND		5.0		ug/L			04/11/15 07:12	5
1,2-Dichloropropane	ND		5.0		ug/L			04/11/15 07:12	5
1,3,5-Trimethylbenzene	ND		5.0		ug/L			04/11/15 07:12	5
1,3-Dichlorobenzene	ND		5.0		ug/L			04/11/15 07:12	5
1,3-Dichloropropane	ND		5.0		ug/L			04/11/15 07:12	5
1,4-Dichlorobenzene	ND		5.0		ug/L			04/11/15 07:12	5
1,4-Dioxane	ND	*	250		ug/L			04/11/15 07:12	5
2,2-Dichloropropane	ND		5.0		ug/L			04/11/15 07:12	5
2-Butanone (MEK)	**120**	*	50		ug/L			04/11/15 07:12	5
2-Chlorotoluene	ND		5.0		ug/L			04/11/15 07:12	5
2-Hexanone	ND		50		ug/L			04/11/15 07:12	5
4-Chlorotoluene	ND		5.0		ug/L			04/11/15 07:12	5
4-Isopropyltoluene	ND		5.0		ug/L			04/11/15 07:12	5
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			04/11/15 07:12	5
Acetone	ND		250		ug/L			04/11/15 07:12	5
Benzene	ND		5.0		ug/L			04/11/15 07:12	5
Bromobenzene	ND		5.0		ug/L			04/11/15 07:12	5
Bromoform	ND		5.0		ug/L			04/11/15 07:12	5
Bromomethane	ND		10		ug/L			04/11/15 07:12	5
Carbon disulfide	ND		50		ug/L			04/11/15 07:12	5
Carbon tetrachloride	ND		5.0		ug/L			04/11/15 07:12	5
Chlorobenzene	ND		5.0		ug/L			04/11/15 07:12	5
Chlorobromomethane	ND		5.0		ug/L			04/11/15 07:12	5
Chlorodibromomethane	ND		2.5		ug/L			04/11/15 07:12	5
Chloroethane	ND		10		ug/L			04/11/15 07:12	5
Chloroform	ND		5.0		ug/L			04/11/15 07:12	5
Chloromethane	ND		10		ug/L			04/11/15 07:12	5
cis-1,2-Dichloroethene	**360**		5.0		ug/L			04/11/15 07:12	5
cis-1,3-Dichloropropene	ND		2.0		ug/L			04/11/15 07:12	5
Dichlorobromomethane	ND		2.5		ug/L			04/11/15 07:12	5
Dichlorodifluoromethane	ND		5.0		ug/L			04/11/15 07:12	5
Ethyl ether	ND		5.0		ug/L			04/11/15 07:12	5
Ethylbenzene	ND		5.0		ug/L			04/11/15 07:12	5
Ethylene Dibromide	ND		5.0		ug/L			04/11/15 07:12	5
Hexachlorobutadiene	ND		2.0		ug/L			04/11/15 07:12	5
Isopropyl ether	ND		50		ug/L			04/11/15 07:12	5

Client Sample ID: REW-6-20150407

Lab Sample ID: 480-78021-24

Date Collected: 04/07/15 10:50

Matrix: Water

Date Received: 04/09/15 00:45

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			04/11/15 07:12	5
Methyl tert-butyl ether	ND		5.0		ug/L			04/11/15 07:12	5
Methylene Chloride	ND		5.0		ug/L			04/11/15 07:12	5
m-Xylene & p-Xylene	ND		10		ug/L			04/11/15 07:12	5
Naphthalene	ND		25		ug/L			04/11/15 07:12	5
n-Butylbenzene	ND		5.0		ug/L			04/11/15 07:12	5
N-Propylbenzene	ND		5.0		ug/L			04/11/15 07:12	5
o-Xylene	ND		5.0		ug/L			04/11/15 07:12	5
sec-Butylbenzene	ND		5.0		ug/L			04/11/15 07:12	5
Styrene	ND		5.0		ug/L			04/11/15 07:12	5
Tert-amyl methyl ether	ND		25		ug/L			04/11/15 07:12	5
Tert-butyl ethyl ether	ND		25		ug/L			04/11/15 07:12	5
tert-Butylbenzene	ND		5.0		ug/L			04/11/15 07:12	5
Tetrachloroethene	ND		5.0		ug/L			04/11/15 07:12	5
Tetrahydrofuran	ND	*	50		ug/L			04/11/15 07:12	5
Toluene	**100**		5.0		ug/L			04/11/15 07:12	5
trans-1,2-Dichloroethene	ND		5.0		ug/L			04/11/15 07:12	5
trans-1,3-Dichloropropene	ND		2.0		ug/L			04/11/15 07:12	5
Trichloroethene	**14**		5.0		ug/L			04/11/15 07:12	5
Trichlorofluoromethane	ND		5.0		ug/L			04/11/15 07:12	5
Vinyl chloride	**28**		5.0		ug/L			04/11/15 07:12	5
Dibromomethane	ND		5.0		ug/L			04/11/15 07:12	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*97*		*70 - 130*		*04/11/15 07:12*	*5*
1,2-Dichloroethane-d4 (Surr)	*105*		*70 - 130*		*04/11/15 07:12*	*5*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*		*04/11/15 07:12*	*5*

Client Sample ID: REW-7-20150407

Lab Sample ID: 480-78021-25

Date Collected: 04/07/15 11:20

Matrix: Water

Date Received: 04/09/15 00:45

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			04/11/15 07:36	5
1,1,1-Trichloroethane	ND		5.0		ug/L			04/11/15 07:36	5
1,1,2,2-Tetrachloroethane	ND		2.5		ug/L			04/11/15 07:36	5
1,1,2-Trichloroethane	ND		5.0		ug/L			04/11/15 07:36	5
1,1-Dichloroethane	ND		5.0		ug/L			04/11/15 07:36	5
1,1-Dichloroethene	ND		5.0		ug/L			04/11/15 07:36	5
1,1-Dichloropropene	ND		5.0		ug/L			04/11/15 07:36	5
1,2,3-Trichlorobenzene	ND		5.0		ug/L			04/11/15 07:36	5
1,2,3-Trichloropropane	ND		5.0		ug/L			04/11/15 07:36	5
1,2,4-Trichlorobenzene	ND		5.0		ug/L			04/11/15 07:36	5
1,2,4-Trimethylbenzene	ND		5.0		ug/L			04/11/15 07:36	5
1,2-Dibromo-3-Chloropropane	ND		25		ug/L			04/11/15 07:36	5
1,2-Dichlorobenzene	ND		5.0		ug/L			04/11/15 07:36	5
1,2-Dichloroethane	ND		5.0		ug/L			04/11/15 07:36	5
1,2-Dichloropropane	ND		5.0		ug/L			04/11/15 07:36	5
1,3,5-Trimethylbenzene	ND		5.0		ug/L			04/11/15 07:36	5

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

TestAmerica Job ID: 480-78021-1

Client Sample ID: REW-7-20150407
Date Collected: 04/07/15 11:20
Date Received: 04/09/15 00:45

Lab Sample ID: 480-78021-25
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		5.0		ug/L			04/11/15 07:36	5
1,3-Dichloropropane	ND		5.0		ug/L			04/11/15 07:36	5
1,4-Dichlorobenzene	ND		5.0		ug/L			04/11/15 07:36	5
1,4-Dioxane	ND	*	250		ug/L			04/11/15 07:36	5
2,2-Dichloropropane	ND		5.0		ug/L			04/11/15 07:36	5
2-Butanone (MEK)	**68**	*	50		ug/L			04/11/15 07:36	5
2-Chlorotoluene	ND		5.0		ug/L			04/11/15 07:36	5
2-Hexanone	ND		50		ug/L			04/11/15 07:36	5
4-Chlorotoluene	ND		5.0		ug/L			04/11/15 07:36	5
4-Isopropyltoluene	ND		5.0		ug/L			04/11/15 07:36	5
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			04/11/15 07:36	5
Acetone	ND		250		ug/L			04/11/15 07:36	5
Benzene	ND		5.0		ug/L			04/11/15 07:36	5
Bromobenzene	ND		5.0		ug/L			04/11/15 07:36	5
Bromoform	ND		5.0		ug/L			04/11/15 07:36	5
Bromomethane	ND		10		ug/L			04/11/15 07:36	5
Carbon disulfide	ND		50		ug/L			04/11/15 07:36	5
Carbon tetrachloride	ND		5.0		ug/L			04/11/15 07:36	5
Chlorobenzene	ND		5.0		ug/L			04/11/15 07:36	5
Chlorobromomethane	ND		5.0		ug/L			04/11/15 07:36	5
Chlorodibromomethane	ND		2.5		ug/L			04/11/15 07:36	5
Chloroethane	ND		10		ug/L			04/11/15 07:36	5
Chloroform	ND		5.0		ug/L			04/11/15 07:36	5
Chloromethane	ND		10		ug/L			04/11/15 07:36	5
cis-1,2-Dichloroethene	**240**		5.0		ug/L			04/11/15 07:36	5
cis-1,3-Dichloropropene	ND		2.0		ug/L			04/11/15 07:36	5
Dichlorobromomethane	ND		2.5		ug/L			04/11/15 07:36	5
Dichlorodifluoromethane	ND		5.0		ug/L			04/11/15 07:36	5
Ethyl ether	ND		5.0		ug/L			04/11/15 07:36	5
Ethylbenzene	ND		5.0		ug/L			04/11/15 07:36	5
Ethylene Dibromide	ND		5.0		ug/L			04/11/15 07:36	5
Hexachlorobutadiene	ND		2.0		ug/L			04/11/15 07:36	5
Isopropyl ether	ND		50		ug/L			04/11/15 07:36	5
Isopropylbenzene	ND		5.0		ug/L			04/11/15 07:36	5
Methyl tert-butyl ether	ND		5.0		ug/L			04/11/15 07:36	5
Methylene Chloride	ND		5.0		ug/L			04/11/15 07:36	5
m-Xylene & p-Xylene	ND		10		ug/L			04/11/15 07:36	5
Naphthalene	ND		25		ug/L			04/11/15 07:36	5
n-Butylbenzene	ND		5.0		ug/L			04/11/15 07:36	5
N-Propylbenzene	ND		5.0		ug/L			04/11/15 07:36	5
o-Xylene	ND		5.0		ug/L			04/11/15 07:36	5
sec-Butylbenzene	ND		5.0		ug/L			04/11/15 07:36	5
Styrene	ND		5.0		ug/L			04/11/15 07:36	5
Tert-amyl methyl ether	ND		25		ug/L			04/11/15 07:36	5
Tert-butyl ethyl ether	ND		25		ug/L			04/11/15 07:36	5
tert-Butylbenzene	ND		5.0		ug/L			04/11/15 07:36	5
Tetrachloroethene	ND		5.0		ug/L			04/11/15 07:36	5
Tetrahydrofuran	ND	*	50		ug/L			04/11/15 07:36	5
Toluene	**200**		5.0		ug/L			04/11/15 07:36	5

Client Sample ID: REW-7-20150407 — **Lab Sample ID: 480-78021-25**
Date Collected: 04/07/15 11:20 — **Matrix: Water**
Date Received: 04/09/15 00:45

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			04/11/15 07:36	5
trans-1,3-Dichloropropene	ND		2.0		ug/L			04/11/15 07:36	5
Trichloroethene	ND		5.0		ug/L			04/11/15 07:36	5
Trichlorofluoromethane	ND		5.0		ug/L			04/11/15 07:36	5
Vinyl chloride	**82**		5.0		ug/L			04/11/15 07:36	5
Dibromomethane	ND		5.0		ug/L			04/11/15 07:36	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*97*		*70 - 130*		*04/11/15 07:36*	*5*
1,2-Dichloroethane-d4 (Surr)	*106*		*70 - 130*		*04/11/15 07:36*	*5*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*		*04/11/15 07:36*	*5*

Client Sample ID: REW-8-20150407 — **Lab Sample ID: 480-78021-26**
Date Collected: 04/07/15 12:35 — **Matrix: Water**
Date Received: 04/09/15 00:45

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			04/11/15 08:00	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/11/15 08:00	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/11/15 08:00	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/11/15 08:00	1
1,1-Dichloroethane	ND		1.0		ug/L			04/11/15 08:00	1
1,1-Dichloroethene	ND		1.0		ug/L			04/11/15 08:00	1
1,1-Dichloropropene	ND		1.0		ug/L			04/11/15 08:00	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/11/15 08:00	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/11/15 08:00	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/11/15 08:00	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/11/15 08:00	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/11/15 08:00	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/11/15 08:00	1
1,2-Dichloroethane	ND		1.0		ug/L			04/11/15 08:00	1
1,2-Dichloropropane	ND		1.0		ug/L			04/11/15 08:00	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/11/15 08:00	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/11/15 08:00	1
1,3-Dichloropropane	ND		1.0		ug/L			04/11/15 08:00	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/11/15 08:00	1
1,4-Dioxane	ND	*	50		ug/L			04/11/15 08:00	1
2,2-Dichloropropane	ND		1.0		ug/L			04/11/15 08:00	1
2-Butanone (MEK)	**78**	*	10		ug/L			04/11/15 08:00	1
2-Chlorotoluene	ND		1.0		ug/L			04/11/15 08:00	1
2-Hexanone	ND		10		ug/L			04/11/15 08:00	1
4-Chlorotoluene	ND		1.0		ug/L			04/11/15 08:00	1
4-Isopropyltoluene	ND		1.0		ug/L			04/11/15 08:00	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/11/15 08:00	1
Acetone	ND		50		ug/L			04/11/15 08:00	1
Benzene	ND		1.0		ug/L			04/11/15 08:00	1
Bromobenzene	ND		1.0		ug/L			04/11/15 08:00	1
Bromoform	ND		1.0		ug/L			04/11/15 08:00	1
Bromomethane	ND		2.0		ug/L			04/11/15 08:00	1

Client Sample ID: REW-8-20150407
Date Collected: 04/07/15 12:35
Date Received: 04/09/15 00:45

Lab Sample ID: 480-78021-26
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			04/11/15 08:00	1
Carbon tetrachloride	ND		1.0		ug/L			04/11/15 08:00	1
Chlorobenzene	ND		1.0		ug/L			04/11/15 08:00	1
Chlorobromomethane	ND		1.0		ug/L			04/11/15 08:00	1
Chlorodibromomethane	ND		0.50		ug/L			04/11/15 08:00	1
Chloroethane	ND		2.0		ug/L			04/11/15 08:00	1
Chloroform	ND		1.0		ug/L			04/11/15 08:00	1
Chloromethane	ND		2.0		ug/L			04/11/15 08:00	1
cis-1,2-Dichloroethene	**44**		1.0		ug/L			04/11/15 08:00	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/11/15 08:00	1
Dichlorobromomethane	ND		0.50		ug/L			04/11/15 08:00	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/11/15 08:00	1
Ethyl ether	ND		1.0		ug/L			04/11/15 08:00	1
Ethylbenzene	ND		1.0		ug/L			04/11/15 08:00	1
Ethylene Dibromide	ND		1.0		ug/L			04/11/15 08:00	1
Hexachlorobutadiene	ND		0.40		ug/L			04/11/15 08:00	1
Isopropyl ether	ND		10		ug/L			04/11/15 08:00	1
Isopropylbenzene	ND		1.0		ug/L			04/11/15 08:00	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/11/15 08:00	1
Methylene Chloride	ND		1.0		ug/L			04/11/15 08:00	1
m-Xylene & p-Xylene	**2.5**		2.0		ug/L			04/11/15 08:00	1
Naphthalene	ND		5.0		ug/L			04/11/15 08:00	1
n-Butylbenzene	ND		1.0		ug/L			04/11/15 08:00	1
N-Propylbenzene	ND		1.0		ug/L			04/11/15 08:00	1
o-Xylene	ND		1.0		ug/L			04/11/15 08:00	1
sec-Butylbenzene	ND		1.0		ug/L			04/11/15 08:00	1
Styrene	ND		1.0		ug/L			04/11/15 08:00	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/11/15 08:00	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/11/15 08:00	1
tert-Butylbenzene	ND		1.0		ug/L			04/11/15 08:00	1
Tetrachloroethene	ND		1.0		ug/L			04/11/15 08:00	1
Tetrahydrofuran	ND	*	10		ug/L			04/11/15 08:00	1
Toluene	**42**		1.0		ug/L			04/11/15 08:00	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/11/15 08:00	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/11/15 08:00	1
Trichloroethene	ND		1.0		ug/L			04/11/15 08:00	1
Trichlorofluoromethane	ND		1.0		ug/L			04/11/15 08:00	1
Vinyl chloride	**35**		1.0		ug/L			04/11/15 08:00	1
Dibromomethane	ND		1.0		ug/L			04/11/15 08:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*97*		*70 - 130*		*04/11/15 08:00*	*1*
1,2-Dichloroethane-d4 (Surr)	*106*		*70 - 130*		*04/11/15 08:00*	*1*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*04/11/15 08:00*	*1*

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

TestAmerica Job ID: 480-78021-1

Client Sample ID: REW-9-20150407
Date Collected: 04/07/15 13:05
Date Received: 04/09/15 00:45

Lab Sample ID: 480-78021-27
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			04/11/15 08:24	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/11/15 08:24	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/11/15 08:24	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/11/15 08:24	1
1,1-Dichloroethane	ND		1.0		ug/L			04/11/15 08:24	1
1,1-Dichloroethene	ND		1.0		ug/L			04/11/15 08:24	1
1,1-Dichloropropene	ND		1.0		ug/L			04/11/15 08:24	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/11/15 08:24	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/11/15 08:24	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/11/15 08:24	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/11/15 08:24	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/11/15 08:24	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/11/15 08:24	1
1,2-Dichloroethane	ND		1.0		ug/L			04/11/15 08:24	1
1,2-Dichloropropane	ND		1.0		ug/L			04/11/15 08:24	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/11/15 08:24	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/11/15 08:24	1
1,3-Dichloropropane	ND		1.0		ug/L			04/11/15 08:24	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/11/15 08:24	1
1,4-Dioxane	ND	*	50		ug/L			04/11/15 08:24	1
2,2-Dichloropropane	ND		1.0		ug/L			04/11/15 08:24	1
2-Butanone (MEK)	**180**	*	10		ug/L			04/11/15 08:24	1
2-Chlorotoluene	ND		1.0		ug/L			04/11/15 08:24	1
2-Hexanone	ND		10		ug/L			04/11/15 08:24	1
4-Chlorotoluene	ND		1.0		ug/L			04/11/15 08:24	1
4-Isopropyltoluene	ND		1.0		ug/L			04/11/15 08:24	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/11/15 08:24	1
Acetone	ND		50		ug/L			04/11/15 08:24	1
Benzene	ND		1.0		ug/L			04/11/15 08:24	1
Bromobenzene	ND		1.0		ug/L			04/11/15 08:24	1
Bromoform	ND		1.0		ug/L			04/11/15 08:24	1
Bromomethane	ND		2.0		ug/L			04/11/15 08:24	1
Carbon disulfide	ND		10		ug/L			04/11/15 08:24	1
Carbon tetrachloride	ND		1.0		ug/L			04/11/15 08:24	1
Chlorobenzene	ND		1.0		ug/L			04/11/15 08:24	1
Chlorobromomethane	ND		1.0		ug/L			04/11/15 08:24	1
Chlorodibromomethane	ND		0.50		ug/L			04/11/15 08:24	1
Chloroethane	ND		2.0		ug/L			04/11/15 08:24	1
Chloroform	ND		1.0		ug/L			04/11/15 08:24	1
Chloromethane	ND		2.0		ug/L			04/11/15 08:24	1
cis-1,2-Dichloroethene	**88**		1.0		ug/L			04/11/15 08:24	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/11/15 08:24	1
Dichlorobromomethane	ND		0.50		ug/L			04/11/15 08:24	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/11/15 08:24	1
Ethyl ether	ND		1.0		ug/L			04/11/15 08:24	1
Ethylbenzene	**1.6**		1.0		ug/L			04/11/15 08:24	1
Ethylene Dibromide	ND		1.0		ug/L			04/11/15 08:24	1
Hexachlorobutadiene	ND		0.40		ug/L			04/11/15 08:24	1
Isopropyl ether	ND		10		ug/L			04/11/15 08:24	1

Client Sample ID: REW-9-20150407

Lab Sample ID: 480-78021-27

Date Collected: 04/07/15 13:05

Matrix: Water

Date Received: 04/09/15 00:45

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			04/11/15 08:24	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/11/15 08:24	1
Methylene Chloride	ND		1.0		ug/L			04/11/15 08:24	1
m-Xylene & p-Xylene	**5.7**		2.0		ug/L			04/11/15 08:24	1
Naphthalene	ND		5.0		ug/L			04/11/15 08:24	1
n-Butylbenzene	ND		1.0		ug/L			04/11/15 08:24	1
N-Propylbenzene	ND		1.0		ug/L			04/11/15 08:24	1
o-Xylene	**1.4**		1.0		ug/L			04/11/15 08:24	1
sec-Butylbenzene	ND		1.0		ug/L			04/11/15 08:24	1
Styrene	ND		1.0		ug/L			04/11/15 08:24	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/11/15 08:24	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/11/15 08:24	1
tert-Butylbenzene	ND		1.0		ug/L			04/11/15 08:24	1
Tetrachloroethene	ND		1.0		ug/L			04/11/15 08:24	1
Tetrahydrofuran	ND	*	10		ug/L			04/11/15 08:24	1
Toluene	**66**		1.0		ug/L			04/11/15 08:24	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/11/15 08:24	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/11/15 08:24	1
Trichloroethene	ND		1.0		ug/L			04/11/15 08:24	1
Trichlorofluoromethane	ND		1.0		ug/L			04/11/15 08:24	1
Vinyl chloride	**39**		1.0		ug/L			04/11/15 08:24	1
Dibromomethane	ND		1.0		ug/L			04/11/15 08:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*98*		*70 - 130*		*04/11/15 08:24*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 130*		*04/11/15 08:24*	*1*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*		*04/11/15 08:24*	*1*

Client Sample ID: REW-10-20150407

Lab Sample ID: 480-78021-28

Date Collected: 04/07/15 07:30

Matrix: Water

Date Received: 04/09/15 00:45

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			04/14/15 04:07	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/14/15 04:07	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/14/15 04:07	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/14/15 04:07	1
1,1-Dichloroethane	ND		1.0		ug/L			04/14/15 04:07	1
1,1-Dichloroethene	ND		1.0		ug/L			04/14/15 04:07	1
1,1-Dichloropropene	ND		1.0		ug/L			04/14/15 04:07	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/14/15 04:07	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/14/15 04:07	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/14/15 04:07	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/14/15 04:07	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/14/15 04:07	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/14/15 04:07	1
1,2-Dichloroethane	ND		1.0		ug/L			04/14/15 04:07	1
1,2-Dichloropropane	ND		1.0		ug/L			04/14/15 04:07	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/14/15 04:07	1

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

TestAmerica Job ID: 480-78021-1

Client Sample ID: REW-10-20150407
Date Collected: 04/07/15 07:30
Date Received: 04/09/15 00:45

Lab Sample ID: 480-78021-28
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			04/14/15 04:07	1
1,3-Dichloropropane	ND		1.0		ug/L			04/14/15 04:07	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/14/15 04:07	1
1,4-Dioxane	ND	*	50		ug/L			04/14/15 04:07	1
2,2-Dichloropropane	ND		1.0		ug/L			04/14/15 04:07	1
2-Butanone (MEK)	ND	*	10		ug/L			04/14/15 04:07	1
2-Chlorotoluene	ND		1.0		ug/L			04/14/15 04:07	1
2-Hexanone	ND		10		ug/L			04/14/15 04:07	1
4-Chlorotoluene	ND		1.0		ug/L			04/14/15 04:07	1
4-Isopropyltoluene	ND		1.0		ug/L			04/14/15 04:07	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/14/15 04:07	1
Acetone	ND		50		ug/L			04/14/15 04:07	1
Benzene	ND		1.0		ug/L			04/14/15 04:07	1
Bromobenzene	ND		1.0		ug/L			04/14/15 04:07	1
Bromoform	ND		1.0		ug/L			04/14/15 04:07	1
Bromomethane	ND		2.0		ug/L			04/14/15 04:07	1
Carbon disulfide	ND		10		ug/L			04/14/15 04:07	1
Carbon tetrachloride	ND		1.0		ug/L			04/14/15 04:07	1
Chlorobenzene	ND		1.0		ug/L			04/14/15 04:07	1
Chlorobromomethane	ND		1.0		ug/L			04/14/15 04:07	1
Chlorodibromomethane	ND		0.50		ug/L			04/14/15 04:07	1
Chloroethane	ND		2.0		ug/L			04/14/15 04:07	1
Chloroform	ND		1.0		ug/L			04/14/15 04:07	1
Chloromethane	ND		2.0		ug/L			04/14/15 04:07	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			04/14/15 04:07	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/14/15 04:07	1
Dichlorobromomethane	ND		0.50		ug/L			04/14/15 04:07	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/14/15 04:07	1
Ethyl ether	ND		1.0		ug/L			04/14/15 04:07	1
Ethylbenzene	ND		1.0		ug/L			04/14/15 04:07	1
Ethylene Dibromide	ND		1.0		ug/L			04/14/15 04:07	1
Hexachlorobutadiene	ND		0.40		ug/L			04/14/15 04:07	1
Isopropyl ether	ND		10		ug/L			04/14/15 04:07	1
Isopropylbenzene	ND		1.0		ug/L			04/14/15 04:07	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/14/15 04:07	1
Methylene Chloride	ND		1.0		ug/L			04/14/15 04:07	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/14/15 04:07	1
Naphthalene	ND		5.0		ug/L			04/14/15 04:07	1
n-Butylbenzene	ND		1.0		ug/L			04/14/15 04:07	1
N-Propylbenzene	ND		1.0		ug/L			04/14/15 04:07	1
o-Xylene	ND		1.0		ug/L			04/14/15 04:07	1
sec-Butylbenzene	ND		1.0		ug/L			04/14/15 04:07	1
Styrene	ND		1.0		ug/L			04/14/15 04:07	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/14/15 04:07	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/14/15 04:07	1
tert-Butylbenzene	ND		1.0		ug/L			04/14/15 04:07	1
Tetrachloroethene	ND		1.0		ug/L			04/14/15 04:07	1
Tetrahydrofuran	ND		10		ug/L			04/14/15 04:07	1
Toluene	ND		1.0		ug/L			04/14/15 04:07	1

Client Sample ID: REW-10-20150407 — **Lab Sample ID: 480-78021-28**
Date Collected: 04/07/15 07:30 — **Matrix: Water**
Date Received: 04/09/15 00:45

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			04/14/15 04:07	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/14/15 04:07	1
Trichloroethene	ND		1.0		ug/L			04/14/15 04:07	1
Trichlorofluoromethane	ND		1.0		ug/L			04/14/15 04:07	1
Vinyl chloride	ND		1.0		ug/L			04/14/15 04:07	1
Dibromomethane	ND		1.0		ug/L			04/14/15 04:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*96*		*70 - 130*		*04/14/15 04:07*	*1*
1,2-Dichloroethane-d4 (Surr)	*104*		*70 - 130*		*04/14/15 04:07*	*1*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*		*04/14/15 04:07*	*1*

Client Sample ID: REW-11-20150407 — **Lab Sample ID: 480-78021-29**
Date Collected: 04/07/15 10:20 — **Matrix: Water**
Date Received: 04/09/15 00:45

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			04/14/15 04:30	20
1,1,1-Trichloroethane	ND		20		ug/L			04/14/15 04:30	20
1,1,2,2-Tetrachloroethane	ND		10		ug/L			04/14/15 04:30	20
1,1,2-Trichloroethane	ND		20		ug/L			04/14/15 04:30	20
1,1-Dichloroethane	ND		20		ug/L			04/14/15 04:30	20
1,1-Dichloroethene	ND		20		ug/L			04/14/15 04:30	20
1,1-Dichloropropene	ND		20		ug/L			04/14/15 04:30	20
1,2,3-Trichlorobenzene	ND		20		ug/L			04/14/15 04:30	20
1,2,3-Trichloropropane	ND		20		ug/L			04/14/15 04:30	20
1,2,4-Trichlorobenzene	ND		20		ug/L			04/14/15 04:30	20
1,2,4-Trimethylbenzene	ND		20		ug/L			04/14/15 04:30	20
1,2-Dibromo-3-Chloropropane	ND		100		ug/L			04/14/15 04:30	20
1,2-Dichlorobenzene	ND		20		ug/L			04/14/15 04:30	20
1,2-Dichloroethane	ND		20		ug/L			04/14/15 04:30	20
1,2-Dichloropropane	ND		20		ug/L			04/14/15 04:30	20
1,3,5-Trimethylbenzene	ND		20		ug/L			04/14/15 04:30	20
1,3-Dichlorobenzene	ND		20		ug/L			04/14/15 04:30	20
1,3-Dichloropropane	ND		20		ug/L			04/14/15 04:30	20
1,4-Dichlorobenzene	ND		20		ug/L			04/14/15 04:30	20
1,4-Dioxane	ND	*	1000		ug/L			04/14/15 04:30	20
2,2-Dichloropropane	ND		20		ug/L			04/14/15 04:30	20
2-Butanone (MEK)	ND	*	200		ug/L			04/14/15 04:30	20
2-Chlorotoluene	ND		20		ug/L			04/14/15 04:30	20
2-Hexanone	ND		200		ug/L			04/14/15 04:30	20
4-Chlorotoluene	ND		20		ug/L			04/14/15 04:30	20
4-Isopropyltoluene	ND		20		ug/L			04/14/15 04:30	20
4-Methyl-2-pentanone (MIBK)	ND		200		ug/L			04/14/15 04:30	20
Acetone	ND		1000		ug/L			04/14/15 04:30	20
Benzene	ND		20		ug/L			04/14/15 04:30	20
Bromobenzene	ND		20		ug/L			04/14/15 04:30	20
Bromoform	ND		20		ug/L			04/14/15 04:30	20
Bromomethane	ND		40		ug/L			04/14/15 04:30	20

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

TestAmerica Job ID: 480-78021-1

Client Sample ID: REW-11-20150407
Date Collected: 04/07/15 10:20
Date Received: 04/09/15 00:45

Lab Sample ID: 480-78021-29
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	ND		200		ug/L			04/14/15 04:30	20
Carbon tetrachloride	ND		20		ug/L			04/14/15 04:30	20
Chlorobenzene	ND		20		ug/L			04/14/15 04:30	20
Chlorobromomethane	ND		20		ug/L			04/14/15 04:30	20
Chlorodibromomethane	ND		10		ug/L			04/14/15 04:30	20
Chloroethane	ND		40		ug/L			04/14/15 04:30	20
Chloroform	ND		20		ug/L			04/14/15 04:30	20
Chloromethane	ND		40		ug/L			04/14/15 04:30	20
cis-1,2-Dichloroethene	**1400**		20		ug/L			04/14/15 04:30	20
cis-1,3-Dichloropropene	ND		8.0		ug/L			04/14/15 04:30	20
Dichlorobromomethane	ND		10		ug/L			04/14/15 04:30	20
Dichlorodifluoromethane	ND		20		ug/L			04/14/15 04:30	20
Ethyl ether	ND		20		ug/L			04/14/15 04:30	20
Ethylbenzene	ND		20		ug/L			04/14/15 04:30	20
Ethylene Dibromide	ND		20		ug/L			04/14/15 04:30	20
Hexachlorobutadiene	ND		8.0		ug/L			04/14/15 04:30	20
Isopropyl ether	ND		200		ug/L			04/14/15 04:30	20
Isopropylbenzene	ND		20		ug/L			04/14/15 04:30	20
Methyl tert-butyl ether	ND		20		ug/L			04/14/15 04:30	20
Methylene Chloride	ND		20		ug/L			04/14/15 04:30	20
m-Xylene & p-Xylene	ND		40		ug/L			04/14/15 04:30	20
Naphthalene	ND		100		ug/L			04/14/15 04:30	20
n-Butylbenzene	ND		20		ug/L			04/14/15 04:30	20
N-Propylbenzene	ND		20		ug/L			04/14/15 04:30	20
o-Xylene	ND		20		ug/L			04/14/15 04:30	20
sec-Butylbenzene	ND		20		ug/L			04/14/15 04:30	20
Styrene	ND		20		ug/L			04/14/15 04:30	20
Tert-amyl methyl ether	ND		100		ug/L			04/14/15 04:30	20
Tert-butyl ethyl ether	ND		100		ug/L			04/14/15 04:30	20
tert-Butylbenzene	ND		20		ug/L			04/14/15 04:30	20
Tetrachloroethene	ND		20		ug/L			04/14/15 04:30	20
Tetrahydrofuran	ND		200		ug/L			04/14/15 04:30	20
Toluene	ND		20		ug/L			04/14/15 04:30	20
trans-1,2-Dichloroethene	ND		20		ug/L			04/14/15 04:30	20
trans-1,3-Dichloropropene	ND		8.0		ug/L			04/14/15 04:30	20
Trichloroethene	**280**		20		ug/L			04/14/15 04:30	20
Trichlorofluoromethane	ND		20		ug/L			04/14/15 04:30	20
Vinyl chloride	**110**		20		ug/L			04/14/15 04:30	20
Dibromomethane	ND		20		ug/L			04/14/15 04:30	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*96*		*70 - 130*		*04/14/15 04:30*	*20*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 130*		*04/14/15 04:30*	*20*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*		*04/14/15 04:30*	*20*

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

TestAmerica Job ID: 480-78021-1

Client Sample ID: REW-12-20150407
Date Collected: 04/07/15 12:00
Date Received: 04/09/15 00:45

Lab Sample ID: 480-78021-30
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			04/14/15 04:54	5
1,1,1-Trichloroethane	ND		5.0		ug/L			04/14/15 04:54	5
1,1,2,2-Tetrachloroethane	ND		2.5		ug/L			04/14/15 04:54	5
1,1,2-Trichloroethane	ND		5.0		ug/L			04/14/15 04:54	5
1,1-Dichloroethane	ND		5.0		ug/L			04/14/15 04:54	5
1,1-Dichloroethene	ND		5.0		ug/L			04/14/15 04:54	5
1,1-Dichloropropene	ND		5.0		ug/L			04/14/15 04:54	5
1,2,3-Trichlorobenzene	ND		5.0		ug/L			04/14/15 04:54	5
1,2,3-Trichloropropane	ND		5.0		ug/L			04/14/15 04:54	5
1,2,4-Trichlorobenzene	ND		5.0		ug/L			04/14/15 04:54	5
1,2,4-Trimethylbenzene	ND		5.0		ug/L			04/14/15 04:54	5
1,2-Dibromo-3-Chloropropane	ND		25		ug/L			04/14/15 04:54	5
1,2-Dichlorobenzene	ND		5.0		ug/L			04/14/15 04:54	5
1,2-Dichloroethane	ND		5.0		ug/L			04/14/15 04:54	5
1,2-Dichloropropane	ND		5.0		ug/L			04/14/15 04:54	5
1,3,5-Trimethylbenzene	ND		5.0		ug/L			04/14/15 04:54	5
1,3-Dichlorobenzene	ND		5.0		ug/L			04/14/15 04:54	5
1,3-Dichloropropane	ND		5.0		ug/L			04/14/15 04:54	5
1,4-Dichlorobenzene	ND		5.0		ug/L			04/14/15 04:54	5
1,4-Dioxane	ND	*	250		ug/L			04/14/15 04:54	5
2,2-Dichloropropane	ND		5.0		ug/L			04/14/15 04:54	5
2-Butanone (MEK)	ND	*	50		ug/L			04/14/15 04:54	5
2-Chlorotoluene	ND		5.0		ug/L			04/14/15 04:54	5
2-Hexanone	ND		50		ug/L			04/14/15 04:54	5
4-Chlorotoluene	ND		5.0		ug/L			04/14/15 04:54	5
4-Isopropyltoluene	ND		5.0		ug/L			04/14/15 04:54	5
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			04/14/15 04:54	5
Acetone	ND		250		ug/L			04/14/15 04:54	5
Benzene	ND		5.0		ug/L			04/14/15 04:54	5
Bromobenzene	ND		5.0		ug/L			04/14/15 04:54	5
Bromoform	ND		5.0		ug/L			04/14/15 04:54	5
Bromomethane	ND		10		ug/L			04/14/15 04:54	5
Carbon disulfide	ND		50		ug/L			04/14/15 04:54	5
Carbon tetrachloride	ND		5.0		ug/L			04/14/15 04:54	5
Chlorobenzene	ND		5.0		ug/L			04/14/15 04:54	5
Chlorobromomethane	ND		5.0		ug/L			04/14/15 04:54	5
Chlorodibromomethane	ND		2.5		ug/L			04/14/15 04:54	5
Chloroethane	ND		10		ug/L			04/14/15 04:54	5
Chloroform	ND		5.0		ug/L			04/14/15 04:54	5
Chloromethane	ND		10		ug/L			04/14/15 04:54	5
cis-1,2-Dichloroethene	**210**		5.0		ug/L			04/14/15 04:54	5
cis-1,3-Dichloropropene	ND		2.0		ug/L			04/14/15 04:54	5
Dichlorobromomethane	ND		2.5		ug/L			04/14/15 04:54	5
Dichlorodifluoromethane	ND		5.0		ug/L			04/14/15 04:54	5
Ethyl ether	ND		5.0		ug/L			04/14/15 04:54	5
Ethylbenzene	ND		5.0		ug/L			04/14/15 04:54	5
Ethylene Dibromide	ND		5.0		ug/L			04/14/15 04:54	5
Hexachlorobutadiene	ND		2.0		ug/L			04/14/15 04:54	5
Isopropyl ether	ND		50		ug/L			04/14/15 04:54	5

Client Sample ID: REW-12-20150407

Lab Sample ID: 480-78021-30

Date Collected: 04/07/15 12:00

Matrix: Water

Date Received: 04/09/15 00:45

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			04/14/15 04:54	5
Methyl tert-butyl ether	ND		5.0		ug/L			04/14/15 04:54	5
Methylene Chloride	ND		5.0		ug/L			04/14/15 04:54	5
m-Xylene & p-Xylene	ND		10		ug/L			04/14/15 04:54	5
Naphthalene	ND		25		ug/L			04/14/15 04:54	5
n-Butylbenzene	ND		5.0		ug/L			04/14/15 04:54	5
N-Propylbenzene	ND		5.0		ug/L			04/14/15 04:54	5
o-Xylene	ND		5.0		ug/L			04/14/15 04:54	5
sec-Butylbenzene	ND		5.0		ug/L			04/14/15 04:54	5
Styrene	ND		5.0		ug/L			04/14/15 04:54	5
Tert-amyl methyl ether	ND		25		ug/L			04/14/15 04:54	5
Tert-butyl ethyl ether	ND		25		ug/L			04/14/15 04:54	5
tert-Butylbenzene	ND		5.0		ug/L			04/14/15 04:54	5
Tetrachloroethene	ND		5.0		ug/L			04/14/15 04:54	5
Tetrahydrofuran	ND		50		ug/L			04/14/15 04:54	5
Toluene	**52**		5.0		ug/L			04/14/15 04:54	5
trans-1,2-Dichloroethene	ND		5.0		ug/L			04/14/15 04:54	5
trans-1,3-Dichloropropene	ND		2.0		ug/L			04/14/15 04:54	5
Trichloroethene	**35**		5.0		ug/L			04/14/15 04:54	5
Trichlorofluoromethane	ND		5.0		ug/L			04/14/15 04:54	5
Vinyl chloride	**65**		5.0		ug/L			04/14/15 04:54	5
Dibromomethane	ND		5.0		ug/L			04/14/15 04:54	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*97*		*70 - 130*		*04/14/15 04:54*	*5*
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 130*		*04/14/15 04:54*	*5*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*04/14/15 04:54*	*5*

Client Sample ID: DUP-1-20150407

Lab Sample ID: 480-78021-31

Date Collected: 04/07/15 00:00

Matrix: Water

Date Received: 04/09/15 00:45

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			04/13/15 14:45	50
1,1,1-Trichloroethane	ND		50		ug/L			04/13/15 14:45	50
1,1,2,2-Tetrachloroethane	ND		25		ug/L			04/13/15 14:45	50
1,1,2-Trichloroethane	ND		50		ug/L			04/13/15 14:45	50
1,1-Dichloroethane	ND		50		ug/L			04/13/15 14:45	50
1,1-Dichloroethene	ND		50		ug/L			04/13/15 14:45	50
1,1-Dichloropropene	ND		50		ug/L			04/13/15 14:45	50
1,2,3-Trichlorobenzene	ND		50		ug/L			04/13/15 14:45	50
1,2,3-Trichloropropane	ND		50		ug/L			04/13/15 14:45	50
1,2,4-Trichlorobenzene	ND		50		ug/L			04/13/15 14:45	50
1,2,4-Trimethylbenzene	ND		50		ug/L			04/13/15 14:45	50
1,2-Dibromo-3-Chloropropane	ND		250		ug/L			04/13/15 14:45	50
1,2-Dichlorobenzene	ND		50		ug/L			04/13/15 14:45	50
1,2-Dichloroethane	ND		50		ug/L			04/13/15 14:45	50
1,2-Dichloropropane	ND		50		ug/L			04/13/15 14:45	50
1,3,5-Trimethylbenzene	ND		50		ug/L			04/13/15 14:45	50

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

TestAmerica Job ID: 480-78021-1

Client Sample ID: DUP-1-20150407
Date Collected: 04/07/15 00:00
Date Received: 04/09/15 00:45

Lab Sample ID: 480-78021-31
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		50		ug/L			04/13/15 14:45	50
1,3-Dichloropropane	ND		50		ug/L			04/13/15 14:45	50
1,4-Dichlorobenzene	ND		50		ug/L			04/13/15 14:45	50
1,4-Dioxane	ND	F1 F2	2500		ug/L			04/13/15 14:45	50
2,2-Dichloropropane	ND		50		ug/L			04/13/15 14:45	50
2-Butanone (MEK)	ND	F1 *	500		ug/L			04/13/15 14:45	50
2-Chlorotoluene	ND		50		ug/L			04/13/15 14:45	50
2-Hexanone	ND		500		ug/L			04/13/15 14:45	50
4-Chlorotoluene	ND		50		ug/L			04/13/15 14:45	50
4-Isopropyltoluene	ND		50		ug/L			04/13/15 14:45	50
4-Methyl-2-pentanone (MIBK)	ND		500		ug/L			04/13/15 14:45	50
Acetone	ND		2500		ug/L			04/13/15 14:45	50
Benzene	ND		50		ug/L			04/13/15 14:45	50
Bromobenzene	ND		50		ug/L			04/13/15 14:45	50
Bromoform	ND		50		ug/L			04/13/15 14:45	50
Bromomethane	ND		100		ug/L			04/13/15 14:45	50
Carbon disulfide	ND		500		ug/L			04/13/15 14:45	50
Carbon tetrachloride	ND		50		ug/L			04/13/15 14:45	50
Chlorobenzene	ND		50		ug/L			04/13/15 14:45	50
Chlorobromomethane	ND		50		ug/L			04/13/15 14:45	50
Chlorodibromomethane	ND		25		ug/L			04/13/15 14:45	50
Chloroethane	ND		100		ug/L			04/13/15 14:45	50
Chloroform	ND		50		ug/L			04/13/15 14:45	50
Chloromethane	ND		100		ug/L			04/13/15 14:45	50
cis-1,2-Dichloroethene	**2200**		50		ug/L			04/13/15 14:45	50
cis-1,3-Dichloropropene	ND		20		ug/L			04/13/15 14:45	50
Dichlorobromomethane	ND		25		ug/L			04/13/15 14:45	50
Dichlorodifluoromethane	ND		50		ug/L			04/13/15 14:45	50
Ethyl ether	ND		50		ug/L			04/13/15 14:45	50
Ethylbenzene	ND		50		ug/L			04/13/15 14:45	50
Ethylene Dibromide	ND		50		ug/L			04/13/15 14:45	50
Hexachlorobutadiene	ND		20		ug/L			04/13/15 14:45	50
Isopropyl ether	ND		500		ug/L			04/13/15 14:45	50
Isopropylbenzene	ND		50		ug/L			04/13/15 14:45	50
Methyl tert-butyl ether	ND		50		ug/L			04/13/15 14:45	50
Methylene Chloride	ND		50		ug/L			04/13/15 14:45	50
m-Xylene & p-Xylene	ND		100		ug/L			04/13/15 14:45	50
Naphthalene	ND		250		ug/L			04/13/15 14:45	50
n-Butylbenzene	ND		50		ug/L			04/13/15 14:45	50
N-Propylbenzene	ND		50		ug/L			04/13/15 14:45	50
o-Xylene	ND		50		ug/L			04/13/15 14:45	50
sec-Butylbenzene	ND		50		ug/L			04/13/15 14:45	50
Styrene	ND		50		ug/L			04/13/15 14:45	50
Tert-amyl methyl ether	ND		250		ug/L			04/13/15 14:45	50
Tert-butyl ethyl ether	ND		250		ug/L			04/13/15 14:45	50
tert-Butylbenzene	ND		50		ug/L			04/13/15 14:45	50
Tetrachloroethene	ND		50		ug/L			04/13/15 14:45	50
Tetrahydrofuran	ND	F1	500		ug/L			04/13/15 14:45	50
Toluene	ND		50		ug/L			04/13/15 14:45	50

Client Sample ID: DUP-1-20150407

Lab Sample ID: 480-78021-31

Date Collected: 04/07/15 00:00

Matrix: Water

Date Received: 04/09/15 00:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	ND		50		ug/L			04/13/15 14:45	50
trans-1,3-Dichloropropene	ND		20		ug/L			04/13/15 14:45	50
Trichloroethene	**1300**		50		ug/L			04/13/15 14:45	50
Trichlorofluoromethane	ND		50		ug/L			04/13/15 14:45	50
Vinyl chloride	**180**		50		ug/L			04/13/15 14:45	50
Dibromomethane	ND		50		ug/L			04/13/15 14:45	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*99*		*70 - 130*		*04/13/15 14:45*	*50*
1,2-Dichloroethane-d4 (Surr)	*105*		*70 - 130*		*04/13/15 14:45*	*50*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*04/13/15 14:45*	*50*

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	**14**		0.20		ug/L		04/10/15 19:00	04/11/15 18:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*73*		*70 - 130*	*04/10/15 19:00*	*04/11/15 18:38*	*1*

Client Sample ID: DUP-2-20150407

Lab Sample ID: 480-78021-32

Date Collected: 04/07/15 00:00

Matrix: Water

Date Received: 04/09/15 00:45

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			04/13/15 15:08	5
1,1,1-Trichloroethane	ND		5.0		ug/L			04/13/15 15:08	5
1,1,2,2-Tetrachloroethane	ND		2.5		ug/L			04/13/15 15:08	5
1,1,2-Trichloroethane	ND		5.0		ug/L			04/13/15 15:08	5
1,1-Dichloroethane	ND		5.0		ug/L			04/13/15 15:08	5
1,1-Dichloroethene	ND		5.0		ug/L			04/13/15 15:08	5
1,1-Dichloropropene	ND		5.0		ug/L			04/13/15 15:08	5
1,2,3-Trichlorobenzene	ND		5.0		ug/L			04/13/15 15:08	5
1,2,3-Trichloropropane	ND		5.0		ug/L			04/13/15 15:08	5
1,2,4-Trichlorobenzene	ND		5.0		ug/L			04/13/15 15:08	5
1,2,4-Trimethylbenzene	ND		5.0		ug/L			04/13/15 15:08	5
1,2-Dibromo-3-Chloropropane	ND		25		ug/L			04/13/15 15:08	5
1,2-Dichlorobenzene	ND		5.0		ug/L			04/13/15 15:08	5
1,2-Dichloroethane	ND		5.0		ug/L			04/13/15 15:08	5
1,2-Dichloropropane	ND		5.0		ug/L			04/13/15 15:08	5
1,3,5-Trimethylbenzene	ND		5.0		ug/L			04/13/15 15:08	5
1,3-Dichlorobenzene	ND		5.0		ug/L			04/13/15 15:08	5
1,3-Dichloropropane	ND		5.0		ug/L			04/13/15 15:08	5
1,4-Dichlorobenzene	ND		5.0		ug/L			04/13/15 15:08	5
1,4-Dioxane	ND		250		ug/L			04/13/15 15:08	5
2,2-Dichloropropane	ND		5.0		ug/L			04/13/15 15:08	5
2-Butanone (MEK)	ND	*	50		ug/L			04/13/15 15:08	5
2-Chlorotoluene	ND		5.0		ug/L			04/13/15 15:08	5
2-Hexanone	ND		50		ug/L			04/13/15 15:08	5
4-Chlorotoluene	ND		5.0		ug/L			04/13/15 15:08	5

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

TestAmerica Job ID: 480-78021-1

Client Sample ID: DUP-2-20150407
Date Collected: 04/07/15 00:00
Date Received: 04/09/15 00:45

Lab Sample ID: 480-78021-32
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Isopropyltoluene	ND		5.0		ug/L			04/13/15 15:08	5
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			04/13/15 15:08	5
Acetone	ND		250		ug/L			04/13/15 15:08	5
Benzene	ND		5.0		ug/L			04/13/15 15:08	5
Bromobenzene	ND		5.0		ug/L			04/13/15 15:08	5
Bromoform	ND		5.0		ug/L			04/13/15 15:08	5
Bromomethane	ND		10		ug/L			04/13/15 15:08	5
Carbon disulfide	ND		50		ug/L			04/13/15 15:08	5
Carbon tetrachloride	ND		5.0		ug/L			04/13/15 15:08	5
Chlorobenzene	ND		5.0		ug/L			04/13/15 15:08	5
Chlorobromomethane	ND		5.0		ug/L			04/13/15 15:08	5
Chlorodibromomethane	ND		2.5		ug/L			04/13/15 15:08	5
Chloroethane	ND		10		ug/L			04/13/15 15:08	5
Chloroform	ND		5.0		ug/L			04/13/15 15:08	5
Chloromethane	ND		10		ug/L			04/13/15 15:08	5
cis-1,2-Dichloroethene	**210**		5.0		ug/L			04/13/15 15:08	5
cis-1,3-Dichloropropene	ND		2.0		ug/L			04/13/15 15:08	5
Dichlorobromomethane	ND		2.5		ug/L			04/13/15 15:08	5
Dichlorodifluoromethane	ND		5.0		ug/L			04/13/15 15:08	5
Ethyl ether	ND		5.0		ug/L			04/13/15 15:08	5
Ethylbenzene	ND		5.0		ug/L			04/13/15 15:08	5
Ethylene Dibromide	ND		5.0		ug/L			04/13/15 15:08	5
Hexachlorobutadiene	ND		2.0		ug/L			04/13/15 15:08	5
Isopropyl ether	ND		50		ug/L			04/13/15 15:08	5
Isopropylbenzene	ND		5.0		ug/L			04/13/15 15:08	5
Methyl tert-butyl ether	ND		5.0		ug/L			04/13/15 15:08	5
Methylene Chloride	ND		5.0		ug/L			04/13/15 15:08	5
m-Xylene & p-Xylene	ND		10		ug/L			04/13/15 15:08	5
Naphthalene	ND		25		ug/L			04/13/15 15:08	5
n-Butylbenzene	ND		5.0		ug/L			04/13/15 15:08	5
N-Propylbenzene	ND		5.0		ug/L			04/13/15 15:08	5
o-Xylene	ND		5.0		ug/L			04/13/15 15:08	5
sec-Butylbenzene	ND		5.0		ug/L			04/13/15 15:08	5
Styrene	ND		5.0		ug/L			04/13/15 15:08	5
Tert-amyl methyl ether	ND		25		ug/L			04/13/15 15:08	5
Tert-butyl ethyl ether	ND		25		ug/L			04/13/15 15:08	5
tert-Butylbenzene	ND		5.0		ug/L			04/13/15 15:08	5
Tetrachloroethene	ND		5.0		ug/L			04/13/15 15:08	5
Tetrahydrofuran	ND		50		ug/L			04/13/15 15:08	5
Toluene	**55**		5.0		ug/L			04/13/15 15:08	5
trans-1,2-Dichloroethene	ND		5.0		ug/L			04/13/15 15:08	5
trans-1,3-Dichloropropene	ND		2.0		ug/L			04/13/15 15:08	5
Trichloroethene	**38**		5.0		ug/L			04/13/15 15:08	5
Trichlorofluoromethane	ND		5.0		ug/L			04/13/15 15:08	5
Vinyl chloride	**68**		5.0		ug/L			04/13/15 15:08	5
Dibromomethane	ND		5.0		ug/L			04/13/15 15:08	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*96*		*70 - 130*		*04/13/15 15:08*	*5*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 130*		*04/13/15 15:08*	*5*

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

TestAmerica Job ID: 480-78021-1

Client Sample ID: DUP-2-20150407

Lab Sample ID: 480-78021-32

Date Collected: 04/07/15 00:00

Matrix: Water

Date Received: 04/09/15 00:45

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130		04/13/15 15:08	5

Client Sample ID: DUP-3-20150408

Lab Sample ID: 480-78021-33

Date Collected: 04/08/15 00:00

Matrix: Water

Date Received: 04/09/15 00:45

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			04/14/15 05:18	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/14/15 05:18	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/14/15 05:18	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/14/15 05:18	1
1,1-Dichloroethane	ND		1.0		ug/L			04/14/15 05:18	1
1,1-Dichloroethene	ND		1.0		ug/L			04/14/15 05:18	1
1,1-Dichloropropene	ND		1.0		ug/L			04/14/15 05:18	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/14/15 05:18	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/14/15 05:18	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/14/15 05:18	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/14/15 05:18	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/14/15 05:18	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/14/15 05:18	1
1,2-Dichloroethane	ND		1.0		ug/L			04/14/15 05:18	1
1,2-Dichloropropane	ND		1.0		ug/L			04/14/15 05:18	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/14/15 05:18	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/14/15 05:18	1
1,3-Dichloropropane	ND		1.0		ug/L			04/14/15 05:18	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/14/15 05:18	1
1,4-Dioxane	ND	*	50		ug/L			04/14/15 05:18	1
2,2-Dichloropropane	ND		1.0		ug/L			04/14/15 05:18	1
2-Butanone (MEK)	**14**	*	10		ug/L			04/14/15 05:18	1
2-Chlorotoluene	ND		1.0		ug/L			04/14/15 05:18	1
2-Hexanone	ND		10		ug/L			04/14/15 05:18	1
4-Chlorotoluene	ND		1.0		ug/L			04/14/15 05:18	1
4-Isopropyltoluene	ND		1.0		ug/L			04/14/15 05:18	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/14/15 05:18	1
Benzene	ND		1.0		ug/L			04/14/15 05:18	1
Bromobenzene	ND		1.0		ug/L			04/14/15 05:18	1
Bromoform	ND		1.0		ug/L			04/14/15 05:18	1
Bromomethane	ND		2.0		ug/L			04/14/15 05:18	1
Carbon disulfide	ND		10		ug/L			04/14/15 05:18	1
Carbon tetrachloride	ND		1.0		ug/L			04/14/15 05:18	1
Chlorobenzene	ND		1.0		ug/L			04/14/15 05:18	1
Chlorobromomethane	ND		1.0		ug/L			04/14/15 05:18	1
Chlorodibromomethane	ND		0.50		ug/L			04/14/15 05:18	1
Chloroethane	ND		2.0		ug/L			04/14/15 05:18	1
Chloroform	ND		1.0		ug/L			04/14/15 05:18	1
Chloromethane	ND		2.0		ug/L			04/14/15 05:18	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			04/14/15 05:18	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/14/15 05:18	1

Client Sample ID: DUP-3-20150408
Date Collected: 04/08/15 00:00
Date Received: 04/09/15 00:45

Lab Sample ID: 480-78021-33
Matrix: Water

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			04/14/15 05:18	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/14/15 05:18	1
Ethyl ether	ND		1.0		ug/L			04/14/15 05:18	1
Ethylbenzene	**3.6**		1.0		ug/L			04/14/15 05:18	1
Ethylene Dibromide	ND		1.0		ug/L			04/14/15 05:18	1
Hexachlorobutadiene	ND		0.40		ug/L			04/14/15 05:18	1
Isopropyl ether	ND		10		ug/L			04/14/15 05:18	1
Isopropylbenzene	ND		1.0		ug/L			04/14/15 05:18	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/14/15 05:18	1
Methylene Chloride	ND		1.0		ug/L			04/14/15 05:18	1
m-Xylene & p-Xylene	**11**		2.0		ug/L			04/14/15 05:18	1
Naphthalene	ND		5.0		ug/L			04/14/15 05:18	1
n-Butylbenzene	ND		1.0		ug/L			04/14/15 05:18	1
N-Propylbenzene	ND		1.0		ug/L			04/14/15 05:18	1
o-Xylene	**1.2**		1.0		ug/L			04/14/15 05:18	1
sec-Butylbenzene	ND		1.0		ug/L			04/14/15 05:18	1
Styrene	ND		1.0		ug/L			04/14/15 05:18	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/14/15 05:18	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/14/15 05:18	1
tert-Butylbenzene	ND		1.0		ug/L			04/14/15 05:18	1
Tetrachloroethene	ND		1.0		ug/L			04/14/15 05:18	1
Tetrahydrofuran	ND		10		ug/L			04/14/15 05:18	1
Toluene	**9.1**		1.0		ug/L			04/14/15 05:18	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/14/15 05:18	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/14/15 05:18	1
Trichloroethene	ND		1.0		ug/L			04/14/15 05:18	1
Trichlorofluoromethane	ND		1.0		ug/L			04/14/15 05:18	1
Vinyl chloride	ND		1.0		ug/L			04/14/15 05:18	1
Dibromomethane	ND		1.0		ug/L			04/14/15 05:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*96*		*70 - 130*		*04/14/15 05:18*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 130*		*04/14/15 05:18*	*1*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*		*04/14/15 05:18*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**830**		100		ug/L			04/16/15 14:55	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*99*		*70 - 130*		*04/16/15 14:55*	*2*
1,2-Dichloroethane-d4 (Surr)	*107*		*70 - 130*		*04/16/15 14:55*	*2*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*		*04/16/15 14:55*	*2*

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

TestAmerica Job ID: 480-78021-1

Client Sample ID: TRIP BLANK
Date Collected: 04/08/15 00:00
Date Received: 04/09/15 00:45

Lab Sample ID: 480-78021-34
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			04/14/15 02:31	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/14/15 02:31	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/14/15 02:31	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/14/15 02:31	1
1,1-Dichloroethane	ND		1.0		ug/L			04/14/15 02:31	1
1,1-Dichloroethene	ND		1.0		ug/L			04/14/15 02:31	1
1,1-Dichloropropene	ND		1.0		ug/L			04/14/15 02:31	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/14/15 02:31	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/14/15 02:31	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/14/15 02:31	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/14/15 02:31	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/14/15 02:31	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/14/15 02:31	1
1,2-Dichloroethane	ND		1.0		ug/L			04/14/15 02:31	1
1,2-Dichloropropane	ND		1.0		ug/L			04/14/15 02:31	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/14/15 02:31	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/14/15 02:31	1
1,3-Dichloropropane	ND		1.0		ug/L			04/14/15 02:31	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/14/15 02:31	1
1,4-Dioxane	ND	*	50		ug/L			04/14/15 02:31	1
2,2-Dichloropropane	ND		1.0		ug/L			04/14/15 02:31	1
2-Butanone (MEK)	ND	*	10		ug/L			04/14/15 02:31	1
2-Chlorotoluene	ND		1.0		ug/L			04/14/15 02:31	1
2-Hexanone	ND		10		ug/L			04/14/15 02:31	1
4-Chlorotoluene	ND		1.0		ug/L			04/14/15 02:31	1
4-Isopropyltoluene	ND		1.0		ug/L			04/14/15 02:31	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/14/15 02:31	1
Acetone	ND		50		ug/L			04/14/15 02:31	1
Benzene	ND		1.0		ug/L			04/14/15 02:31	1
Bromobenzene	ND		1.0		ug/L			04/14/15 02:31	1
Bromoform	ND		1.0		ug/L			04/14/15 02:31	1
Bromomethane	ND		2.0		ug/L			04/14/15 02:31	1
Carbon disulfide	ND		10		ug/L			04/14/15 02:31	1
Carbon tetrachloride	ND		1.0		ug/L			04/14/15 02:31	1
Chlorobenzene	ND		1.0		ug/L			04/14/15 02:31	1
Chlorobromomethane	ND		1.0		ug/L			04/14/15 02:31	1
Chlorodibromomethane	ND		0.50		ug/L			04/14/15 02:31	1
Chloroethane	ND		2.0		ug/L			04/14/15 02:31	1
Chloroform	ND		1.0		ug/L			04/14/15 02:31	1
Chloromethane	ND		2.0		ug/L			04/14/15 02:31	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			04/14/15 02:31	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/14/15 02:31	1
Dichlorobromomethane	ND		0.50		ug/L			04/14/15 02:31	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/14/15 02:31	1
Ethyl ether	ND		1.0		ug/L			04/14/15 02:31	1
Ethylbenzene	ND		1.0		ug/L			04/14/15 02:31	1
Ethylene Dibromide	ND		1.0		ug/L			04/14/15 02:31	1
Hexachlorobutadiene	ND		0.40		ug/L			04/14/15 02:31	1
Isopropyl ether	ND		10		ug/L			04/14/15 02:31	1

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

TestAmerica Job ID: 480-78021-1

Client Sample ID: TRIP BLANK
Date Collected: 04/08/15 00:00
Date Received: 04/09/15 00:45

Lab Sample ID: 480-78021-34
Matrix: Water

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			04/14/15 02:31	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/14/15 02:31	1
Methylene Chloride	ND		1.0		ug/L			04/14/15 02:31	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/14/15 02:31	1
Naphthalene	ND		5.0		ug/L			04/14/15 02:31	1
n-Butylbenzene	ND		1.0		ug/L			04/14/15 02:31	1
N-Propylbenzene	ND		1.0		ug/L			04/14/15 02:31	1
o-Xylene	ND		1.0		ug/L			04/14/15 02:31	1
sec-Butylbenzene	ND		1.0		ug/L			04/14/15 02:31	1
Styrene	ND		1.0		ug/L			04/14/15 02:31	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/14/15 02:31	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/14/15 02:31	1
tert-Butylbenzene	ND		1.0		ug/L			04/14/15 02:31	1
Tetrachloroethene	ND		1.0		ug/L			04/14/15 02:31	1
Tetrahydrofuran	ND		10		ug/L			04/14/15 02:31	1
Toluene	ND		1.0		ug/L			04/14/15 02:31	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/14/15 02:31	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/14/15 02:31	1
Trichloroethene	ND		1.0		ug/L			04/14/15 02:31	1
Trichlorofluoromethane	ND		1.0		ug/L			04/14/15 02:31	1
Vinyl chloride	ND		1.0		ug/L			04/14/15 02:31	1
Dibromomethane	ND		1.0		ug/L			04/14/15 02:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*98*		*70 - 130*		*04/14/15 02:31*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 130*		*04/14/15 02:31*	*1*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*		*04/14/15 02:31*	*1*

Surrogate Summary

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

TestAmerica Job ID: 480-78021-1

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)
480-78021-1	MW-261S-20150407	97	107	101
480-78021-1 - DL	MW-261S-20150407	98	102	99
480-78021-2	MW-264M-20150408	95	102	96
480-78021-3	MW-265S-20150408	97	100	98
480-78021-4	MW-265M-20150407	97	105	99
480-78021-5	MW-265D-20150408	98	99	99
480-78021-6	MW-266Ma-20150408	97	102	97
480-78021-7	MW-266Mb-20150408	96	102	97
480-78021-8	MW-267S-20150408	98	99	100
480-78021-9	MW-267M-20150408	98	103	96
480-78021-10	MW-268S-20150408	97	101	97
480-78021-10 - DL	MW-268S-20150408	98	103	98
480-78021-11	MW-268M-20150408	96	102	97
480-78021-12	MW-268D-20150408	97	104	99
480-78021-13	MW-269Ma-20150408	97	100	97
480-78021-14	MW-551-20150408	98	102	100
480-78021-14 - DL	MW-551-20150408	97	105	97
480-78021-15	MW-552-20150408	96	101	98
480-78021-16	MW-553-20150408	96	99	97
480-78021-17	MW-560-20150407	97	104	100
480-78021-18	MW-561-20150407	97	102	99
480-78021-19	MW-562-20150407	100	105	97
480-78021-20	MW-563-20150407	98	108	102
480-78021-21	REW-1-20150407	100	77	91
480-78021-22	REW-4-20150407	96	103	100
480-78021-23	REW-5-20150407	97	102	100
480-78021-24	REW-6-20150407	97	105	98
480-78021-25	REW-7-20150407	97	106	102
480-78021-26	REW-8-20150407	97	106	99
480-78021-27	REW-9-20150407	98	102	101
480-78021-28	REW-10-20150407	96	104	100
480-78021-29	REW-11-20150407	96	102	98
480-78021-30	REW-12-20150407	97	103	99
480-78021-31	DUP-1-20150407	99	105	99
480-78021-31 MS	DUP-1-20150407	98	103	103
480-78021-31 MSD	DUP-1-20150407	95	100	101
480-78021-32	DUP-2-20150407	96	98	98
480-78021-33	DUP-3-20150408	96	103	100
480-78021-33 - DL	DUP-3-20150408	99	107	104
480-78021-34	TRIP BLANK	98	98	98
LCS 480-235341/4	Lab Control Sample	99	103	101
LCS 480-235529/4	Lab Control Sample	98	101	102
LCS 480-235783/5	Lab Control Sample	97	105	99
LCS 480-235943/4	Lab Control Sample	100	102	104
LCS 480-236494/4	Lab Control Sample	99	101	102
LCSD 480-235341/5	Lab Control Sample Dup	97	101	99
LCSD 480-235529/5	Lab Control Sample Dup	98	103	99
LCSD 480-235783/6	Lab Control Sample Dup	98	103	98
LCSD 480-235943/5	Lab Control Sample Dup	97	101	101

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

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)
LCSD 480-236494/5	Lab Control Sample Dup	98	101	105
MB 480-235341/7	Method Blank	97	102	98
MB 480-235529/7	Method Blank	98	99	97
MB 480-235783/8	Method Blank	97	103	99
MB 480-235943/7	Method Blank	97	103	99
MB 480-236494/10	Method Blank	99	103	103

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)
Lab Sample ID	Client Sample ID	14DD8 (70-130)
480-78021-1	MW-261S-20150407	91
480-78021-4	MW-265M-20150407	83
480-78021-6	MW-266Ma-20150408	83
480-78021-8	MW-267S-20150408	52 X
480-78021-9	MW-267M-20150408	65 X
480-78021-10	MW-268S-20150408	87
480-78021-11	MW-268M-20150408	77
480-78021-13	MW-269Ma-20150408	89
480-78021-15	MW-552-20150408	89
480-78021-31	DUP-1-20150407	73
LCS 200-86749/2-A	Lab Control Sample	82
MB 200-86749/1-A	Method Blank	82

Surrogate Legend

14DD8 = 1,4-Dioxane-d8 (Surr)

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

Lab Sample ID: MB 480-235341/7
Matrix: Water
Analysis Batch: 235341

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			04/10/15 12:47	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/10/15 12:47	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/10/15 12:47	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/10/15 12:47	1
1,1-Dichloroethane	ND		1.0		ug/L			04/10/15 12:47	1
1,1-Dichloroethene	ND		1.0		ug/L			04/10/15 12:47	1
1,1-Dichloropropene	ND		1.0		ug/L			04/10/15 12:47	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/10/15 12:47	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/10/15 12:47	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/10/15 12:47	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/10/15 12:47	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/10/15 12:47	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/10/15 12:47	1
1,2-Dichloroethane	ND		1.0		ug/L			04/10/15 12:47	1
1,2-Dichloropropane	ND		1.0		ug/L			04/10/15 12:47	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/10/15 12:47	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/10/15 12:47	1
1,3-Dichloropropane	ND		1.0		ug/L			04/10/15 12:47	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/10/15 12:47	1
1,4-Dioxane	ND		50		ug/L			04/10/15 12:47	1
2,2-Dichloropropane	ND		1.0		ug/L			04/10/15 12:47	1
2-Butanone (MEK)	ND		10		ug/L			04/10/15 12:47	1
2-Chlorotoluene	ND		1.0		ug/L			04/10/15 12:47	1
2-Hexanone	ND		10		ug/L			04/10/15 12:47	1
4-Chlorotoluene	ND		1.0		ug/L			04/10/15 12:47	1
4-Isopropyltoluene	ND		1.0		ug/L			04/10/15 12:47	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/10/15 12:47	1
Acetone	ND		50		ug/L			04/10/15 12:47	1
Benzene	ND		1.0		ug/L			04/10/15 12:47	1
Bromobenzene	ND		1.0		ug/L			04/10/15 12:47	1
Bromoform	ND		1.0		ug/L			04/10/15 12:47	1
Bromomethane	ND		2.0		ug/L			04/10/15 12:47	1
Carbon disulfide	ND		10		ug/L			04/10/15 12:47	1
Carbon tetrachloride	ND		1.0		ug/L			04/10/15 12:47	1
Chlorobenzene	ND		1.0		ug/L			04/10/15 12:47	1
Chlorobromomethane	ND		1.0		ug/L			04/10/15 12:47	1
Chlorodibromomethane	ND		0.50		ug/L			04/10/15 12:47	1
Chloroethane	ND		2.0		ug/L			04/10/15 12:47	1
Chloroform	ND		1.0		ug/L			04/10/15 12:47	1
Chloromethane	ND		2.0		ug/L			04/10/15 12:47	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			04/10/15 12:47	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/10/15 12:47	1
Dichlorobromomethane	ND		0.50		ug/L			04/10/15 12:47	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/10/15 12:47	1
Ethyl ether	ND		1.0		ug/L			04/10/15 12:47	1
Ethylbenzene	ND		1.0		ug/L			04/10/15 12:47	1
Ethylene Dibromide	ND		1.0		ug/L			04/10/15 12:47	1
Hexachlorobutadiene	ND		0.40		ug/L			04/10/15 12:47	1

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

Lab Sample ID: MB 480-235341/7
Matrix: Water
Analysis Batch: 235341

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			04/10/15 12:47	1
Isopropylbenzene	ND		1.0		ug/L			04/10/15 12:47	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/10/15 12:47	1
Methylene Chloride	ND		1.0		ug/L			04/10/15 12:47	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/10/15 12:47	1
Naphthalene	ND		5.0		ug/L			04/10/15 12:47	1
n-Butylbenzene	ND		1.0		ug/L			04/10/15 12:47	1
N-Propylbenzene	ND		1.0		ug/L			04/10/15 12:47	1
o-Xylene	ND		1.0		ug/L			04/10/15 12:47	1
sec-Butylbenzene	ND		1.0		ug/L			04/10/15 12:47	1
Styrene	ND		1.0		ug/L			04/10/15 12:47	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/10/15 12:47	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/10/15 12:47	1
tert-Butylbenzene	ND		1.0		ug/L			04/10/15 12:47	1
Tetrachloroethene	ND		1.0		ug/L			04/10/15 12:47	1
Tetrahydrofuran	ND		10		ug/L			04/10/15 12:47	1
Toluene	ND		1.0		ug/L			04/10/15 12:47	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/10/15 12:47	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/10/15 12:47	1
Trichloroethene	ND		1.0		ug/L			04/10/15 12:47	1
Trichlorofluoromethane	ND		1.0		ug/L			04/10/15 12:47	1
Vinyl chloride	ND		1.0		ug/L			04/10/15 12:47	1
Dibromomethane	ND		1.0		ug/L			04/10/15 12:47	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*97*		*70 - 130*		*04/10/15 12:47*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 130*		*04/10/15 12:47*	*1*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*		*04/10/15 12:47*	*1*

Lab Sample ID: LCS 480-235341/4
Matrix: Water
Analysis Batch: 235341

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	26.1		ug/L		105	70 - 130
1,1,2,2-Tetrachloroethane	25.0	23.6		ug/L		94	70 - 130
1,1,2-Trichloroethane	25.0	24.8		ug/L		99	70 - 130
1,1-Dichloroethane	25.0	26.1		ug/L		104	70 - 130
1,1-Dichloroethene	25.0	24.1		ug/L		96	70 - 130
1,1-Dichloropropene	25.0	26.2		ug/L		105	70 - 130
1,2,3-Trichlorobenzene	25.0	26.8		ug/L		107	70 - 130
1,2,3-Trichloropropane	25.0	24.4		ug/L		98	70 - 130
1,2,4-Trichlorobenzene	25.0	25.2		ug/L		101	70 - 130
1,2,4-Trimethylbenzene	25.0	25.2		ug/L		101	70 - 130
1,2-Dibromo-3-Chloropropane	25.0	23.1		ug/L		92	70 - 130
1,2-Dichlorobenzene	25.0	24.9		ug/L		100	70 - 130
1,2-Dichloroethane	25.0	25.5		ug/L		102	70 - 130

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

Lab Sample ID: LCS 480-235341/4
Matrix: Water
Analysis Batch: 235341

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	26.0		ug/L		104	70 - 130
1,3,5-Trimethylbenzene	25.0	25.3		ug/L		101	70 - 130
1,3-Dichlorobenzene	25.0	25.5		ug/L		102	70 - 130
1,3-Dichloropropane	25.0	24.3		ug/L		97	70 - 130
1,4-Dichlorobenzene	25.0	25.2		ug/L		101	70 - 130
1,4-Dioxane	500	373		ug/L		75	70 - 130
2,2-Dichloropropane	25.0	25.9		ug/L		103	70 - 130
2-Butanone (MEK)	125	230	*	ug/L		184	70 - 130
2-Chlorotoluene	25.0	24.6		ug/L		99	70 - 130
2-Hexanone	125	121		ug/L		96	70 - 130
4-Chlorotoluene	25.0	25.3		ug/L		101	70 - 130
4-Isopropyltoluene	25.0	25.8		ug/L		103	70 - 130
4-Methyl-2-pentanone (MIBK)	125	116		ug/L		93	70 - 130
Acetone	125	146		ug/L		117	70 - 130
Benzene	25.0	25.3		ug/L		101	70 - 130
Bromobenzene	25.0	25.1		ug/L		101	70 - 130
Bromoform	25.0	24.7		ug/L		99	70 - 130
Bromomethane	25.0	23.9		ug/L		95	70 - 130
Carbon disulfide	25.0	24.7		ug/L		99	70 - 130
Carbon tetrachloride	25.0	25.9		ug/L		104	70 - 130
Chlorobenzene	25.0	25.8		ug/L		103	70 - 130
Chlorobromomethane	25.0	26.3		ug/L		105	70 - 130
Chlorodibromomethane	25.0	26.3		ug/L		105	70 - 130
Chloroethane	25.0	22.4		ug/L		90	70 - 130
Chloroform	25.0	25.5		ug/L		102	70 - 130
Chloromethane	25.0	22.5		ug/L		90	70 - 130
cis-1,2-Dichloroethene	25.0	26.1		ug/L		105	70 - 130
cis-1,3-Dichloropropene	25.0	26.1		ug/L		104	70 - 130
Dichlorobromomethane	25.0	25.9		ug/L		104	70 - 130
Dichlorodifluoromethane	25.0	23.0		ug/L		92	70 - 130
Ethyl ether	25.0	24.9		ug/L		100	70 - 130
Ethylbenzene	25.0	25.3		ug/L		101	70 - 130
Ethylene Dibromide	25.0	25.4		ug/L		101	70 - 130
Hexachlorobutadiene	25.0	27.1		ug/L		108	70 - 130
Isopropyl ether	25.0	25.7		ug/L		103	70 - 130
Isopropylbenzene	25.0	25.2		ug/L		101	70 - 130
Methyl tert-butyl ether	25.0	25.2		ug/L		101	70 - 130
Methylene Chloride	25.0	25.4		ug/L		101	70 - 130
m-Xylene & p-Xylene	25.0	25.4		ug/L		102	70 - 130
Naphthalene	25.0	26.0		ug/L		104	70 - 130
n-Butylbenzene	25.0	25.9		ug/L		104	70 - 130
N-Propylbenzene	25.0	24.8		ug/L		99	70 - 130
o-Xylene	25.0	25.4		ug/L		102	70 - 130
sec-Butylbenzene	25.0	25.6		ug/L		102	70 - 130
Styrene	25.0	25.2		ug/L		101	70 - 130
Tert-amyl methyl ether	25.0	25.1		ug/L		100	70 - 130
Tert-butyl ethyl ether	25.0	25.4		ug/L		102	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 480-235341/4
Matrix: Water
Analysis Batch: 235341

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	26.9		ug/L		107	70 - 130		
Tetrahydrofuran			50.0	64.0		ug/L		128	70 - 130		
Toluene			25.0	24.9		ug/L		100	70 - 130		
trans-1,2-Dichloroethene			25.0	25.6		ug/L		103	70 - 130		
trans-1,3-Dichloropropene			25.0	24.5		ug/L		98	70 - 130		
Trichloroethene			25.0	25.8		ug/L		103	70 - 130		
Trichlorofluoromethane			25.0	25.0		ug/L		100	70 - 130		
Vinyl chloride			25.0	22.7		ug/L		91	70 - 130		
Dibromomethane			25.0	26.0		ug/L		104	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)	*101*		*70 - 130*

Lab Sample ID: LCSD 480-235341/5
Matrix: Water
Analysis Batch: 235341

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	25.7		ug/L		103	70 - 130	0	20
1,1,1-Trichloroethane			25.0	26.4		ug/L		106	70 - 130	1	20
1,1,2,2-Tetrachloroethane			25.0	23.2		ug/L		93	70 - 130	2	20
1,1,2-Trichloroethane			25.0	24.6		ug/L		99	70 - 130	1	20
1,1-Dichloroethane			25.0	27.1		ug/L		108	70 - 130	4	20
1,1-Dichloroethene			25.0	25.4		ug/L		102	70 - 130	6	20
1,1-Dichloropropene			25.0	26.5		ug/L		106	70 - 130	1	20
1,2,3-Trichlorobenzene			25.0	26.1		ug/L		105	70 - 130	2	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	2	20
1,2,4-Trimethylbenzene			25.0	25.2		ug/L		101	70 - 130	0	20
1,2-Dibromo-3-Chloropropane			25.0	24.3		ug/L		97	70 - 130	5	20
1,2-Dichlorobenzene			25.0	25.2		ug/L		101	70 - 130	1	20
1,2-Dichloroethane			25.0	25.3		ug/L		101	70 - 130	1	20
1,2-Dichloropropane			25.0	26.1		ug/L		104	70 - 130	1	20
1,3,5-Trimethylbenzene			25.0	25.3		ug/L		101	70 - 130	0	20
1,3-Dichlorobenzene			25.0	25.6		ug/L		102	70 - 130	0	20
1,3-Dichloropropane			25.0	24.1		ug/L		96	70 - 130	1	20
1,4-Dichlorobenzene			25.0	25.7		ug/L		103	70 - 130	2	20
1,4-Dioxane			500	394		ug/L		79	70 - 130	6	20
2,2-Dichloropropane			25.0	26.3		ug/L		105	70 - 130	1	20
2-Butanone (MEK)			125	226	*	ug/L		180	70 - 130	2	20
2-Chlorotoluene			25.0	25.0		ug/L		100	70 - 130	1	20
2-Hexanone			125	118		ug/L		94	70 - 130	2	20
4-Chlorotoluene			25.0	25.4		ug/L		102	70 - 130	1	20
4-Isopropyltoluene			25.0	26.1		ug/L		104	70 - 130	1	20
4-Methyl-2-pentanone (MIBK)			125	113		ug/L		91	70 - 130	2	20
Acetone			125	142		ug/L		114	70 - 130	3	20

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

Lab Sample ID: LCSD 480-235341/5
Matrix: Water
Analysis Batch: 235341

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	25.4		ug/L		102	70 - 130	0	20
Bromobenzene			25.0	25.3		ug/L		101	70 - 130	1	20
Bromoform			25.0	23.9		ug/L		96	70 - 130	3	20
Bromomethane			25.0	23.9		ug/L		95	70 - 130	0	20
Carbon disulfide			25.0	25.1		ug/L		100	70 - 130	2	20
Carbon tetrachloride			25.0	26.6		ug/L		106	70 - 130	3	20
Chlorobenzene			25.0	25.7		ug/L		103	70 - 130	1	20
Chlorobromomethane			25.0	26.3		ug/L		105	70 - 130	0	20
Chlorodibromomethane			25.0	26.5		ug/L		106	70 - 130	1	20
Chloroethane			25.0	22.8		ug/L		91	70 - 130	2	20
Chloroform			25.0	26.0		ug/L		104	70 - 130	2	20
Chloromethane			25.0	22.5		ug/L		90	70 - 130	0	20
cis-1,2-Dichloroethene			25.0	25.6		ug/L		102	70 - 130	2	20
cis-1,3-Dichloropropene			25.0	25.8		ug/L		103	70 - 130	1	20
Dichlorobromomethane			25.0	26.2		ug/L		105	70 - 130	1	20
Dichlorodifluoromethane			25.0	23.3		ug/L		93	70 - 130	1	20
Ethyl ether			25.0	24.5		ug/L		98	70 - 130	2	20
Ethylbenzene			25.0	25.4		ug/L		102	70 - 130	0	20
Ethylene Dibromide			25.0	24.8		ug/L		99	70 - 130	2	20
Hexachlorobutadiene			25.0	27.4		ug/L		110	70 - 130	1	20
Isopropyl ether			25.0	25.6		ug/L		102	70 - 130	0	20
Isopropylbenzene			25.0	25.5		ug/L		102	70 - 130	1	20
Methyl tert-butyl ether			25.0	24.7		ug/L		99	70 - 130	2	20
Methylene Chloride			25.0	25.0		ug/L		100	70 - 130	2	20
m-Xylene & p-Xylene			25.0	25.0		ug/L		100	70 - 130	1	20
Naphthalene			25.0	25.6		ug/L		102	70 - 130	2	20
n-Butylbenzene			25.0	25.9		ug/L		104	70 - 130	0	20
N-Propylbenzene			25.0	25.0		ug/L		100	70 - 130	1	20
o-Xylene			25.0	25.1		ug/L		101	70 - 130	1	20
sec-Butylbenzene			25.0	26.1		ug/L		104	70 - 130	2	20
Styrene			25.0	25.4		ug/L		101	70 - 130	1	20
Tert-amyl methyl ether			25.0	25.2		ug/L		101	70 - 130	0	20
Tert-butyl ethyl ether			25.0	25.2		ug/L		101	70 - 130	1	20
tert-Butylbenzene			25.0	25.0		ug/L		100	70 - 130	2	20
Tetrachloroethene			25.0	26.8		ug/L		107	70 - 130	0	20
Tetrahydrofuran			50.0	64.3		ug/L		129	70 - 130	0	20
Toluene			25.0	25.0		ug/L		100	70 - 130	0	20
trans-1,2-Dichloroethene			25.0	26.3		ug/L		105	70 - 130	3	20
trans-1,3-Dichloropropene			25.0	25.0		ug/L		100	70 - 130	2	20
Trichloroethene			25.0	27.0		ug/L		108	70 - 130	4	20
Trichlorofluoromethane			25.0	25.7		ug/L		103	70 - 130	3	20
Vinyl chloride			25.0	23.2		ug/L		93	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)	*97*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 130*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*

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

Lab Sample ID: MB 480-235529/7
Matrix: Water
Analysis Batch: 235529

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			04/11/15 00:58	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/11/15 00:58	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/11/15 00:58	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/11/15 00:58	1
1,1-Dichloroethane	ND		1.0		ug/L			04/11/15 00:58	1
1,1-Dichloroethene	ND		1.0		ug/L			04/11/15 00:58	1
1,1-Dichloropropene	ND		1.0		ug/L			04/11/15 00:58	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/11/15 00:58	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/11/15 00:58	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/11/15 00:58	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/11/15 00:58	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/11/15 00:58	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/11/15 00:58	1
1,2-Dichloroethane	ND		1.0		ug/L			04/11/15 00:58	1
1,2-Dichloropropane	ND		1.0		ug/L			04/11/15 00:58	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/11/15 00:58	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/11/15 00:58	1
1,3-Dichloropropane	ND		1.0		ug/L			04/11/15 00:58	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/11/15 00:58	1
1,4-Dioxane	ND		50		ug/L			04/11/15 00:58	1
2,2-Dichloropropane	ND		1.0		ug/L			04/11/15 00:58	1
2-Butanone (MEK)	ND		10		ug/L			04/11/15 00:58	1
2-Chlorotoluene	ND		1.0		ug/L			04/11/15 00:58	1
2-Hexanone	ND		10		ug/L			04/11/15 00:58	1
4-Chlorotoluene	ND		1.0		ug/L			04/11/15 00:58	1
4-Isopropyltoluene	ND		1.0		ug/L			04/11/15 00:58	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/11/15 00:58	1
Acetone	ND		50		ug/L			04/11/15 00:58	1
Benzene	ND		1.0		ug/L			04/11/15 00:58	1
Bromobenzene	ND		1.0		ug/L			04/11/15 00:58	1
Bromoform	ND		1.0		ug/L			04/11/15 00:58	1
Bromomethane	ND		2.0		ug/L			04/11/15 00:58	1
Carbon disulfide	ND		10		ug/L			04/11/15 00:58	1
Carbon tetrachloride	ND		1.0		ug/L			04/11/15 00:58	1
Chlorobenzene	ND		1.0		ug/L			04/11/15 00:58	1
Chlorobromomethane	ND		1.0		ug/L			04/11/15 00:58	1
Chlorodibromomethane	ND		0.50		ug/L			04/11/15 00:58	1
Chloroethane	ND		2.0		ug/L			04/11/15 00:58	1
Chloroform	ND		1.0		ug/L			04/11/15 00:58	1
Chloromethane	ND		2.0		ug/L			04/11/15 00:58	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			04/11/15 00:58	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/11/15 00:58	1
Dichlorobromomethane	ND		0.50		ug/L			04/11/15 00:58	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/11/15 00:58	1
Ethyl ether	ND		1.0		ug/L			04/11/15 00:58	1
Ethylbenzene	ND		1.0		ug/L			04/11/15 00:58	1
Ethylene Dibromide	ND		1.0		ug/L			04/11/15 00:58	1
Hexachlorobutadiene	ND		0.40		ug/L			04/11/15 00:58	1

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

Lab Sample ID: MB 480-235529/7
Matrix: Water
Analysis Batch: 235529

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			04/11/15 00:58	1
Isopropylbenzene	ND		1.0		ug/L			04/11/15 00:58	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/11/15 00:58	1
Methylene Chloride	ND		1.0		ug/L			04/11/15 00:58	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/11/15 00:58	1
Naphthalene	ND		5.0		ug/L			04/11/15 00:58	1
n-Butylbenzene	ND		1.0		ug/L			04/11/15 00:58	1
N-Propylbenzene	ND		1.0		ug/L			04/11/15 00:58	1
o-Xylene	ND		1.0		ug/L			04/11/15 00:58	1
sec-Butylbenzene	ND		1.0		ug/L			04/11/15 00:58	1
Styrene	ND		1.0		ug/L			04/11/15 00:58	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/11/15 00:58	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/11/15 00:58	1
tert-Butylbenzene	ND		1.0		ug/L			04/11/15 00:58	1
Tetrachloroethene	ND		1.0		ug/L			04/11/15 00:58	1
Tetrahydrofuran	ND		10		ug/L			04/11/15 00:58	1
Toluene	ND		1.0		ug/L			04/11/15 00:58	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/11/15 00:58	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/11/15 00:58	1
Trichloroethene	ND		1.0		ug/L			04/11/15 00:58	1
Trichlorofluoromethane	ND		1.0		ug/L			04/11/15 00:58	1
Vinyl chloride	ND		1.0		ug/L			04/11/15 00:58	1
Dibromomethane	ND		1.0		ug/L			04/11/15 00:58	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*98*		*70 - 130*		*04/11/15 00:58*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*		*04/11/15 00:58*	*1*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*		*04/11/15 00:58*	*1*

Lab Sample ID: LCS 480-235529/4
Matrix: Water
Analysis Batch: 235529

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	25.9		ug/L		104	70 - 130
1,1,2,2-Tetrachloroethane	25.0	23.1		ug/L		92	70 - 130
1,1,2-Trichloroethane	25.0	24.9		ug/L		100	70 - 130
1,1-Dichloroethane	25.0	26.3		ug/L		105	70 - 130
1,1-Dichloroethene	25.0	25.4		ug/L		101	70 - 130
1,1-Dichloropropene	25.0	25.7		ug/L		103	70 - 130
1,2,3-Trichlorobenzene	25.0	26.4		ug/L		106	70 - 130
1,2,3-Trichloropropane	25.0	23.6		ug/L		94	70 - 130
1,2,4-Trichlorobenzene	25.0	25.3		ug/L		101	70 - 130
1,2,4-Trimethylbenzene	25.0	24.8		ug/L		99	70 - 130
1,2-Dibromo-3-Chloropropane	25.0	23.8		ug/L		95	70 - 130
1,2-Dichlorobenzene	25.0	25.1		ug/L		101	70 - 130
1,2-Dichloroethane	25.0	24.9		ug/L		100	70 - 130

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

Lab Sample ID: LCS 480-235529/4
Matrix: Water
Analysis Batch: 235529

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	25.4		ug/L		102	70 - 130
1,3-Dichloropropane	25.0	24.2		ug/L		97	70 - 130
1,4-Dichlorobenzene	25.0	25.3		ug/L		101	70 - 130
1,4-Dioxane	500	347	*	ug/L		69	70 - 130
2,2-Dichloropropane	25.0	25.3		ug/L		101	70 - 130
2-Butanone (MEK)	125	225	*	ug/L		180	70 - 130
2-Chlorotoluene	25.0	24.5		ug/L		98	70 - 130
2-Hexanone	125	122		ug/L		97	70 - 130
4-Chlorotoluene	25.0	24.8		ug/L		99	70 - 130
4-Isopropyltoluene	25.0	25.5		ug/L		102	70 - 130
4-Methyl-2-pentanone (MIBK)	125	118		ug/L		95	70 - 130
Acetone	125	143		ug/L		115	70 - 130
Benzene	25.0	24.6		ug/L		99	70 - 130
Bromobenzene	25.0	24.5		ug/L		98	70 - 130
Bromoform	25.0	24.7		ug/L		99	70 - 130
Bromomethane	25.0	24.2		ug/L		97	70 - 130
Carbon disulfide	25.0	23.8		ug/L		95	70 - 130
Carbon tetrachloride	25.0	26.3		ug/L		105	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	26.3		ug/L		105	70 - 130
Chloroethane	25.0	24.0		ug/L		96	70 - 130
Chloroform	25.0	25.0		ug/L		100	70 - 130
Chloromethane	25.0	21.8		ug/L		87	70 - 130
cis-1,2-Dichloroethene	25.0	25.7		ug/L		103	70 - 130
cis-1,3-Dichloropropene	25.0	25.8		ug/L		103	70 - 130
Dichlorobromomethane	25.0	25.6		ug/L		103	70 - 130
Dichlorodifluoromethane	25.0	21.8		ug/L		87	70 - 130
Ethyl ether	25.0	24.1		ug/L		96	70 - 130
Ethylbenzene	25.0	25.2		ug/L		101	70 - 130
Ethylene Dibromide	25.0	25.3		ug/L		101	70 - 130
Hexachlorobutadiene	25.0	28.0		ug/L		112	70 - 130
Isopropyl ether	25.0	24.6		ug/L		98	70 - 130
Isopropylbenzene	25.0	25.1		ug/L		100	70 - 130
Methyl tert-butyl ether	25.0	24.3		ug/L		97	70 - 130
Methylene Chloride	25.0	23.8		ug/L		95	70 - 130
m-Xylene & p-Xylene	25.0	25.1		ug/L		100	70 - 130
Naphthalene	25.0	25.9		ug/L		103	70 - 130
n-Butylbenzene	25.0	25.4		ug/L		101	70 - 130
N-Propylbenzene	25.0	25.0		ug/L		100	70 - 130
o-Xylene	25.0	25.3		ug/L		101	70 - 130
sec-Butylbenzene	25.0	25.8		ug/L		103	70 - 130
Styrene	25.0	25.4		ug/L		102	70 - 130
Tert-amyl methyl ether	25.0	25.0		ug/L		100	70 - 130
Tert-butyl ethyl ether	25.0	24.8		ug/L		99	70 - 130
tert-Butylbenzene	25.0	24.9		ug/L		99	70 - 130

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

Lab Sample ID: LCS 480-235529/4
Matrix: Water
Analysis Batch: 235529

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	27.7		ug/L		111	70 - 130		
Tetrahydrofuran			50.0	65.9	*	ug/L		132	70 - 130		
Toluene			25.0	24.7		ug/L		99	70 - 130		
trans-1,2-Dichloroethene			25.0	25.0		ug/L		100	70 - 130		
trans-1,3-Dichloropropene			25.0	24.4		ug/L		98	70 - 130		
Trichloroethene			25.0	25.3		ug/L		101	70 - 130		
Trichlorofluoromethane			25.0	25.8		ug/L		103	70 - 130		
Vinyl chloride			25.0	22.8		ug/L		91	70 - 130		
Dibromomethane			25.0	25.4		ug/L		101	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*98*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 130*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*

Lab Sample ID: LCSD 480-235529/5
Matrix: Water
Analysis Batch: 235529

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	24.5		ug/L		98	70 - 130	4	20
1,1,1-Trichloroethane			25.0	25.1		ug/L		100	70 - 130	3	20
1,1,2,2-Tetrachloroethane			25.0	23.5		ug/L		94	70 - 130	2	20
1,1,2-Trichloroethane			25.0	24.4		ug/L		98	70 - 130	2	20
1,1-Dichloroethane			25.0	25.7		ug/L		103	70 - 130	3	20
1,1-Dichloroethene			25.0	22.7		ug/L		91	70 - 130	11	20
1,1-Dichloropropene			25.0	24.9		ug/L		100	70 - 130	3	20
1,2,3-Trichlorobenzene			25.0	26.4		ug/L		106	70 - 130	0	20
1,2,3-Trichloropropane			25.0	23.9		ug/L		96	70 - 130	1	20
1,2,4-Trichlorobenzene			25.0	24.7		ug/L		99	70 - 130	2	20
1,2,4-Trimethylbenzene			25.0	24.5		ug/L		98	70 - 130	1	20
1,2-Dibromo-3-Chloropropane			25.0	25.8		ug/L		103	70 - 130	8	20
1,2-Dichlorobenzene			25.0	24.7		ug/L		99	70 - 130	2	20
1,2-Dichloroethane			25.0	24.9		ug/L		100	70 - 130	0	20
1,2-Dichloropropane			25.0	25.0		ug/L		100	70 - 130	0	20
1,3,5-Trimethylbenzene			25.0	24.5		ug/L		98	70 - 130	3	20
1,3-Dichlorobenzene			25.0	24.8		ug/L		99	70 - 130	2	20
1,3-Dichloropropane			25.0	23.5		ug/L		94	70 - 130	3	20
1,4-Dichlorobenzene			25.0	24.8		ug/L		99	70 - 130	2	20
1,4-Dioxane			500	387		ug/L		77	70 - 130	11	20
2,2-Dichloropropane			25.0	24.1		ug/L		97	70 - 130	5	20
2-Butanone (MEK)			125	224	*	ug/L		180	70 - 130	0	20
2-Chlorotoluene			25.0	24.7		ug/L		99	70 - 130	1	20
2-Hexanone			125	118		ug/L		94	70 - 130	3	20
4-Chlorotoluene			25.0	24.9		ug/L		99	70 - 130	0	20
4-Isopropyltoluene			25.0	25.1		ug/L		100	70 - 130	2	20
4-Methyl-2-pentanone (MIBK)			125	115		ug/L		92	70 - 130	2	20
Acetone			125	144		ug/L		115	70 - 130	1	20

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

Lab Sample ID: LCSD 480-235529/5
Matrix: Water
Analysis Batch: 235529

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	1	20
Bromobenzene			25.0	24.5		ug/L		98	70 - 130	0	20
Bromoform			25.0	24.9		ug/L		100	70 - 130	1	20
Bromomethane			25.0	23.3		ug/L		93	70 - 130	4	20
Carbon disulfide			25.0	23.1		ug/L		92	70 - 130	3	20
Carbon tetrachloride			25.0	25.2		ug/L		101	70 - 130	4	20
Chlorobenzene			25.0	25.2		ug/L		101	70 - 130	2	20
Chlorobromomethane			25.0	25.3		ug/L		101	70 - 130	2	20
Chlorodibromomethane			25.0	25.9		ug/L		104	70 - 130	1	20
Chloroethane			25.0	23.0		ug/L		92	70 - 130	4	20
Chloroform			25.0	24.9		ug/L		100	70 - 130	0	20
Chloromethane			25.0	21.5		ug/L		86	70 - 130	1	20
cis-1,2-Dichloroethene			25.0	24.2		ug/L		97	70 - 130	6	20
cis-1,3-Dichloropropene			25.0	25.2		ug/L		101	70 - 130	2	20
Dichlorobromomethane			25.0	25.4		ug/L		102	70 - 130	1	20
Dichlorodifluoromethane			25.0	20.8		ug/L		83	70 - 130	5	20
Ethyl ether			25.0	24.9		ug/L		100	70 - 130	3	20
Ethylbenzene			25.0	24.3		ug/L		97	70 - 130	4	20
Ethylene Dibromide			25.0	24.9		ug/L		100	70 - 130	1	20
Hexachlorobutadiene			25.0	26.5		ug/L		106	70 - 130	6	20
Isopropyl ether			25.0	24.9		ug/L		100	70 - 130	1	20
Isopropylbenzene			25.0	24.3		ug/L		97	70 - 130	3	20
Methyl tert-butyl ether			25.0	24.7		ug/L		99	70 - 130	1	20
Methylene Chloride			25.0	23.6		ug/L		94	70 - 130	1	20
m-Xylene & p-Xylene			25.0	24.3		ug/L		97	70 - 130	3	20
Naphthalene			25.0	25.7		ug/L		103	70 - 130	1	20
n-Butylbenzene			25.0	25.3		ug/L		101	70 - 130	0	20
N-Propylbenzene			25.0	24.0		ug/L		96	70 - 130	4	20
o-Xylene			25.0	23.9		ug/L		96	70 - 130	6	20
sec-Butylbenzene			25.0	25.0		ug/L		100	70 - 130	3	20
Styrene			25.0	24.4		ug/L		98	70 - 130	4	20
Tert-amyl methyl ether			25.0	25.0		ug/L		100	70 - 130	0	20
Tert-butyl ethyl ether			25.0	24.9		ug/L		100	70 - 130	1	20
tert-Butylbenzene			25.0	24.6		ug/L		99	70 - 130	1	20
Tetrachloroethene			25.0	26.7		ug/L		107	70 - 130	4	20
Tetrahydrofuran			50.0	66.2	*	ug/L		132	70 - 130	1	20
Toluene			25.0	23.7		ug/L		95	70 - 130	4	20
trans-1,2-Dichloroethene			25.0	24.4		ug/L		97	70 - 130	3	20
trans-1,3-Dichloropropene			25.0	24.0		ug/L		96	70 - 130	2	20
Trichloroethene			25.0	25.0		ug/L		100	70 - 130	1	20
Trichlorofluoromethane			25.0	24.5		ug/L		98	70 - 130	5	20
Vinyl chloride			25.0	22.0		ug/L		88	70 - 130	4	20
Dibromomethane			25.0	25.3		ug/L		101	70 - 130	0	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*98*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 130*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*

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

Lab Sample ID: MB 480-235783/8
Matrix: Water
Analysis Batch: 235783

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			04/13/15 13:48	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/13/15 13:48	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/13/15 13:48	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/13/15 13:48	1
1,1-Dichloroethane	ND		1.0		ug/L			04/13/15 13:48	1
1,1-Dichloroethene	ND		1.0		ug/L			04/13/15 13:48	1
1,1-Dichloropropene	ND		1.0		ug/L			04/13/15 13:48	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/13/15 13:48	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/13/15 13:48	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/13/15 13:48	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/13/15 13:48	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/13/15 13:48	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/13/15 13:48	1
1,2-Dichloroethane	ND		1.0		ug/L			04/13/15 13:48	1
1,2-Dichloropropane	ND		1.0		ug/L			04/13/15 13:48	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/13/15 13:48	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/13/15 13:48	1
1,3-Dichloropropane	ND		1.0		ug/L			04/13/15 13:48	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/13/15 13:48	1
1,4-Dioxane	ND		50		ug/L			04/13/15 13:48	1
2,2-Dichloropropane	ND		1.0		ug/L			04/13/15 13:48	1
2-Butanone (MEK)	ND		10		ug/L			04/13/15 13:48	1
2-Chlorotoluene	ND		1.0		ug/L			04/13/15 13:48	1
2-Hexanone	ND		10		ug/L			04/13/15 13:48	1
4-Chlorotoluene	ND		1.0		ug/L			04/13/15 13:48	1
4-Isopropyltoluene	ND		1.0		ug/L			04/13/15 13:48	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/13/15 13:48	1
Acetone	ND		50		ug/L			04/13/15 13:48	1
Benzene	ND		1.0		ug/L			04/13/15 13:48	1
Bromobenzene	ND		1.0		ug/L			04/13/15 13:48	1
Bromoform	ND		1.0		ug/L			04/13/15 13:48	1
Bromomethane	ND		2.0		ug/L			04/13/15 13:48	1
Carbon disulfide	ND		10		ug/L			04/13/15 13:48	1
Carbon tetrachloride	ND		1.0		ug/L			04/13/15 13:48	1
Chlorobenzene	ND		1.0		ug/L			04/13/15 13:48	1
Chlorobromomethane	ND		1.0		ug/L			04/13/15 13:48	1
Chlorodibromomethane	ND		0.50		ug/L			04/13/15 13:48	1
Chloroethane	ND		2.0		ug/L			04/13/15 13:48	1
Chloroform	ND		1.0		ug/L			04/13/15 13:48	1
Chloromethane	ND		2.0		ug/L			04/13/15 13:48	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			04/13/15 13:48	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/13/15 13:48	1
Dichlorobromomethane	ND		0.50		ug/L			04/13/15 13:48	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/13/15 13:48	1
Ethyl ether	ND		1.0		ug/L			04/13/15 13:48	1
Ethylbenzene	ND		1.0		ug/L			04/13/15 13:48	1
Ethylene Dibromide	ND		1.0		ug/L			04/13/15 13:48	1
Hexachlorobutadiene	ND		0.40		ug/L			04/13/15 13:48	1

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

Lab Sample ID: MB 480-235783/8
Matrix: Water
Analysis Batch: 235783

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			04/13/15 13:48	1
Isopropylbenzene	ND		1.0		ug/L			04/13/15 13:48	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/13/15 13:48	1
Methylene Chloride	ND		1.0		ug/L			04/13/15 13:48	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/13/15 13:48	1
Naphthalene	ND		5.0		ug/L			04/13/15 13:48	1
n-Butylbenzene	ND		1.0		ug/L			04/13/15 13:48	1
N-Propylbenzene	ND		1.0		ug/L			04/13/15 13:48	1
o-Xylene	ND		1.0		ug/L			04/13/15 13:48	1
sec-Butylbenzene	ND		1.0		ug/L			04/13/15 13:48	1
Styrene	ND		1.0		ug/L			04/13/15 13:48	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/13/15 13:48	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/13/15 13:48	1
tert-Butylbenzene	ND		1.0		ug/L			04/13/15 13:48	1
Tetrachloroethene	ND		1.0		ug/L			04/13/15 13:48	1
Tetrahydrofuran	ND		10		ug/L			04/13/15 13:48	1
Toluene	ND		1.0		ug/L			04/13/15 13:48	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/13/15 13:48	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/13/15 13:48	1
Trichloroethene	ND		1.0		ug/L			04/13/15 13:48	1
Trichlorofluoromethane	ND		1.0		ug/L			04/13/15 13:48	1
Vinyl chloride	ND		1.0		ug/L			04/13/15 13:48	1
Dibromomethane	ND		1.0		ug/L			04/13/15 13:48	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*97*		*70 - 130*		*04/13/15 13:48*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 130*		*04/13/15 13:48*	*1*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*04/13/15 13:48*	*1*

Lab Sample ID: LCS 480-235783/5
Matrix: Water
Analysis Batch: 235783

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	23.6		ug/L		94	70 - 130
1,1,1-Trichloroethane	25.0	25.1		ug/L		100	70 - 130
1,1,2,2-Tetrachloroethane	25.0	22.0		ug/L		88	70 - 130
1,1,2-Trichloroethane	25.0	23.6		ug/L		95	70 - 130
1,1-Dichloroethane	25.0	25.4		ug/L		102	70 - 130
1,1-Dichloroethene	25.0	23.9		ug/L		96	70 - 130
1,1-Dichloropropene	25.0	25.2		ug/L		101	70 - 130
1,2,3-Trichlorobenzene	25.0	25.2		ug/L		101	70 - 130
1,2,3-Trichloropropane	25.0	23.6		ug/L		94	70 - 130
1,2,4-Trichlorobenzene	25.0	24.3		ug/L		97	70 - 130
1,2,4-Trimethylbenzene	25.0	23.8		ug/L		95	70 - 130
1,2-Dibromo-3-Chloropropane	25.0	22.9		ug/L		92	70 - 130
1,2-Dichlorobenzene	25.0	23.9		ug/L		95	70 - 130
1,2-Dichloroethane	25.0	24.5		ug/L		98	70 - 130

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

Lab Sample ID: LCS 480-235783/5
Matrix: Water
Analysis Batch: 235783

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	25.8		ug/L		103	70 - 130
1,3,5-Trimethylbenzene	25.0	24.3		ug/L		97	70 - 130
1,3-Dichlorobenzene	25.0	23.9		ug/L		96	70 - 130
1,3-Dichloropropane	25.0	22.8		ug/L		91	70 - 130
1,4-Dichlorobenzene	25.0	24.0		ug/L		96	70 - 130
1,4-Dioxane	500	378		ug/L		76	70 - 130
2,2-Dichloropropane	25.0	25.0		ug/L		100	70 - 130
2-Butanone (MEK)	125	212	*	ug/L		170	70 - 130
2-Chlorotoluene	25.0	23.6		ug/L		95	70 - 130
2-Hexanone	125	109		ug/L		87	70 - 130
4-Chlorotoluene	25.0	24.5		ug/L		98	70 - 130
4-Isopropyltoluene	25.0	24.5		ug/L		98	70 - 130
4-Methyl-2-pentanone (MIBK)	125	108		ug/L		86	70 - 130
Acetone	125	108		ug/L		86	70 - 130
Benzene	25.0	24.1		ug/L		96	70 - 130
Bromobenzene	25.0	23.4		ug/L		94	70 - 130
Bromoform	25.0	22.9		ug/L		91	70 - 130
Bromomethane	25.0	24.5		ug/L		98	70 - 130
Carbon disulfide	25.0	22.7		ug/L		91	70 - 130
Carbon tetrachloride	25.0	25.7		ug/L		103	70 - 130
Chlorobenzene	25.0	24.1		ug/L		96	70 - 130
Chlorobromomethane	25.0	24.9		ug/L		100	70 - 130
Chlorodibromomethane	25.0	24.7		ug/L		99	70 - 130
Chloroethane	25.0	22.9		ug/L		91	70 - 130
Chloroform	25.0	24.5		ug/L		98	70 - 130
Chloromethane	25.0	23.5		ug/L		94	70 - 130
cis-1,2-Dichloroethene	25.0	25.2		ug/L		101	70 - 130
cis-1,3-Dichloropropene	25.0	24.7		ug/L		99	70 - 130
Dichlorobromomethane	25.0	24.9		ug/L		100	70 - 130
Dichlorodifluoromethane	25.0	24.0		ug/L		96	70 - 130
Ethyl ether	25.0	23.8		ug/L		95	70 - 130
Ethylbenzene	25.0	23.6		ug/L		95	70 - 130
Ethylene Dibromide	25.0	24.1		ug/L		97	70 - 130
Hexachlorobutadiene	25.0	26.5		ug/L		106	70 - 130
Isopropyl ether	25.0	24.3		ug/L		97	70 - 130
Isopropylbenzene	25.0	24.0		ug/L		96	70 - 130
Methyl tert-butyl ether	25.0	23.9		ug/L		96	70 - 130
Methylene Chloride	25.0	23.6		ug/L		95	70 - 130
m-Xylene & p-Xylene	25.0	23.6		ug/L		94	70 - 130
Naphthalene	25.0	24.3		ug/L		97	70 - 130
n-Butylbenzene	25.0	24.7		ug/L		99	70 - 130
N-Propylbenzene	25.0	23.7		ug/L		95	70 - 130
o-Xylene	25.0	23.4		ug/L		94	70 - 130
sec-Butylbenzene	25.0	24.7		ug/L		99	70 - 130
Styrene	25.0	23.8		ug/L		95	70 - 130
Tert-amyl methyl ether	25.0	24.0		ug/L		96	70 - 130
Tert-butyl ethyl ether	25.0	24.2		ug/L		97	70 - 130
tert-Butylbenzene	25.0	23.3		ug/L		93	70 - 130

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

Lab Sample ID: LCS 480-235783/5
Matrix: Water
Analysis Batch: 235783

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			50.0	62.8		ug/L		126	70 - 130		
Toluene			25.0	23.0		ug/L		92	70 - 130		
trans-1,2-Dichloroethene			25.0	24.4		ug/L		98	70 - 130		
trans-1,3-Dichloropropene			25.0	23.3		ug/L		93	70 - 130		
Trichloroethene			25.0	25.6		ug/L		102	70 - 130		
Trichlorofluoromethane			25.0	25.7		ug/L		103	70 - 130		
Vinyl chloride			25.0	23.5		ug/L		94	70 - 130		
Dibromomethane			25.0	25.4		ug/L		101	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*97*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*105*		*70 - 130*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*

Lab Sample ID: LCSD 480-235783/6
Matrix: Water
Analysis Batch: 235783

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	23.7		ug/L		95	70 - 130	1	20
1,1,1-Trichloroethane			25.0	24.3		ug/L		97	70 - 130	3	20
1,1,2,2-Tetrachloroethane			25.0	21.8		ug/L		87	70 - 130	1	20
1,1,2-Trichloroethane			25.0	23.2		ug/L		93	70 - 130	2	20
1,1-Dichloroethane			25.0	24.5		ug/L		98	70 - 130	4	20
1,1-Dichloroethene			25.0	22.6		ug/L		91	70 - 130	6	20
1,1-Dichloropropene			25.0	24.1		ug/L		96	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	22.4		ug/L		90	70 - 130	5	20
1,2,4-Trichlorobenzene			25.0	23.8		ug/L		95	70 - 130	2	20
1,2,4-Trimethylbenzene			25.0	23.7		ug/L		95	70 - 130	0	20
1,2-Dibromo-3-Chloropropane			25.0	22.6		ug/L		91	70 - 130	1	20
1,2-Dichlorobenzene			25.0	23.4		ug/L		94	70 - 130	2	20
1,2-Dichloroethane			25.0	24.4		ug/L		98	70 - 130	1	20
1,2-Dichloropropane			25.0	24.4		ug/L		97	70 - 130	6	20
1,3,5-Trimethylbenzene			25.0	23.5		ug/L		94	70 - 130	3	20
1,3-Dichlorobenzene			25.0	23.3		ug/L		93	70 - 130	3	20
1,3-Dichloropropane			25.0	22.7		ug/L		91	70 - 130	0	20
1,4-Dichlorobenzene			25.0	23.6		ug/L		94	70 - 130	2	20
1,4-Dioxane			500	373		ug/L		75	70 - 130	2	20
2,2-Dichloropropane			25.0	23.7		ug/L		95	70 - 130	5	20
2-Butanone (MEK)			125	202	*	ug/L		161	70 - 130	5	20
2-Chlorotoluene			25.0	23.3		ug/L		93	70 - 130	2	20
2-Hexanone			125	109		ug/L		87	70 - 130	0	20
4-Chlorotoluene			25.0	23.6		ug/L		94	70 - 130	4	20
4-Isopropyltoluene			25.0	23.7		ug/L		95	70 - 130	3	20
4-Methyl-2-pentanone (MIBK)			125	108		ug/L		86	70 - 130	0	20
Acetone			125	106		ug/L		85	70 - 130	2	20

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

Lab Sample ID: LCSD 480-235783/6
Matrix: Water
Analysis Batch: 235783

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	23.3		ug/L		93	70 - 130	3	20
Bromobenzene			25.0	23.5		ug/L		94	70 - 130	0	20
Bromoform			25.0	23.4		ug/L		93	70 - 130	2	20
Bromomethane			25.0	23.9		ug/L		96	70 - 130	2	20
Carbon disulfide			25.0	21.7		ug/L		87	70 - 130	4	20
Carbon tetrachloride			25.0	24.1		ug/L		96	70 - 130	7	20
Chlorobenzene			25.0	24.1		ug/L		96	70 - 130	0	20
Chlorobromomethane			25.0	24.0		ug/L		96	70 - 130	4	20
Chlorodibromomethane			25.0	24.6		ug/L		98	70 - 130	0	20
Chloroethane			25.0	23.2		ug/L		93	70 - 130	1	20
Chloroform			25.0	24.0		ug/L		96	70 - 130	2	20
Chloromethane			25.0	22.4		ug/L		90	70 - 130	5	20
cis-1,2-Dichloroethene			25.0	24.1		ug/L		96	70 - 130	4	20
cis-1,3-Dichloropropene			25.0	24.4		ug/L		98	70 - 130	1	20
Dichlorobromomethane			25.0	24.5		ug/L		98	70 - 130	2	20
Dichlorodifluoromethane			25.0	23.4		ug/L		93	70 - 130	3	20
Ethyl ether			25.0	23.0		ug/L		92	70 - 130	3	20
Ethylbenzene			25.0	23.5		ug/L		94	70 - 130	1	20
Ethylene Dibromide			25.0	23.5		ug/L		94	70 - 130	3	20
Hexachlorobutadiene			25.0	26.4		ug/L		106	70 - 130	0	20
Isopropyl ether			25.0	23.9		ug/L		95	70 - 130	2	20
Isopropylbenzene			25.0	23.4		ug/L		94	70 - 130	3	20
Methyl tert-butyl ether			25.0	23.2		ug/L		93	70 - 130	3	20
Methylene Chloride			25.0	23.0		ug/L		92	70 - 130	3	20
m-Xylene & p-Xylene			25.0	23.2		ug/L		93	70 - 130	2	20
Naphthalene			25.0	23.5		ug/L		94	70 - 130	3	20
n-Butylbenzene			25.0	24.1		ug/L		96	70 - 130	2	20
N-Propylbenzene			25.0	22.8		ug/L		91	70 - 130	4	20
o-Xylene			25.0	23.4		ug/L		94	70 - 130	0	20
sec-Butylbenzene			25.0	24.5		ug/L		98	70 - 130	1	20
Styrene			25.0	23.4		ug/L		94	70 - 130	2	20
Tert-amyl methyl ether			25.0	23.6		ug/L		94	70 - 130	1	20
Tert-butyl ethyl ether			25.0	23.6		ug/L		94	70 - 130	3	20
tert-Butylbenzene			25.0	23.4		ug/L		94	70 - 130	0	20
Tetrachloroethene			25.0	24.8		ug/L		99	70 - 130	2	20
Tetrahydrofuran			50.0	61.4		ug/L		123	70 - 130	2	20
Toluene			25.0	22.7		ug/L		91	70 - 130	1	20
trans-1,2-Dichloroethene			25.0	23.4		ug/L		93	70 - 130	4	20
trans-1,3-Dichloropropene			25.0	22.9		ug/L		92	70 - 130	2	20
Trichloroethene			25.0	24.3		ug/L		97	70 - 130	5	20
Trichlorofluoromethane			25.0	24.9		ug/L		100	70 - 130	3	20
Vinyl chloride			25.0	22.2		ug/L		89	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)	*98*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 130*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*

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

Lab Sample ID: 480-78021-31 MS
Matrix: Water
Analysis Batch: 235783

Client Sample ID: DUP-1-20150407
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		1250	1220		ug/L		98	70 - 130
1,1,1-Trichloroethane	ND		1250	1310		ug/L		105	70 - 130
1,1,2,2-Tetrachloroethane	ND		1250	1130		ug/L		90	70 - 130
1,1,2-Trichloroethane	ND		1250	1190		ug/L		96	70 - 130
1,1-Dichloroethane	ND		1250	1310		ug/L		105	70 - 130
1,1-Dichloroethene	ND		1250	1210		ug/L		97	70 - 130
1,1-Dichloropropene	ND		1250	1300		ug/L		104	70 - 130
1,2,3-Trichlorobenzene	ND		1250	1260		ug/L		100	70 - 130
1,2,3-Trichloropropane	ND		1250	1180		ug/L		95	70 - 130
1,2,4-Trichlorobenzene	ND		1250	1210		ug/L		96	70 - 130
1,2,4-Trimethylbenzene	ND		1250	1220		ug/L		98	70 - 130
1,2-Dibromo-3-Chloropropane	ND		1250	1180		ug/L		94	70 - 130
1,2-Dichlorobenzene	ND		1250	1210		ug/L		97	70 - 130
1,2-Dichloroethane	ND		1250	1240		ug/L		99	70 - 130
1,2-Dichloropropane	ND		1250	1280		ug/L		102	70 - 130
1,3,5-Trimethylbenzene	ND		1250	1240		ug/L		99	70 - 130
1,3-Dichlorobenzene	ND		1250	1220		ug/L		98	70 - 130
1,3-Dichloropropane	ND		1250	1190		ug/L		95	70 - 130
1,4-Dichlorobenzene	ND		1250	1230		ug/L		98	70 - 130
1,4-Dioxane	ND	F1 F2	25000	14400	F1	ug/L		58	70 - 130
2,2-Dichloropropane	ND		1250	1170		ug/L		93	70 - 130
2-Butanone (MEK)	ND	F1 *	6250	9600	F1	ug/L		154	70 - 130
2-Chlorotoluene	ND		1250	1210		ug/L		97	70 - 130
2-Hexanone	ND		6250	5600		ug/L		90	70 - 130
4-Chlorotoluene	ND		1250	1220		ug/L		98	70 - 130
4-Isopropyltoluene	ND		1250	1260		ug/L		101	70 - 130
4-Methyl-2-pentanone (MIBK)	ND		6250	5610		ug/L		90	70 - 130
Acetone	ND		6250	5440		ug/L		87	70 - 130
Benzene	ND		1250	1250		ug/L		100	70 - 130
Bromobenzene	ND		1250	1210		ug/L		97	70 - 130
Bromoform	ND		1250	1130		ug/L		91	70 - 130
Bromomethane	ND		1250	1350		ug/L		108	70 - 130
Carbon disulfide	ND		1250	1160		ug/L		93	70 - 130
Carbon tetrachloride	ND		1250	1310		ug/L		105	70 - 130
Chlorobenzene	ND		1250	1260		ug/L		100	70 - 130
Chlorobromomethane	ND		1250	1260		ug/L		101	70 - 130
Chlorodibromomethane	ND		1250	1230		ug/L		98	70 - 130
Chloroethane	ND		1250	1310		ug/L		105	70 - 130
Chloroform	ND		1250	1280		ug/L		102	70 - 130
Chloromethane	ND		1250	1290		ug/L		103	70 - 130
cis-1,2-Dichloroethene	2200		1250	3380		ug/L		96	70 - 130
cis-1,3-Dichloropropene	ND		1250	1230		ug/L		99	70 - 130
Dichlorobromomethane	ND		1250	1270		ug/L		102	70 - 130
Dichlorodifluoromethane	ND		1250	1410		ug/L		113	70 - 130
Ethyl ether	ND		1250	1210		ug/L		97	70 - 130
Ethylbenzene	ND		1250	1240		ug/L		99	70 - 130
Ethylene Dibromide	ND		1250	1220		ug/L		98	70 - 130
Hexachlorobutadiene	ND		1250	1330		ug/L		107	70 - 130

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

Lab Sample ID: 480-78021-31 MS
Matrix: Water
Analysis Batch: 235783

Client Sample ID: DUP-1-20150407
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Isopropyl ether	ND		1250	1250		ug/L		100	70 - 130
Isopropylbenzene	ND		1250	1230		ug/L		99	70 - 130
Methyl tert-butyl ether	ND		1250	1200		ug/L		96	70 - 130
Methylene Chloride	ND		1250	1250		ug/L		100	70 - 130
m-Xylene & p-Xylene	ND		1250	1220		ug/L		98	70 - 130
Naphthalene	ND		1250	1250		ug/L		100	70 - 130
n-Butylbenzene	ND		1250	1250		ug/L		100	70 - 130
N-Propylbenzene	ND		1250	1200		ug/L		96	70 - 130
o-Xylene	ND		1250	1210		ug/L		97	70 - 130
sec-Butylbenzene	ND		1250	1250		ug/L		100	70 - 130
Styrene	ND		1250	1220		ug/L		97	70 - 130
Tert-amyl methyl ether	ND		1250	1220		ug/L		98	70 - 130
Tert-butyl ethyl ether	ND		1250	1230		ug/L		99	70 - 130
tert-Butylbenzene	ND		1250	1230		ug/L		98	70 - 130
Tetrachloroethene	ND		1250	1370		ug/L		107	70 - 130
Tetrahydrofuran	ND	F1	2500	3260	F1	ug/L		131	70 - 130
Toluene	ND		1250	1200		ug/L		96	70 - 130
trans-1,2-Dichloroethene	ND		1250	1230		ug/L		99	70 - 130
trans-1,3-Dichloropropene	ND		1250	1160		ug/L		93	70 - 130
Trichloroethene	1300		1250	2600		ug/L		100	70 - 130
Trichlorofluoromethane	ND		1250	1460		ug/L		117	70 - 130
Vinyl chloride	180		1250	1470		ug/L		103	70 - 130
Dibromomethane	ND		1250	1290		ug/L		103	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Toluene-d8 (Surr)	*98*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 130*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*

Lab Sample ID: 480-78021-31 MSD
Matrix: Water
Analysis Batch: 235783

Client Sample ID: DUP-1-20150407
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		1250	1210		ug/L		97	70 - 130	1	20
1,1,1-Trichloroethane	ND		1250	1250		ug/L		100	70 - 130	5	20
1,1,2,2-Tetrachloroethane	ND		1250	1160		ug/L		93	70 - 130	2	20
1,1,2-Trichloroethane	ND		1250	1180		ug/L		95	70 - 130	1	20
1,1-Dichloroethane	ND		1250	1250		ug/L		100	70 - 130	5	20
1,1-Dichloroethene	ND		1250	1110		ug/L		89	70 - 130	9	20
1,1-Dichloropropene	ND		1250	1240		ug/L		99	70 - 130	5	20
1,2,3-Trichlorobenzene	ND		1250	1280		ug/L		103	70 - 130	2	20
1,2,3-Trichloropropane	ND		1250	1180		ug/L		95	70 - 130	0	20
1,2,4-Trichlorobenzene	ND		1250	1240		ug/L		99	70 - 130	3	20
1,2,4-Trimethylbenzene	ND		1250	1210		ug/L		97	70 - 130	1	20
1,2-Dibromo-3-Chloropropane	ND		1250	1170		ug/L		93	70 - 130	1	20
1,2-Dichlorobenzene	ND		1250	1220		ug/L		97	70 - 130	0	20
1,2-Dichloroethane	ND		1250	1220		ug/L		97	70 - 130	2	20

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

Lab Sample ID: 480-78021-31 MSD
Matrix: Water
Analysis Batch: 235783

Client Sample ID: DUP-1-20150407
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		1250	1230		ug/L		99	70 - 130	3	20
1,3,5-Trimethylbenzene	ND		1250	1210		ug/L		97	70 - 130	2	20
1,3-Dichlorobenzene	ND		1250	1210		ug/L		97	70 - 130	1	20
1,3-Dichloropropane	ND		1250	1160		ug/L		93	70 - 130	3	20
1,4-Dichlorobenzene	ND		1250	1220		ug/L		98	70 - 130	1	20
1,4-Dioxane	ND	F1 F2	25000	18900	F2	ug/L		76	70 - 130	27	20
2,2-Dichloropropane	ND		1250	1070		ug/L		85	70 - 130	9	20
2-Butanone (MEK)	ND	F1 *	6250	10500	F1	ug/L		169	70 - 130	9	20
2-Chlorotoluene	ND		1250	1200		ug/L		96	70 - 130	1	20
2-Hexanone	ND		6250	5540		ug/L		89	70 - 130	1	20
4-Chlorotoluene	ND		1250	1220		ug/L		98	70 - 130	0	20
4-Isopropyltoluene	ND		1250	1220		ug/L		97	70 - 130	3	20
4-Methyl-2-pentanone (MIBK)	ND		6250	5630		ug/L		90	70 - 130	0	20
Acetone	ND		6250	5320		ug/L		85	70 - 130	2	20
Benzene	ND		1250	1190		ug/L		95	70 - 130	5	20
Bromobenzene	ND		1250	1210		ug/L		97	70 - 130	0	20
Bromoform	ND		1250	1120		ug/L		90	70 - 130	1	20
Bromomethane	ND		1250	1250		ug/L		100	70 - 130	8	20
Carbon disulfide	ND		1250	1090		ug/L		87	70 - 130	6	20
Carbon tetrachloride	ND		1250	1220		ug/L		98	70 - 130	7	20
Chlorobenzene	ND		1250	1230		ug/L		99	70 - 130	2	20
Chlorobromomethane	ND		1250	1250		ug/L		100	70 - 130	1	20
Chlorodibromomethane	ND		1250	1220		ug/L		98	70 - 130	1	20
Chloroethane	ND		1250	1240		ug/L		99	70 - 130	5	20
Chloroform	ND		1250	1210		ug/L		97	70 - 130	5	20
Chloromethane	ND		1250	1210		ug/L		97	70 - 130	6	20
cis-1,2-Dichloroethene	2200		1250	3230		ug/L		84	70 - 130	4	20
cis-1,3-Dichloropropene	ND		1250	1220		ug/L		97	70 - 130	1	20
Dichlorobromomethane	ND		1250	1240		ug/L		100	70 - 130	2	20
Dichlorodifluoromethane	ND		1250	1320		ug/L		106	70 - 130	7	20
Ethyl ether	ND		1250	1150		ug/L		92	70 - 130	5	20
Ethylbenzene	ND		1250	1190		ug/L		95	70 - 130	4	20
Ethylene Dibromide	ND		1250	1220		ug/L		98	70 - 130	0	20
Hexachlorobutadiene	ND		1250	1340		ug/L		107	70 - 130	1	20
Isopropyl ether	ND		1250	1210		ug/L		97	70 - 130	3	20
Isopropylbenzene	ND		1250	1230		ug/L		98	70 - 130	0	20
Methyl tert-butyl ether	ND		1250	1190		ug/L		95	70 - 130	1	20
Methylene Chloride	ND		1250	1200		ug/L		96	70 - 130	5	20
m-Xylene & p-Xylene	ND		1250	1170		ug/L		94	70 - 130	4	20
Naphthalene	ND		1250	1260		ug/L		101	70 - 130	1	20
n-Butylbenzene	ND		1250	1220		ug/L		98	70 - 130	2	20
N-Propylbenzene	ND		1250	1190		ug/L		95	70 - 130	1	20
o-Xylene	ND		1250	1200		ug/L		96	70 - 130	1	20
sec-Butylbenzene	ND		1250	1240		ug/L		99	70 - 130	1	20
Styrene	ND		1250	1180		ug/L		94	70 - 130	3	20
Tert-amyl methyl ether	ND		1250	1210		ug/L		97	70 - 130	1	20
Tert-butyl ethyl ether	ND		1250	1200		ug/L		96	70 - 130	2	20
tert-Butylbenzene	ND		1250	1210		ug/L		97	70 - 130	1	20

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

Lab Sample ID: 480-78021-31 MSD
Matrix: Water
Analysis Batch: 235783

Client Sample ID: DUP-1-20150407
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		1250	1300		ug/L		101	70 - 130	5	20
Tetrahydrofuran	ND	F1	2500	3220		ug/L		129	70 - 130	1	20
Toluene	ND		1250	1160		ug/L		92	70 - 130	3	20
trans-1,2-Dichloroethene	ND		1250	1210		ug/L		97	70 - 130	2	20
trans-1,3-Dichloropropene	ND		1250	1160		ug/L		93	70 - 130	0	20
Trichloroethene	1300		1250	2510		ug/L		93	70 - 130	4	20
Trichlorofluoromethane	ND		1250	1390		ug/L		111	70 - 130	5	20
Vinyl chloride	180		1250	1380		ug/L		96	70 - 130	6	20
Dibromomethane	ND		1250	1220		ug/L		98	70 - 130	5	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*95*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 130*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*

Lab Sample ID: MB 480-235943/7
Matrix: Water
Analysis Batch: 235943

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			04/14/15 01:14	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/14/15 01:14	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/14/15 01:14	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/14/15 01:14	1
1,1-Dichloroethane	ND		1.0		ug/L			04/14/15 01:14	1
1,1-Dichloroethene	ND		1.0		ug/L			04/14/15 01:14	1
1,1-Dichloropropene	ND		1.0		ug/L			04/14/15 01:14	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/14/15 01:14	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/14/15 01:14	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/14/15 01:14	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/14/15 01:14	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/14/15 01:14	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/14/15 01:14	1
1,2-Dichloroethane	ND		1.0		ug/L			04/14/15 01:14	1
1,2-Dichloropropane	ND		1.0		ug/L			04/14/15 01:14	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/14/15 01:14	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/14/15 01:14	1
1,3-Dichloropropane	ND		1.0		ug/L			04/14/15 01:14	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/14/15 01:14	1
1,4-Dioxane	ND		50		ug/L			04/14/15 01:14	1
2,2-Dichloropropane	ND		1.0		ug/L			04/14/15 01:14	1
2-Butanone (MEK)	ND		10		ug/L			04/14/15 01:14	1
2-Chlorotoluene	ND		1.0		ug/L			04/14/15 01:14	1
2-Hexanone	ND		10		ug/L			04/14/15 01:14	1
4-Chlorotoluene	ND		1.0		ug/L			04/14/15 01:14	1
4-Isopropyltoluene	ND		1.0		ug/L			04/14/15 01:14	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/14/15 01:14	1
Acetone	ND		50		ug/L			04/14/15 01:14	1

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

Lab Sample ID: MB 480-235943/7
Matrix: Water
Analysis Batch: 235943

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			04/14/15 01:14	1
Bromobenzene	ND		1.0		ug/L			04/14/15 01:14	1
Bromoform	ND		1.0		ug/L			04/14/15 01:14	1
Bromomethane	ND		2.0		ug/L			04/14/15 01:14	1
Carbon disulfide	ND		10		ug/L			04/14/15 01:14	1
Carbon tetrachloride	ND		1.0		ug/L			04/14/15 01:14	1
Chlorobenzene	ND		1.0		ug/L			04/14/15 01:14	1
Chlorobromomethane	ND		1.0		ug/L			04/14/15 01:14	1
Chlorodibromomethane	ND		0.50		ug/L			04/14/15 01:14	1
Chloroethane	ND		2.0		ug/L			04/14/15 01:14	1
Chloroform	ND		1.0		ug/L			04/14/15 01:14	1
Chloromethane	ND		2.0		ug/L			04/14/15 01:14	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			04/14/15 01:14	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/14/15 01:14	1
Dichlorobromomethane	ND		0.50		ug/L			04/14/15 01:14	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/14/15 01:14	1
Ethyl ether	ND		1.0		ug/L			04/14/15 01:14	1
Ethylbenzene	ND		1.0		ug/L			04/14/15 01:14	1
Ethylene Dibromide	ND		1.0		ug/L			04/14/15 01:14	1
Hexachlorobutadiene	ND		0.40		ug/L			04/14/15 01:14	1
Isopropyl ether	ND		10		ug/L			04/14/15 01:14	1
Isopropylbenzene	ND		1.0		ug/L			04/14/15 01:14	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/14/15 01:14	1
Methylene Chloride	ND		1.0		ug/L			04/14/15 01:14	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/14/15 01:14	1
Naphthalene	ND		5.0		ug/L			04/14/15 01:14	1
n-Butylbenzene	ND		1.0		ug/L			04/14/15 01:14	1
N-Propylbenzene	ND		1.0		ug/L			04/14/15 01:14	1
o-Xylene	ND		1.0		ug/L			04/14/15 01:14	1
sec-Butylbenzene	ND		1.0		ug/L			04/14/15 01:14	1
Styrene	ND		1.0		ug/L			04/14/15 01:14	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/14/15 01:14	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/14/15 01:14	1
tert-Butylbenzene	ND		1.0		ug/L			04/14/15 01:14	1
Tetrachloroethene	ND		1.0		ug/L			04/14/15 01:14	1
Tetrahydrofuran	ND		10		ug/L			04/14/15 01:14	1
Toluene	ND		1.0		ug/L			04/14/15 01:14	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/14/15 01:14	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/14/15 01:14	1
Trichloroethene	ND		1.0		ug/L			04/14/15 01:14	1
Trichlorofluoromethane	ND		1.0		ug/L			04/14/15 01:14	1
Vinyl chloride	ND		1.0		ug/L			04/14/15 01:14	1
Dibromomethane	ND		1.0		ug/L			04/14/15 01:14	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*97*		*70 - 130*		*04/14/15 01:14*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 130*		*04/14/15 01:14*	*1*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*04/14/15 01:14*	*1*

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

Lab Sample ID: LCS 480-235943/4
Matrix: Water
Analysis Batch: 235943

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	24.9		ug/L		100	70 - 130
1,1,1-Trichloroethane	25.0	26.2		ug/L		105	70 - 130
1,1,2,2-Tetrachloroethane	25.0	22.6		ug/L		90	70 - 130
1,1,2-Trichloroethane	25.0	24.4		ug/L		98	70 - 130
1,1-Dichloroethane	25.0	26.1		ug/L		105	70 - 130
1,1-Dichloroethene	25.0	23.7		ug/L		95	70 - 130
1,1-Dichloropropene	25.0	25.8		ug/L		103	70 - 130
1,2,3-Trichlorobenzene	25.0	26.2		ug/L		105	70 - 130
1,2,3-Trichloropropane	25.0	23.5		ug/L		94	70 - 130
1,2,4-Trichlorobenzene	25.0	25.0		ug/L		100	70 - 130
1,2,4-Trimethylbenzene	25.0	24.8		ug/L		99	70 - 130
1,2-Dibromo-3-Chloropropane	25.0	21.9		ug/L		88	70 - 130
1,2-Dichlorobenzene	25.0	24.9		ug/L		99	70 - 130
1,2-Dichloroethane	25.0	24.3		ug/L		97	70 - 130
1,2-Dichloropropane	25.0	25.7		ug/L		103	70 - 130
1,3,5-Trimethylbenzene	25.0	25.4		ug/L		101	70 - 130
1,3-Dichlorobenzene	25.0	25.2		ug/L		101	70 - 130
1,3-Dichloropropane	25.0	23.7		ug/L		95	70 - 130
1,4-Dichlorobenzene	25.0	25.4		ug/L		102	70 - 130
1,4-Dioxane	500	298	*	ug/L		60	70 - 130
2,2-Dichloropropane	25.0	25.8		ug/L		103	70 - 130
2-Butanone (MEK)	125	212	*	ug/L		169	70 - 130
2-Chlorotoluene	25.0	24.5		ug/L		98	70 - 130
2-Hexanone	125	116		ug/L		93	70 - 130
4-Chlorotoluene	25.0	25.2		ug/L		101	70 - 130
4-Isopropyltoluene	25.0	25.6		ug/L		102	70 - 130
4-Methyl-2-pentanone (MIBK)	125	112		ug/L		90	70 - 130
Acetone	125	109		ug/L		88	70 - 130
Benzene	25.0	25.0		ug/L		100	70 - 130
Bromobenzene	25.0	24.4		ug/L		97	70 - 130
Bromoform	25.0	23.8		ug/L		95	70 - 130
Bromomethane	25.0	26.2		ug/L		105	70 - 130
Carbon disulfide	25.0	22.8		ug/L		91	70 - 130
Carbon tetrachloride	25.0	26.3		ug/L		105	70 - 130
Chlorobenzene	25.0	25.6		ug/L		103	70 - 130
Chlorobromomethane	25.0	25.4		ug/L		101	70 - 130
Chlorodibromomethane	25.0	24.9		ug/L		100	70 - 130
Chloroethane	25.0	24.9		ug/L		99	70 - 130
Chloroform	25.0	25.7		ug/L		103	70 - 130
Chloromethane	25.0	24.8		ug/L		99	70 - 130
cis-1,2-Dichloroethene	25.0	25.7		ug/L		103	70 - 130
cis-1,3-Dichloropropene	25.0	25.5		ug/L		102	70 - 130
Dichlorobromomethane	25.0	25.4		ug/L		102	70 - 130
Dichlorodifluoromethane	25.0	26.1		ug/L		104	70 - 130
Ethyl ether	25.0	23.4		ug/L		94	70 - 130
Ethylbenzene	25.0	25.1		ug/L		100	70 - 130
Ethylene Dibromide	25.0	24.3		ug/L		97	70 - 130
Hexachlorobutadiene	25.0	28.3		ug/L		113	70 - 130

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

Lab Sample ID: LCS 480-235943/4
Matrix: Water
Analysis Batch: 235943

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	25.0		ug/L		100	70 - 130
Isopropylbenzene	25.0	25.3		ug/L		101	70 - 130
Methyl tert-butyl ether	25.0	23.8		ug/L		95	70 - 130
Methylene Chloride	25.0	24.1		ug/L		97	70 - 130
m-Xylene & p-Xylene	25.0	24.8		ug/L		99	70 - 130
Naphthalene	25.0	24.8		ug/L		99	70 - 130
n-Butylbenzene	25.0	25.7		ug/L		103	70 - 130
N-Propylbenzene	25.0	24.7		ug/L		99	70 - 130
o-Xylene	25.0	25.1		ug/L		101	70 - 130
sec-Butylbenzene	25.0	26.3		ug/L		105	70 - 130
Styrene	25.0	24.8		ug/L		99	70 - 130
Tert-amyl methyl ether	25.0	24.3		ug/L		97	70 - 130
Tert-butyl ethyl ether	25.0	24.2		ug/L		97	70 - 130
tert-Butylbenzene	25.0	25.3		ug/L		101	70 - 130
Tetrachloroethene	25.0	27.5		ug/L		110	70 - 130
Tetrahydrofuran	50.0	63.4		ug/L		127	70 - 130
Toluene	25.0	24.4		ug/L		98	70 - 130
trans-1,2-Dichloroethene	25.0	25.1		ug/L		101	70 - 130
trans-1,3-Dichloropropene	25.0	23.6		ug/L		94	70 - 130
Trichloroethene	25.0	26.5		ug/L		106	70 - 130
Trichlorofluoromethane	25.0	29.7		ug/L		119	70 - 130
Vinyl chloride	25.0	25.4		ug/L		102	70 - 130
Dibromomethane	25.0	25.3		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)	*104*		*70 - 130*

Lab Sample ID: LCSD 480-235943/5
Matrix: Water
Analysis Batch: 235943

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	5	20
1,1,1-Trichloroethane	25.0	24.5		ug/L		98	70 - 130	7	20
1,1,2,2-Tetrachloroethane	25.0	22.5		ug/L		90	70 - 130	0	20
1,1,2-Trichloroethane	25.0	23.7		ug/L		95	70 - 130	3	20
1,1-Dichloroethane	25.0	24.9		ug/L		99	70 - 130	5	20
1,1-Dichloroethene	25.0	21.9		ug/L		88	70 - 130	8	20
1,1-Dichloropropene	25.0	24.4		ug/L		98	70 - 130	6	20
1,2,3-Trichlorobenzene	25.0	25.8		ug/L		103	70 - 130	2	20
1,2,3-Trichloropropane	25.0	23.4		ug/L		94	70 - 130	0	20
1,2,4-Trichlorobenzene	25.0	24.4		ug/L		98	70 - 130	2	20
1,2,4-Trimethylbenzene	25.0	24.0		ug/L		96	70 - 130	3	20
1,2-Dibromo-3-Chloropropane	25.0	22.8		ug/L		91	70 - 130	4	20
1,2-Dichlorobenzene	25.0	24.4		ug/L		98	70 - 130	2	20
1,2-Dichloroethane	25.0	24.2		ug/L		97	70 - 130	0	20

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

Lab Sample ID: LCSD 480-235943/5
Matrix: Water
Analysis Batch: 235943

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	24.6		ug/L		98	70 - 130	5	20
1,3,5-Trimethylbenzene	25.0	24.4		ug/L		98	70 - 130	4	20
1,3-Dichlorobenzene	25.0	24.2		ug/L		97	70 - 130	4	20
1,3-Dichloropropane	25.0	22.9		ug/L		92	70 - 130	3	20
1,4-Dichlorobenzene	25.0	24.3		ug/L		97	70 - 130	4	20
1,4-Dioxane	500	382	*	ug/L		76	70 - 130	25	20
2,2-Dichloropropane	25.0	24.2		ug/L		97	70 - 130	6	20
2-Butanone (MEK)	125	204	*	ug/L		163	70 - 130	4	20
2-Chlorotoluene	25.0	24.0		ug/L		96	70 - 130	2	20
2-Hexanone	125	113		ug/L		91	70 - 130	2	20
4-Chlorotoluene	25.0	24.5		ug/L		98	70 - 130	3	20
4-Isopropyltoluene	25.0	25.1		ug/L		100	70 - 130	2	20
4-Methyl-2-pentanone (MIBK)	125	111		ug/L		89	70 - 130	1	20
Acetone	125	110		ug/L		88	70 - 130	0	20
Benzene	25.0	23.7		ug/L		95	70 - 130	5	20
Bromobenzene	25.0	24.1		ug/L		96	70 - 130	1	20
Bromoform	25.0	23.5		ug/L		94	70 - 130	1	20
Bromomethane	25.0	24.7		ug/L		99	70 - 130	6	20
Carbon disulfide	25.0	21.0		ug/L		84	70 - 130	8	20
Carbon tetrachloride	25.0	24.9		ug/L		100	70 - 130	5	20
Chlorobenzene	25.0	24.7		ug/L		99	70 - 130	4	20
Chlorobromomethane	25.0	24.4		ug/L		98	70 - 130	4	20
Chlorodibromomethane	25.0	24.8		ug/L		99	70 - 130	0	20
Chloroethane	25.0	23.7		ug/L		95	70 - 130	5	20
Chloroform	25.0	24.3		ug/L		97	70 - 130	5	20
Chloromethane	25.0	22.9		ug/L		92	70 - 130	8	20
cis-1,2-Dichloroethene	25.0	24.4		ug/L		98	70 - 130	5	20
cis-1,3-Dichloropropene	25.0	24.4		ug/L		98	70 - 130	4	20
Dichlorobromomethane	25.0	24.6		ug/L		98	70 - 130	3	20
Dichlorodifluoromethane	25.0	23.6		ug/L		94	70 - 130	10	20
Ethyl ether	25.0	23.1		ug/L		92	70 - 130	1	20
Ethylbenzene	25.0	23.7		ug/L		95	70 - 130	6	20
Ethylene Dibromide	25.0	23.9		ug/L		96	70 - 130	2	20
Hexachlorobutadiene	25.0	27.3		ug/L		109	70 - 130	3	20
Isopropyl ether	25.0	24.1		ug/L		97	70 - 130	3	20
Isopropylbenzene	25.0	24.5		ug/L		98	70 - 130	3	20
Methyl tert-butyl ether	25.0	23.4		ug/L		94	70 - 130	1	20
Methylene Chloride	25.0	22.7		ug/L		91	70 - 130	6	20
m-Xylene & p-Xylene	25.0	23.8		ug/L		95	70 - 130	4	20
Naphthalene	25.0	24.4		ug/L		98	70 - 130	1	20
n-Butylbenzene	25.0	25.0		ug/L		100	70 - 130	3	20
N-Propylbenzene	25.0	24.1		ug/L		96	70 - 130	3	20
o-Xylene	25.0	24.3		ug/L		97	70 - 130	3	20
sec-Butylbenzene	25.0	25.0		ug/L		100	70 - 130	5	20
Styrene	25.0	24.0		ug/L		96	70 - 130	3	20
Tert-amyl methyl ether	25.0	23.7		ug/L		95	70 - 130	2	20
Tert-butyl ethyl ether	25.0	23.8		ug/L		95	70 - 130	2	20
tert-Butylbenzene	25.0	24.4		ug/L		98	70 - 130	4	20

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

Lab Sample ID: LCSD 480-235943/5
Matrix: Water
Analysis Batch: 235943

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	6	20
Tetrahydrofuran			50.0	62.4		ug/L		125	70 - 130	2	20
Toluene			25.0	23.1		ug/L		93	70 - 130	5	20
trans-1,2-Dichloroethene			25.0	24.3		ug/L		97	70 - 130	3	20
trans-1,3-Dichloropropene			25.0	23.3		ug/L		93	70 - 130	1	20
Trichloroethene			25.0	24.5		ug/L		98	70 - 130	8	20
Trichlorofluoromethane			25.0	27.3		ug/L		109	70 - 130	8	20
Vinyl chloride			25.0	23.9		ug/L		96	70 - 130	6	20
Dibromomethane			25.0	25.1		ug/L		100	70 - 130	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*97*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 130*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*

Lab Sample ID: MB 480-236494/10
Matrix: Water
Analysis Batch: 236494

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			04/16/15 14:22	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/16/15 14:22	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/16/15 14:22	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/16/15 14:22	1
1,1-Dichloroethane	ND		1.0		ug/L			04/16/15 14:22	1
1,1-Dichloroethene	ND		1.0		ug/L			04/16/15 14:22	1
1,1-Dichloropropene	ND		1.0		ug/L			04/16/15 14:22	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/16/15 14:22	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/16/15 14:22	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/16/15 14:22	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/16/15 14:22	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/16/15 14:22	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/16/15 14:22	1
1,2-Dichloroethane	ND		1.0		ug/L			04/16/15 14:22	1
1,2-Dichloropropane	ND		1.0		ug/L			04/16/15 14:22	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/16/15 14:22	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/16/15 14:22	1
1,3-Dichloropropane	ND		1.0		ug/L			04/16/15 14:22	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/16/15 14:22	1
1,4-Dioxane	ND		50		ug/L			04/16/15 14:22	1
2,2-Dichloropropane	ND		1.0		ug/L			04/16/15 14:22	1
2-Butanone (MEK)	ND		10		ug/L			04/16/15 14:22	1
2-Chlorotoluene	ND		1.0		ug/L			04/16/15 14:22	1
2-Hexanone	ND		10		ug/L			04/16/15 14:22	1
4-Chlorotoluene	ND		1.0		ug/L			04/16/15 14:22	1
4-Isopropyltoluene	ND		1.0		ug/L			04/16/15 14:22	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/16/15 14:22	1
Acetone	ND		50		ug/L			04/16/15 14:22	1

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

Lab Sample ID: MB 480-236494/10
Matrix: Water
Analysis Batch: 236494

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			04/16/15 14:22	1
Bromobenzene	ND		1.0		ug/L			04/16/15 14:22	1
Bromoform	ND		1.0		ug/L			04/16/15 14:22	1
Bromomethane	ND		2.0		ug/L			04/16/15 14:22	1
Carbon disulfide	ND		10		ug/L			04/16/15 14:22	1
Carbon tetrachloride	ND		1.0		ug/L			04/16/15 14:22	1
Chlorobenzene	ND		1.0		ug/L			04/16/15 14:22	1
Chlorobromomethane	ND		1.0		ug/L			04/16/15 14:22	1
Chlorodibromomethane	ND		0.50		ug/L			04/16/15 14:22	1
Chloroethane	ND		2.0		ug/L			04/16/15 14:22	1
Chloroform	ND		1.0		ug/L			04/16/15 14:22	1
Chloromethane	ND		2.0		ug/L			04/16/15 14:22	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			04/16/15 14:22	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/16/15 14:22	1
Dichlorobromomethane	ND		0.50		ug/L			04/16/15 14:22	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/16/15 14:22	1
Ethyl ether	ND		1.0		ug/L			04/16/15 14:22	1
Ethylbenzene	ND		1.0		ug/L			04/16/15 14:22	1
Ethylene Dibromide	ND		1.0		ug/L			04/16/15 14:22	1
Hexachlorobutadiene	ND		0.40		ug/L			04/16/15 14:22	1
Isopropyl ether	ND		10		ug/L			04/16/15 14:22	1
Isopropylbenzene	ND		1.0		ug/L			04/16/15 14:22	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/16/15 14:22	1
Methylene Chloride	ND		1.0		ug/L			04/16/15 14:22	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/16/15 14:22	1
Naphthalene	ND		5.0		ug/L			04/16/15 14:22	1
n-Butylbenzene	ND		1.0		ug/L			04/16/15 14:22	1
N-Propylbenzene	ND		1.0		ug/L			04/16/15 14:22	1
o-Xylene	ND		1.0		ug/L			04/16/15 14:22	1
sec-Butylbenzene	ND		1.0		ug/L			04/16/15 14:22	1
Styrene	ND		1.0		ug/L			04/16/15 14:22	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/16/15 14:22	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/16/15 14:22	1
tert-Butylbenzene	ND		1.0		ug/L			04/16/15 14:22	1
Tetrachloroethene	ND		1.0		ug/L			04/16/15 14:22	1
Tetrahydrofuran	ND		10		ug/L			04/16/15 14:22	1
Toluene	ND		1.0		ug/L			04/16/15 14:22	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/16/15 14:22	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/16/15 14:22	1
Trichloroethene	ND		1.0		ug/L			04/16/15 14:22	1
Trichlorofluoromethane	ND		1.0		ug/L			04/16/15 14:22	1
Vinyl chloride	ND		1.0		ug/L			04/16/15 14:22	1
Dibromomethane	ND		1.0		ug/L			04/16/15 14:22	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*99*		*70 - 130*		*04/16/15 14:22*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 130*		*04/16/15 14:22*	*1*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*		*04/16/15 14:22*	*1*

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

Lab Sample ID: LCS 480-236494/4
Matrix: Water
Analysis Batch: 236494

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	25.9		ug/L		104	70 - 130
1,1,1-Trichloroethane	25.0	25.8		ug/L		103	70 - 130
1,1,2,2-Tetrachloroethane	25.0	24.3		ug/L		97	70 - 130
1,1,2-Trichloroethane	25.0	26.6		ug/L		106	70 - 130
1,1-Dichloroethane	25.0	27.1		ug/L		108	70 - 130
1,1-Dichloroethene	25.0	24.8		ug/L		99	70 - 130
1,1-Dichloropropene	25.0	25.4		ug/L		102	70 - 130
1,2,3-Trichlorobenzene	25.0	27.5		ug/L		110	70 - 130
1,2,3-Trichloropropane	25.0	25.2		ug/L		101	70 - 130
1,2,4-Trichlorobenzene	25.0	26.1		ug/L		104	70 - 130
1,2,4-Trimethylbenzene	25.0	26.1		ug/L		104	70 - 130
1,2-Dibromo-3-Chloropropane	25.0	23.9		ug/L		96	70 - 130
1,2-Dichlorobenzene	25.0	26.6		ug/L		106	70 - 130
1,2-Dichloroethane	25.0	26.5		ug/L		106	70 - 130
1,2-Dichloropropane	25.0	26.9		ug/L		108	70 - 130
1,3,5-Trimethylbenzene	25.0	25.8		ug/L		103	70 - 130
1,3-Dichlorobenzene	25.0	26.3		ug/L		105	70 - 130
1,3-Dichloropropane	25.0	25.8		ug/L		103	70 - 130
1,4-Dichlorobenzene	25.0	26.7		ug/L		107	70 - 130
1,4-Dioxane	500	410		ug/L		82	70 - 130
2,2-Dichloropropane	25.0	25.6		ug/L		102	70 - 130
2-Butanone (MEK)	125	225	*	ug/L		180	70 - 130
2-Chlorotoluene	25.0	25.7		ug/L		103	70 - 130
2-Hexanone	125	123		ug/L		98	70 - 130
4-Chlorotoluene	25.0	26.4		ug/L		106	70 - 130
4-Isopropyltoluene	25.0	26.3		ug/L		105	70 - 130
4-Methyl-2-pentanone (MIBK)	125	117		ug/L		94	70 - 130
Acetone	125	133		ug/L		107	70 - 130
Benzene	25.0	25.6		ug/L		102	70 - 130
Bromobenzene	25.0	26.3		ug/L		105	70 - 130
Bromoform	25.0	24.7		ug/L		99	70 - 130
Bromomethane	25.0	25.6		ug/L		102	70 - 130
Carbon disulfide	25.0	25.1		ug/L		101	70 - 130
Carbon tetrachloride	25.0	25.6		ug/L		103	70 - 130
Chlorobenzene	25.0	27.4		ug/L		110	70 - 130
Chlorobromomethane	25.0	27.6		ug/L		110	70 - 130
Chlorodibromomethane	25.0	26.2		ug/L		105	70 - 130
Chloroethane	25.0	23.6		ug/L		94	70 - 130
Chloroform	25.0	27.1		ug/L		109	70 - 130
Chloromethane	25.0	23.9		ug/L		96	70 - 130
cis-1,2-Dichloroethene	25.0	26.8		ug/L		107	70 - 130
cis-1,3-Dichloropropene	25.0	26.9		ug/L		108	70 - 130
Dichlorobromomethane	25.0	26.9		ug/L		108	70 - 130
Dichlorodifluoromethane	25.0	23.5		ug/L		94	70 - 130
Ethyl ether	25.0	25.5		ug/L		102	70 - 130
Ethylbenzene	25.0	26.0		ug/L		104	70 - 130
Ethylene Dibromide	25.0	26.5		ug/L		106	70 - 130
Hexachlorobutadiene	25.0	28.1		ug/L		112	70 - 130

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

Lab Sample ID: LCS 480-236494/4
Matrix: Water
Analysis Batch: 236494

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	25.9		ug/L		103	70 - 130
Isopropylbenzene	25.0	25.5		ug/L		102	70 - 130
Methyl tert-butyl ether	25.0	25.9		ug/L		104	70 - 130
Methylene Chloride	25.0	27.3		ug/L		109	70 - 130
m-Xylene & p-Xylene	25.0	25.9		ug/L		104	70 - 130
Naphthalene	25.0	25.9		ug/L		103	70 - 130
n-Butylbenzene	25.0	26.3		ug/L		105	70 - 130
N-Propylbenzene	25.0	25.2		ug/L		101	70 - 130
o-Xylene	25.0	26.2		ug/L		105	70 - 130
sec-Butylbenzene	25.0	25.7		ug/L		103	70 - 130
Styrene	25.0	26.0		ug/L		104	70 - 130
Tert-amyl methyl ether	25.0	24.9		ug/L		100	70 - 130
Tert-butyl ethyl ether	25.0	25.2		ug/L		101	70 - 130
tert-Butylbenzene	25.0	25.6		ug/L		102	70 - 130
Tetrachloroethene	25.0	26.7		ug/L		107	70 - 130
Tetrahydrofuran	50.0	66.6	*	ug/L		133	70 - 130
Toluene	25.0	25.6		ug/L		102	70 - 130
trans-1,2-Dichloroethene	25.0	25.9		ug/L		104	70 - 130
trans-1,3-Dichloropropene	25.0	25.4		ug/L		101	70 - 130
Trichloroethene	25.0	26.5		ug/L		106	70 - 130
Trichlorofluoromethane	25.0	23.3		ug/L		93	70 - 130
Vinyl chloride	25.0	22.5		ug/L		90	70 - 130
Dibromomethane	25.0	27.0		ug/L		108	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*99*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 130*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*

Lab Sample ID: LCSD 480-236494/5
Matrix: Water
Analysis Batch: 236494

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	25.6		ug/L		102	70 - 130	1	20
1,1,1-Trichloroethane	25.0	25.1		ug/L		101	70 - 130	3	20
1,1,2,2-Tetrachloroethane	25.0	24.3		ug/L		97	70 - 130	0	20
1,1,2-Trichloroethane	25.0	26.2		ug/L		105	70 - 130	1	20
1,1-Dichloroethane	25.0	26.3		ug/L		105	70 - 130	3	20
1,1-Dichloroethene	25.0	23.7		ug/L		95	70 - 130	4	20
1,1-Dichloropropene	25.0	24.7		ug/L		99	70 - 130	3	20
1,2,3-Trichlorobenzene	25.0	27.6		ug/L		110	70 - 130	1	20
1,2,3-Trichloropropane	25.0	25.3		ug/L		101	70 - 130	0	20
1,2,4-Trichlorobenzene	25.0	26.3		ug/L		105	70 - 130	1	20
1,2,4-Trimethylbenzene	25.0	25.5		ug/L		102	70 - 130	2	20
1,2-Dibromo-3-Chloropropane	25.0	24.6		ug/L		99	70 - 130	3	20
1,2-Dichlorobenzene	25.0	26.2		ug/L		105	70 - 130	1	20
1,2-Dichloroethane	25.0	26.3		ug/L		105	70 - 130	1	20

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

Lab Sample ID: LCSD 480-236494/5
Matrix: Water
Analysis Batch: 236494

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	26.7		ug/L		107	70 - 130	1	20
1,3,5-Trimethylbenzene	25.0	25.5		ug/L		102	70 - 130	1	20
1,3-Dichlorobenzene	25.0	26.0		ug/L		104	70 - 130	1	20
1,3-Dichloropropane	25.0	25.2		ug/L		101	70 - 130	2	20
1,4-Dichlorobenzene	25.0	26.0		ug/L		104	70 - 130	3	20
1,4-Dioxane	500	488		ug/L		98	70 - 130	17	20
2,2-Dichloropropane	25.0	25.2		ug/L		101	70 - 130	2	20
2-Butanone (MEK)	125	222	*	ug/L		178	70 - 130	1	20
2-Chlorotoluene	25.0	25.3		ug/L		101	70 - 130	1	20
2-Hexanone	125	124		ug/L		99	70 - 130	1	20
4-Chlorotoluene	25.0	25.7		ug/L		103	70 - 130	3	20
4-Isopropyltoluene	25.0	25.5		ug/L		102	70 - 130	3	20
4-Methyl-2-pentanone (MIBK)	125	119		ug/L		95	70 - 130	1	20
Acetone	125	134		ug/L		107	70 - 130	0	20
Benzene	25.0	25.0		ug/L		100	70 - 130	3	20
Bromobenzene	25.0	26.1		ug/L		104	70 - 130	1	20
Bromoform	25.0	24.9		ug/L		99	70 - 130	1	20
Bromomethane	25.0	24.9		ug/L		100	70 - 130	3	20
Carbon disulfide	25.0	24.3		ug/L		97	70 - 130	3	20
Carbon tetrachloride	25.0	25.0		ug/L		100	70 - 130	2	20
Chlorobenzene	25.0	26.5		ug/L		106	70 - 130	3	20
Chlorobromomethane	25.0	26.9		ug/L		108	70 - 130	2	20
Chlorodibromomethane	25.0	26.3		ug/L		105	70 - 130	0	20
Chloroethane	25.0	22.8		ug/L		91	70 - 130	3	20
Chloroform	25.0	26.4		ug/L		105	70 - 130	3	20
Chloromethane	25.0	23.1		ug/L		92	70 - 130	4	20
cis-1,2-Dichloroethene	25.0	26.2		ug/L		105	70 - 130	2	20
cis-1,3-Dichloropropene	25.0	26.8		ug/L		107	70 - 130	0	20
Dichlorobromomethane	25.0	26.5		ug/L		106	70 - 130	2	20
Dichlorodifluoromethane	25.0	22.0		ug/L		88	70 - 130	6	20
Ethyl ether	25.0	25.4		ug/L		102	70 - 130	0	20
Ethylbenzene	25.0	24.8		ug/L		99	70 - 130	5	20
Ethylene Dibromide	25.0	26.3		ug/L		105	70 - 130	1	20
Hexachlorobutadiene	25.0	27.1		ug/L		109	70 - 130	3	20
Isopropyl ether	25.0	25.3		ug/L		101	70 - 130	2	20
Isopropylbenzene	25.0	24.8		ug/L		99	70 - 130	2	20
Methyl tert-butyl ether	25.0	26.1		ug/L		105	70 - 130	1	20
Methylene Chloride	25.0	27.1		ug/L		108	70 - 130	1	20
m-Xylene & p-Xylene	25.0	24.8		ug/L		99	70 - 130	4	20
Naphthalene	25.0	27.0		ug/L		108	70 - 130	4	20
n-Butylbenzene	25.0	25.4		ug/L		101	70 - 130	4	20
N-Propylbenzene	25.0	24.6		ug/L		98	70 - 130	3	20
o-Xylene	25.0	25.4		ug/L		101	70 - 130	3	20
sec-Butylbenzene	25.0	25.1		ug/L		100	70 - 130	2	20
Styrene	25.0	25.6		ug/L		102	70 - 130	2	20
Tert-amyl methyl ether	25.0	25.1		ug/L		101	70 - 130	1	20
Tert-butyl ethyl ether	25.0	25.2		ug/L		101	70 - 130	0	20
tert-Butylbenzene	25.0	24.6		ug/L		98	70 - 130	4	20

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

Lab Sample ID: LCSD 480-236494/5
Matrix: Water
Analysis Batch: 236494

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			50.0	67.7	*	ug/L		135	70 - 130	2	20
Toluene			25.0	24.5		ug/L		98	70 - 130	4	20
trans-1,2-Dichloroethene			25.0	25.8		ug/L		103	70 - 130	1	20
trans-1,3-Dichloropropene			25.0	25.4		ug/L		102	70 - 130	0	20
Trichloroethene			25.0	26.2		ug/L		105	70 - 130	1	20
Trichlorofluoromethane			25.0	22.3		ug/L		89	70 - 130	4	20
Vinyl chloride			25.0	21.7		ug/L		87	70 - 130	3	20
Dibromomethane			25.0	27.1		ug/L		108	70 - 130	0	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*98*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 130*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Lab Sample ID: MB 200-86749/1-A
Matrix: Water
Analysis Batch: 86753

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 86749

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20		ug/L		04/10/15 19:00	04/11/15 11:41	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*82*		*70 - 130*	*04/10/15 19:00*	*04/11/15 11:41*	*1*

Lab Sample ID: LCS 200-86749/2-A
Matrix: Water
Analysis Batch: 86753

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 86749

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dioxane			2.00	2.00		ug/L		100	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,4-Dioxane-d8 (Surr)	*82*		*70 - 130*

GC/MS VOA

Analysis Batch: 235341

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-78021-1	MW-261S-20150407	Total/NA	Water	8260C	
480-78021-4	MW-265M-20150407	Total/NA	Water	8260C	
480-78021-5	MW-265D-20150408	Total/NA	Water	8260C	
480-78021-6	MW-266Ma-20150408	Total/NA	Water	8260C	
480-78021-7	MW-266Mb-20150408	Total/NA	Water	8260C	
480-78021-8	MW-267S-20150408	Total/NA	Water	8260C	
480-78021-9	MW-267M-20150408	Total/NA	Water	8260C	
480-78021-10	MW-268S-20150408	Total/NA	Water	8260C	
480-78021-11	MW-268M-20150408	Total/NA	Water	8260C	
480-78021-12	MW-268D-20150408	Total/NA	Water	8260C	
480-78021-13	MW-269Ma-20150408	Total/NA	Water	8260C	
480-78021-14	MW-551-20150408	Total/NA	Water	8260C	
LCS 480-235341/4	Lab Control Sample	Total/NA	Water	8260C	
LCSD 480-235341/5	Lab Control Sample Dup	Total/NA	Water	8260C	
MB 480-235341/7	Method Blank	Total/NA	Water	8260C	

Analysis Batch: 235529

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-78021-1 - DL	MW-261S-20150407	Total/NA	Water	8260C	
480-78021-2	MW-264M-20150408	Total/NA	Water	8260C	
480-78021-3	MW-265S-20150408	Total/NA	Water	8260C	
480-78021-10 - DL	MW-268S-20150408	Total/NA	Water	8260C	
480-78021-14 - DL	MW-551-20150408	Total/NA	Water	8260C	
480-78021-16	MW-553-20150408	Total/NA	Water	8260C	
480-78021-17	MW-560-20150407	Total/NA	Water	8260C	
480-78021-19	MW-562-20150407	Total/NA	Water	8260C	
480-78021-20	MW-563-20150407	Total/NA	Water	8260C	
480-78021-21	REW-1-20150407	Total/NA	Water	8260C	
480-78021-22	REW-4-20150407	Total/NA	Water	8260C	
480-78021-23	REW-5-20150407	Total/NA	Water	8260C	
480-78021-24	REW-6-20150407	Total/NA	Water	8260C	
480-78021-25	REW-7-20150407	Total/NA	Water	8260C	
480-78021-26	REW-8-20150407	Total/NA	Water	8260C	
480-78021-27	REW-9-20150407	Total/NA	Water	8260C	
LCS 480-235529/4	Lab Control Sample	Total/NA	Water	8260C	
LCSD 480-235529/5	Lab Control Sample Dup	Total/NA	Water	8260C	
MB 480-235529/7	Method Blank	Total/NA	Water	8260C	

Analysis Batch: 235783

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-78021-31	DUP-1-20150407	Total/NA	Water	8260C	
480-78021-31 MS	DUP-1-20150407	Total/NA	Water	8260C	
480-78021-31 MSD	DUP-1-20150407	Total/NA	Water	8260C	
480-78021-32	DUP-2-20150407	Total/NA	Water	8260C	
LCS 480-235783/5	Lab Control Sample	Total/NA	Water	8260C	
LCSD 480-235783/6	Lab Control Sample Dup	Total/NA	Water	8260C	
MB 480-235783/8	Method Blank	Total/NA	Water	8260C	

Analysis Batch: 235943

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-78021-15	MW-552-20150408	Total/NA	Water	8260C	

GC/MS VOA (Continued)

Analysis Batch: 235943 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-78021-18	MW-561-20150407	Total/NA	Water	8260C	
480-78021-28	REW-10-20150407	Total/NA	Water	8260C	
480-78021-29	REW-11-20150407	Total/NA	Water	8260C	
480-78021-30	REW-12-20150407	Total/NA	Water	8260C	
480-78021-33	DUP-3-20150408	Total/NA	Water	8260C	
480-78021-34	TRIP BLANK	Total/NA	Water	8260C	
LCS 480-235943/4	Lab Control Sample	Total/NA	Water	8260C	
LCSD 480-235943/5	Lab Control Sample Dup	Total/NA	Water	8260C	
MB 480-235943/7	Method Blank	Total/NA	Water	8260C	

Analysis Batch: 236494

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-78021-33 - DL	DUP-3-20150408	Total/NA	Water	8260C	
LCS 480-236494/4	Lab Control Sample	Total/NA	Water	8260C	
LCSD 480-236494/5	Lab Control Sample Dup	Total/NA	Water	8260C	
MB 480-236494/10	Method Blank	Total/NA	Water	8260C	

GC/MS Semi VOA

Prep Batch: 86749

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-78021-1	MW-261S-20150407	Total/NA	Water	3535A	
480-78021-4	MW-265M-20150407	Total/NA	Water	3535A	
480-78021-6	MW-266Ma-20150408	Total/NA	Water	3535A	
480-78021-8	MW-267S-20150408	Total/NA	Water	3535A	
480-78021-9	MW-267M-20150408	Total/NA	Water	3535A	
480-78021-10	MW-268S-20150408	Total/NA	Water	3535A	
480-78021-11	MW-268M-20150408	Total/NA	Water	3535A	
480-78021-13	MW-269Ma-20150408	Total/NA	Water	3535A	
480-78021-15	MW-552-20150408	Total/NA	Water	3535A	
480-78021-31	DUP-1-20150407	Total/NA	Water	3535A	
LCS 200-86749/2-A	Lab Control Sample	Total/NA	Water	3535A	
MB 200-86749/1-A	Method Blank	Total/NA	Water	3535A	

Analysis Batch: 86753

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-78021-1	MW-261S-20150407	Total/NA	Water	522 MOD	86749
480-78021-4	MW-265M-20150407	Total/NA	Water	522 MOD	86749
480-78021-6	MW-266Ma-20150408	Total/NA	Water	522 MOD	86749
480-78021-8	MW-267S-20150408	Total/NA	Water	522 MOD	86749
480-78021-9	MW-267M-20150408	Total/NA	Water	522 MOD	86749
480-78021-10	MW-268S-20150408	Total/NA	Water	522 MOD	86749
480-78021-11	MW-268M-20150408	Total/NA	Water	522 MOD	86749
480-78021-13	MW-269Ma-20150408	Total/NA	Water	522 MOD	86749
480-78021-15	MW-552-20150408	Total/NA	Water	522 MOD	86749
480-78021-31	DUP-1-20150407	Total/NA	Water	522 MOD	86749
LCS 200-86749/2-A	Lab Control Sample	Total/NA	Water	522 MOD	86749
MB 200-86749/1-A	Method Blank	Total/NA	Water	522 MOD	86749

Client Sample ID: MW-261S-20150407

Lab Sample ID: 480-78021-1

Date Collected: 04/07/15 10:55

Matrix: Water

Date Received: 04/09/15 00:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	235341	04/10/15 14:53	GTG	TAL BUF
Total/NA	Analysis	8260C	DL	25	235529	04/11/15 01:39	JWG	TAL BUF
Total/NA	Prep	3535A			86749	04/10/15 19:00	TPB	TAL BUR
Total/NA	Analysis	522 MOD		1	86753	04/11/15 15:27	DJB	TAL BUR

Client Sample ID: MW-264M-20150408

Lab Sample ID: 480-78021-2

Date Collected: 04/08/15 09:55

Matrix: Water

Date Received: 04/09/15 00:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	235529	04/11/15 02:03	JWG	TAL BUF

Client Sample ID: MW-265S-20150408

Lab Sample ID: 480-78021-3

Date Collected: 04/08/15 11:45

Matrix: Water

Date Received: 04/09/15 00:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	235529	04/11/15 02:27	JWG	TAL BUF

Client Sample ID: MW-265M-20150407

Lab Sample ID: 480-78021-4

Date Collected: 04/07/15 12:05

Matrix: Water

Date Received: 04/09/15 00:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		5	235341	04/10/15 16:04	GTG	TAL BUF
Total/NA	Prep	3535A			86749	04/10/15 19:00	TPB	TAL BUR
Total/NA	Analysis	522 MOD		1	86753	04/11/15 15:46	DJB	TAL BUR

Client Sample ID: MW-265D-20150408

Lab Sample ID: 480-78021-5

Date Collected: 04/08/15 11:05

Matrix: Water

Date Received: 04/09/15 00:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	235341	04/10/15 16:28	GTG	TAL BUF

Client Sample ID: MW-266Ma-20150408

Lab Sample ID: 480-78021-6

Date Collected: 04/08/15 11:00

Matrix: Water

Date Received: 04/09/15 00:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	235341	04/10/15 16:51	GTG	TAL BUF
Total/NA	Prep	3535A			86749	04/10/15 19:00	TPB	TAL BUR

Client Sample ID: MW-266Ma-20150408

Lab Sample ID: 480-78021-6

Date Collected: 04/08/15 11:00

Matrix: Water

Date Received: 04/09/15 00:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	522 MOD		1	86753	04/11/15 16:05	DJB	TAL BUR

Client Sample ID: MW-266Mb-20150408

Lab Sample ID: 480-78021-7

Date Collected: 04/08/15 11:55

Matrix: Water

Date Received: 04/09/15 00:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	235341	04/10/15 17:15	GTG	TAL BUF

Client Sample ID: MW-267S-20150408

Lab Sample ID: 480-78021-8

Date Collected: 04/08/15 09:30

Matrix: Water

Date Received: 04/09/15 00:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		5	235341	04/10/15 17:39	GTG	TAL BUF
Total/NA	Prep	3535A			86749	04/10/15 19:00	TPB	TAL BUR
Total/NA	Analysis	522 MOD		1	86753	04/11/15 16:24	DJB	TAL BUR

Client Sample ID: MW-267M-20150408

Lab Sample ID: 480-78021-9

Date Collected: 04/08/15 10:15

Matrix: Water

Date Received: 04/09/15 00:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	235341	04/10/15 18:02	GTG	TAL BUF
Total/NA	Prep	3535A			86749	04/10/15 19:00	TPB	TAL BUR
Total/NA	Analysis	522 MOD		1	86753	04/11/15 16:43	DJB	TAL BUR

Client Sample ID: MW-268S-20150408

Lab Sample ID: 480-78021-10

Date Collected: 04/07/15 13:50

Matrix: Water

Date Received: 04/09/15 00:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	235341	04/10/15 18:26	GTG	TAL BUF
Total/NA	Analysis	8260C	DL	4	235529	04/11/15 02:51	JWG	TAL BUF
Total/NA	Prep	3535A			86749	04/10/15 19:00	TPB	TAL BUR
Total/NA	Analysis	522 MOD		1	86753	04/11/15 17:02	DJB	TAL BUR

Client Sample ID: MW-268M-20150408 — Lab Sample ID: 480-78021-11

Date Collected: 04/07/15 12:25 — **Matrix: Water**
Date Received: 04/09/15 00:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		40	235341	04/10/15 18:50	GTG	TAL BUF
Total/NA	Prep	3535A			86749	04/10/15 19:00	TPB	TAL BUR
Total/NA	Analysis	522 MOD		1	86753	04/11/15 17:21	DJB	TAL BUR

Client Sample ID: MW-268D-20150408 — Lab Sample ID: 480-78021-12

Date Collected: 04/08/15 09:05 — **Matrix: Water**
Date Received: 04/09/15 00:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	235341	04/10/15 19:14	GTG	TAL BUF

Client Sample ID: MW-269Ma-20150408 — Lab Sample ID: 480-78021-13

Date Collected: 04/08/15 11:50 — **Matrix: Water**
Date Received: 04/09/15 00:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	235341	04/10/15 19:38	GTG	TAL BUF
Total/NA	Prep	3535A			86749	04/10/15 19:00	TPB	TAL BUR
Total/NA	Analysis	522 MOD		1	86753	04/11/15 18:00	DJB	TAL BUR

Client Sample ID: MW-551-20150408 — Lab Sample ID: 480-78021-14

Date Collected: 04/08/15 10:20 — **Matrix: Water**
Date Received: 04/09/15 00:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	235341	04/10/15 20:01	GTG	TAL BUF
Total/NA	Analysis	8260C	DL	2	235529	04/11/15 03:15	JWG	TAL BUF

Client Sample ID: MW-552-20150408 — Lab Sample ID: 480-78021-15

Date Collected: 04/08/15 09:35 — **Matrix: Water**
Date Received: 04/09/15 00:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		2	235943	04/14/15 03:19	SWO	TAL BUF
Total/NA	Prep	3535A			86749	04/10/15 19:00	TPB	TAL BUR
Total/NA	Analysis	522 MOD		1	86753	04/11/15 18:19	DJB	TAL BUR

Client Sample ID: MW-553-20150408 — **Lab Sample ID: 480-78021-16**
Date Collected: 04/08/15 09:00 — **Matrix: Water**
Date Received: 04/09/15 00:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	235529	04/11/15 04:03	JWG	TAL BUF

Client Sample ID: MW-560-20150407 — **Lab Sample ID: 480-78021-17**
Date Collected: 04/07/15 11:05 — **Matrix: Water**
Date Received: 04/09/15 00:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	235529	04/11/15 04:26	JWG	TAL BUF

Client Sample ID: MW-561-20150407 — **Lab Sample ID: 480-78021-18**
Date Collected: 04/07/15 08:45 — **Matrix: Water**
Date Received: 04/09/15 00:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		2	235943	04/14/15 03:42	SWO	TAL BUF

Client Sample ID: MW-562-20150407 — **Lab Sample ID: 480-78021-19**
Date Collected: 04/07/15 09:40 — **Matrix: Water**
Date Received: 04/09/15 00:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	235529	04/11/15 05:14	JWG	TAL BUF

Client Sample ID: MW-563-20150407 — **Lab Sample ID: 480-78021-20**
Date Collected: 04/07/15 10:05 — **Matrix: Water**
Date Received: 04/09/15 00:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	235529	04/11/15 05:38	JWG	TAL BUF

Client Sample ID: REW-1-20150407 — **Lab Sample ID: 480-78021-21**
Date Collected: 04/07/15 09:40 — **Matrix: Water**
Date Received: 04/09/15 00:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	235529	04/11/15 06:01	JWG	TAL BUF

Client Sample ID: REW-4-20150407 — **Lab Sample ID: 480-78021-22**
Date Collected: 04/07/15 08:25 — **Matrix: Water**
Date Received: 04/09/15 00:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	235529	04/11/15 06:25	JWG	TAL BUF

Client Sample ID: REW-5-20150407 — **Lab Sample ID: 480-78021-23**
Date Collected: 04/07/15 09:00 — **Matrix: Water**
Date Received: 04/09/15 00:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	235529	04/11/15 06:49	JWG	TAL BUF

Client Sample ID: REW-6-20150407 — **Lab Sample ID: 480-78021-24**
Date Collected: 04/07/15 10:50 — **Matrix: Water**
Date Received: 04/09/15 00:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		5	235529	04/11/15 07:12	JWG	TAL BUF

Client Sample ID: REW-7-20150407 — **Lab Sample ID: 480-78021-25**
Date Collected: 04/07/15 11:20 — **Matrix: Water**
Date Received: 04/09/15 00:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		5	235529	04/11/15 07:36	JWG	TAL BUF

Client Sample ID: REW-8-20150407 — **Lab Sample ID: 480-78021-26**
Date Collected: 04/07/15 12:35 — **Matrix: Water**
Date Received: 04/09/15 00:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	235529	04/11/15 08:00	JWG	TAL BUF

Client Sample ID: REW-9-20150407 — **Lab Sample ID: 480-78021-27**
Date Collected: 04/07/15 13:05 — **Matrix: Water**
Date Received: 04/09/15 00:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	235529	04/11/15 08:24	JWG	TAL BUF

Client Sample ID: REW-10-20150407 — Lab Sample ID: 480-78021-28

Date Collected: 04/07/15 07:30 — **Matrix: Water**
Date Received: 04/09/15 00:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	235943	04/14/15 04:07	SWO	TAL BUF

Client Sample ID: REW-11-20150407 — Lab Sample ID: 480-78021-29

Date Collected: 04/07/15 10:20 — **Matrix: Water**
Date Received: 04/09/15 00:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		20	235943	04/14/15 04:30	SWO	TAL BUF

Client Sample ID: REW-12-20150407 — Lab Sample ID: 480-78021-30

Date Collected: 04/07/15 12:00 — **Matrix: Water**
Date Received: 04/09/15 00:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		5	235943	04/14/15 04:54	SWO	TAL BUF

Client Sample ID: DUP-1-20150407 — Lab Sample ID: 480-78021-31

Date Collected: 04/07/15 00:00 — **Matrix: Water**
Date Received: 04/09/15 00:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		50	235783	04/13/15 14:45	GTG	TAL BUF
Total/NA	Prep	3535A			86749	04/10/15 19:00	TPB	TAL BUR
Total/NA	Analysis	522 MOD		1	86753	04/11/15 18:38	DJB	TAL BUR

Client Sample ID: DUP-2-20150407 — Lab Sample ID: 480-78021-32

Date Collected: 04/07/15 00:00 — **Matrix: Water**
Date Received: 04/09/15 00:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		5	235783	04/13/15 15:08	GTG	TAL BUF

Client Sample ID: DUP-3-20150408 — Lab Sample ID: 480-78021-33

Date Collected: 04/08/15 00:00 — **Matrix: Water**
Date Received: 04/09/15 00:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	235943	04/14/15 05:18	SWO	TAL BUF
Total/NA	Analysis	8260C	DL	2	236494	04/16/15 14:55	SWO	TAL BUF

Lab Chronicle

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

TestAmerica Job ID: 480-78021-1

Client Sample ID: TRIP BLANK
Date Collected: 04/08/15 00:00
Date Received: 04/09/15 00:45

Lab Sample ID: 480-78021-34
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	235943	04/14/15 02:31	SWO	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: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-78021-1

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	07-06-15
California	State Program	9	1169CA	09-30-15
Connecticut	State Program	1	PH-0568	09-30-16
Florida	NELAP	4	E87672	06-30-15
Georgia	State Program	4	N/A	03-31-16
Illinois	NELAP	5	200003	09-30-15
Iowa	State Program	7	374	03-01-15 *
Kansas	NELAP	7	E-10187	04-30-15 *
Kentucky (DW)	State Program	4	90029	12-31-15
Kentucky (UST)	State Program	4	30	03-31-16
Kentucky (WW)	State Program	4	90029	12-31-15
Louisiana	NELAP	6	02031	06-30-15
Maine	State Program	1	NY00044	12-04-16
Maryland	State Program	3	294	03-31-16
Massachusetts	State Program	1	M-NY044	06-30-15
Michigan	State Program	5	9937	03-31-15 *
Minnesota	NELAP	5	036-999-337	12-31-15
New Hampshire	NELAP	1	2337	11-17-15
New Jersey	NELAP	2	NY455	06-30-15
New York	NELAP	2	10026	03-31-16
North Dakota	State Program	8	R-176	03-31-15 *
Oklahoma	State Program	6	9421	08-31-15
Oregon	NELAP	10	NY200003	06-09-15
Pennsylvania	NELAP	3	68-00281	07-31-15
Rhode Island	State Program	1	LAO00328	12-30-15
Tennessee	State Program	4	TN02970	03-31-16
Texas	NELAP	6	T104704412-11-2	07-31-15
USDA	Federal		P330-11-00386	11-26-17
Virginia	NELAP	3	460185	09-14-15
Washington	State Program	10	C784	02-10-16
West Virginia DEP	State Program	3	252	09-30-15
Wisconsin	State Program	5	998310390	08-31-15

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	09-30-15
DE Haz. Subst. Cleanup Act (HSCA)	State Program	3	NA	02-13-16
Florida	NELAP	4	E87467	06-30-15
L-A-B	DoD ELAP		L2336	02-26-17
Maine	State Program	1	VT00008	04-17-17
Minnesota	NELAP	5	050-999-436	12-31-15
New Hampshire	NELAP	1	2006	12-18-15
New Jersey	NELAP	2	VT972	06-30-15
New York	NELAP	2	10391	03-31-16
Pennsylvania	NELAP	3	68-00489	04-30-15 *
Rhode Island	State Program	1	LAO00298	12-30-15
US Fish & Wildlife	Federal		LE-058448-0	02-28-16
USDA	Federal		P330-11-00093	10-28-16

* Certification renewal pending - certification considered valid.

Certification Summary

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

TestAmerica Job ID: 480-78021-1

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	12-31-15
Virginia	NELAP	3	460209	12-14-15

Method Summary

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

TestAmerica Job ID: 480-78021-1

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

TestAmerica Job ID: 480-78021-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-78021-1	MW-261S-20150407	Water	04/07/15 10:55	04/09/15 00:45
480-78021-2	MW-264M-20150408	Water	04/08/15 09:55	04/09/15 00:45
480-78021-3	MW-265S-20150408	Water	04/08/15 11:45	04/09/15 00:45
480-78021-4	MW-265M-20150407	Water	04/07/15 12:05	04/09/15 00:45
480-78021-5	MW-265D-20150408	Water	04/08/15 11:05	04/09/15 00:45
480-78021-6	MW-266Ma-20150408	Water	04/08/15 11:00	04/09/15 00:45
480-78021-7	MW-266Mb-20150408	Water	04/08/15 11:55	04/09/15 00:45
480-78021-8	MW-267S-20150408	Water	04/08/15 09:30	04/09/15 00:45
480-78021-9	MW-267M-20150408	Water	04/08/15 10:15	04/09/15 00:45
480-78021-10	MW-268S-20150408	Water	04/07/15 13:50	04/09/15 00:45
480-78021-11	MW-268M-20150408	Water	04/07/15 12:25	04/09/15 00:45
480-78021-12	MW-268D-20150408	Water	04/08/15 09:05	04/09/15 00:45
480-78021-13	MW-269Ma-20150408	Water	04/08/15 11:50	04/09/15 00:45
480-78021-14	MW-551-20150408	Water	04/08/15 10:20	04/09/15 00:45
480-78021-15	MW-552-20150408	Water	04/08/15 09:35	04/09/15 00:45
480-78021-16	MW-553-20150408	Water	04/08/15 09:00	04/09/15 00:45
480-78021-17	MW-560-20150407	Water	04/07/15 11:05	04/09/15 00:45
480-78021-18	MW-561-20150407	Water	04/07/15 08:45	04/09/15 00:45
480-78021-19	MW-562-20150407	Water	04/07/15 09:40	04/09/15 00:45
480-78021-20	MW-563-20150407	Water	04/07/15 10:05	04/09/15 00:45
480-78021-21	REW-1-20150407	Water	04/07/15 09:40	04/09/15 00:45
480-78021-22	REW-4-20150407	Water	04/07/15 08:25	04/09/15 00:45
480-78021-23	REW-5-20150407	Water	04/07/15 09:00	04/09/15 00:45
480-78021-24	REW-6-20150407	Water	04/07/15 10:50	04/09/15 00:45
480-78021-25	REW-7-20150407	Water	04/07/15 11:20	04/09/15 00:45
480-78021-26	REW-8-20150407	Water	04/07/15 12:35	04/09/15 00:45
480-78021-27	REW-9-20150407	Water	04/07/15 13:05	04/09/15 00:45
480-78021-28	REW-10-20150407	Water	04/07/15 07:30	04/09/15 00:45
480-78021-29	REW-11-20150407	Water	04/07/15 10:20	04/09/15 00:45
480-78021-30	REW-12-20150407	Water	04/07/15 12:00	04/09/15 00:45
480-78021-31	DUP-1-20150407	Water	04/07/15 00:00	04/09/15 00:45
480-78021-32	DUP-2-20150407	Water	04/07/15 00:00	04/09/15 00:45
480-78021-33	DUP-3-20150408	Water	04/08/15 00:00	04/09/15 00:45
480-78021-34	TRIP BLANK	Water	04/08/15 00:00	04/09/15 00:45

Login Sample Receipt Checklist

Client: Innovative Engineering Solutions, Inc

Job Number: 480-78021-1

Login Number: 78021

List Source: TestAmerica Buffalo

List Number: 1

Creator: Williams, Christopher S

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	IES INC.
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: Innovative Engineering Solutions, Inc

Job Number: 480-78021-1

Login Number: 78021
List Number: 2
Creator: Young, Joseph W

List Source: TestAmerica Burlington
List Creation: 04/09/15 11:31 AM

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	
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	4.6ºC,2.2ºC
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 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").	N/A	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine 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: Innovative Engineering Solutions Inc.	Project Manager: Vicki Pariyar	Date: 4/9/15	Chain of Custody Number: 279324
Address: 25 Spring St	Telephone Number (Area Code)/Fax Number: 508-668-0033 / 508-668-5175	Lab Number:	Page 1 of 3
City: Walpole; State: MA; Zip Code: 02081	Site Contact: Dave Jones; Lab Contact:		
Project Name and Location (State): Raytheon - Wayland, Wayland MA	Carrier/Waybill Number:		
Contract/Purchase Order/Quote No.: RA-008			

Analysis (Attach list if more space is ne

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	8260C	522	Special Instructions/ Conditions of Receipt
~~DEP-21-201504~~	~~4/9/15~~			~~X~~						~~3~~			~~X~~		
MW-261S-20150407	4/7/15	1055		X						5			X	X	
MW-264M-201504	4/8/15	0955		X						3			X		
MW-265S-201504	4/8/15	1145		X						3			X		
MW-265M-20150407	4/7/15	1205		X						5			X	X	
MW-265D-201504	4/8/15	1105		X						3			X		
MW-266Ma-201504	4/8/15	1100		X						5			X	X	
MW-266Mb-201504	4/8/15	1155		X						3			X		
MW-267S-201504	4/8/15	0930		X						5			X	X	
MW-267M-20150407	4/8/15	1015		X						5			X	X	
MW-268S-20150407	4/7/15	1350		X						5			X	X	
MW-268M-201504	4/7/15	1225		X						5			X	X	

480-78021 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 _____

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By: [signature]	4/8/15	1340	1. Received By: [signature]	4/8/15	1430
2. Relinquished By: [signature]	4/8/15	1600	2. Received By: [signature] TAB	09APR15	0045
3. Relinquished By:			3. Received By:		

Comments: 0.6, 1.1 #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
Innovative Engineering Solutions Inc	Vicki Pearlman	4/9/15	279325
Address	**Telephone Number (Area Code)/Fax Number**	**Lab Number**	**Page 2 of 3**
25 Sperry St	508-668-0033 | 508-668-3173		
City / **State** / **Zip Code**	**Site Contact**	**Lab Contact**	
Walpole / MA / 02081	Dean Jones		
Project Name and Location (State)	**Carrier/Waybill Number**		
Raytheon - Wayland / 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: 8260C	6010B	Special Instructions/ Conditions of Receipt
MW-358D-201504	4/8/15	0905		X						3			X		
MW-358M-201504	4/8/15	1150		X						5			X	X	
MW-551-201504	4/8/15	1020		X						3			X		
MW-552-201504	4/8/15	0935		X						5			X	X	
MW-553-201504	4/8/15	0900		X						3			X		
MW-560-20150407	4/7/15	1105		X						3			X		
MW-561-20150407	4/7/15	0945		X						3			X		
MW-562-20150407	4/7/15	0940		X						3			X		
MW-563-20150407	4/7/15	1005		X						3			X		
[redacted] REW-1-20150407	4/7/15	0940		X						3			X		
[redacted] REW-4-20150407	4/7/15	0825		X						3			X		
[redacted] REW-5-20150407	4/7/15	0900		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	4/8/15	1340	1. Received By	4/8/14	1430
2. Relinquished By	4/8/15	1600	2. Received By TAS	09APR15	0045
3. Relinquished By			3. Received By		

Comments

0.6, 1.1 #1

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

4/17/2015

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 Pereira	4/9/15	279326
Address	**Telephone Number (Area Code)/Fax Number**	**Lab Number**	**Page 3 of 3**
25 Spring St	508-665-0033 / 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 - Wayland, 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: 8260C	524.2	Special Instructions/ Conditions of Receipt
REW-6 - 20150407	4/7/15	1050		X						3			X		
REW-7 - 20150407	4/7/15	1120		X						3			X		
REW-8 - 20150407	4/7/15	1235		X						3			X		
REW-9 - 20150407	4/7/15	1305		X						3			X		
REW-10 - 20150407	4/7/15	0730		X						3			X		
REW-11 - 20150407	4/7/15	1020		X						3			X		
REW-12 - 20150407	4/7/15	1200		X						3			X		
Dup1 - 20150407	4/7/15	—		X						3			X	X	
Dup2 - 20150407	4/7/15	—		X						3			X		
Dup3 - 20150408	4/8/15	—		X						3			X		
Trip Blanks				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	4/8/15	1340	1. Received By	4/8/15	1430
2. Relinquished By	4/8/15	1600	2. Received By TAB	04APR15	0045
3. Relinquished By			3. Received By		

Comments

0.6, 1.1 #1

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

4/17/2015

Report Date:
29-Apr-15 17:17

☑ Final Report
☐ Re-Issued Report
☐ Revised Report

SPECTRUM ANALYTICAL, INC.

Laboratory Report

Innovative Engineering Solutions, Inc.
25 Spring Street
Walpole, MA 02081

Work Order: P0478
Project : Raytheon - Wayland
Project #:

Attn: Sami Fam

Laboratory ID	Client Sample ID	Matrix	Date Sampled	Date Received
P0478-01	REW-6-20150407	Aqueous	07-Apr-15 10:50	07-Apr-15 15:52
P0478-01	REW-6-20150407	Aqueous	07-Apr-15 10:50	08-Apr-15 12:00
P0478-02	REW-7-20150407	Aqueous	07-Apr-15 11:20	07-Apr-15 15:52
P0478-02	REW-7-20150407	Aqueous	07-Apr-15 11:20	08-Apr-15 12:00
P0478-03	REW-8-20150407	Aqueous	07-Apr-15 12:35	07-Apr-15 15:52
P0478-03	REW-8-20150407	Aqueous	07-Apr-15 12:35	08-Apr-15 12:00
P0478-04	REW-10-20150407	Aqueous	07-Apr-15 07:30	07-Apr-15 15:52
P0478-04	REW-10-20150407	Aqueous	07-Apr-15 07:30	08-Apr-15 12:00
P0478-05	REW-11-20150407	Aqueous	07-Apr-15 10:20	07-Apr-15 15:52
P0478-05	REW-11-20150407	Aqueous	07-Apr-15 10:20	08-Apr-15 12:00
P0478-06	REW-12-20150407	Aqueous	07-Apr-15 12:00	07-Apr-15 15:52
P0478-06	REW-12-20150407	Aqueous	07-Apr-15 12:00	08-Apr-15 12:00
P0478-07	REW-1-20150407	Aqueous	07-Apr-15 09:40	07-Apr-15 15:52
P0478-07	REW-1-20150407	Aqueous	07-Apr-15 09:40	08-Apr-15 12:00
P0478-08	REW-4-20150407	Aqueous	07-Apr-15 08:25	07-Apr-15 15:52
P0478-08	REW-4-20150407	Aqueous	07-Apr-15 08:25	08-Apr-15 12:00
P0478-09	REW-5-20150407	Aqueous	07-Apr-15 09:00	07-Apr-15 15:52
P0478-09	REW-5-20150407	Aqueous	07-Apr-15 09:00	08-Apr-15 12:00
P0478-10	REW-9-20150407	Aqueous	07-Apr-15 13:05	07-Apr-15 15:52
P0478-10	REW-9-20150407	Aqueous	07-Apr-15 13:05	08-Apr-15 12:00
P0478-11	MW-261S-20150407	Aqueous	07-Apr-15 10:55	07-Apr-15 15:52
P0478-11	MW-261S-20150407	Aqueous	07-Apr-15 10:55	08-Apr-15 12:00
P0478-12	MW-265M-20150407	Aqueous	07-Apr-15 12:05	07-Apr-15 15:52
P0478-12	MW-265M-20150407	Aqueous	07-Apr-15 12:05	08-Apr-15 12:00
P0478-13	MW-562-20150407	Aqueous	07-Apr-15 09:40	07-Apr-15 15:52
P0478-13	MW-562-20150407	Aqueous	07-Apr-15 09:40	08-Apr-15 12:00
P0478-14	MW-560-20150407	Aqueous	07-Apr-15 11:05	07-Apr-15 15:52
P0478-14	MW-560-20150407	Aqueous	07-Apr-15 11:05	08-Apr-15 12:00
P0478-15	MW-561-20150407	Aqueous	07-Apr-15 08:45	07-Apr-15 15:52
P0478-15	MW-561-20150407	Aqueous	07-Apr-15 08:45	08-Apr-15 12:00
P0478-16	MW-563-20150407	Aqueous	07-Apr-15 10:05	07-Apr-15 15:52
P0478-16	MW-563-20150407	Aqueous	07-Apr-15 10:05	08-Apr-15 12:00
P0478-17	MW-268M-20150407	Aqueous	07-Apr-15 12:25	07-Apr-15 15:52
P0478-17	MW-268M-20150407	Aqueous	07-Apr-15 12:25	08-Apr-15 12:00
P0478-18	MW-268S-20150407	Aqueous	07-Apr-15 13:50	07-Apr-15 15:52
P0478-18	MW-268S-20150407	Aqueous	07-Apr-15 13:50	08-Apr-15 12:00
P0478-19	TRIP BLANK	Aqueous	07-Apr-15 00:00	07-Apr-15 15:52
P0478-20	MW-552-20150408	Aqueous	08-Apr-15 09:35	08-Apr-15 12:00
P0478-20	MW-552-20150408	Aqueous	08-Apr-15 09:35	09-Apr-15 12:01
P0478-21	MW-553-20150408	Aqueous	08-Apr-15 09:00	08-Apr-15 12:00
P0478-21	MW-553-20150408	Aqueous	08-Apr-15 09:00	09-Apr-15 12:01

Report Date:
29-Apr-15 17:17

☑ Final Report
☐ Re-Issued Report
☐ Revised Report

SPECTRUM ANALYTICAL, INC.

Laboratory Report

Innovative Engineering Solutions, Inc.
25 Spring Street
Walpole, MA 02081

Work Order: P0478
Project : Raytheon - Wayland
Project #:

Attn: Sami Fam

Laboratory ID	Client Sample ID	Matrix	Date Sampled	Date Received

I attest that the information contained within the report has been reviewed for accuracy and checked against the quality control requirements for each method. The results relate only to the samples(s) as received. This report may not be reproduced, except in full, without written approval from Spectrum Analytical.

All applicable NELAC or USEPA CLP requirments have been meet.

Spectrum Analytical (Rhode Island) is accredited under the National Environmental Laboratory Approval Program (NELAP) and DoD Environmental Laboratory Accreditation Program (ELAP), holds Organic and Inorganic contracts under the USEPA CLP Program and is certified under several states. The current list of our laboratory approvals and certifications is available on the Certifications page on our web site at www.spectrum-analytical.com.

Please contact the Laboratory or Technical Director at 401-732-3400 with any questions regarding the data contained in the laboratory report.

Department of Defense	N/A
Connecticut	PH-0153
Delaware	N/A
Florida	E87664
Maine	2007037
Massachusetts	M-RI907
New Hampshire	2631
New Jersey	RI001
New York	11522
Rhode Island	LAI00301
USDA	P330-08-00023
USEPA - ISM	EP-W-09-039
USEPA - SOM	EP-W-11-033

NELAP ACCREDITED TNI LABORATORY

LABORATORY ACCREDITATION BUREAU ACCREDITED
DoD ELAP
Certificate # L2247 Testing

Authorized by:

Yihai Ding
Laboratory Director

Client: Innovative Engineering Solutions, Inc.
Client Sample ID: REW-6-20150407 **Project:** Raytheon - Wayland
Lab ID: P0478-01 **Collection Date:** 04/07/15 10:50

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
RSK175 -- Dissolved Gases by GC-FID							**RSK175**
Methane	17000		9.5	µg/L	16	04/16/2015 11:39	81765
Ethane	ND		20	µg/L	16	04/16/2015 11:39	81765
Ethene	ND		25	µg/L	16	04/16/2015 11:39	81765
SW846 6010C -- Metals by ICP							**SW6010_W**
Iron	140000	B	200	ug/L	1	04/13/2015 9:54	81679
ASTM D515-88 -- Anions by Ion Chromotography (LOW)							**ASTMD515-88**
ortho-Phosphate (As P)	ND	R01	0.31	mg/l	1	04/08/2015 16:49	SUBBED
SM 4500B-C NH3 -- Nitrogen (Ammonia)							**SM4500_NH3_W**
Ammonia-N	0.630		0.200	mg/l	1	04/09/2015 16:11	SUBBED
EPA 300.0 -- Anions by Ion Chromotography (LOW)							**E300IC_W**
Chloride	35.2		1.00	mg/l	1	04/09/2015 10:29	SUBBED
Nitrogen, Nitrate (As N)	ND		0.100	mg/l	1	04/09/2015 10:29	SUBBED
Sulfate	11.6		1.00	mg/l	1	04/09/2015 10:29	SUBBED
SM 2320B -- Alkalinity (Total)							**SM2320_W**
Alkalinity, Total (As CaCO3)	360		20	mg/L CaCO3	1	04/14/2015 14:15	81726
SM 4500 H+ B -- pH VALUE							**SM4500_H+**
pH	6.0		1.0	S.U.	1	04/08/2015 13:30	R88264
SM 5310B TOC -- Total Organic Carbon by combustion							**SM5310B_TOC_W**
Organic Carbon, Total	431	GS1	40.0	mg/l	1	04/23/2015 21:48	SUBBED

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Client: Innovative Engineering Solutions, Inc.
Client Sample ID: REW-7-20150407 **Project:** Raytheon - Wayland
Lab ID: P0478-02 **Collection Date:** 04/07/15 11:20

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
RSK175 -- Dissolved Gases by GC-FID							**RSK175**
Methane	14000		12	µg/L	20	04/16/2015 11:52	81765
Ethane	ND		25	µg/L	20	04/16/2015 11:52	81765
Ethene	ND		31	µg/L	20	04/16/2015 11:52	81765
SW846 6010C -- Metals by ICP							**SW6010_W**
Iron	100000	B	200	ug/L	1	04/13/2015 9:58	81679
ASTM D515-88 -- Anions by Ion Chromotography (LOW)							**ASTMD515-88**
ortho-Phosphate (As P)	ND	R01	0.31	mg/l	1	04/08/2015 16:51	SUBBED
SM 4500B-C NH3 -- Nitrogen (Ammonia)							**SM4500_NH3_W**
Ammonia-N	0.210		0.200	mg/l	1	04/09/2015 16:11	SUBBED
EPA 300.0 -- Anions by Ion Chromotography (LOW)							**E300IC_W**
Chloride	26.4		1.00	mg/l	1	04/09/2015 11:13	SUBBED
Nitrogen, Nitrate (As N)	ND		0.100	mg/l	1	04/09/2015 11:13	SUBBED
Sulfate	8.44		1.00	mg/l	1	04/09/2015 11:13	SUBBED
SM 2320B -- Alkalinity (Total)							**SM2320_W**
Alkalinity, Total (As CaCO3)	290		20	mg/L CaCO3	1	04/14/2015 14:20	81726
SM 4500 H+ B -- pH VALUE							**SM4500_H+**
pH	6.1		1.0	S.U.	1	04/08/2015 13:31	R88264
SM 5310B TOC -- Total Organic Carbon by combustion							**SM5310B_TOC_W**
Organic Carbon, Total	179	GS1	40.0	mg/l	1	04/23/2015 23:43	SUBBED

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Client: Innovative Engineering Solutions, Inc.
Client Sample ID: REW-8-20150407 **Project:** Raytheon - Wayland
Lab ID: P0478-03 **Collection Date:** 04/07/15 12:35

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
RSK175 -- Dissolved Gases by GC-FID							**RSK175**
Methane	19000		15	µg/L	25	04/16/2015 12:05	81765
Ethane	ND		32	µg/L	25	04/16/2015 12:05	81765
Ethene	ND		40	µg/L	25	04/16/2015 12:05	81765
SW846 6010C -- Metals by ICP							**SW6010_W**
Iron	78000	B	200	ug/L	1	04/13/2015 10:01	81679
ASTM D515-88 -- Anions by Ion Chromotography (LOW)							**ASTMD515-88**
ortho-Phosphate (As P)	ND	R01	0.31	mg/l	1	04/08/2015 16:52	SUBBED
SM 4500B-C NH3 -- Nitrogen (Ammonia)							**SM4500_NH3_W**
Ammonia-N	ND		0.200	mg/l	1	04/09/2015 16:11	SUBBED
EPA 300.0 -- Anions by Ion Chromotography (LOW)							**E300IC_W**
Chloride	33.2		1.00	mg/l	1	04/09/2015 12:28	SUBBED
Nitrogen, Nitrate (As N)	ND		0.100	mg/l	1	04/09/2015 12:28	SUBBED
Sulfate	7.22		1.00	mg/l	1	04/09/2015 12:28	SUBBED
SM 2320B -- Alkalinity (Total)							**SM2320_W**
Alkalinity, Total (As CaCO3)	210		20	mg/L CaCO3	1	04/14/2015 14:26	81726
SM 4500 H+ B -- pH VALUE							**SM4500_H+**
pH	6.2		1.0	S.U.	1	04/08/2015 13:33	R88264
SM 5310B TOC -- Total Organic Carbon by combustion							**SM5310B_TOC_W**
Organic Carbon, Total	407	GS1	40.0	mg/l	1	04/24/2015 5:51	SUBBED

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

04/29/2015

Client: Innovative Engineering Solutions, Inc.
Client Sample ID: REW-10-20150407 **Project:** Raytheon - Wayland
Lab ID: P0478-04 **Collection Date:** 04/07/15 7:30

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
RSK175 -- Dissolved Gases by GC-FID							**RSK175**
Methane	6600		6.0	µg/L	10	04/16/2015 13:12	81765
Ethane	ND		12	µg/L	10	04/16/2015 13:12	81765
Ethene	ND		15	µg/L	10	04/16/2015 13:12	81765
SW846 6010C -- Metals by ICP							**SW6010_W**
Iron	970	B	200	ug/L	1	04/13/2015 10:05	81679
ASTM D515-88 -- Anions by Ion Chromotography (LOW)							**ASTMD515-88**
ortho-Phosphate (As P)	0.05		0.03	mg/l	1	04/08/2015 16:53	SUBBED
SM 4500B-C NH3 -- Nitrogen (Ammonia)							**SM4500_NH3_W**
Ammonia-N	ND		0.200	mg/l	1	04/09/2015 16:11	SUBBED
EPA 300.0 -- Anions by Ion Chromotography (LOW)							**E300IC_W**
Chloride	2.87		1.00	mg/l	1	04/08/2015 22:43	SUBBED
Nitrogen, Nitrate (As N)	1.17		0.100	mg/l	1	04/08/2015 22:43	SUBBED
Sulfate	10.9		1.00	mg/l	1	04/08/2015 22:43	SUBBED
SM 2320B -- Alkalinity (Total)							**SM2320_W**
Alkalinity, Total (As CaCO3)	23		20	mg/L CaCO3	1	04/14/2015 14:31	81726
SM 4500 H+ B -- pH VALUE							**SM4500_H+**
pH	5.7		1.0	S.U.	1	04/08/2015 13:34	R88264
SM 5310B TOC -- Total Organic Carbon by combustion							**SM5310B_TOC_W**
Organic Carbon, Total	2.80		1.00	mg/l	1	04/24/2015 8:43	SUBBED

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Client: Innovative Engineering Solutions, Inc.
Client Sample ID: REW-11-20150407 **Project:** Raytheon - Wayland
Lab ID: P0478-05 **Collection Date:** 04/07/15 10:20

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
RSK175 -- Dissolved Gases by GC-FID							**RSK175**
Methane	7900		6.0	µg/L	10	04/16/2015 13:30	81765
Ethane	ND		12	µg/L	10	04/16/2015 13:30	81765
Ethene	ND		15	µg/L	10	04/16/2015 13:30	81765
SW846 6010C -- Metals by ICP							**SW6010_W**
Iron	53000	B	200	ug/L	1	04/13/2015 10:08	81679
ASTM D515-88 -- Anions by Ion Chromotography (LOW)							**ASTMD515-88**
ortho-Phosphate (As P)	ND	R01	0.31	mg/l	1	04/08/2015 16:56	SUBBED
SM 4500B-C NH3 -- Nitrogen (Ammonia)							**SM4500_NH3_W**
Ammonia-N	ND		0.200	mg/l	1	04/09/2015 16:11	SUBBED
EPA 300.0 -- Anions by Ion Chromotography (LOW)							**E300IC_W**
Chloride	23.7		1.00	mg/l	1	04/09/2015 9:58	SUBBED
Nitrogen, Nitrate (As N)	ND		0.100	mg/l	1	04/09/2015 9:58	SUBBED
Sulfate	19.4		1.00	mg/l	1	04/09/2015 9:58	SUBBED
SM 2320B -- Alkalinity (Total)							**SM2320_W**
Alkalinity, Total (As CaCO3)	190		20	mg/L CaCO3	1	04/14/2015 14:36	81726
SM 4500 H+ B -- pH VALUE							**SM4500_H+**
pH	6.2		1.0	S.U.	1	04/08/2015 13:36	R88264
SM 5310B TOC -- Total Organic Carbon by combustion							**SM5310B_TOC_W**
Organic Carbon, Total	144	GS1	40.0	mg/l	1	04/24/2015 9:08	SUBBED

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Client: Innovative Engineering Solutions, Inc.
Client Sample ID: REW-12-20150407 **Project:** Raytheon - Wayland
Lab ID: P0478-06 **Collection Date:** 04/07/15 12:00

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
RSK175 -- Dissolved Gases by GC-FID							**RSK175**
Methane	13000		12	µg/L	20	04/16/2015 13:51	81765
Ethane	ND		25	µg/L	20	04/16/2015 13:51	81765
Ethene	ND		32	µg/L	20	04/16/2015 13:51	81765
SW846 6010C -- Metals by ICP							**SW6010_W**
Iron	87000	B	200	ug/L	1	04/13/2015 10:18	81679
ASTM D515-88 -- Anions by Ion Chromotography (LOW)							**ASTMD515-88**
ortho-Phosphate (As P)	ND	R01	0.31	mg/l	1	04/08/2015 16:57	SUBBED
SM 4500B-C NH3 -- Nitrogen (Ammonia)							**SM4500_NH3_W**
Ammonia-N	ND		0.200	mg/l	1	04/09/2015 16:11	SUBBED
EPA 300.0 -- Anions by Ion Chromotography (LOW)							**E300IC_W**
Chloride	36.3		1.00	mg/l	1	04/09/2015 11:28	SUBBED
Nitrogen, Nitrate (As N)	ND		0.100	mg/l	1	04/09/2015 11:28	SUBBED
Sulfate	28.0		1.00	mg/l	1	04/09/2015 11:28	SUBBED
SM 2320B -- Alkalinity (Total)							**SM2320_W**
Alkalinity, Total (As CaCO3)	230		20	mg/L CaCO3	1	04/14/2015 14:41	81726
SM 4500 H+ B -- pH VALUE							**SM4500_H+**
pH	6.2		1.0	S.U.	1	04/08/2015 13:37	R88264
SM 5310B TOC -- Total Organic Carbon by combustion							**SM5310B_TOC_W**
Organic Carbon, Total	160	GS1	40.0	mg/l	1	04/24/2015 9:36	SUBBED

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Client: Innovative Engineering Solutions, Inc.
Client Sample ID: REW-1-20150407 **Project:** Raytheon - Wayland
Lab ID: P0478-07 **Collection Date:** 04/07/15 9:40

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
RSK175 -- Dissolved Gases by GC-FID							**RSK175**
Methane	4900		6.1	µg/L	10	04/16/2015 13:59	81765
Ethane	ND		13	µg/L	10	04/16/2015 13:59	81765
Ethene	ND		16	µg/L	10	04/16/2015 13:59	81765
SW846 6010C -- Metals by ICP							**SW6010_W**
Iron	5400	B	200	ug/L	1	04/13/2015 10:22	81679
ASTM D515-88 -- Anions by Ion Chromotography (LOW)							**ASTMD515-88**
ortho-Phosphate (As P)	ND	R01	0.15	mg/l	1	04/08/2015 16:58	SUBBED
SM 4500B-C NH3 -- Nitrogen (Ammonia)							**SM4500_NH3_W**
Ammonia-N	ND		0.200	mg/l	1	04/09/2015 16:11	SUBBED
EPA 300.0 -- Anions by Ion Chromotography (LOW)							**E300IC_W**
Chloride	4.32		1.00	mg/l	1	04/09/2015 17:15	SUBBED
Nitrogen, Nitrate (As N)	ND	I02	0.100	mg/l	1	04/09/2015 17:15	SUBBED
Sulfate	11.6		1.00	mg/l	1	04/09/2015 17:15	SUBBED
SM 2320B -- Alkalinity (Total)							**SM2320_W**
Alkalinity, Total (As CaCO3)	190		20	mg/L CaCO3	1	04/14/2015 14:46	81726
SM 4500 H+ B -- pH VALUE							**SM4500_H+**
pH	6.3		1.0	S.U.	1	04/08/2015 13:39	R88264
SM 5310B TOC -- Total Organic Carbon by combustion							**SM5310B_TOC_W**
Organic Carbon, Total	5.57		1.00	mg/l	1	04/24/2015 10:21	SUBBED

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Client: Innovative Engineering Solutions, Inc.
Client Sample ID: REW-4-20150407 **Project:** Raytheon - Wayland
Lab ID: P0478-08 **Collection Date:** 04/07/15 8:25

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
RSK175 -- Dissolved Gases by GC-FID							**RSK175**
Methane	15000		12	µg/L	20	04/16/2015 14:11	81765
Ethane	ND		25	µg/L	20	04/16/2015 14:11	81765
Ethene	ND		32	µg/L	20	04/16/2015 14:11	81765
SW846 6010C -- Metals by ICP							**SW6010_W**
Iron	5600	B	200	ug/L	1	04/13/2015 10:25	81679
ASTM D515-88 -- Anions by Ion Chromotography (LOW)							**ASTMD515-88**
ortho-Phosphate (As P)	0.27	R01	0.15	mg/l	1	04/08/2015 16:59	SUBBED
SM 4500B-C NH3 -- Nitrogen (Ammonia)							**SM4500_NH3_W**
Ammonia-N	0.210		0.200	mg/l	1	04/09/2015 16:11	SUBBED
EPA 300.0 -- Anions by Ion Chromotography (LOW)							**E300IC_W**
Chloride	4.01		1.00	mg/l	1	04/08/2015 23:45	SUBBED
Nitrogen, Nitrate (As N)	ND		0.100	mg/l	1	04/08/2015 23:45	SUBBED
Sulfate	18.9		1.00	mg/l	1	04/08/2015 23:45	SUBBED
SM 2320B -- Alkalinity (Total)							**SM2320_W**
Alkalinity, Total (As CaCO3)	60		20	mg/L CaCO3	1	04/14/2015 14:52	81726
SM 4500 H+ B -- pH VALUE							**SM4500_H+**
pH	6.3		1.0	S.U.	1	04/08/2015 13:41	R88264
SM 5310B TOC -- Total Organic Carbon by combustion							**SM5310B_TOC_W**
Organic Carbon, Total	1.30		1.00	mg/l	1	04/24/2015 10:46	SUBBED

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Client: Innovative Engineering Solutions, Inc.
Client Sample ID: REW-5-20150407 **Project:** Raytheon - Wayland
Lab ID: P0478-09 **Collection Date:** 04/07/15 9:00

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
RSK175 -- Dissolved Gases by GC-FID							**RSK175**
Methane	9200		6.1	µg/L	10	04/16/2015 14:19	81765
Ethane	ND		13	µg/L	10	04/16/2015 14:19	81765
Ethene	ND		16	µg/L	10	04/16/2015 14:19	81765
SW846 6010C -- Metals by ICP							**SW6010_W**
Iron	12000	B	200	ug/L	1	04/13/2015 10:29	81679
ASTM D515-88 -- Anions by Ion Chromotography (LOW)							**ASTMD515-88**
ortho-Phosphate (As P)	0.75	R01	0.31	mg/l	1	04/08/2015 17:00	SUBBED
SM 4500B-C NH3 -- Nitrogen (Ammonia)							**SM4500_NH3_W**
Ammonia-N	0.280		0.200	mg/l	1	04/09/2015 16:11	SUBBED
EPA 300.0 -- Anions by Ion Chromotography (LOW)							**E300IC_W**
Chloride	7.91		1.00	mg/l	1	04/09/2015 0:00	SUBBED
Nitrogen, Nitrate (As N)	ND		0.100	mg/l	1	04/09/2015 0:00	SUBBED
Sulfate	21.0		1.00	mg/l	1	04/09/2015 0:00	SUBBED
SM 2320B -- Alkalinity (Total)							**SM2320_W**
Alkalinity, Total (As CaCO3)	170		20	mg/L CaCO3	1	04/14/2015 14:57	81726
SM 4500 H+ B -- pH VALUE							**SM4500_H+**
pH	6.2		1.0	S.U.	1	04/08/2015 13:42	R88264
SM 5310B TOC -- Total Organic Carbon by combustion							**SM5310B_TOC_W**
Organic Carbon, Total	1.72		1.00	mg/l	1	04/24/2015 11:10	SUBBED

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Client: Innovative Engineering Solutions, Inc.
Client Sample ID: REW-9-20150407 **Project:** Raytheon - Wayland
Lab ID: P0478-10 **Collection Date:** 04/07/15 13:05

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
RSK175 -- Dissolved Gases by GC-FID							**RSK175**
Methane	10000		9.5	µg/L	16	04/16/2015 14:29	81765
Ethane	ND		20	µg/L	16	04/16/2015 14:29	81765
Ethene	ND		25	µg/L	16	04/16/2015 14:29	81765
SW846 6010C -- Metals by ICP							**SW6010_W**
Iron	110000	B	200	ug/L	1	04/13/2015 10:33	81679
ASTM D515-88 -- Anions by Ion Chromotography (LOW)							**ASTMD515-88**
ortho-Phosphate (As P)	ND	R01	0.31	mg/l	1	04/08/2015 17:00	SUBBED
SM 4500B-C NH3 -- Nitrogen (Ammonia)							**SM4500_NH3_W**
Ammonia-N	0.490		0.200	mg/l	1	04/09/2015 16:11	SUBBED
EPA 300.0 -- Anions by Ion Chromotography (LOW)							**E300IC_W**
Chloride	23.9	E	1.00	mg/l	1	04/09/2015 12:58	SUBBED
Chloride	25.5	DR01	2.00	mg/l	2	04/16/2015 8:19	SUBBED
Nitrogen, Nitrate (As N)	ND		0.100	mg/l	1	04/09/2015 12:58	SUBBED
Sulfate	15.1		1.00	mg/l	1	04/09/2015 12:58	SUBBED
SM 2320B -- Alkalinity (Total)							**SM2320_W**
Alkalinity, Total (As CaCO3)	410		20	mg/L CaCO3	1	04/14/2015 15:02	81726
SM 4500 H+ B -- pH VALUE							**SM4500_H+**
pH	6.1		1.0	S.U.	1	04/08/2015 13:44	R88264
SM 5310B TOC -- Total Organic Carbon by combustion							**SM5310B_TOC_W**
Organic Carbon, Total	382	GS1	40.0	mg/l	1	04/24/2015 11:50	SUBBED

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Client: Innovative Engineering Solutions, Inc.
Client Sample ID: MW-261S-20150407
Lab ID: P0478-11
Project: Raytheon - Wayland
Collection Date: 04/07/15 10:55

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
RSK175 -- Dissolved Gases by GC-FID							**RSK175**
Methane	9300		6.1	µg/L	10	04/20/2015 8:53	81820
Ethane	ND		13	µg/L	10	04/20/2015 8:53	81820
Ethene	ND		16	µg/L	10	04/20/2015 8:53	81820
SW846 6010C -- Metals by ICP							**SW6010_W**
Iron	170000	B	200	ug/L	1	04/13/2015 10:40	81679
ASTM D515-88 -- Anions by Ion Chromotography (LOW)							**ASTMD515-88**
ortho-Phosphate (As P)	ND	R01	0.31	mg/l	1	04/08/2015 17:01	SUBBED
SM 4500B-C NH3 -- Nitrogen (Ammonia)							**SM4500_NH3_W**
Ammonia-N	ND		0.200	mg/l	1	04/09/2015 16:11	SUBBED
EPA 300.0 -- Anions by Ion Chromotography (LOW)							**E300IC_W**
Chloride	24.5		1.00	mg/l	1	04/09/2015 10:43	SUBBED
Nitrogen, Nitrate (As N)	ND		0.100	mg/l	1	04/09/2015 10:43	SUBBED
Sulfate	1.63		1.00	mg/l	1	04/09/2015 10:43	SUBBED
SM 2320B -- Alkalinity (Total)							**SM2320_W**
Alkalinity, Total (As CaCO3)	690		20	mg/L CaCO3	1	04/14/2015 15:07	81726
SM 4500 H+ B -- pH VALUE							**SM4500_H+**
pH	6.0		1.0	S.U.	1	04/08/2015 13:45	R88264
SM 5310B TOC -- Total Organic Carbon by combustion							**SM5310B_TOC_W**
Organic Carbon, Total	1140	GS1	80.0	mg/l	1	04/24/2015 12:17	SUBBED

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Client: Innovative Engineering Solutions, Inc.
Client Sample ID: MW-265M-20150407 **Project:** Raytheon - Wayland
Lab ID: P0478-12 **Collection Date:** 04/07/15 12:05

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
RSK175 -- Dissolved Gases by GC-FID							**RSK175**
Methane	5500		3.0	µg/L	5	04/20/2015 9:02	81820
Ethane	ND		6.2	µg/L	5	04/20/2015 9:02	81820
Ethene	ND		7.7	µg/L	5	04/20/2015 9:02	81820
SW846 6010C -- Metals by ICP							**SW6010_W**
Iron	200000	B	200	ug/L	1	04/13/2015 10:43	81679
ASTM D515-88 -- Anions by Ion Chromotography (LOW)							**ASTMD515-88**
ortho-Phosphate (As P)	ND	R01	0.31	mg/l	1	04/08/2015 17:04	SUBBED
SM 4500B-C NH3 -- Nitrogen (Ammonia)							**SM4500_NH3_W**
Ammonia-N	ND		0.200	mg/l	1	04/09/2015 16:11	SUBBED
EPA 300.0 -- Anions by Ion Chromotography (LOW)							**E300IC_W**
Chloride	25.6	DR01	2.00	mg/l	2	04/16/2015 8:34	SUBBED
Nitrogen, Nitrate (As N)	ND		0.100	mg/l	1	04/09/2015 11:43	SUBBED
Sulfate	ND		1.00	mg/l	1	04/09/2015 11:43	SUBBED
SM 2320B -- Alkalinity (Total)							**SM2320_W**
Alkalinity, Total (As CaCO3)	860		80	mg/L CaCO3	4	04/14/2015 15:13	81726
SM 4500 H+ B -- pH VALUE							**SM4500_H+**
pH	5.9		1.0	S.U.	1	04/08/2015 13:47	R88264
SM 5310B TOC -- Total Organic Carbon by combustion							**SM5310B_TOC_W**
Organic Carbon, Total	763	GS1	80.0	mg/l	1	04/24/2015 12:46	SUBBED

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Client: Innovative Engineering Solutions, Inc.
Client Sample ID: MW-562-20150407
Lab ID: P0478-13
Project: Raytheon - Wayland
Collection Date: 04/07/15 9:40

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
RSK175 -- Dissolved Gases by GC-FID							**RSK175**
Methane	12000		12	µg/L	20	04/20/2015 9:22	81820
Ethane	ND		25	µg/L	20	04/20/2015 9:22	81820
Ethene	ND		31	µg/L	20	04/20/2015 9:22	81820
SW846 6010C -- Metals by ICP							**SW6010_W**
Iron	470000	B	200	ug/L	1	04/13/2015 10:54	81679
ASTM D515-88 -- Anions by Ion Chromotography (LOW)							**ASTMD515-88**
ortho-Phosphate (As P)	9.48	R01	0.15	mg/l	1	04/08/2015 17:04	SUBBED
SM 4500B-C NH3 -- Nitrogen (Ammonia)							**SM4500_NH3_W**
Ammonia-N	ND		0.200	mg/l	1	04/09/2015 16:11	SUBBED
EPA 300.0 -- Anions by Ion Chromotography (LOW)							**E300IC_W**
Chloride	181	DGS1	10.0	mg/l	10	04/16/2015 11:22	SUBBED
Nitrogen, Nitrate (As N)	ND	I02	0.100	mg/l	1	04/09/2015 17:30	SUBBED
Sulfate	ND		1.00	mg/l	1	04/09/2015 17:30	SUBBED
SM 2320B -- Alkalinity (Total)							**SM2320_W**
Alkalinity, Total (As CaCO3)	820		40	mg/L CaCO3	2	04/14/2015 15:18	81726
SM 4500 H+ B -- pH VALUE							**SM4500_H+**
pH	5.1		1.0	S.U.	1	04/08/2015 13:49	R88264
SM 5310B TOC -- Total Organic Carbon by combustion							**SM5310B_TOC_W**
Organic Carbon, Total	1550	GS1	80.0	mg/l	1	04/24/2015 14:55	SUBBED

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Client: Innovative Engineering Solutions, Inc.
Client Sample ID: MW-560-20150407
Lab ID: P0478-14
Project: Raytheon - Wayland
Collection Date: 04/07/15 11:05

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
RSK175 -- Dissolved Gases by GC-FID							**RSK175**
Methane	17000		9.8	µg/L	16	04/20/2015 9:36	81820
Ethane	ND		20	µg/L	16	04/20/2015 9:36	81820
Ethene	ND		25	µg/L	16	04/20/2015 9:36	81820
SW846 6010C -- Metals by ICP							**SW6010_W**
Iron	190000	B	200	ug/L	1	04/13/2015 10:58	81679
ASTM D515-88 -- Anions by Ion Chromotography (LOW)							**ASTMD515-88**
ortho-Phosphate (As P)	ND	R01	0.31	mg/l	1	04/08/2015 17:06	SUBBED
SM 4500B-C NH3 -- Nitrogen (Ammonia)							**SM4500_NH3_W**
Ammonia-N	ND		0.200	mg/l	1	04/09/2015 16:11	SUBBED
EPA 300.0 -- Anions by Ion Chromotography (LOW)							**E300IC_W**
Chloride	20.9		1.00	mg/l	1	04/09/2015 10:58	SUBBED
Nitrogen, Nitrate (As N)	ND		0.100	mg/l	1	04/09/2015 10:58	SUBBED
Sulfate	ND		1.00	mg/l	1	04/09/2015 10:58	SUBBED
SM 2320B -- Alkalinity (Total)							**SM2320_W**
Alkalinity, Total (As CaCO3)	420		20	mg/L CaCO3	1	04/14/2015 15:23	81726
SM 4500 H+ B -- pH VALUE							**SM4500_H+**
pH	6.2		1.0	S.U.	1	04/08/2015 13:50	R88264
SM 5310B TOC -- Total Organic Carbon by combustion							**SM5310B_TOC_W**
Organic Carbon, Total	346	GS1	80.0	mg/l	1	04/24/2015 15:25	SUBBED

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Client: Innovative Engineering Solutions, Inc.
Client Sample ID: MW-561-20150407 **Project:** Raytheon - Wayland
Lab ID: P0478-15 **Collection Date:** 04/07/15 8:45

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
RSK175 -- Dissolved Gases by GC-FID							**RSK175**
Methane	16000		15	µg/L	25	04/20/2015 9:55	81820
Ethane	ND		31	µg/L	25	04/20/2015 9:55	81820
Ethene	ND		39	µg/L	25	04/20/2015 9:55	81820
SW846 6010C -- Metals by ICP							**SW6010_W**
Iron	71000	B	200	ug/L	1	04/13/2015 11:01	81679
ASTM D515-88 -- Anions by Ion Chromotography (LOW)							**ASTMD515-88**
ortho-Phosphate (As P)	ND	R01	0.15	mg/l	1	04/08/2015 17:07	SUBBED
SM 4500B-C NH3 -- Nitrogen (Ammonia)							**SM4500_NH3_W**
Ammonia-N	ND		0.200	mg/l	1	04/09/2015 16:11	SUBBED
EPA 300.0 -- Anions by Ion Chromotography (LOW)							**E300IC_W**
Chloride	20.7		1.00	mg/l	1	04/08/2015 23:30	SUBBED
Nitrogen, Nitrate (As N)	ND		0.100	mg/l	1	04/08/2015 23:30	SUBBED
Sulfate	1.75		1.00	mg/l	1	04/08/2015 23:30	SUBBED
SM 2320B -- Alkalinity (Total)							**SM2320_W**
Alkalinity, Total (As CaCO3)	400		20	mg/L CaCO3	1	04/14/2015 15:28	81726
SM 4500 H+ B -- pH VALUE							**SM4500_H+**
pH	5.3		1.0	S.U.	1	04/08/2015 13:52	R88264
SM 5310B TOC -- Total Organic Carbon by combustion							**SM5310B_TOC_W**
Organic Carbon, Total	988	GS1	80.0	mg/l	1	04/24/2015 15:55	SUBBED

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Client: Innovative Engineering Solutions, Inc.
Client Sample ID: MW-563-20150407
Lab ID: P0478-16
Project: Raytheon - Wayland
Collection Date: 04/07/15 10:05

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
RSK175 -- Dissolved Gases by GC-FID							**RSK175**
Methane	19000		12	µg/L	20	04/20/2015 10:18	81820
Ethane	ND		25	µg/L	20	04/20/2015 10:18	81820
Ethene	ND		32	µg/L	20	04/20/2015 10:18	81820
SW846 6010C -- Metals by ICP							**SW6010_W**
Iron	110000	B	200	ug/L	1	04/13/2015 11:05	81679
ASTM D515-88 -- Anions by Ion Chromotography (LOW)							**ASTMD515-88**
ortho-Phosphate (As P)	ND	R01	0.31	mg/l	1	04/08/2015 17:08	SUBBED
SM 4500B-C NH3 -- Nitrogen (Ammonia)							**SM4500_NH3_W**
Ammonia-N	0.490		0.200	mg/l	1	04/09/2015 16:11	SUBBED
EPA 300.0 -- Anions by Ion Chromotography (LOW)							**E300IC_W**
Chloride	43.7		1.00	mg/l	1	04/09/2015 9:42	SUBBED
Nitrogen, Nitrate (As N)	ND		0.100	mg/l	1	04/09/2015 9:42	SUBBED
Sulfate	ND		1.00	mg/l	1	04/09/2015 9:42	SUBBED
SM 2320B -- Alkalinity (Total)							**SM2320_W**
Alkalinity, Total (As CaCO3)	250		20	mg/L CaCO3	1	04/14/2015 15:33	81726
SM 4500 H+ B -- pH VALUE							**SM4500_H+**
pH	6.3		1.0	S.U.	1	04/08/2015 13:53	R88264
SM 5310B TOC -- Total Organic Carbon by combustion							**SM5310B_TOC_W**
Organic Carbon, Total	91.6	GS1	80.0	mg/l	1	04/24/2015 16:25	SUBBED

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Client: Innovative Engineering Solutions, Inc.
Client Sample ID: MW-268M-20150407
Lab ID: P0478-17
Project: Raytheon - Wayland
Collection Date: 04/07/15 12:25

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
RSK175 -- Dissolved Gases by GC-FID							**RSK175**
Methane	19000		12	µg/L	20	04/20/2015 11:56	81820
Ethane	ND		25	µg/L	20	04/20/2015 11:56	81820
Ethene	55		32	µg/L	20	04/20/2015 11:56	81820
SW846 6010C -- Metals by ICP							**SW6010_W**
Iron	43000	B	200	ug/L	1	04/13/2015 11:08	81679
ASTM D515-88 -- Anions by Ion Chromotography (LOW)							**ASTMD515-88**
ortho-Phosphate (As P)	ND	R01	0.31	mg/l	1	04/08/2015 17:09	SUBBED
SM 4500B-C NH3 -- Nitrogen (Ammonia)							**SM4500_NH3_W**
Ammonia-N	ND		0.200	mg/l	1	04/09/2015 16:11	SUBBED
EPA 300.0 -- Anions by Ion Chromotography (LOW)							**E300IC_W**
Chloride	25.5		1.00	mg/l	1	04/09/2015 18:45	SUBBED
Nitrogen, Nitrate (As N)	ND	I02	0.100	mg/l	1	04/09/2015 18:45	SUBBED
Sulfate	29.8		1.00	mg/l	1	04/09/2015 18:45	SUBBED
SM 2320B -- Alkalinity (Total)							**SM2320_W**
Alkalinity, Total (As CaCO3)	140		40	mg/L CaCO3	2	04/14/2015 16:07	81729
SM 4500 H+ B -- pH VALUE							**SM4500_H+**
pH	6.3		1.0	S.U.	1	04/08/2015 13:55	R88264
SM 5310B TOC -- Total Organic Carbon by combustion							**SM5310B_TOC_W**
Organic Carbon, Total	72.3	GS1	40.0	mg/l	1	04/24/2015 16:49	SUBBED

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Client: Innovative Engineering Solutions, Inc.
Client Sample ID: MW-268S-20150407 **Project:** Raytheon - Wayland
Lab ID: P0478-18 **Collection Date:** 04/07/15 13:50

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
RSK175 -- Dissolved Gases by GC-FID							**RSK175**
Methane	10		0.60	µg/L	1	04/20/2015 10:41	81820
Ethane	ND		1.2	µg/L	1	04/20/2015 10:41	81820
Ethene	ND		1.5	µg/L	1	04/20/2015 10:41	81820
SW846 6010C -- Metals by ICP							**SW6010_W**
Iron	380	B	200	ug/L	1	04/13/2015 11:11	81679
ASTM D515-88 -- Anions by Ion Chromotography (LOW)							**ASTMD515-88**
ortho-Phosphate (As P)	ND		0.03	mg/l	1	04/08/2015 17:10	SUBBED
SM 4500B-C NH3 -- Nitrogen (Ammonia)							**SM4500_NH3_W**
Ammonia-N	0.210		0.200	mg/l	1	04/09/2015 16:11	SUBBED
EPA 300.0 -- Anions by Ion Chromotography (LOW)							**E300IC_W**
Chloride	17.4		1.00	mg/l	1	04/09/2015 13:28	SUBBED
Nitrogen, Nitrate (As N)	ND		0.100	mg/l	1	04/09/2015 13:28	SUBBED
Sulfate	40.8		1.00	mg/l	1	04/09/2015 13:28	SUBBED
SM 2320B -- Alkalinity (Total)							**SM2320_W**
Alkalinity, Total (As CaCO3)	42		20	mg/L CaCO3	1	04/14/2015 16:11	81729
SM 4500 H+ B -- pH VALUE							**SM4500_H+**
pH	6.6		1.0	S.U.	1	04/08/2015 13:56	R88264
SM 5310B TOC -- Total Organic Carbon by combustion							**SM5310B_TOC_W**
Organic Carbon, Total	0.718	J	1.00	mg/l	1	04/24/2015 18:28	SUBBED

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Client: Innovative Engineering Solutions, Inc.
Client Sample ID: TRIP BLANK
Lab ID: P0478-19
Project: Raytheon - Wayland
Collection Date: 04/07/15 0:00

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
RSK175 -- Dissolved Gases by GC-FID							**RSK175**
Methane	2.2		0.60	µg/L	1	04/20/2015 10:52	81820
Ethane	ND		1.2	µg/L	1	04/20/2015 10:52	81820
Ethene	ND		1.5	µg/L	1	04/20/2015 10:52	81820

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Client: Innovative Engineering Solutions, Inc.
Client Sample ID: MW-552-20150408 **Project:** Raytheon - Wayland
Lab ID: P0478-20 **Collection Date:** 04/08/15 9:35

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
RSK175 -- Dissolved Gases by GC-FID							**RSK175**
Methane	8700		15	µg/L	25	04/20/2015 12:03	81820
Ethane	ND		31	µg/L	25	04/20/2015 12:03	81820
Ethene	ND		39	µg/L	25	04/20/2015 12:03	81820
SW846 6010C -- Metals by ICP							**SW6010_W**
Iron	42000	B	200	ug/L	1	04/13/2015 11:15	81679
ASTM D515-88 -- Anions by Ion Chromotography (LOW)							**ASTMD515-88**
ortho-Phosphate (As P)	ND	R01	0.31	mg/l	1	04/09/2015 12:42	SUBBED
SM 4500B-C NH3 -- Nitrogen (Ammonia)							**SM4500_NH3_W**
Ammonia-N	0.210		0.200	mg/l	1	04/10/2015 18:02	SUBBED
EPA 300.0 -- Anions by Ion Chromotography (LOW)							**E300IC_W**
Chloride	19.2		1.00	mg/l	1	04/09/2015 23:00	SUBBED
Nitrogen, Nitrate (As N)	ND		0.100	mg/l	1	04/09/2015 23:00	SUBBED
Sulfate	1.34		1.00	mg/l	1	04/09/2015 23:00	SUBBED
SM 2320B -- Alkalinity (Total)							**SM2320_W**
Alkalinity, Total (As CaCO3)	560		20	mg/L CaCO3	1	04/14/2015 16:15	81729
SM 4500 H+ B -- pH VALUE							**SM4500_H+**
pH	6.6		1.0	S.U.	1	04/09/2015 14:45	R88236
SM 5310B TOC -- Total Organic Carbon by combustion							**SM5310B_TOC_W**
Organic Carbon, Total	14.7	R01J	20.0	mg/l	1	04/24/2015 18:52	SUBBED

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Client: Innovative Engineering Solutions, Inc.
Client Sample ID: MW-553-20150408
Lab ID: P0478-21
Project: Raytheon - Wayland
Collection Date: 04/08/15 9:00

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
RSK175 -- Dissolved Gases by GC-FID							**RSK175**
Methane	12000		15	µg/L	25	04/20/2015 12:11	81820
Ethane	ND		31	µg/L	25	04/20/2015 12:11	81820
Ethene	ND		39	µg/L	25	04/20/2015 12:11	81820
SW846 6010C -- Metals by ICP							**SW6010_W**
Iron	25000	B	200	ug/L	1	04/13/2015 11:18	81679
ASTM D515-88 -- Anions by Ion Chromotography (LOW)							**ASTMD515-88**
ortho-Phosphate (As P)	ND	R01	0.31	mg/l	1	04/09/2015 12:43	SUBBED
SM 4500B-C NH3 -- Nitrogen (Ammonia)							**SM4500_NH3_W**
Ammonia-N	0.210		0.200	mg/l	1	04/10/2015 18:02	SUBBED
EPA 300.0 -- Anions by Ion Chromotography (LOW)							**E300IC_W**
Chloride	17.3		1.00	mg/l	1	04/09/2015 21:30	SUBBED
Nitrogen, Nitrate (As N)	ND		0.100	mg/l	1	04/09/2015 21:30	SUBBED
Sulfate	ND		1.00	mg/l	1	04/09/2015 21:30	SUBBED
SM 2320B -- Alkalinity (Total)							**SM2320_W**
Alkalinity, Total (As CaCO3)	500		20	mg/L CaCO3	1	04/14/2015 16:18	81729
SM 4500 H+ B -- pH VALUE							**SM4500_H+**
pH	6.6		1.0	S.U.	1	04/09/2015 14:45	R88236
SM 5310B TOC -- Total Organic Carbon by combustion							**SM5310B_TOC_W**
Organic Carbon, Total	3.22		1.00	mg/l	1	04/24/2015 20:03	SUBBED

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

CLIENT: Innovative Engineering Solutions, Inc.
Work Order: P0478
Project: Raytheon - Wayland

ANALYTICAL QC SUMMARY REPORT

ASTMD515-88

ASTM D515-88 -- Anions by Ion Chromotography (LOW)

Sample ID: **1506515-BLK1** SampType: **MBLK** TestCode: **ASTMD515-88** Prep Date: **04/08/15 16:37** Run ID: **SUB_150418O**
Client ID: **1506515-BLK1** Batch ID: **SAI-1506515** Units: **mg/l** Analysis Date: **04/08/15 16:48** SeqNo: **2254843**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
ortho-Phosphate (As P)	U	0.020	0.030	0		0	0	0				

Sample ID: **1506600-BLK1** SampType: **MBLK** TestCode: **ASTMD515-88** Prep Date: **04/09/15 12:31** Run ID: **SUB_150418O**
Client ID: **1506600-BLK1** Batch ID: **SAI-1506600** Units: **mg/l** Analysis Date: **04/09/15 12:39** SeqNo: **2254867**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
ortho-Phosphate (As P)	U	0.020	0.030	0		0	0	0				

Sample ID: **1506515-BS1** SampType: **LCS** TestCode: **ASTMD515-88** Prep Date: **04/08/15 16:37** Run ID: **SUB_150418O**
Client ID: **1506515-BS1** Batch ID: **SAI-1506515** Units: **mg/l** Analysis Date: **04/08/15 16:49** SeqNo: **2254845**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
ortho-Phosphate (As P)	0.6000	0.020	0.030	0.6130	0	98.0	90	110				

Sample ID: **1506515-SRM1** SampType: **LCS** TestCode: **ASTMD515-88** Prep Date: **04/08/15 16:37** Run ID: **SUB_150418O**
Client ID: **1506515-SRM1** Batch ID: **SAI-1506515** Units: **mg/l** Analysis Date: **04/08/15 16:48** SeqNo: **2254844**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
ortho-Phosphate (As P)	1.610	0.020	0.030	1.530	0	105	90	110				

Sample ID: **1506600-BS1** SampType: **LCS** TestCode: **ASTMD515-88** Prep Date: **04/09/15 12:31** Run ID: **SUB_150418O**
Client ID: **1506600-BS1** Batch ID: **SAI-1506600** Units: **mg/l** Analysis Date: **04/09/15 12:40** SeqNo: **2254869**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
ortho-Phosphate (As P)	0.6600	0.020	0.030	0.6130	0	107	90	110				

Sample ID: **1506600-SRM1** SampType: **LCS** TestCode: **ASTMD515-88** Prep Date: **04/09/15 12:31** Run ID: **SUB_150418O**
Client ID: **1506600-SRM1** Batch ID: **SAI-1506600** Units: **mg/l** Analysis Date: **04/09/15 12:39** SeqNo: **2254868**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
ortho-Phosphate (As P)	1.540	0.020	0.030	1.530	0	100	90	110				

Qualifiers: ND - Not Detected at the MDL; S - Recovery outside accepted recovery limits; MDL - Method Detection Limit; B - Analyte detected in the associated Method Blank; J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

CLIENT: Innovative Engineering Solutions, Inc.
Work Order: P0478
Project: Raytheon - Wayland

ANALYTICAL QC SUMMARY REPORT

ASTMD515-88

ASTM D515-88 -- Anions by Ion Chromotography (LOW)

Sample ID: **P0478-04EDUP** SampType: **DUP** TestCode: **ASTMD515-88** Prep Date: **04/08/15 16:37** Run ID: **SUB_150418O**
Client ID: **REW-10-20150407** Batch ID: **SAI-1506515** Units: **mg/l** Analysis Date: **04/08/15 16:53** SeqNo: **2254850**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
ortho-Phosphate (As P)	0.05000	0.020	0.030	0	0	0	0	0	0.05000	0.60	20	

Sample ID: **P0478-21EDUP** SampType: **DUP** TestCode: **ASTMD515-88** Prep Date: **04/09/15 12:31** Run ID: **SUB_150418O**
Client ID: **MW-553-20150408** Batch ID: **SAI-1506600** Units: **mg/l** Analysis Date: **04/09/15 12:43** SeqNo: **2254872**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
ortho-Phosphate (As P)	U	0.23	0.31	0	0	0	0	0	0	0	20	

Sample ID: **P0478-04EMS** SampType: **MS** TestCode: **ASTMD515-88** Prep Date: **04/08/15 16:37** Run ID: **SUB_150418O**
Client ID: **REW-10-20150407** Batch ID: **SAI-1506515** Units: **mg/l** Analysis Date: **04/08/15 16:53** SeqNo: **2254851**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
ortho-Phosphate (As P)	0.6000	0.020	0.030	0.6130	0	89.0	80	120				

Sample ID: **P0478-21EMS** SampType: **MS** TestCode: **ASTMD515-88** Prep Date: **04/09/15 12:31** Run ID: **SUB_150418O**
Client ID: **MW-553-20150408** Batch ID: **SAI-1506600** Units: **mg/l** Analysis Date: **04/09/15 12:44** SeqNo: **2254873**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
ortho-Phosphate (As P)	5.760	0.23	0.31	6.130	0	94.0	80	120				

Sample ID: **P0478-04EMSD** SampType: **MSD** TestCode: **ASTMD515-88** Prep Date: **04/08/15 16:37** Run ID: **SUB_150418O**
Client ID: **REW-10-20150407** Batch ID: **SAI-1506515** Units: **mg/l** Analysis Date: **04/08/15 16:55** SeqNo: **2254852**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
ortho-Phosphate (As P)	0.6600	0.020	0.030	0.6130	0.05000	99.0	80	120	0.6000	10	200	

Sample ID: **P0478-21EMSD** SampType: **MSD** TestCode: **ASTMD515-88** Prep Date: **04/09/15 12:31** Run ID: **SUB_150418O**
Client ID: **MW-553-20150408** Batch ID: **SAI-1506600** Units: **mg/l** Analysis Date: **04/09/15 12:44** SeqNo: **2254874**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
ortho-Phosphate (As P)	5.760	0.23	0.31	6.130	0	94.0	80	120	5.760	0	200	

Qualifiers: ND - Not Detected at the MDL; S - Recovery outside accepted recovery limits; MDL - Method Detection Limit; B - Analyte detected in the associated Method Blank
J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

CLIENT: Innovative Engineering Solutions, Inc.
Work Order: P0478
Project: Raytheon - Wayland

ANALYTICAL QC SUMMARY REPORT

E300IC_W

EPA 300.0 -- Anions by Ion Chromotography (LOW)

Sample ID: **1506476-BLK1** SampType: **MBLK** TestCode: **E300IC_W** Prep Date: **04/08/15 14:17** Run ID: **SUB_150418N**
Client ID: **1506476-BLK1** Batch ID: **SAI-1506476** Units: **mg/l** Analysis Date: **04/10/15 14:16** SeqNo: **2254800**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	U	0.321	1.00	0		0	0	0				
Nitrogen, Nitrate (As N)	U	0.00829	0.100	0		0	0	0				
Sulfate	U	0.780	1.00	0		0	0	0				

Sample ID: **1506628-BLK1** SampType: **MBLK** TestCode: **E300IC_W** Prep Date: **04/09/15 14:43** Run ID: **SUB_150418N**
Client ID: **1506628-BLK1** Batch ID: **SAI-1506628** Units: **mg/l** Analysis Date: **04/11/15 22:46** SeqNo: **2254814**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	U	0.321	1.00	0		0	0	0				
Nitrogen, Nitrate (As N)	U	0.00829	0.100	0		0	0	0				
Sulfate	U	0.780	1.00	0		0	0	0				

Sample ID: **1507156-BLK1** SampType: **MBLK** TestCode: **E300IC_W** Prep Date: **04/15/15 16:24** Run ID: **SUB_150418N**
Client ID: **1507156-BLK1** Batch ID: **SAI-1507156** Units: **mg/l** Analysis Date: **04/15/15 18:22** SeqNo: **2254817**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	U	0.321	1.00	0		0	0	0				

Sample ID: **1506476-BS1** SampType: **LCS** TestCode: **E300IC_W** Prep Date: **04/08/15 14:17** Run ID: **SUB_150418N**
Client ID: **1506476-BS1** Batch ID: **SAI-1506476** Units: **mg/l** Analysis Date: **04/10/15 14:31** SeqNo: **2254804**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	19.80	0.321	1.00	20.00	0	99.0	90	110				
Nitrogen, Nitrate (As N)	1.960	0.00829	0.100	2.000	0	98.0	90	110				
Sulfate	19.50	0.780	1.00	20.00	0	98.0	90	110				

Sample ID: **1506476-SRM1** SampType: **LCS** TestCode: **E300IC_W** Prep Date: **04/08/15 14:17** Run ID: **SUB_150418N**
Client ID: **1506476-SRM1** Batch ID: **SAI-1506476** Units: **mg/l** Analysis Date: **04/10/15 14:46** SeqNo: **2254807**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	25.20	0.321	1.00	25.00	0	101	90	110				
Nitrogen, Nitrate (As N)	2.590	0.00829	0.100	2.500	0	103	90	110				
Sulfate	26.00	0.780	1.00	25.00	0	104	90	110				

Qualifiers: ND - Not Detected at the MDL; S - Recovery outside accepted recovery limits; MDL - Method Detection Limit; B - Analyte detected in the associated Method Blank
J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

CLIENT: Innovative Engineering Solutions, Inc.
Work Order: P0478
Project: Raytheon - Wayland

ANALYTICAL QC SUMMARY REPORT

E300IC_W

EPA 300.0 -- Anions by Ion Chromotography (LOW)

Sample ID: **1506628-BS1** SampType: **LCS** TestCode: **E300IC_W** Prep Date: **04/09/15 14:43** Run ID: **SUB_150418N**
Client ID: **1506628-BS1** Batch ID: **SAI-1506628** Units: **mg/l** Analysis Date: **04/11/15 23:01** SeqNo: **2254815**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	20.00	0.321	1.00	20.00	0	100	90	110				
Nitrogen, Nitrate (As N)	2.000	0.00829	0.100	2.000	0	100	90	110				
Sulfate	18.50	0.780	1.00	20.00	0	93.0	90	110				

Sample ID: **1506628-SRM1** SampType: **LCS** TestCode: **E300IC_W** Prep Date: **04/09/15 14:43** Run ID: **SUB_150418N**
Client ID: **1506628-SRM1** Batch ID: **SAI-1506628** Units: **mg/l** Analysis Date: **04/11/15 23:16** SeqNo: **2254816**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	26.30	0.321	1.00	25.00	0	105	90	110				
Nitrogen, Nitrate (As N)	2.650	0.00829	0.100	2.500	0	106	90	110				
Sulfate	25.40	0.780	1.00	25.00	0	102	90	110				

Sample ID: **1507156-BS1** SampType: **LCS** TestCode: **E300IC_W** Prep Date: **04/15/15 16:24** Run ID: **SUB_150418N**
Client ID: **1507156-BS1** Batch ID: **SAI-1507156** Units: **mg/l** Analysis Date: **04/15/15 18:37** SeqNo: **2254818**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	20.40	0.321	1.00	20.00	0	102	90	110				

Sample ID: **1507156-SRM1** SampType: **LCS** TestCode: **E300IC_W** Prep Date: **04/15/15 16:24** Run ID: **SUB_150418N**
Client ID: **1507156-SRM1** Batch ID: **SAI-1507156** Units: **mg/l** Analysis Date: **04/15/15 18:53** SeqNo: **2254819**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	25.90	0.321	1.00	25.00	0	104	90	110				

Sample ID: **P0478-01EDUP** SampType: **DUP** TestCode: **E300IC_W** Prep Date: **04/08/15 14:17** Run ID: **SUB_150418N**
Client ID: **REW-6-20150407** Batch ID: **SAI-1506476** Units: **mg/l** Analysis Date: **04/10/15 8:31** SeqNo: **2254808**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	35.90	0.321	1.00	0	0	0	0	0	35.20	2.0	20	
Nitrogen, Nitrate (As N)	0.07000	0.00829	0.100	0	0	0	0	0	0	146	20	QR6
Sulfate	11.80	0.780	1.00	0	0	0	0	0	11.60	2.0	20	

Qualifiers: ND - Not Detected at the MDL; S - Recovery outside accepted recovery limits; MDL - Method Detection Limit; B - Analyte detected in the associated Method Blank
J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

CLIENT: Innovative Engineering Solutions, Inc.
Work Order: P0478
Project: Raytheon - Wayland

ANALYTICAL QC SUMMARY REPORT

E300IC_W

EPA 300.0 -- Anything by Ion Chromotography (LOW)

Sample ID: **P0478-10EDUP** SampType: **DUP** TestCode: **E300IC_W** Prep Date: **04/08/15 14:17** Run ID: **SUB_150418N**
Client ID: **REW-9-20150407** Batch ID: **SAI-1506476** Units: **mg/l** Analysis Date: **04/10/15 9:16** SeqNo: **2254811**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	23.40	0.321	1.00	0	0	0	0	0	23.90	2.0	20	
Nitrogen, Nitrate (As N)	U	0.00829	0.100	0	0	0	0	0	0	0	20	
Sulfate	14.60	0.780	1.00	0	0	0	0	0	15.10	3.0	20	

Sample ID: **P0478-01EMS** SampType: **MS** TestCode: **E300IC_W** Prep Date: **04/08/15 14:17** Run ID: **SUB_150418N**
Client ID: **REW-6-20150407** Batch ID: **SAI-1506476** Units: **mg/l** Analysis Date: **04/10/15 8:46** SeqNo: **2254809**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	44.80	0.321	1.00	8.000	0	121	90	110				QM7
Nitrogen, Nitrate (As N)	0.7940	0.00829	0.100	0.8000	0	98.0	90	110				
Sulfate	20.50	0.780	1.00	8.000	0	112	90	110				QM7

Sample ID: **P0478-10EMS** SampType: **MS** TestCode: **E300IC_W** Prep Date: **04/08/15 14:17** Run ID: **SUB_150418N**
Client ID: **REW-9-20150407** Batch ID: **SAI-1506476** Units: **mg/l** Analysis Date: **04/10/15 9:31** SeqNo: **2254812**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	33.00	0.321	1.00	8.000	0	114	90	110				QM7
Nitrogen, Nitrate (As N)	0.7660	0.00829	0.100	0.8000	0	96.0	90	110				
Sulfate	24.00	0.780	1.00	8.000	0	111	90	110				QM7

Sample ID: **P0478-01EMSD** SampType: **MSD** TestCode: **E300IC_W** Prep Date: **04/08/15 14:17** Run ID: **SUB_150418N**
Client ID: **REW-6-20150407** Batch ID: **SAI-1506476** Units: **mg/l** Analysis Date: **04/10/15 9:01** SeqNo: **2254810**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	44.90	0.321	1.00	8.000	35.20	122	90	110	44.80	0.20	20	QM7
Nitrogen, Nitrate (As N)	0.7970	0.00829	0.100	0.8000	0	98.0	90	110	0.7940	0.40	20	
Sulfate	20.80	0.780	1.00	8.000	11.60	115	90	110	20.50	1.0	20	QM7

Sample ID: **P0478-10EMSD** SampType: **MSD** TestCode: **E300IC_W** Prep Date: **04/08/15 14:17** Run ID: **SUB_150418N**
Client ID: **REW-9-20150407** Batch ID: **SAI-1506476** Units: **mg/l** Analysis Date: **04/10/15 9:46** SeqNo: **2254813**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	33.00	0.321	1.00	8.000	25.50	114	90	110	33.00	0.05	20	QM7
Nitrogen, Nitrate (As N)	0.7630	0.00829	0.100	0.8000	0	95.0	90	110	0.7660	0.40	20	
Sulfate	24.10	0.780	1.00	8.000	0	113	90	110	24.00	0.50	20	QM7

Qualifiers: ND - Not Detected at the MDL; S - Recovery outside accepted recovery limits; MDL - Method Detection Limit; B - Analyte detected in the associated Method Blank
J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

CLIENT: Innovative Engineering Solutions, Inc.
Work Order: P0478
Project: Raytheon - Wayland

ANALYTICAL QC SUMMARY REPORT

RSK175

RSK175 -- Dissolved Gases by GC-FID

Sample ID: **MB-81765**	SampType: **MBLK**	TestCode: **RSK175**	Prep Date: **04/16/15 7:31**	Run ID: **V7_150416A**
Client ID: **MB-81765**	Batch ID: **81765**	Units: **µg/L**	Analysis Date: **04/16/15 9:37**	SeqNo: **2257060**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methane	ND	0.35	0.58									
Ethane	ND	0.50	1.2									
Ethene	ND	0.69	1.5									

Sample ID: **MB-81820**	SampType: **MBLK**	TestCode: **RSK175**	Prep Date: **04/20/15 7:01**	Run ID: **V7_150420A**
Client ID: **MB-81820**	Batch ID: **81820**	Units: **µg/L**	Analysis Date: **04/20/15 8:46**	SeqNo: **2257076**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methane	ND	0.35	0.58									
Ethane	ND	0.50	1.2									
Ethene	ND	0.69	1.5									

Sample ID: **LCS-81765**	SampType: **LCS**	TestCode: **RSK175**	Prep Date: **04/16/15 7:31**	Run ID: **V7_150416A**
Client ID: **LCS-81765**	Batch ID: **81765**	Units: **µg/L**	Analysis Date: **04/16/15 9:11**	SeqNo: **2257058**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methane	44.49	0.36	0.60	46.29	0	96.1	75	125	0			
Ethane	87.28	0.51	1.2	87.43	0	99.8	75	125	0			
Ethene	92.81	0.71	1.5	81.26	0	114	75	125	0			

Sample ID: **LCS-81820**	SampType: **LCS**	TestCode: **RSK175**	Prep Date: **04/20/15 7:01**	Run ID: **V7_150420A**
Client ID: **LCS-81820**	Batch ID: **81820**	Units: **µg/L**	Analysis Date: **04/20/15 8:25**	SeqNo: **2257074**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methane	41.23	0.36	0.60	46.29	0	89.1	75	125	0			
Ethane	87.93	0.51	1.2	87.43	0	101	75	125	0			
Ethene	94.72	0.71	1.5	81.26	0	117	75	125	0			

Sample ID: **LCSD-81765**	SampType: **LCSD**	TestCode: **RSK175**	Prep Date: **04/16/15 7:31**	Run ID: **V7_150416A**
Client ID: **LCSD-81765**	Batch ID: **81765**	Units: **µg/L**	Analysis Date: **04/16/15 9:28**	SeqNo: **2257059**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methane	42.29	0.36	0.60	46.29	0	91.4	75	125	44.49	5.09	30	
Ethane	86.02	0.51	1.2	87.43	0	98.4	75	125	87.28	1.46	30	
Ethene	91.81	0.71	1.5	81.26	0	113	75	125	92.81	1.09	30	

Qualifiers: ND - Not Detected at the MDL; S - Recovery outside accepted recovery limits; MDL - Method Detection Limit; B - Analyte detected in the associated Method Blank; J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

CLIENT: Innovative Engineering Solutions, Inc.
Work Order: P0478
Project: Raytheon - Wayland

ANALYTICAL QC SUMMARY REPORT

RSK175

RSK175 -- Dissolved Gases by GC-FID

Sample ID: **LCSD-81820**	SampType: **LCSD**	TestCode: **RSK175**	Prep Date: **04/20/15 7:01**	Run ID: **V7_150420A**			
Client ID: **LCSD-81820**	Batch ID: **81820**	Units: **µg/L**	Analysis Date: **04/20/15 8:37**	SeqNo: **2257075**			

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methane	36.65	0.36	0.60	46.29	0	79.2	75	125	41.23	11.8	30	
Ethane	78.13	0.51	1.2	87.43	0	89.4	75	125	87.93	11.8	30	
Ethene	92.98	0.71	1.5	81.26	0	114	75	125	94.72	1.85	30	

Qualifiers:
ND - Not Detected at the MDL
J - Analyte detected below quanititation limits
S - Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
MDL - Method Detection Limit
RL - Reporting Limit
B - Analyte detected in the associated Method Blank

CLIENT: Innovative Engineering Solutions, Inc.
Work Order: P0478
Project: Raytheon - Wayland

ANALYTICAL QC SUMMARY REPORT

SM2320_W
SM 2320B -- Alkalinity (Total)

Sample ID: **MB-81726**	SampType: **MBLK**	TestCode: **SM2320_W**			Prep Date: **04/14/15 14:00**			Run ID: **MANUAL_150414B**				
Client ID: **MB-81726**	Batch ID: **81726**	Units: **mg/L CaCO3**			Analysis Date: **04/14/15 14:00**			SeqNo: **2253439**				
Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total (As CaCO3)	ND	20	20									

Sample ID: **MB-81729**	SampType: **MBLK**	TestCode: **SM2320_W**			Prep Date: **04/14/15 16:00**			Run ID: **MANUAL_150414C**				
Client ID: **MB-81729**	Batch ID: **81729**	Units: **mg/L CaCO3**			Analysis Date: **04/14/15 16:00**			SeqNo: **2253495**				
Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total (As CaCO3)	ND	20	20									

Sample ID: **LCS-81726**	SampType: **LCS**	TestCode: **SM2320_W**			Prep Date: **04/14/15 14:00**			Run ID: **MANUAL_150414B**				
Client ID: **LCS-81726**	Batch ID: **81726**	Units: **mg/L CaCO3**			Analysis Date: **04/14/15 14:05**			SeqNo: **2253440**				
Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total (As CaCO3)	101.0	20	20	100.0	0	101	80	120	0			

Sample ID: **LCS-81729**	SampType: **LCS**	TestCode: **SM2320_W**			Prep Date: **04/14/15 16:00**			Run ID: **MANUAL_150414C**				
Client ID: **LCS-81729**	Batch ID: **81729**	Units: **mg/L CaCO3**			Analysis Date: **04/14/15 16:03**			SeqNo: **2253496**				
Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total (As CaCO3)	101.0	20	20	100.0	0	101	80	120	0			

Sample ID: **LCSD-81726**	SampType: **LCSD**	TestCode: **SM2320_W**			Prep Date: **04/14/15 14:00**			Run ID: **MANUAL_150414B**				
Client ID: **LCSD-81726**	Batch ID: **81726**	Units: **mg/L CaCO3**			Analysis Date: **04/14/15 14:10**			SeqNo: **2253442**				
Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total (As CaCO3)	101.0	20	20	100.0	0	101	80	120	101.0	0	20	

Qualifiers: ND - Not Detected at the MDL; S - Recovery outside accepted recovery limits; MDL - Method Detection Limit; B - Analyte detected in the associated Method Blank; J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

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Work Order: P0478
Project: Raytheon - Wayland

ANALYTICAL QC SUMMARY REPORT

SM4500_H+
SM 4500 H+ B -- pH VALUE

Sample ID: **P0478-18CDUP** SampType: **DUP** TestCode: **SM4500_H+** Prep Date: **04/08/15 13:30** Run ID: **WC02_150408A**
Client ID: **MW-268S-20150407** Batch ID: **R88264** Units: **S.U.** Analysis Date: **04/08/15 13:58** SeqNo: **2249899**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
pH	6.620	1.0	1.0	0	0	0	0	0	6.610	0.151	20	

Qualifiers:
ND - Not Detected at the MDL
J - Analyte detected below quanititation limits
S - Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
MDL - Method Detection Limit
RL - Reporting Limit
B - Analyte detected in the associated Method Blank

CLIENT: Innovative Engineering Solutions, Inc.
Work Order: P0478
Project: Raytheon - Wayland

ANALYTICAL QC SUMMARY REPORT

SM4500_NH3_W
SM 4500B-C NH3 -- Nitrogen (Ammonia)

Sample ID: **1506571-BLK1**	SampType: **MBLK**	TestCode: **SM4500_NH3_W**			Prep Date: **04/09/15 10:11**			Run ID: **SUB_150418M**				
Client ID: **1506571-BLK1**	Batch ID: **SAI-1506571**	Units: **mg/l**			Analysis Date: **04/09/15 16:11**			SeqNo: **2254750**				
Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ammonia-N	U	0.118	0.200	0		0	0	0				

Sample ID: **1506571-BLK1**	SampType: **MBLK**	TestCode: **SM4500_NH3_W**			Prep Date: **04/09/15 10:11**			Run ID: **SUB_150424R**				
Client ID: **1506571-BLK1**	Batch ID: **SAI-1506571**	Units: **mg/l**			Analysis Date: **04/09/15 16:11**			SeqNo: **2258575**				
Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ammonia-N	U	0.118	0.200	0		0	0	0				U

Sample ID: **1506718-BLK1**	SampType: **MBLK**	TestCode: **SM4500_NH3_W**			Prep Date: **04/10/15 10:08**			Run ID: **SUB_150415M**				
Client ID: **1506718-BLK1**	Batch ID: **SAI-1506718**	Units: **mg/l**			Analysis Date: **04/10/15 18:02**			SeqNo: **2253549**				
Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ammonia-N	U	0.118	0.200	0		0	0	0				U

Sample ID: **1506718-BLK1**	SampType: **MBLK**	TestCode: **SM4500_NH3_W**			Prep Date: **04/10/15 10:08**			Run ID: **SUB_150418M**				
Client ID: **1506718-BLK1**	Batch ID: **SAI-1506718**	Units: **mg/l**			Analysis Date: **04/10/15 18:02**			SeqNo: **2254745**				
Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ammonia-N	U	0.118	0.200	0		0	0	0				

Sample ID: **1506571-BS1**	SampType: **LCS**	TestCode: **SM4500_NH3_W**			Prep Date: **04/09/15 10:11**			Run ID: **SUB_150418M**				
Client ID: **1506571-BS1**	Batch ID: **SAI-1506571**	Units: **mg/l**			Analysis Date: **04/09/15 16:11**			SeqNo: **2254751**				
Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ammonia-N	4.970	0.118	0.200	5.000	0	99.0	90	110				

Sample ID: **1506571-BS1**	SampType: **LCS**	TestCode: **SM4500_NH3_W**			Prep Date: **04/09/15 10:11**			Run ID: **SUB_150424R**				
Client ID: **1506571-BS1**	Batch ID: **SAI-1506571**	Units: **mg/l**			Analysis Date: **04/09/15 16:11**			SeqNo: **2258576**				
Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ammonia-N	4.970	0.118	0.200	5.000	0	99.0	90	110				

Sample ID: **1506571-SRM1**	SampType: **LCS**	TestCode: **SM4500_NH3_W**			Prep Date: **04/09/15 10:11**			Run ID: **SUB_150418M**				
Client ID: **1506571-SRM1**	Batch ID: **SAI-1506571**	Units: **mg/l**			Analysis Date: **04/09/15 16:11**			SeqNo: **2254752**				
Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ammonia-N	1.680	0.118	0.200	1.920	0	88.0	84	116				

Qualifiers: ND - Not Detected at the MDL; S - Recovery outside accepted recovery limits; MDL - Method Detection Limit; B - Analyte detected in the associated Method Blank; J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

CLIENT: Innovative Engineering Solutions, Inc.
Work Order: P0478
Project: Raytheon - Wayland

ANALYTICAL QC SUMMARY REPORT

SM4500_NH3_W
SM 4500B-C NH3 -- Nitrogen (Ammonia)

Sample ID: **1506571-SRM1**	SampType: **LCS**	TestCode: **SM4500_NH3_W**			Prep Date: **04/09/15 10:11**				Run ID: **SUB_150424R**		
Client ID: **1506571-SRM1**	Batch ID: **SAI-1506571**	Units: **mg/l**			Analysis Date: **04/09/15 16:11**				SeqNo: **2258577**		
Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ammonia-N	1.680	0.118	0.200	1.920	0	88.0	84	116				

Sample ID: **1506718-BS1**	SampType: **LCS**	TestCode: **SM4500_NH3_W**			Prep Date: **04/10/15 10:08**				Run ID: **SUB_150415M**		
Client ID: **1506718-BS1**	Batch ID: **SAI-1506718**	Units: **mg/l**			Analysis Date: **04/10/15 18:02**				SeqNo: **2253550**		
Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ammonia-N	4.970	0.118	0.200	5.000	0	99.0	90	110				

Sample ID: **1506718-BS1**	SampType: **LCS**	TestCode: **SM4500_NH3_W**			Prep Date: **04/10/15 10:08**				Run ID: **SUB_150418M**		
Client ID: **1506718-BS1**	Batch ID: **SAI-1506718**	Units: **mg/l**			Analysis Date: **04/10/15 18:02**				SeqNo: **2254746**		
Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ammonia-N	4.970	0.118	0.200	5.000	0	99.0	90	110				

Sample ID: **1506718-SRM1**	SampType: **LCS**	TestCode: **SM4500_NH3_W**			Prep Date: **04/10/15 10:08**				Run ID: **SUB_150415M**		
Client ID: **1506718-SRM1**	Batch ID: **SAI-1506718**	Units: **mg/l**			Analysis Date: **04/10/15 18:02**				SeqNo: **2253551**		
Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ammonia-N	1.610	0.118	0.200	1.920	0	84.0	84	116				

Sample ID: **1506718-SRM1**	SampType: **LCS**	TestCode: **SM4500_NH3_W**			Prep Date: **04/10/15 10:08**				Run ID: **SUB_150418M**		
Client ID: **1506718-SRM1**	Batch ID: **SAI-1506718**	Units: **mg/l**			Analysis Date: **04/10/15 18:02**				SeqNo: **2254747**		
Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ammonia-N	1.610	0.118	0.200	1.920	0	84.0	84	116				

Qualifiers:
ND - Not Detected at the MDL
J - Analyte detected below quanititation limits
S - Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
MDL - Method Detection Limit
RL - Reporting Limit
B - Analyte detected in the associated Method Blank

CLIENT: Innovative Engineering Solutions, Inc.
Work Order: P0478
Project: Raytheon - Wayland

ANALYTICAL QC SUMMARY REPORT

SM5310B_TOC_W

SM 5310B TOC -- Total Organic Carbon by combustion

Sample ID: **1507997-BLK1**	SampType: **MBLK**	TestCode: **SM5310B_TOC_W**			Prep Date: **04/23/15 17:00**			Run ID: **SUB_150429P**				
Client ID: **1507997-BLK1**	Batch ID: **SAI-1507997**	Units: **mg/l**			Analysis Date: **04/23/15 21:23**			SeqNo: **2261181**				
Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Organic Carbon, Total	U	0.283	1.00	0		0	0	0				U

Sample ID: **1507997-BS1**	SampType: **LCS**	TestCode: **SM5310B_TOC_W**			Prep Date: **04/23/15 17:00**			Run ID: **SUB_150429P**				
Client ID: **1507997-BS1**	Batch ID: **SAI-1507997**	Units: **mg/l**			Analysis Date: **04/23/15 20:32**			SeqNo: **2261179**				
Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Organic Carbon, Total	12.50	0.283	1.00	15.00	0	83.0	85	115				

Sample ID: **1507997-SRM1**	SampType: **LCS**	TestCode: **SM5310B_TOC_W**			Prep Date: **04/23/15 17:00**			Run ID: **SUB_150429P**				
Client ID: **1507997-SRM1**	Batch ID: **SAI-1507997**	Units: **mg/l**			Analysis Date: **04/23/15 20:58**			SeqNo: **2261180**				
Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Organic Carbon, Total	8.070	0.283	1.00	7.850	0	103	88	112				

Sample ID: **P0478-01BDUP1**	SampType: **DUP**	TestCode: **SM5310B_TOC_W**			Prep Date: **04/23/15 17:00**			Run ID: **SUB_150429P**				
Client ID: **REW-6-20150407**	Batch ID: **SAI-1507997**	Units: **mg/l**			Analysis Date: **04/23/15 22:17**			SeqNo: **2261175**				
Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Organic Carbon, Total	426.0	11.3	40.0	0	0	0	0	0	431.0	1.0	20	

Sample ID: **P0478-17BDUP2**	SampType: **DUP**	TestCode: **SM5310B_TOC_W**			Prep Date: **04/23/15 17:00**			Run ID: **SUB_150429P**				
Client ID: **MW-268M-20150407**	Batch ID: **SAI-1507997**	Units: **mg/l**			Analysis Date: **04/24/15 17:13**			SeqNo: **2261194**				
Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Organic Carbon, Total	75.10	11.3	40.0	0	0	0	0	0	72.30	4.0	20	

Sample ID: **P0478-01BMS1**	SampType: **MS**	TestCode: **SM5310B_TOC_W**			Prep Date: **04/23/15 17:00**			Run ID: **SUB_150429P**				
Client ID: **REW-6-20150407**	Batch ID: **SAI-1507997**	Units: **mg/l**			Analysis Date: **04/23/15 22:46**			SeqNo: **2261176**				
Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Organic Carbon, Total	616.0	11.3	40.0	200.0	0	92.0	70	130				

Sample ID: **P0478-17BMS2**	SampType: **MS**	TestCode: **SM5310B_TOC_W**			Prep Date: **04/23/15 17:00**			Run ID: **SUB_150429P**				
Client ID: **MW-268M-20150407**	Batch ID: **SAI-1507997**	Units: **mg/l**			Analysis Date: **04/24/15 17:38**			SeqNo: **2261195**				
Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Organic Carbon, Total	272.0	11.3	40.0	200.0	0	100	70	130				

Qualifiers: ND - Not Detected at the MDL; S - Recovery outside accepted recovery limits; MDL - Method Detection Limit; B - Analyte detected in the associated Method Blank

m15.04.28.1315 J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

CLIENT: Innovative Engineering Solutions, Inc.
Work Order: P0478
Project: Raytheon - Wayland

ANALYTICAL QC SUMMARY REPORT

SM5310B_TOC_W

SM 5310B TOC -- Total Organic Carbon by combustion

Sample ID: **P0478-01BMSD1**	SampType: **MSD**	TestCode: **SM5310B_TOC_W**			Prep Date: **04/23/15 17:00**			Run ID: **SUB_150429P**			
Client ID: **REW-6-20150407**	Batch ID: **SAI-1507997**	Units: **mg/l**			Analysis Date: **04/23/15 23:15**			SeqNo: **2261177**			
Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Organic Carbon, Total	618.0	11.3	40.0	200.0	431.0	93.0	70	130	616.0	0.30	30	

Sample ID: **P0478-17BMSD2**	SampType: **MSD**	TestCode: **SM5310B_TOC_W**			Prep Date: **04/23/15 17:00**			Run ID: **SUB_150429P**			
Client ID: **MW-268M-20150407**	Batch ID: **SAI-1507997**	Units: **mg/l**			Analysis Date: **04/24/15 18:03**			SeqNo: **2261197**			
Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Organic Carbon, Total	244.0	11.3	40.0	200.0	72.30	86.0	70	130	272.0	11	30	

Qualifiers:
ND - Not Detected at the MDL
J - Analyte detected below quanititation limits
S - Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
MDL - Method Detection Limit
RL - Reporting Limit
B - Analyte detected in the associated Method Blank

CLIENT: Innovative Engineering Solutions, Inc.
Work Order: P0478
Project: Raytheon - Wayland

ANALYTICAL QC SUMMARY REPORT

SW6010_W
SW846 6010C -- Metals by ICP

Sample ID: **MB-81679**	SampType: **MBLK**	TestCode: **SW6010_W**			Prep Date: **04/11/15 11:30**			Run ID: **OPTIMA2_150413A**				
Client ID: **MB-81679**	Batch ID: **81679**	Units: **ug/L**			Analysis Date: **04/13/15 9:44**			SeqNo: **2251171**				
Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	72.12	31	200									J

Sample ID: **LCS-81679**	SampType: **LCS**	TestCode: **SW6010_W**			Prep Date: **04/11/15 11:30**			Run ID: **OPTIMA2_150413A**				
Client ID: **LCS-81679**	Batch ID: **81679**	Units: **ug/L**			Analysis Date: **04/13/15 9:47**			SeqNo: **2251172**				
Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	4799	31	200	4550	0	105	80	120	0			B

Sample ID: **LCSD-81679**	SampType: **LCSD**	TestCode: **SW6010_W**			Prep Date: **04/11/15 11:30**			Run ID: **OPTIMA2_150413A**				
Client ID: **LCSD-81679**	Batch ID: **81679**	Units: **ug/L**			Analysis Date: **04/13/15 9:51**			SeqNo: **2251173**				
Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	4751	31	200	4550	0	104	80	120	4799	1.01	20	B

Sample ID: **P0478-10DSD**	SampType: **SD**	TestCode: **SW6010_W**			Prep Date: **04/11/15 11:30**			Run ID: **OPTIMA2_150413A**				
Client ID: **REW-9-20150407**	Batch ID: **81679**	Units: **ug/L**			Analysis Date: **04/13/15 10:36**			SeqNo: **2251186**				
Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	111500	160	1000	0	0	0	0	0	107800	3.4	10	B

Qualifiers:
ND - Not Detected at the MDL
J - Analyte detected below quanititation limits
S - Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
MDL - Method Detection Limit
RL - Reporting Limit
B - Analyte detected in the associated Method Blank

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT	**RA-008**	JOB NUMBER	N/A
WELL ID	**MW-265M-20150114**	DATE	14-Jan-15
TIME	START 1040	END 1125	

Innovative Engineering Solutions, Inc.
25 Spring Street
Walpole Massachusetts 02081

WATER LEVEL/PUMP SETTI

- [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	11.61 FT	WELL DEPTH	48.40 FT
FINAL DEPTH TO WATER	12.36 FT	SCREEN LENGTH	FT
DRAWDOWN VOLUME	0.12 GAL	WELL DIAMETER	2 IN
TOTAL VOLUME PURGED	3.51 GAL	PID AMBIENT AIR	NA PPM
		PID WELL MOUTH	NA PPM

(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
1040	12.06	300	7.30	1361	5.60	1.33	N/A	67.6	
1050	12.35	300	9.32	1442	5.62	0.25	N/A	61	
1055	12.36	300	9.51	1454	5.62	0.13	N/A	57.1	
1100	12.36	300	9.53	1455	5.63	0.12	N/A	55.4	
1105	12.36	300	9.52	1459	5.64	0.16	N/A	52.9	
									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
☑ TA	8260B	HCL/4 DEG C	3 x 40 ml	☑	
☑ Spectrum	NH3	H2SO4/4 DEG C	1 X 250 ml	☑	
☑ Spectrum	Metals	H3PO4/4 DEG C	1 X 250 ml	☑	
☑ Spectrum	TOC	H3PO4/4 DEG C	2 x 40 ml	☑	
☑ Spectrum	Dissolved Gases	HCL/4 DEG C	2 x 40 ml	☑	
☑ Spectrum	Anions, Acid, pH, PO4, Alkalinity	4 DEG C	1 x 500 ml	☑	
☐				☐	
☐				☐	
☐				☐	
☐				☐	
☐				☐	

PURGE WATER DESCRIPTION: clear, ordorous, no sheen

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-267S-20150114**	DATE	14-Jan-15
TIME	START 0925	END 1005	

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25 Spring Street
Walpole Massachusetts 02081

WATER LEVEL/PUMP SETTI

- [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	9.93 FT	WELL DEPTH	75.10 FT	WELL DIAMETER	2 IN
FINAL DEPTH TO WATER	14.38 FT	SCREEN LENGTH	FT	PID AMBIENT AIR	NA PPM
DRAWDOWN VOLUME	0.73 GAL			PID WELL MOUTH	NA PPM

(initial - final x 0.163 {2-inch} or x 0.654 {4-inch})

TOTAL VOLUME PURGED: 2.08 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
0935	14.07	200	8.27	624	5.56	1.09	N/A	68.5	
0940	14.78	200	8.25	623	5.57	0.92	N/A	64.7	
0945	16.16	200	8.21	623	5.56	0.90	N/A	62	
0950	14.38	200	8.14	622	5.52	0.88	N/A	64.5	
									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
[x] TA	8260B	HCL/4 DEG C	3 x 40 ml	[x]	
[x] Spectrum	NH3	H2SO4/4 DEG C	1 X 250 ml	[x]	
[x] Spectrum	Metals	H3PO4/4 DEG C	1 X 250 ml	[x]	
[x] Spectrum	TOC	H3PO4/4 DEG C	2 x 40 ml	[x]	
[x] Spectrum	Dissolved Gases	HCL/4 DEG C	2 x 40 ml	[x]	
[x] Spectrum	Anions, Acid, pH, PO4, Alkalinity	4 DEG C	1 x 500 ml	[x]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	

PURGE WATER DESCRIPTION: cloudy, 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-267M-20150114**	DATE	14-Jan-15
TIME	START 1015	END 1100	

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25 Spring Street
Walpole Massachusetts 02081

WATER LEVEL/PUMP SETTI

- [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	9.51 FT	WELL DEPTH	98.00 FT	WELL DIAMETER	2 IN
FINAL DEPTH TO WATER	12.76 FT	SCREEN LENGTH	FT	PID AMBIENT AIR	NA PPM
DRAWDOWN VOLUME	0.53 GAL			PID WELL MOUTH	NA PPM

(initial - final x 0.163 {2-inch} or x 0.654 {4-inch})

TOTAL VOLUME PURGED: 2.34 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
1025	12.49	200	8.83	840	6.69	0.92	N/A	-152.8	
1030	12.61	200	8.76	837	6.76	0.85	N/A	-140.8	
1035	12.68	200	8.80	836	6.74	0.86	N/A	-151.2	
1040	12.76	200	8.66	832	6.76	0.85	N/A	-163.8	
									sampled @ 1040

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] Spectrum	NH3	H2SO4/4 DEG C	1 X 250 ml	[x]	
[x] Spectrum	Metals	H3PO4/4 DEG C	1 X 250 ml	[x]	
[x] Spectrum	TOC	H3PO4/4 DEG C	2 x 40 ml	[x]	
[x] Spectrum	Dissolved Gases	HCL/4 DEG C	2 x 40 ml	[x]	
[x] Spectrum	Anions, Acid, pH, PO4, Alkalinity	4 DEG C	1 x 500 ml	[x]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	

PURGE WATER DESCRIPTION: cloudy, 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-268M-20150114**	DATE	14-Jan-15
TIME	START 0805	END 0855	

Innovative Engineering Solutions, Inc.
25 Spring Street
Walpole Massachusetts 02081

WATER LEVEL/PUMP SETTI

- [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	7.93 FT	WELL DEPTH	81.70 FT	WELL DIAMETER	2 IN
FINAL DEPTH TO WATER	9 FT	SCREEN LENGTH	FT	PID AMBIENT AIR	NA PPM
DRAWDOWN VOLUME	0.17 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
0815	8.97	200	7.65	284	7.54	1.09	N/A	-44.2	Dup
0820	9.00	200	7.18	292	6.42	0.62	N/A	-67.3	
0825	9.00	200	7.20	305	6.43	0.58	N/A	-69.1	
0830	9.00	200	7.12	317	6.44	0.52	N/A	-70.2	
									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]	
[x] Spectrum	NH3	H2SO4/4 DEG C	1 X 250 ml	[x]	
[x] Spectrum	Metals	H3PO4/4 DEG C	1 X 250 ml	[x]	
[x] Spectrum	TOC	H3PO4/4 DEG C	2 x 40 ml	[x]	
[x] Spectrum	Dissolved Gases	HCL/4 DEG C	2 x 40 ml	[x]	
[x] Spectrum	Anions, Acid, pH, PO4, Alkalinity	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

Dup

SIGNATURE: **DAJ**

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT	**RA-008**	JOB NUMBER	N/A
WELL ID	**MW-560-20150114**	DATE	14-Jan-15
TIME	START 1115	END 1150	

Innovative Engineering Solutions, Inc.
25 Spring Street
Walpole Massachusetts 02081

WATER LEVEL/PUMP SETTI

- [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	9.1 FT	WELL DEPTH	65.20 FT	WELL DIAMETER	2 IN
FINAL DEPTH TO WATER	11.56 FT	SCREEN LENGTH	FT	PID AMBIENT AIR	NA PPM
DRAWDOWN VOLUME	0.4 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
1125	11.10	200	9.28	715	5.21	1.08	N/A	-37.9	
1130	11.34	200	9.17	712	5.59	1.03	N/A	-48.3	
1135	11.46	200	8.98	711	5.58	1.03	N/A	-50.3	
1140	11.56	200	9.06	715	5.61	1.07	N/A	-52.6	
									sampled @ 1140

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] Spectrum	NH3	H2SO4/4 DEG C	1 X 250 ml	[x]	
[x] Spectrum	Metals	H3PO4/4 DEG C	1 X 250 ml	[x]	
[x] Spectrum	TOC	H3PO4/4 DEG C	2 x 40 ml	[x]	
[x] Spectrum	Dissolved Gases	HCL/4 DEG C	2 x 40 ml	[x]	
[x] Spectrum	Anions, Acid, pH, PO4, Alkalinity	4 DEG C	1 x 500 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	**MW-561-20150114**	DATE	14-Jan-15
TIME	START 0800 END 0855		

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25 Spring Street
Walpole Massachusetts 02081

WATER LEVEL/PUMP SETTI

- [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	9.39 FT	WELL DEPTH	53.65 FT
FINAL DEPTH TO WATER	10.74 FT	SCREEN LENGTH	FT
DRAWDOWN VOLUME	0.22 GAL	WELL DIAMETER	2 IN
TOTAL VOLUME PURGED	4.2 GAL	PID AMBIENT AIR	NA PPM
		PID WELL MOUTH	NA PPM

(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
0800	10.00	300	8.30	470	4.38	1.94	N/A	96.7	
0810	10.65	300	8.53	415	4.58	0.29	N/A	78	
0815	10.69	300	8.57	427	4.83	0.29	N/A	64.6	
0820	10.71	300	8.80	438	4.97	0.30	N/A	55.7	
0825	10.74	300	9.04	488	5.28	0.32	N/A	35.1	
									sampled @ 0825

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	☑	
☑ Spectrum	NH3	H2SO4/4 DEG C	1 X 250 ml	☑	
☑ Spectrum	Metals	H3PO4/4 DEG C	1 X 250 ml	☑	
☑ Spectrum	TOC	H3PO4/4 DEG C	2 x 40 ml	☑	
☑ Spectrum	Dissolved Gases	HCL/4 DEG C	2 x 40 ml	☑	
☑ Spectrum	Anions, Acid, pH, PO4, Alkalinity	4 DEG C	1 x 500 ml	☑	
☐				☐	
☐				☐	
☐				☐	
☐				☐	
☐				☐	

PURGE WATER DESCRIPTION: clear, ordorous, no sheen

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-562-20150114**	DATE	14-Jan-15
TIME	START 1210	END 1245	

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WATER LEVEL/PUMP SETTI

- [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	9.65 FT	WELL DEPTH	41.60 FT
FINAL DEPTH TO WATER	10.35 FT	SCREEN LENGTH	FT
DRAWDOWN VOLUME	0.11 GAL	WELL DIAMETER	1-1/2 IN
TOTAL VOLUME PURGED	2.73 GAL	PID AMBIENT AIR	NA PPM
		PID WELL MOUTH	NA PPM

(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
1210	9.80	300	8.67	1073	5.02	0.66	N/A	59.1	
1220	10.24	300	10.12	1141	5.12	0.22	N/A	33.2	
1225	10.30	300	10.42	1146	5.16	0.12	N/A	22.1	
1230	10.35	300	10.61	1143	5.21	0.17	N/A	14.8	
1235	10.35	300	10.54	1150	5.22	0.18	N/A	10.8	
									sampled @ 1235

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] Spectrum	NH3	H2SO4/4 DEG C	1 X 250 ml	[x]	
[x] Spectrum	Metals	H3PO4/4 DEG C	1 X 250 ml	[x]	
[x] Spectrum	TOC	H3PO4/4 DEG C	2 x 40 ml	[x]	
[x] Spectrum	Dissolved Gases	HCL/4 DEG C	2 x 40 ml	[x]	
[x] Spectrum	Anions, Acid, pH, PO4, Alkalinity	4 DEG C	1 x 500 ml	[x]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	

PURGE WATER DESCRIPTION: semi-clear, very ordorous, no sheen

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-563-20150114**	DATE	14-Jan-15
TIME	START 0920	END 1005	

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WATER LEVEL/PUMP SETTI

- [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	6.81 FT	WELL DEPTH	65.20 FT	WELL DIAMETER	2 IN
FINAL DEPTH TO WATER	10.95 FT	SCREEN LENGTH	FT	PID AMBIENT AIR	NA PPM
DRAWDOWN VOLUME	0.67 GAL			PID WELL MOUTH	NA PPM

(initial - final x 0.163 {2-inch} or x 0.654 {4-inch})

TOTAL VOLUME PURGED: 3.5 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
0925	7.86	300	7.89	691	5.96	0.85	N/A	-22.3	
0935	10.95	300	9.38	786	6.10	0.34	N/A	-54.8	
0940	10.60	300	9.50	786	6.11	0.28	N/A	-57.1	
0945	10.80	300	9.48	786	6.12	0.24	N/A	-57.7	
0950	10.95	300	9.50	785	6.12	0.24	N/A	-57.4	
									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
[x] TA	8260B	HCL/4 DEG C	3 x 40 ml	[x]	
[x] Spectrum	NH3	H2SO4/4 DEG C	1 X 250 ml	[x]	
[x] Spectrum	Metals	H3PO4/4 DEG C	1 X 250 ml	[x]	
[x] Spectrum	TOC	H3PO4/4 DEG C	2 x 40 ml	[x]	
[x] Spectrum	Dissolved Gases	HCL/4 DEG C	2 x 40 ml	[x]	
[x] Spectrum	Anions, Acid, pH, PO4, Alkalinity	4 DEG C	1 x 500 ml	[x]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	

PURGE WATER DESCRIPTION: clear, ordor, no sheen

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	**REW-6-20150113**	DATE	13-Jan-15
TIME	START 1150	END 1225	

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WATER LEVEL/PUMP SETTI

- [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
FINAL DEPTH TO WATER	Note 1 FT	SCREEN LENGTH	FT
DRAWDOWN VOLUME	Note 1 GAL		
(initial - final x 0.163 {2-inch} or x 0.654 {4-inch})			
TOTAL VOLUME PURGED	2.73 GAL		

WELL DIAMETER: 4 IN

PID AMBIENT AIR: NA PPM

PID WELL MOUTH: NA PPM

WELL INTEGRITY	YES	NO	N/A
CAP	[x]	[ ]	[ ]
CASING	[x]	[ ]	[ ]
LOCKED	[ ]	[x]	[ ]
COLLAR	[ ]	[ ]	[x]

(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
1200	Note 1	300	9.62	612	5.24	0.86	N/A	-13	
1205	Note 1	300	8.63	613	5.28	0.36	N/A	-14.4	
1210	Note 1	300	8.62	599	5.30	0.36	N/A	-8.3	
1215	Note 1	300	9.55	606	5.34	0.35	N/A	4.8	
									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] Spectrum	NH3	H2SO4/4 DEG C	1 X 250 ml	[x]	
[x] Spectrum	Metals	H3PO4/4 DEG C	1 X 250 ml	[x]	
[x] Spectrum	TOC	H3PO4/4 DEG C	2 x 40 ml	[x]	
[x] Spectrum	Dissolved Gases	HCL/4 DEG C	2 x 40 ml	[x]	
[x] Spectrum	Anions, Acid, pH, PO4, Alkalinity	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-7-20150113**	DATE	13-Jan-15
TIME	START 0915	END 0950	

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Walpole Massachusetts 02081

WATER LEVEL/PUMP SETTI

- [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
FINAL DEPTH TO WATER	Note 1 FT	SCREEN LENGTH	FT
DRAWDOWN VOLUME	Note 1 GAL	WELL DIAMETER	4 IN
TOTAL VOLUME PURGED	2.73 GAL	PID AMBIENT AIR	NA PPM
		PID WELL MOUTH	NA PPM

(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	Note 1	300	9.05	486	6.49	0.35	N/A	-53.8	
0930	Note 1	300	9.16	486	6.40	0.37	N/A	-53.9	
0935	Note 1	300	9.05	486	6.38	0.30	N/A	-50.9	
0940	Note 1	300	9.16	487	6.41	0.27	N/A	-57.8	
									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] Spectrum	NH3	H2SO4/4 DEG C	1 X 250 ml	[x]	
[x] Spectrum	Metals	H3PO4/4 DEG C	1 X 250 ml	[x]	
[x] Spectrum	TOC	H3PO4/4 DEG C	2 x 40 ml	[x]	
[x] Spectrum	Dissolved Gases	HCL/4 DEG C	2 x 40 ml	[x]	
[x] Spectrum	Anions, Acid, pH, PO4, Alkalinity	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-8-20150113**	DATE	13-Jan-15
TIME	START 0955	END 1030	

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WATER LEVEL/PUMP SETTI

- [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
FINAL DEPTH TO WATER	Note 1 FT	SCREEN LENGTH	FT
DRAWDOWN VOLUME	Note 1 GAL	WELL DIAMETER	4 IN
TOTAL VOLUME PURGED	2.73 GAL	PID AMBIENT AIR	NA PPM
		PID WELL MOUTH	NA PPM

(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
1005	Note 1	300	6.77	438	6.46	0.40	N/A	-54.5	
1010	Note 1	300	6.77	435	6.42	0.36	N/A	-46.7	
1015	Note 1	300	7.50	440	6.40	0.32	N/A	-53.7	
1020	Note 1	300	6.96	439	6.40	0.31	N/A	-60.6	
									sampled @ 1020

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	☑	
☑ Spectrum	NH3	H2SO4/4 DEG C	1 X 250 ml	☑	
☑ Spectrum	Metals	H3PO4/4 DEG C	1 X 250 ml	☑	
☑ Spectrum	TOC	H3PO4/4 DEG C	2 x 40 ml	☑	
☑ Spectrum	Dissolved Gases	HCL/4 DEG C	2 x 40 ml	☑	
☑ Spectrum	Anions, Acid, pH, PO4, Alkalinity	4 DEG C	1 x 500 ml	☑	
☐				☐	
☐				☐	
☐				☐	
☐				☐	
☐				☐	

PURGE WATER DESCRIPTION: cloudy, 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-11-20150113**	DATE	13-Jan-15
TIME	START 1100	END 1135	

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WATER LEVEL/PUMP SETTI

- [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
FINAL DEPTH TO WATER	Note 1 FT	SCREEN LENGTH	FT
DRAWDOWN VOLUME	Note 1 GAL	WELL DIAMETER	4 IN
		PID AMBIENT AIR	NA PPM
		PID WELL MOUTH	NA PPM

(initial - final x 0.163 {2-inch} or x 0.654 {4-inch})

TOTAL VOLUME PURGED: 2.73 GAL

(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
1110	Note 1	300	8.90	313	6.03	0.37	N/A	-39.8	
1115	Note 1	300	9.08	313	5.87	0.31	N/A	-45	
1120	Note 1	300	8.78	310	5.88	0.28	N/A	-52.7	
1125	Note 1	300	9.11	313	5.87	0.27	N/A	-54.3	
									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
☑ TA	8260B	HCL/4 DEG C	3 x 40 ml	☑	
☑ Spectrum	NH3	H2SO4/4 DEG C	1 X 250 ml	☑	
☑ Spectrum	Metals	H3PO4/4 DEG C	1 X 250 ml	☑	
☑ Spectrum	TOC	H3PO4/4 DEG C	2 x 40 ml	☑	
☑ Spectrum	Dissolved Gases	HCL/4 DEG C	2 x 40 ml	☑	
☑ Spectrum	Anions, Acid, pH, PO4, Alkalinity	4 DEG C	1 x 500 ml	☑	
☐				☐	
☐				☐	
☐				☐	
☐				☐	
☐				☐	

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-12-20150113**	DATE	13-Jan-15
TIME	START 0835	END 0905	

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WATER LEVEL/PUMP SETTI

- [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
FINAL DEPTH TO WATER	Note 1 FT	SCREEN LENGTH	FT
DRAWDOWN VOLUME	Note 1 GAL		
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 DIAMETER	4 IN				
PID AMBIENT AIR	NA PPM				
PID WELL MOUTH	NA PPM				

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
0845	Note 1	300	9.28	360	5.27	0.43	N/A	22.4	
0850	Note 1	300	9.24	364	5.48	0.37	N/A	-1.8	
0855	Note 1	300	9.20	368	5.58	0.35	N/A	-11.9	
0900	Note 1	300	9.12	380	5.61	0.22	N/A	-14.4	
									sampled @ 0900

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]	Spectrum	NH3	H2SO4/4 DEG C	1 X 250 ml	[x]	
[x]	Spectrum	Metals	H3PO4/4 DEG C	1 X 250 ml	[x]	
[x]	Spectrum	TOC	H3PO4/4 DEG C	2 x 40 ml	[x]	
[x]	Spectrum	Dissolved Gases	HCL/4 DEG C	2 x 40 ml	[x]	
[x]	Spectrum	Anions, Acid, pH, PO4, Alkalinity	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-21**	DATE	9-Apr-15
TIME	START 0850	END 0935	

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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	3.12 FT	WELL DEPTH	49.16 FT	WELL DIAMETER	0.5 IN
FINAL DEPTH TO WATER	28.19 FT	SCREEN LENGTH	FT	PID AMBIENT AIR	NA PPM
DRAWDOWN VOLUME	0.3 GAL			PID WELL MOUTH	NA PPM
(initial - final x 0.163 {2-inch} or x 0.654 {4-inch})					
TOTAL VOLUME PURGED	1.56 GAL				

WELL INTEGRITY	YES	NO	N/A
CAP	[x]	[ ]	[ ]
CASING	[x]	[ ]	[ ]
LOCKED	[ ]	[x]	[ ]
COLLAR	[ ]	[ ]	[x]

(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
0900	8.48	200	8.02	81	9.75	0.33	N/A	-301.3	
0905	12.97	200	8.10	63	9.06	0.26	N/A	-252	
0910	20.38	200	7.96	66	8.67	0.24	N/A	-228.9	
0915	26.15	200	6.99	67	8.18	0.26	N/A	-194.6	
									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	8260C	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
0918: well ran dry, waited to recharge

SIGNATURE: **DAJ**

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT	**RA-008**	JOB NUMBER	N/A
WELL ID	**MW-261S**	DATE	7-Apr-15
TIME	START 1015	END 1110	

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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	11.26 FT	WELL DEPTH	24.40 FT	WELL DIAMETER	0.5 IN
FINAL DEPTH TO WATER	11.26 FT	SCREEN LENGTH	FT	PID AMBIENT AIR	NA PPM
DRAWDOWN VOLUME	0 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
1035	11.26	200	8.84	1100	6.42	0.22	N/A	-67.5	
1040	11.26	150	9.05	1130	6.37	0.22	N/A	-62.4	
1045	11.26	150	8.97	1136	6.35	0.23	N/A	-60.1	
1050	11.26	150	9.05	1142	6.34	0.24	N/A	-58.8	
									sampled @ 1055

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	8260C	HCL/4 DEG C	3 x 40 ml	[x]	
[x] TA	522	HCL/4 DEG C	2 x 250 ml	[x]	
[x] Spectrum	NH3	H2SO4/4 DEG C	1 x 250 ml	[x]	
[x] Spectrum	Metals	HNO3/4 DEG C	1 x 250 ml	[x]	
[x] Spectrum	TOC	H3PO4/4 DEG C	2 x 40 ml	[x]	
[x] Spectrum	Dissolved Gases	HCL/4 DEG C	2 x 40 ml	[x]	
[x] Spectrum	Anions, Alkalinity, pH, PO4	4 DEG C	1 x 500 ml	[x]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	

PURGE WATER DESCRIPTION

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**	DATE	8-Apr-15
TIME	START 0925	END 1000	

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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	6.7 FT	WELL DEPTH	47.30 FT	WELL DIAMETER	2 IN
FINAL DEPTH TO WATER	6.92 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})

TOTAL VOLUME PURGED: 2.73 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
0930	6.92	300	7.91	170	7.59	2.04	N/A	-35.9	
0940	6.92	300	8.66	172	6.64	0.36	N/A	-44.8	
0945	6.92	300	8.85	173	6.52	0.33	N/A	50.5	
0950	6.92	300	8.71	173	6.48	0.32	N/A	43.5	
0955	6.92	300	8.77	176	6.42	0.39	N/A	33.3	
									sampled @ 0955

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	8260C	HCL/4 DEG C	3 x 40 ml	[x]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	

PURGE WATER DESCRIPTION: light brown in color, no odor, no sheen

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-265S**	DATE	8-Apr-15
TIME	START 1120	END 1150	

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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	6 FT	WELL DEPTH	21.00 FT	WELL DIAMETER	2 IN
FINAL DEPTH TO WATER	6.3 FT	SCREEN LENGTH	FT	PID AMBIENT AIR	NA PPM
DRAWDOWN VOLUME	0.04 GAL			PID WELL MOUTH	NA PPM

(initial - final x 0.163 {2-inch} or x 0.654 {4-inch})

TOTAL VOLUME PURGED: 2.34 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
1120	6.20	300	6.86	408	6.67	4.79	N/A	-63.4	
1130	6.30	300	6.48	401	6.37	0.30	N/A	-64.9	
1135	6.30	300	6.16	397	6.39	0.23	N/A	-70.2	
1140	6.30	300	6.09	396	6.39	0.20	N/A	-71	
1145	6.30	300	6.09	396	6.39	0.20	N/A	-71.6	
									sampled @ 1145

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	8260C	HCL/4 DEG C	3 x 40 ml	[x]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	

PURGE WATER DESCRIPTION: slight odor, clear, no sheen

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-265M**	DATE	7-Apr-15
TIME	START 1125	END 1220	

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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	9.91 FT	WELL DEPTH	48.40 FT	WELL DIAMETER	0.5 IN
FINAL DEPTH TO WATER	10.71 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})

TOTAL VOLUME PURGED: 2.86 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
1145	10.90	200	8.93	1350	6.06	0.28	N/A	8.8	
1150	10.70	150	8.91	1359	6.07	0.26	N/A	6.5	
1155	10.71	150	8.91	1360	6.07	0.26	N/A	5.4	
1200	10.71	150	9.05	1362	6.07	0.26	N/A	4.7	
									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	8260C	HCL/4 DEG C	3 x 40 ml	[x]	
[x] TA	522	HCL/4 DEG C	2 x 250 ml	[x]	
[x] Spectrum	NH3	H2SO4/4 DEG C	1 x 250 ml	[x]	
[x] Spectrum	Metals	HNO3/4 DEG C	1 x 250 ml	[x]	
[x] Spectrum	TOC	H3PO4/4 DEG C	2 x 40 ml	[x]	
[x] Spectrum	Dissolved Gases	HCL/4 DEG C	2 x 40 ml	[x]	
[x] Spectrum	Anions, Alkalinity, pH, PO4	4 DEG C	1 x 500 ml	[x]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	

PURGE WATER DESCRIPTION

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-265D**	DATE	8-Apr-15
TIME	START 1035	END 1110	

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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	12.4 FT	WELL DEPTH	91.45 FT	WELL DIAMETER	2 IN
FINAL DEPTH TO WATER	14.55 FT	SCREEN LENGTH	FT	PID AMBIENT AIR	NA PPM
DRAWDOWN VOLUME	0.35 GAL			PID WELL MOUTH	NA PPM

(initial - final x 0.163 {2-inch} or x 0.654 {4-inch})

TOTAL VOLUME PURGED: 2.73 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
1040	13.24	300	9.48	272	7.06	6.25	N/A	46.8	
1050	14.35	300	10.02	279	7.44	4.07	N/A	51.6	
1055	14.42	300	10.14	280	7.46	4.12	N/A	52.2	
1100	14.48	300	10.24	280	7.46	4.04	N/A	53.3	
1105	14.55	300	10.30	281	7.48	3.65	N/A	57.7	
									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	8260C	HCL/4 DEG C	3 x 40 ml	[x]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	

PURGE WATER DESCRIPTION: no odor, clear, no sheen

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-266Ma**	DATE	8-Apr-15
TIME	START 1020	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	9.02 FT	WELL DEPTH	55.10 FT	WELL DIAMETER	0.5 IN
FINAL DEPTH TO WATER	11.22 FT	SCREEN LENGTH	FT	PID AMBIENT AIR	NA PPM
DRAWDOWN VOLUME	0.36 GAL			PID WELL MOUTH	NA PPM

(initial - final x 0.163 {2-inch} or x 0.654 {4-inch})

TOTAL VOLUME PURGED: 1.95 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
1040	11.20	200	9.90	178	7.15	0.24	N/A	-151.4	
1045	11.21	150	9.47	179	7.15	0.22	N/A	-153.3	
1050	11.21	150	9.67	186	7.18	0.22	N/A	-157.3	
1055	11.22	150	9.60	185	7.19	0.22	N/A	-154.6	
									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	8260C	HCL/4 DEG C	3 x 40 ml	[x]	
[x] TA	522	HCL/4 DEG C	2 x 250 ml	[x]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	

PURGE WATER DESCRIPTION

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-266Mb**	DATE	8-Apr-15
TIME	START 1115	END 1200	

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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	8.04 FT	WELL DEPTH	70.10 FT	WELL DIAMETER	0.5 IN
FINAL DEPTH TO WATER	8.52 FT	SCREEN LENGTH	FT	PID AMBIENT AIR	NA PPM
DRAWDOWN VOLUME	0.08 GAL			PID WELL MOUTH	NA PPM

(initial - final x 0.163 {2-inch} or x 0.654 {4-inch})

TOTAL VOLUME PURGED: 2.34 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
1135	8.52	200	9.82	390	7.06	0.30	N/A	-139.7	
1140	8.52	200	9.84	402	7.03	0.23	N/A	-138.4	
1145	8.52	200	9.75	407	7.01	0.23	N/A	-137.3	
1150	8.52	200	9.73	410	7.00	0.22	N/A	-35.0	
									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
[x] TA	8260C	HCL/4 DEG C	3 x 40 ml	[x]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	

PURGE WATER DESCRIPTION

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-267S**	DATE	8-Apr-15
TIME	START 0850	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	8.59 FT	WELL DEPTH	76.40 FT	WELL DIAMETER	0.5 IN
FINAL DEPTH TO WATER	15.94 FT	SCREEN LENGTH	FT	PID AMBIENT AIR	NA PPM
DRAWDOWN VOLUME	1.2 GAL			PID WELL MOUTH	NA PPM

(initial - final x 0.163 {2-inch} or x 0.654 {4-inch})

TOTAL VOLUME PURGED: 1.95 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
0910	15.10	200	8.90	702	5.61	0.32	N/A	53.8	
0915	15.80	150	8.84	709	5.61	0.33	N/A	52.2	
0920	15.87	150	8.97	716	5.61	0.33	N/A	51	
0925	15.94	150	8.97	719	5.61	0.34	N/A	50.7	
									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	8260C	HCL/4 DEG C	3 x 40 ml	[x]	
[x] TA	522	HCL/4 DEG C	2 x 250 ml	[x]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	

PURGE WATER DESCRIPTION

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-267M**	DATE	8-Apr-15
TIME	START 0935	END 1025	

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 FT	WELL DEPTH	98.20 FT	WELL DIAMETER	0.5 IN
FINAL DEPTH TO WATER	11.34 FT	SCREEN LENGTH	FT	PID AMBIENT AIR	NA PPM
DRAWDOWN VOLUME	0.54 GAL			PID WELL MOUTH	NA PPM

(initial - final x 0.163 {2-inch} or x 0.654 {4-inch})

TOTAL VOLUME PURGED: 1.95 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
0955	10.85	200	9.35	738	7.33	0.27	N/A	-207.1	
1000	11.27	150	9.25	724	7.30	0.25	N/A	-203.9	
1005	11.30	150	9.21	730	7.29	0.22	N/A	-202.6	
1010	11.34	150	9.20	728	7.28	0.22	N/A	-202.1	
									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	8260C	HCL/4 DEG C	3 x 40 ml	[x]	
[x] TA	522	HCL/4 DEG C	2 x 250 ml	[x]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	

PURGE WATER DESCRIPTION

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-268S**	DATE	7-Apr-15
TIME	START 1325	END 1405	

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	7.8 FT	WELL DEPTH	77.00 FT	WELL DIAMETER	2 IN
FINAL DEPTH TO WATER	13.92 FT	SCREEN LENGTH	FT	PID AMBIENT AIR	NA PPM
DRAWDOWN VOLUME	1 GAL			PID WELL MOUTH	NA PPM
TOTAL VOLUME PURGED	3.12 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	8.85	300	7.19	194	7.02	2.36	N/A	-82.9	
1335	10.84	300	8.36	158	7.20	0.48	N/A	-37.6	
1340	12.28	300	8.34	155	7.18	0.41	N/A	-25.9	
1345	12.90	300	8.39	155	7.17	0.39	N/A	-23	
1350	13.92	300	8.52	156	7.14	0.30	N/A	-20.2	
									sampled @ 1350

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	8260C	HCL/4 DEG C	3 x 40 ml	[x]	
[x] TA	522	HCL/4 DEG C	2 x 250 ml	[x]	
[x] Spectrum	NH3	H2SO4/4 DEG C	1 x 250 ml	[x]	
[x] Spectrum	Metals	HNO3/4 DEG C	1 x 250 ml	[x]	
[x] Spectrum	TOC	H3PO4/4 DEG C	2 x 40 ml	[x]	
[x] Spectrum	Dissolved Gases	HCL/4 DEG C	2 x 40 ml	[x]	
[x] Spectrum	Anions, Alkalinity, pH, PO4	4 DEG C	1 x 500 ml	[x]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	

PURGE WATER DESCRIPTION: no odor, clear, no sheen

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-268M**	DATE	7-Apr-15
TIME	START 1155	END 1325	

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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	6.96 FT	WELL DEPTH	93.80 FT	WELL DIAMETER	2 IN
FINAL DEPTH TO WATER	8.78 FT	SCREEN LENGTH	FT	PID AMBIENT AIR	NA PPM
DRAWDOWN VOLUME	0.3 GAL			PID WELL MOUTH	NA PPM

(initial - final x 0.163 {2-inch} or x 0.654 {4-inch})

TOTAL VOLUME PURGED: 7.02 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
1200	7.75	300	8.11	392	6.54	0.41	N/A	-57.1	Dup1
1210	8.60	300	8.44	395	6.69	0.12	N/A	-97.9	
1215	8.68	300	8.33	415	6.78	0.12	N/A	-117.7	
1220	8.75	300	8.44	455	6.80	0.11	N/A	-123.3	
1225	8.78	300	8.43	486	6.76	0.10	N/A	-120.9	
									sampled @ 1225

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	8260C	HCL/4 DEG C	3 x 40 ml	[x]	
[x] TA	522	HCL/4 DEG C	2 x 250 ml	[x]	
[x] Spectrum	NH3	H2SO4/4 DEG C	1 x 250 ml	[x]	
[x] Spectrum	Metals	HNO3/4 DEG C	1 x 250 ml	[x]	
[x] Spectrum	TOC	H3PO4/4 DEG C	2 x 40 ml	[x]	
[x] Spectrum	Dissolved Gases	HCL/4 DEG C	2 x 40 ml	[x]	
[x] Spectrum	Anions, Alkalinity, pH, PO4	4 DEG C	1 x 500 ml	[x]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	

PURGE WATER DESCRIPTION: odorous, clear, no sheen

PURGE WATER CONTAINERIZED: Pour back into well

NUMBER OF BUCKETS GENERATED:

NOTES

Dup1

SIGNATURE: **DHR**

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT	**RA-008**	JOB NUMBER	N/A
WELL ID	**MW-268D**	DATE	8-Apr-15
TIME	START 0835	END 0910	

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	7.53 FT	WELL DEPTH	130.15 FT	WELL DIAMETER	2 IN
FINAL DEPTH TO WATER	7.73 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})

TOTAL VOLUME PURGED: 2.73 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
0840	7.70	300	8.01	236	8.12	0.94	N/A	-138.5	
0850	7.72	300	8.42	257	8.17	0.44	N/A	-206.3	
0855	7.73	300	8.36	263	8.24	0.42	N/A	-209.7	
0900	7.73	300	8.46	270	8.26	0.29	N/A	-214	
0905	7.73	300	8.53	274	8.20	0.27	N/A	-217.3	
									sampled @ 0905

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	8260C	HCL/4 DEG C	3 x 40 ml	[x]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	

PURGE WATER DESCRIPTION: slight odor, clear, no sheen

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-269Ma**	DATE	8-Apr-15
TIME	START 1125	END 1200	

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	6.21 FT	WELL DEPTH	33.68 FT	WELL DIAMETER	2 IN
FINAL DEPTH TO WATER	8.93 FT	SCREEN LENGTH	FT	PID AMBIENT AIR	NA PPM
DRAWDOWN VOLUME	0.44 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
1135	9.10	200	9.02	258	7.06	0.35	N/A	-58.8	
1140	9.00	200	8.93	257	7.12	0.26	N/A	-71	
1145	8.96	200	8.81	256	7.12	0.24	N/A	-73.7	
1150	8.93	200	8.83	256	7.12	0.26	N/A	-76.1	
									sampled @ 1150

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	8260C	HCL/4 DEG C	3 x 40 ml	[x]	
[x] TA	522	HCL/4 DEG C	2 x 250 ml	[x]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	

PURGE WATER DESCRIPTION: cloudy, opaque, 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-551**	DATE	8-Apr-15
TIME	START 0955	END 1025	

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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	7.98 FT	WELL DEPTH	26.30 FT	WELL DIAMETER	2 IN
FINAL DEPTH TO WATER	11.21 FT	SCREEN LENGTH	FT	PID AMBIENT AIR	NA PPM
DRAWDOWN VOLUME	0.53 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
1000	10.37	200	8.43	434	7.10	0.34	N/A	-141.2	Dup3
1010	10.90	200	8.43	435	7.09	0.31	N/A	-142.5	
1015	11.13	200	8.53	441	7.07	0.30	N/A	-143.5	
1020	11.21	200	8.53	452	7.06	0.29	N/A	-143.7	
									sampled @ 1020

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	8260C	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

Dup3

SIGNATURE: **DAJ**

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT	**RA-008**	JOB NUMBER	N/A
WELL ID	**MW-552**	DATE	8-Apr-15
TIME	START 0910	END 0945	

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	8.93 FT	WELL DEPTH	27.10 FT	WELL DIAMETER	2 IN
FINAL DEPTH TO WATER	9.78 FT	SCREEN LENGTH	FT	PID AMBIENT AIR	NA PPM
DRAWDOWN VOLUME (initial - final x 0.163 {2-inch} or x 0.654 {4-inch})	0.14 GAL			PID WELL MOUTH	NA PPM
TOTAL VOLUME PURGED (purge rate (milliliters per minute) x time duration (minutes) x 0.00026 gal/millilter)	1.82 GAL				

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
0920	9.78	200	9.03	787	7.18	0.34	N/A	-107.9	
0925	9.78	200	9.05	804	7.17	0.28	N/A	-126.1	
0930	9.78	200	9.24	815	7.15	0.26	N/A	-135.6	
0935	9.78	200	9.22	816	7.15	0.24	N/A	-146.4	
									sampled @ 0935

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	8260C	HCL/4 DEG C	3 x 40 ml	[x]	
[x] TA	522	HCL/4 DEG C	2 x 250 ml	[x]	
[x] Spectrum	NH3	H2SO4/4 DEG C	1 x 250 ml	[x]	
[x] Spectrum	Metals	HNO3/4 DEG C	1 x 250 ml	[x]	
[x] Spectrum	TOC	H3PO4/4 DEG C	2 x 40 ml	[x]	
[x] Spectrum	Dissolved Gases	HCL/4 DEG C	2 x 40 ml	[x]	
[x] Spectrum	Anions, Alkalinity, pH, PO4	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-553**	DATE	8-Apr-15
TIME	START 0830	END 0910	

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 FT	WELL DEPTH	21.50 FT	WELL DIAMETER	2 IN
FINAL DEPTH TO WATER	13.54 FT	SCREEN LENGTH	FT	PID AMBIENT AIR	NA PPM
DRAWDOWN VOLUME	0.74 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
0840	11.15	200	7.61	624	7.07	0.26	N/A	-118.5	
0845	12.24	200	7.72	625	7.09	0.22	N/A	-122.7	
0850	12.82	200	7.68	625	7.08	0.22	N/A	-122.8	
0900	13.54	200	7.90	629	7.08	0.22	N/A	-123.2	
									sampled @ 0900

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	8260C	HCL/4 DEG C	3 x 40 ml	[x]	
[x] Spectrum	NH3	H2SO4/4 DEG C	1 x 250 ml	[x]	
[x] Spectrum	Metals	HNO3/4 DEG C	1 x 250 ml	[x]	
[x] Spectrum	TOC	H3PO4/4 DEG C	2 x 40 ml	[x]	
[x] Spectrum	Dissolved Gases	HCL/4 DEG C	2 x 40 ml	[x]	
[x] Spectrum	Anions, Alkalinity, pH, PO4	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-560**	DATE	7-Apr-15
TIME	START 1035	END 1115	

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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	7.96 FT	WELL DEPTH	65.20 FT	WELL DIAMETER	2 IN
FINAL DEPTH TO WATER	11.06 FT	SCREEN LENGTH	FT	PID AMBIENT AIR	NA PPM
DRAWDOWN VOLUME	0.5 GAL			PID WELL MOUTH	NA PPM

(initial - final x 0.163 {2-inch} or x 0.654 {4-inch})

TOTAL VOLUME PURGED: 3.12 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
1040	8.58	300	9.10	796	6.81	0.25	N/A	-146.6	
1050	10.40	300	8.91	798	6.95	0.18	N/A	-157.9	
1055	10.70	300	9.10	798	6.96	0.17	N/A	-159	
1100	10.99	300	9.18	796	6.96	0.15	N/A	-159.7	
1105	11.06	300	9.24	795	6.96	0.15	N/A	-159.7	
									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	8260C	HCL/4 DEG C	3 x 40 ml	[x]	
[x] Spectrum	NH3	H2SO4/4 DEG C	1 x 250 ml	[x]	
[x] Spectrum	Metals	HNO3/4 DEG C	1 x 250 ml	[x]	
[x] Spectrum	TOC	H3PO4/4 DEG C	2 x 40 ml	[x]	
[x] Spectrum	Dissolved Gases	HCL/4 DEG C	2 x 40 ml	[x]	
[x] Spectrum	Anions, Alkalinity, pH, PO4	4 DEG C	1 x 500 ml	[x]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	

PURGE WATER DESCRIPTION: odorous, no sheen, gray silty color

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-561**	DATE	7-Apr-15
TIME	START 0815	END 0900	

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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	8.16 FT	WELL DEPTH	53.65 FT	WELL DIAMETER	2 IN
FINAL DEPTH TO WATER	9.71 FT	SCREEN LENGTH	FT	PID AMBIENT AIR	NA PPM
DRAWDOWN VOLUME	0.25 GAL			PID WELL MOUTH	NA PPM

(initial - final x 0.163 {2-inch} or x 0.654 {4-inch})

TOTAL VOLUME PURGED: 3.5 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
0820	8.72	300	7.78	472	5.37	1.05	N/A	27.3	
0830	9.58	300	8.54	455	5.48	0.15	N/A	23.9	
0835	9.70	300	8.75	454	5.46	0.15	N/A	27.9	
0840	9.71	300	8.96	464	5.46	0.15	N/A	26.9	
0845	9.71	300	9.15	476	5.46	0.14	N/A	26.4	
									sampled @ 0845

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	8260C	HCL/4 DEG C	3 x 40 ml	[x]	
[x] Spectrum	NH3	H2SO4/4 DEG C	1 x 250 ml	[x]	
[x] Spectrum	Metals	HNO3/4 DEG C	1 x 250 ml	[x]	
[x] Spectrum	TOC	H3PO4/4 DEG C	2 x 40 ml	[x]	
[x] Spectrum	Dissolved Gases	HCL/4 DEG C	2 x 40 ml	[x]	
[x] Spectrum	Anions, Alkalinity, pH, PO4	4 DEG C	1 x 500 ml	[x]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	

PURGE WATER DESCRIPTION: odorous, no sheen, 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-562**	DATE	7-Apr-15
TIME	START 0900	END 0955	

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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	7.06 FT	WELL DEPTH	41.60 FT	WELL DIAMETER	0.5 IN
FINAL DEPTH TO WATER	8.88 FT	SCREEN LENGTH	FT	PID AMBIENT AIR	NA PPM
DRAWDOWN VOLUME	0.3 GAL			PID WELL MOUTH	NA PPM
TOTAL VOLUME PURGED	2.15 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
0920	8.88	200	10.42	1126	5.16	0.28	N/A	7.6	
0925	8.80	150	10.49	1130	5.25	0.28	N/A	0.7	
0930	8.88	150	10.44	1136	5.27	0.26	N/A	-2.7	
0935	8.88	150	10.57	1139	5.28	0.25	N/A	-8.4	
									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	8260C	HCL/4 DEG C	3 x 40 ml	[x]	
[x] Spectrum	NH3	H2SO4/4 DEG C	1 x 250 ml	[x]	
[x] Spectrum	Metals	HNO3/4 DEG C	1 x 250 ml	[x]	
[x] Spectrum	TOC	H3PO4/4 DEG C	2 x 40 ml	[x]	
[x] Spectrum	Dissolved Gases	HCL/4 DEG C	2 x 40 ml	[x]	
[x] Spectrum	Anions, Alkalinity, pH, PO4	4 DEG C	1 x 500 ml	[x]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	

PURGE WATER DESCRIPTION

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-563**	DATE	7-Apr-15
TIME	START 0935	END 1030	

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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	5.38 FT	WELL DEPTH	65.20 FT	WELL DIAMETER	2 IN
FINAL DEPTH TO WATER	9.3 FT	SCREEN LENGTH	FT	PID AMBIENT AIR	NA PPM
DRAWDOWN VOLUME	0.63 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: 4.2 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
0940	7.00	300	8.59	582	6.68	0.16	N/A	-129.4	
0950	8.20	300	9.03	577	6.74	0.12	N/A	-136.3	
0955	8.65	300	9.05	580	6.75	0.10	N/A	-137.4	
1000	9.15	300	9.26	579	6.76	0.09	N/A	-132.7	
1005	9.30	300	9.31	583	6.76	0.09	N/A	-133.4	
									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	8260C	HCL/4 DEG C	3 x 40 ml	[x]	
[x] Spectrum	NH3	H2SO4/4 DEG C	1 x 250 ml	[x]	
[x] Spectrum	Metals	HNO3/4 DEG C	1 x 250 ml	[x]	
[x] Spectrum	TOC	H3PO4/4 DEG C	2 x 40 ml	[x]	
[x] Spectrum	Dissolved Gases	HCL/4 DEG C	2 x 40 ml	[x]	
[x] Spectrum	Anions, Alkalinity, pH, PO4	4 DEG C	1 x 500 ml	[x]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	

PURGE WATER DESCRIPTION: odorous, no sheen, 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	**REW-1**	DATE	7-Apr-15
TIME	START 0915	END 0950	

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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	4.82 FT	WELL DEPTH	39.11 FT	WELL DIAMETER	4 IN
FINAL DEPTH TO WATER	5.37 FT	SCREEN LENGTH	FT	PID AMBIENT AIR	NA PPM
DRAWDOWN VOLUME	0.36 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
0925	5.30	200	7.74	233	6.73	0.34	N/A	-100.8	
0930	5.32	200	7.60	233	6.74	0.29	N/A	-106.6	
0935	5.34	200	7.42	232	6.72	0.27	N/A	-109.7	
0940	5.37	200	7.64	233	6.71	0.25	N/A	-112.5	
									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	8260C	HCL/4 DEG C	3 x 40 ml	[x]	
[x] Spectrum	NH3	H2SO4/4 DEG C	1 x 250 ml	[x]	
[x] Spectrum	Metals	HNO3/4 DEG C	1 x 250 ml	[x]	
[x] Spectrum	TOC	H3PO4/4 DEG C	2 x 40 ml	[x]	
[x] Spectrum	Dissolved Gases	HCL/4 DEG C	2 x 40 ml	[x]	
[x] Spectrum	Anions, Alkalinity, pH, PO4	4 DEG C	1 x 500 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	**REW-4**	DATE	7-Apr-15
TIME	START 0800	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	4.33 FT	WELL DEPTH	46.80 FT	WELL DIAMETER	4 IN
FINAL DEPTH TO WATER	5.88 FT	SCREEN LENGTH	FT	PID AMBIENT AIR	NA PPM
DRAWDOWN VOLUME	1.01 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
0810	5.44	200	9.07	129	6.77	0.28	N/A	-97	
0815	5.58	200	9.12	129	6.79	0.26	N/A	-98.6	
0820	5.69	200	9.16	129	6.79	0.24	N/A	-100.6	
0825	5.88	200	9.13	129	6.80	0.23	N/A	-102.4	
									sampled @ 0825

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	8260C	HCL/4 DEG C	3 x 40 ml	[x]	
[x] Spectrum	NH3	H2SO4/4 DEG C	1 x 250 ml	[x]	
[x] Spectrum	Metals	HNO3/4 DEG C	1 x 250 ml	[x]	
[x] Spectrum	TOC	H3PO4/4 DEG C	2 x 40 ml	[x]	
[x] Spectrum	Dissolved Gases	HCL/4 DEG C	2 x 40 ml	[x]	
[x] Spectrum	Anions, Alkalinity, pH, PO4	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-5**	DATE	7-Apr-15
TIME	START 0835	END 0910	

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25 Spring Street
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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	5.44 FT	WELL DEPTH	39.68 FT	WELL DIAMETER	4 IN
FINAL DEPTH TO WATER	6.72 FT	SCREEN LENGTH	FT	PID AMBIENT AIR	NA PPM
DRAWDOWN VOLUME	0.84 GAL			PID WELL MOUTH	NA PPM

(initial - final x 0.163 {2-inch} or x 0.654 {4-inch})

TOTAL VOLUME PURGED: 2.73 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
0845	6.17	200	8.93	273	6.64	0.39	N/A	-75	
0850	6.43	200	9.04	273	6.64	0.31	N/A	-78.6	
0855	6.55	200	9.22	275	6.64	0.29	N/A	-79.4	
0900	6.72	200	9.22	275	6.64	0.27	N/A	-79.8	
									sampled @ 0900

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	8260C	HCL/4 DEG C	3 x 40 ml	[x]	
[x] Spectrum	NH3	H2SO4/4 DEG C	1 x 250 ml	[x]	
[x] Spectrum	Metals	HNO3/4 DEG C	1 x 250 ml	[x]	
[x] Spectrum	TOC	H3PO4/4 DEG C	2 x 40 ml	[x]	
[x] Spectrum	Dissolved Gases	HCL/4 DEG C	2 x 40 ml	[x]	
[x] Spectrum	Anions, Alkalinity, pH, PO4	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**	DATE	7-Apr-15
TIME	START 1025	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

(initial - final x 0.163 {2-inch} or x 0.654 {4-inch})

TOTAL VOLUME PURGED: 2.34 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
1035	Note 1	300	10.26	639	6.46	0.23	N/A	-89.7	
1040	Note 1	300	10.35	639	6.46	0.20	N/A	-102.6	
1045	Note 1	300	10.41	639	6.47	0.17	N/A	-112.7	
1050	Note 1	300	10.40	636	6.47	0.16	N/A	-120	
									sampled @ 1050

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	8260C	HCL/4 DEG C	3 x 40 ml	[x]	
[x] Spectrum	NH3	H2SO4/4 DEG C	1 x 250 ml	[x]	
[x] Spectrum	Metals	HNO3/4 DEG C	1 x 250 ml	[x]	
[x] Spectrum	TOC	H3PO4/4 DEG C	2 x 40 ml	[x]	
[x] Spectrum	Dissolved Gases	HCL/4 DEG C	2 x 40 ml	[x]	
[x] Spectrum	Anions, Alkalinity, pH, PO4	4 DEG C	1 x 500 ml	[x]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	

PURGE WATER DESCRIPTION: clear, moderate bio odor

PURGE WATER CONTAINERIZED: Pour back into well

NUMBER OF BUCKETS GENERATED:

NOTES

Note 1: Unable to take readings due to 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**	DATE	7-Apr-15
TIME	START 1055	END 1125	

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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
(initial - final x 0.163 {2-inch} or x 0.654 {4-inch})					
TOTAL VOLUME PURGED	2.34 GAL				

WELL INTEGRITY	YES	NO	N/A
CAP	[x]	[ ]	[ ]
CASING	[x]	[ ]	[ ]
LOCKED	[ ]	[x]	[ ]
COLLAR	[ ]	[ ]	[x]

(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
1105	Note 1	300	10.30	576	6.92	0.22	N/A	-148.6	
1110	Note 1	300	10.21	578	6.92	0.20	N/A	-150.3	
1115	Note 1	300	10.28	578	6.92	0.18	N/A	-154.1	
1120	Note 1	300	10.32	576	6.92	0.16	N/A	-155.3	
									sampled @ 1120

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	8260C	HCL/4 DEG C	3 x 40 ml	[x]	
[x] Spectrum	NH3	H2SO4/4 DEG C	1 x 250 ml	[x]	
[x] Spectrum	Metals	HNO3/4 DEG C	1 x 250 ml	[x]	
[x] Spectrum	TOC	H3PO4/4 DEG C	2 x 40 ml	[x]	
[x] Spectrum	Dissolved Gases	HCL/4 DEG C	2 x 40 ml	[x]	
[x] Spectrum	Anions, Alkalinity, pH, PO4	4 DEG C	1 x 500 ml	[x]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	

PURGE WATER DESCRIPTION: clear, moderate bio odor

PURGE WATER CONTAINERIZED: Pour back into well

NUMBER OF BUCKETS GENERATED:

NOTES

Note 1: Unable to take readings due to 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**	DATE	7-Apr-15
TIME	START 1210	END 1240	

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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
(initial - final x 0.163 {2-inch} or x 0.654 {4-inch})					
TOTAL VOLUME PURGED	2.34 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
1220	Note 1	300	10.18	471	7.00	0.16	N/A	-154.8	
1225	Note 1	300	10.21	474	7.00	0.14	N/A	-159.9	
1230	Note 1	300	10.25	474	7.00	0.13	N/A	-164.2	
1235	Note 1	300	10.14	475	7.00	0.13	N/A	-167.3	
									sampled @ 1235

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	8260C	HCL/4 DEG C	3 x 40 ml	[x]	
[x] Spectrum	NH3	H2SO4/4 DEG C	1 x 250 ml	[x]	
[x] Spectrum	Metals	HNO3/4 DEG C	1 x 250 ml	[x]	
[x] Spectrum	TOC	H3PO4/4 DEG C	2 x 40 ml	[x]	
[x] Spectrum	Dissolved Gases	HCL/4 DEG C	2 x 40 ml	[x]	
[x] Spectrum	Anions, Alkalinity, pH, PO4	4 DEG C	1 x 500 ml	[x]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	
[ ]				[ ]	

PURGE WATER DESCRIPTION: cloudy, moderate bio odor

PURGE WATER CONTAINERIZED: Pour back into well

NUMBER OF BUCKETS GENERATED:

NOTES

Note 1: Unable to take readings due to pump in well and operating

SIGNATURE: **DAJ**

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT	**RA-008**	JOB NUMBER	N/A
WELL ID	**REW-9**	DATE	7-Apr-15
TIME	START 1240	END 1315	

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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
(initial - final x 0.163 {2-inch} or x 0.654 {4-inch})					
TOTAL VOLUME PURGED	2.73 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
1250	Note 1	300	9.96	682	6.62	0.16	N/A	-104.6	
1255	Note 1	300	9.89	685	6.62	0.14	N/A	-109.4	
1300	Note 1	300	9.90	684	6.62	0.13	N/A	-113.8	
1305	Note 1	300	9.96	683	6.62	0.12	N/A	-118.6	
									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	8260C	HCL/4 DEG C	3 x 40 ml	[x]	
[x] Spectrum	NH3	H2SO4/4 DEG C	1 x 250 ml	[x]	
[x] Spectrum	Metals	HNO3/4 DEG C	1 x 250 ml	[x]	
[x] Spectrum	TOC	H3PO4/4 DEG C	2 x 40 ml	[x]	
[x] Spectrum	Dissolved Gases	HCL/4 DEG C	2 x 40 ml	[x]	
[x] Spectrum	Anions, Alkalinity, pH, PO4	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: Unable to take readings due to pump in well and operating

SIGNATURE: **DAJ**

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

PROJECT	**RA-008**	JOB NUMBER	N/A
WELL ID	**REW-10**	DATE	7-Apr-15
TIME	START 0705	END 0740	

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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	3.92 FT	WELL DEPTH	77.70 FT	WELL DIAMETER	4 IN
FINAL DEPTH TO WATER	4.14 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
0715	4.14	200	4.22	52	6.13	7.97	N/A	105	
0720	4.14	200	4.06	51	6.07	7.89	N/A	110.6	
0725	4.14	200	4.17	51	6.05	7.78	N/A	110.1	
0730	4.14	200	4.26	51	6.03	7.73	N/A	109.8	
									sampled @ 0730

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	8260C	HCL/4 DEG C	3 x 40 ml	[x]	
[x] Spectrum	NH3	H2SO4/4 DEG C	1 x 250 ml	[x]	
[x] Spectrum	Metals	HNO3/4 DEG C	1 x 250 ml	[x]	
[x] Spectrum	TOC	H3PO4/4 DEG C	2 x 40 ml	[x]	
[x] Spectrum	Dissolved Gases	HCL/4 DEG C	2 x 40 ml	[x]	
[x] Spectrum	Anions, Alkalinity, pH, PO4	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	**REW-11**	DATE	7-Apr-15
TIME	START 0955	END 1025	

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	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
(initial - final x 0.163 {2-inch} or x 0.654 {4-inch})					
TOTAL VOLUME PURGED	2.34 GAL				

WELL INTEGRITY	YES	NO	N/A
CAP	[x]	[ ]	[ ]
CASING	[x]	[ ]	[ ]
LOCKED	[ ]	[x]	[ ]
COLLAR	[ ]	[ ]	[x]

(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
1005	Note 1	300	9.91	357	6.75	0.28	N/A	-112.7	
1010	Note 1	300	10.06	356	6.75	0.24	N/A	-117.9	
1015	Note 1	300	9.80	354	6.76	0.23	N/A	-120.8	
1020	Note 1	300	9.88	356	6.76	0.22	N/A	-122.6	
									sampled @ 1020

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	8260C	HCL/4 DEG C	3 x 40 ml	[x]	
[x] Spectrum	NH3	H2SO4/4 DEG C	1 x 250 ml	[x]	
[x] Spectrum	Metals	HNO3/4 DEG C	1 x 250 ml	[x]	
[x] Spectrum	TOC	H3PO4/4 DEG C	2 x 40 ml	[x]	
[x] Spectrum	Dissolved Gases	HCL/4 DEG C	2 x 40 ml	[x]	
[x] Spectrum	Anions, Alkalinity, pH, PO4	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: Unable to take readings due to 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**	DATE	7-Apr-15
TIME	START 1135	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			PID WELL MOUTH	NA PPM

(initial - final x 0.163 {2-inch} or x 0.654 {4-inch})

TOTAL VOLUME PURGED: 2.73 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
1145	Note 1	300	10.19	465	6.78	0.20	N/A	-143.8	Dup2
1150	Note 1	300	10.23	465	6.79	0.16	N/A	-157.3	
1155	Note 1	300	10.22	465	6.79	0.15	N/A	-162.7	
1200	Note 1	300	10.16	466	6.79	0.14	N/A	-166.8	
									sampled @ 1200

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	8260C	HCL/4 DEG C	3 x 40 ml	[x]	
[x] Spectrum	NH3	H2SO4/4 DEG C	1 x 250 ml	[x]	
[x] Spectrum	Metals	HNO3/4 DEG C	1 x 250 ml	[x]	
[x] Spectrum	TOC	H3PO4/4 DEG C	2 x 40 ml	[x]	
[x] Spectrum	Dissolved Gases	HCL/4 DEG C	2 x 40 ml	[x]	
[x] Spectrum	Anions, Alkalinity, pH, PO4	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:

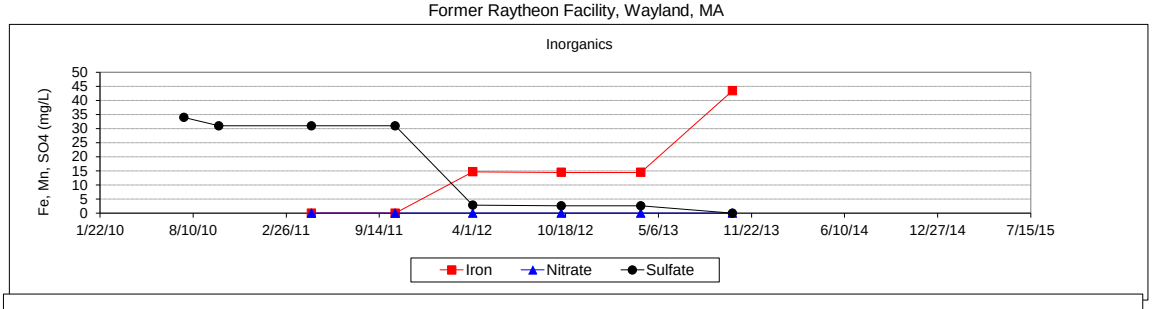
NOTES

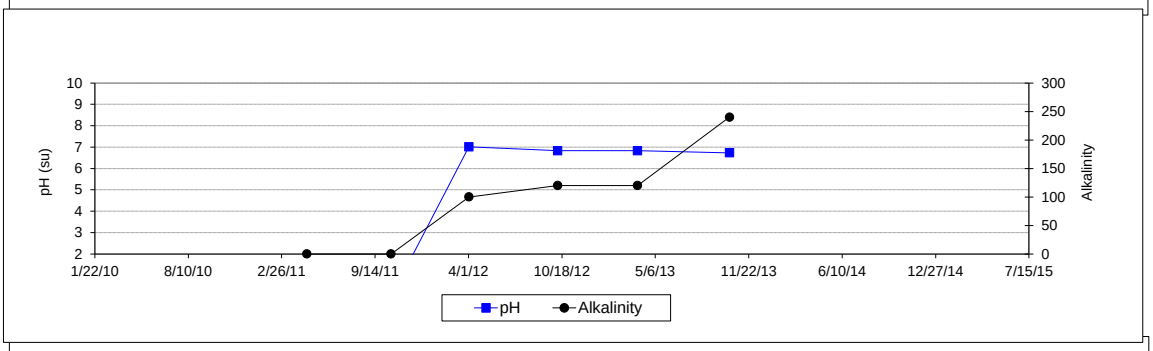
Note 1: Unable to take readings due to pump in well and operating

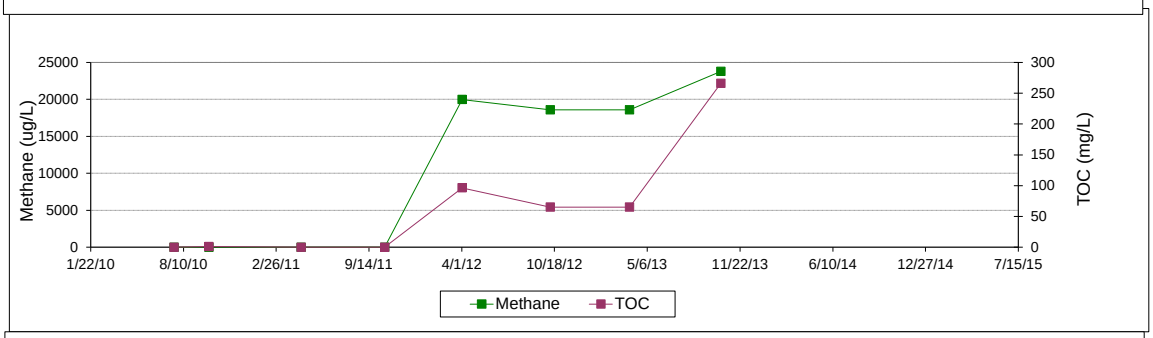
Dup2

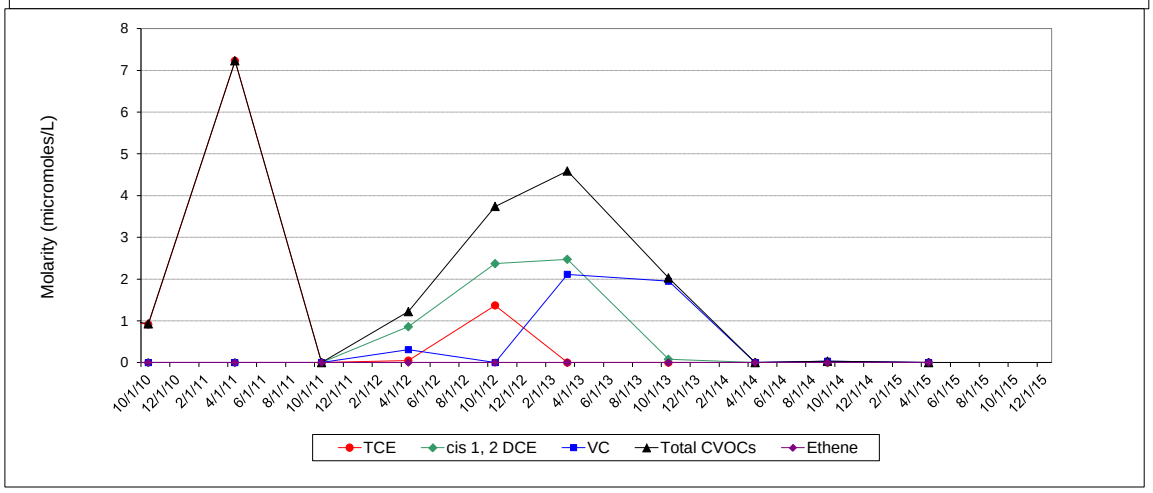
SIGNATURE: **DAJ**

Northern Area Remediation Monitoring Data
MW-551
Former Raytheon Facility, Wayland, MA

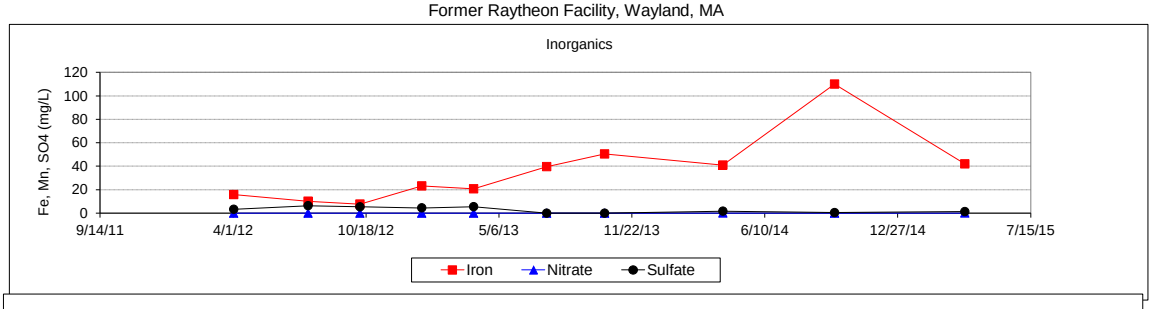


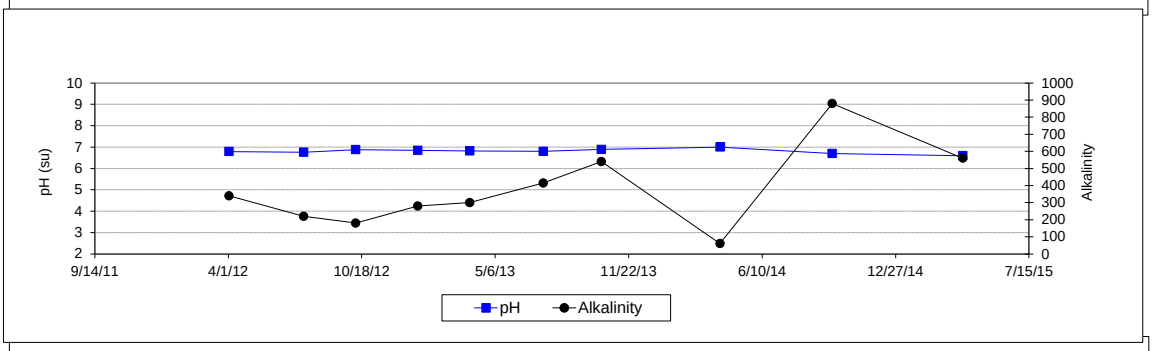


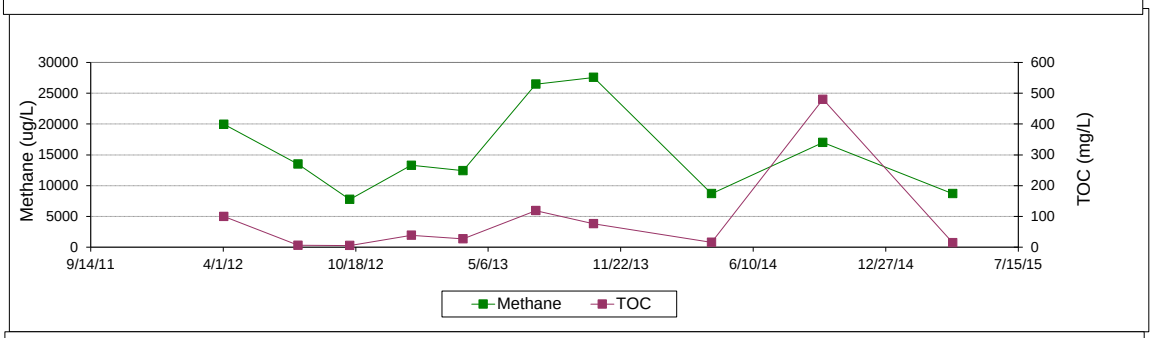


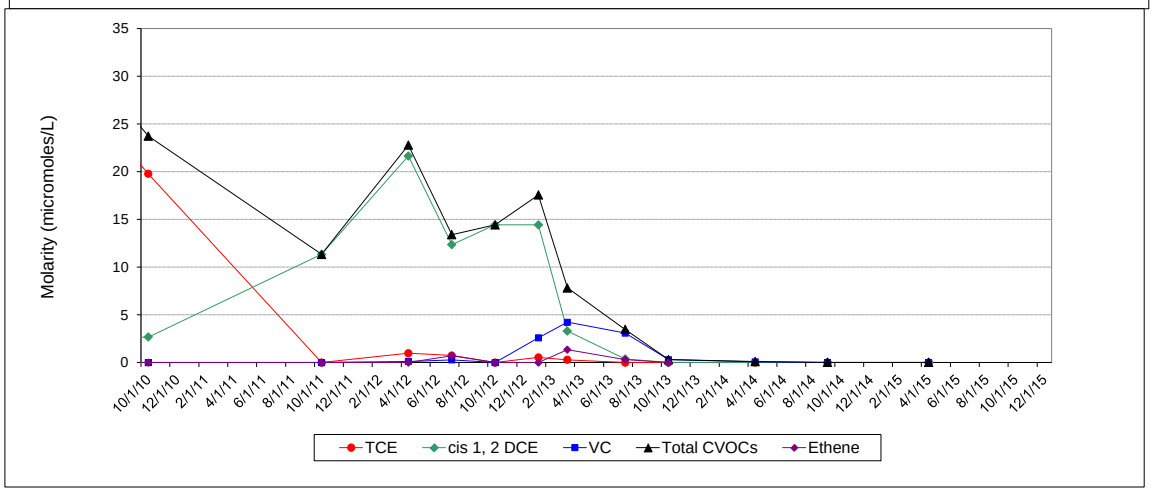


Northern Area Remediation Monitoring Data
MW-552
Former Raytheon Facility, Wayland, MA

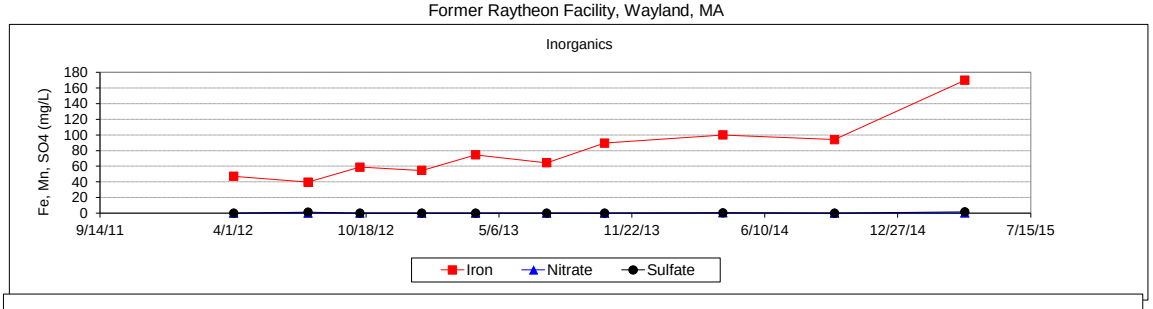


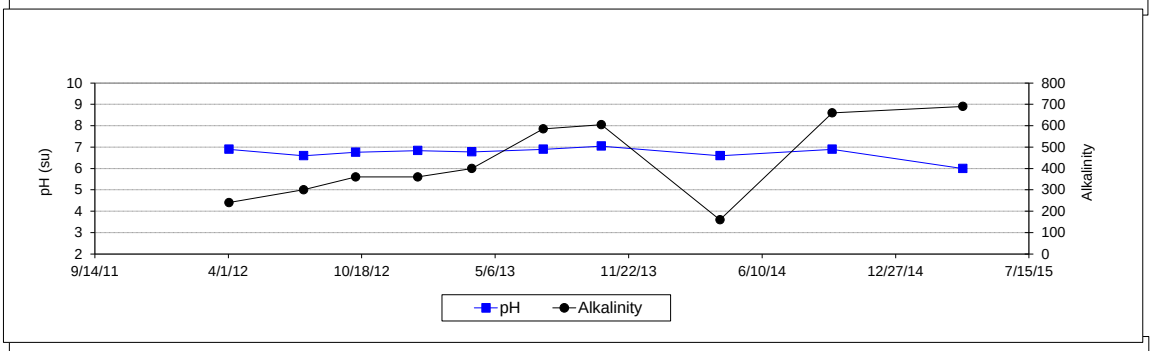


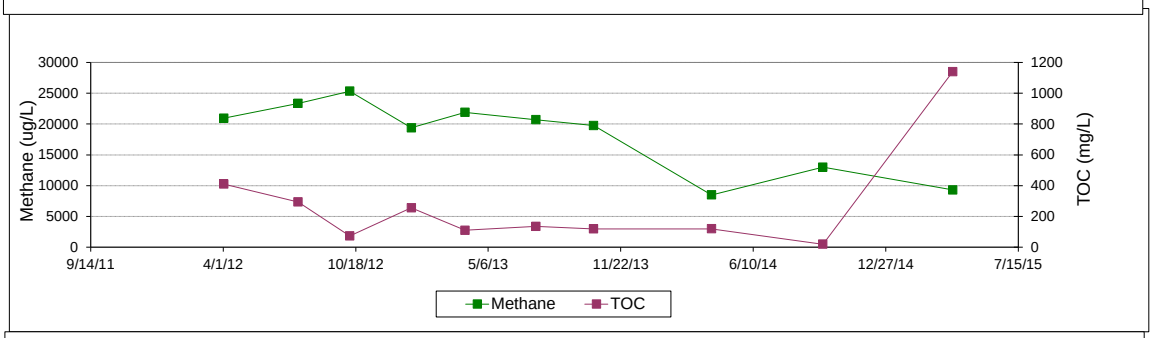


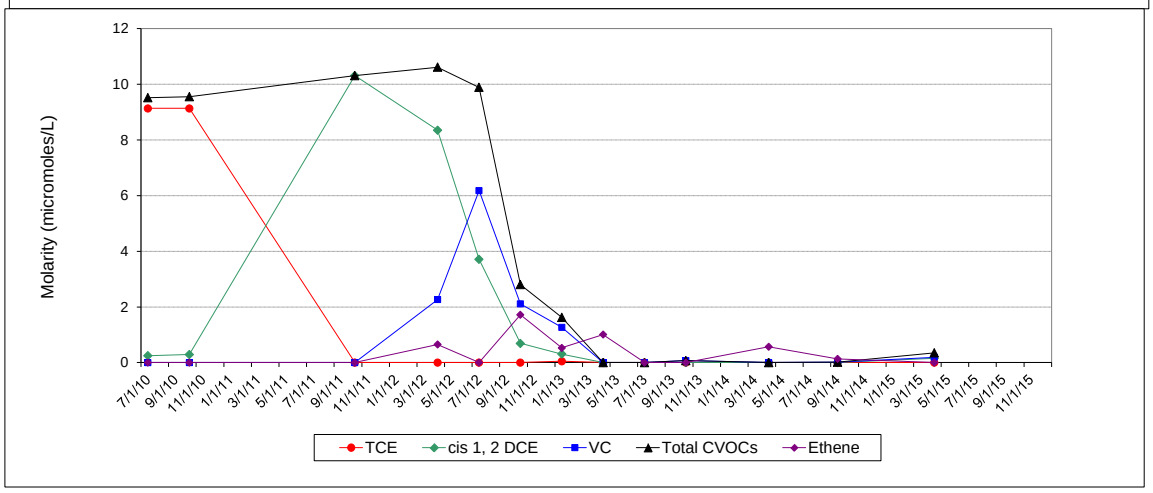


Northern Area Remediation Monitoring Data
MW-261S
Former Raytheon Facility, Wayland, MA

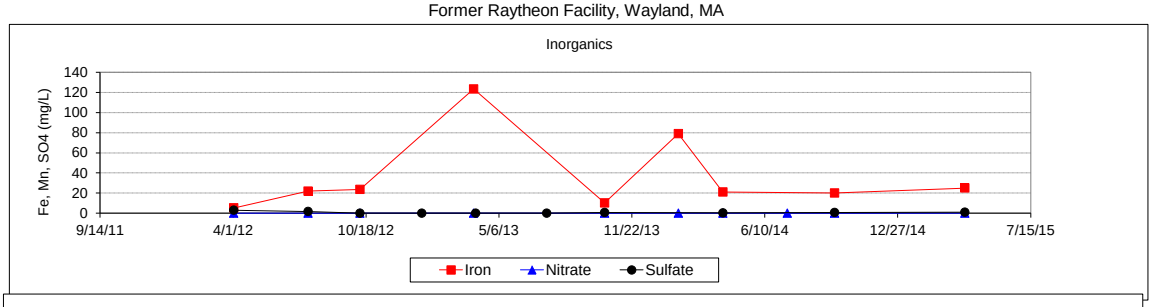


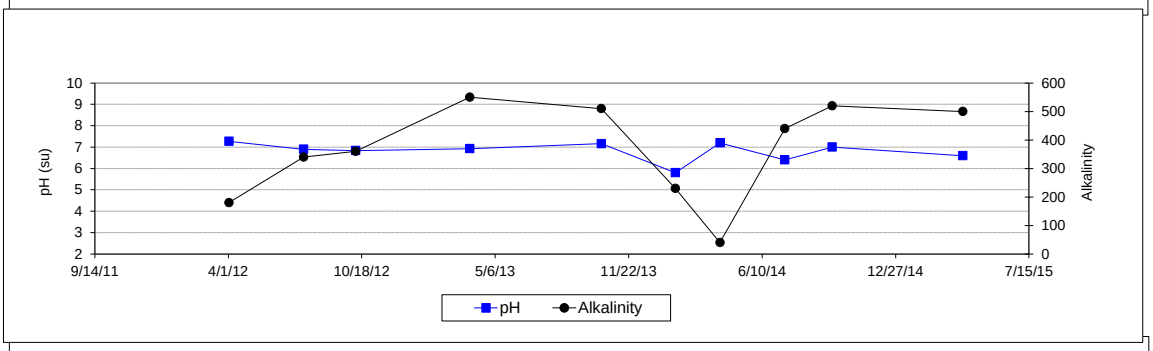


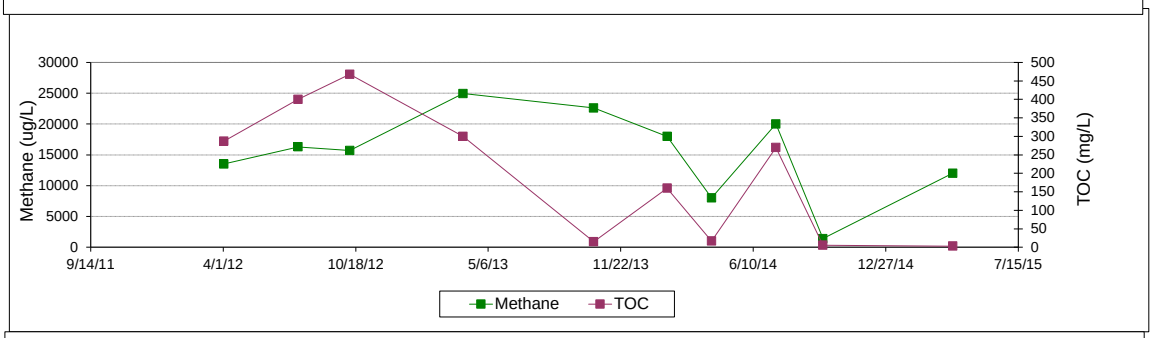


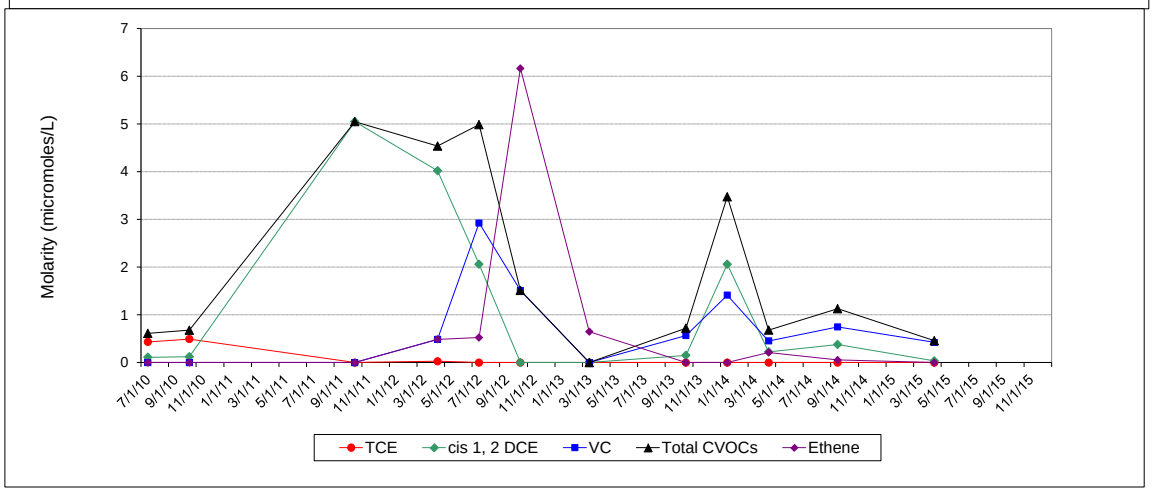


Northern Area Remediation Monitoring Data
MW-553
Former Raytheon Facility, Wayland, MA

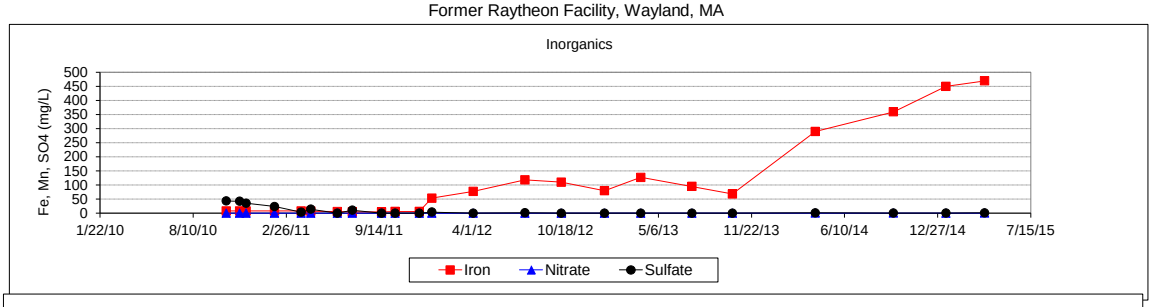


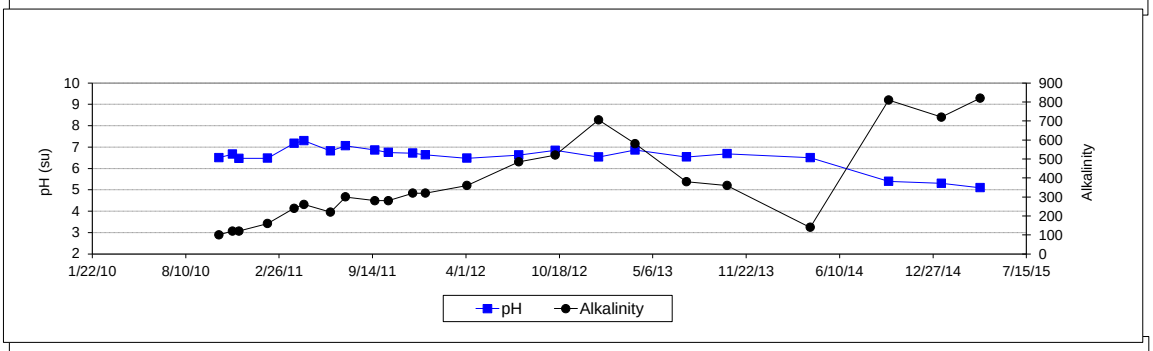


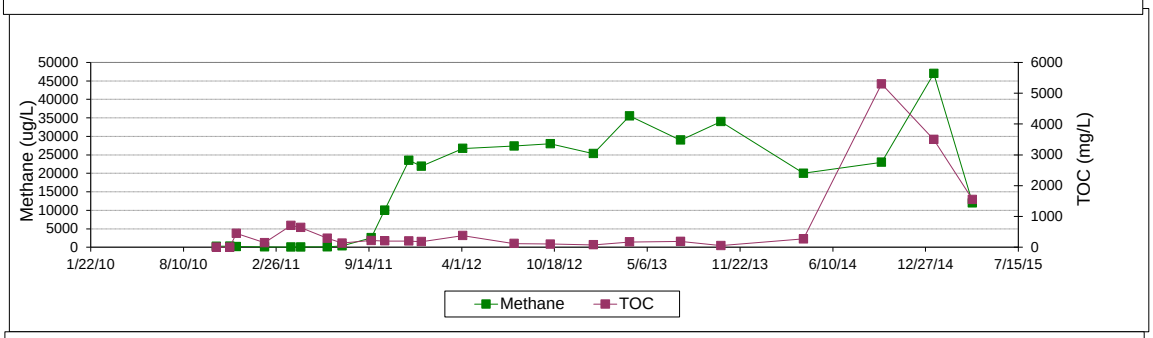


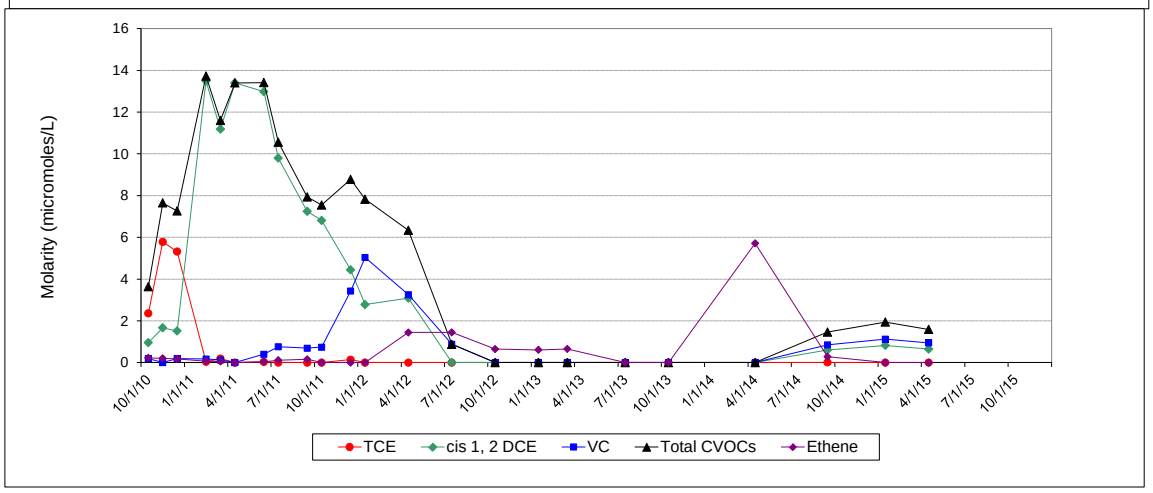


Northern Area Remediation Monitoring Data
MW-562
Former Raytheon Facility, Wayland, MA

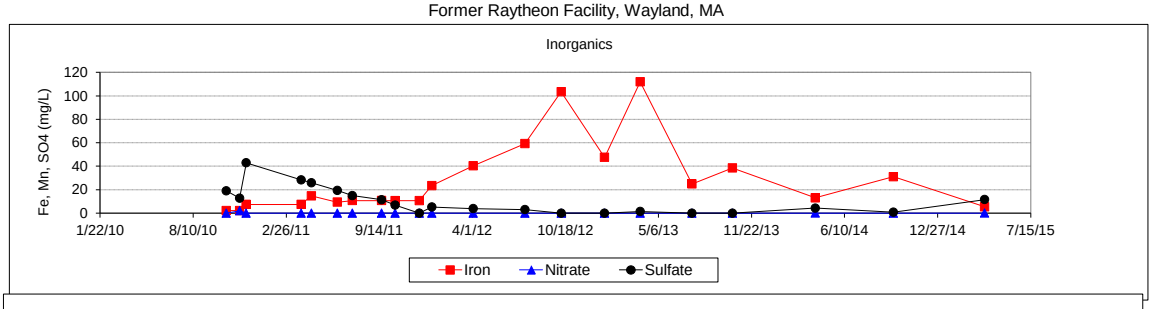


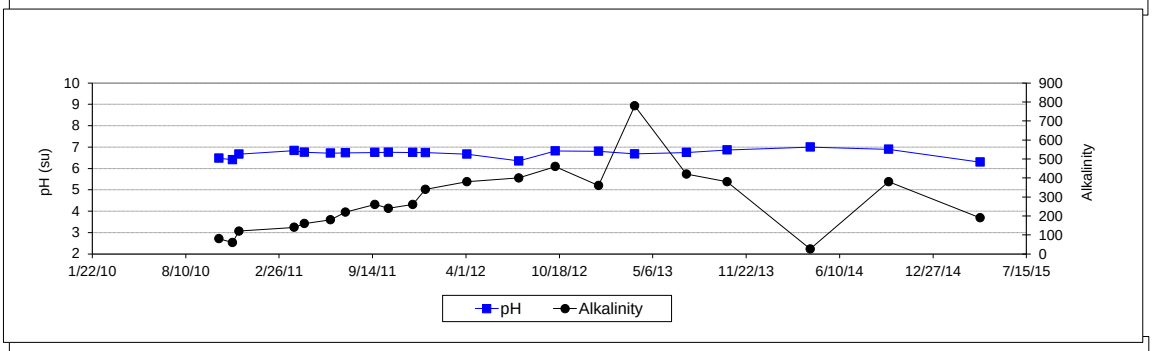


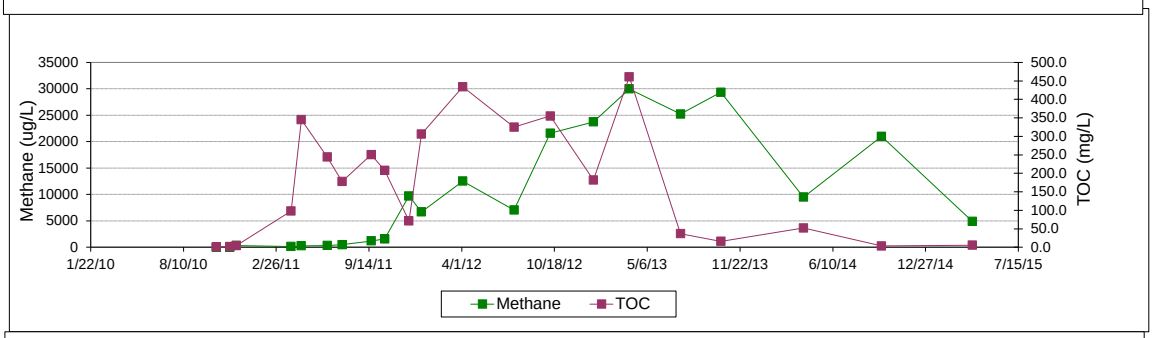


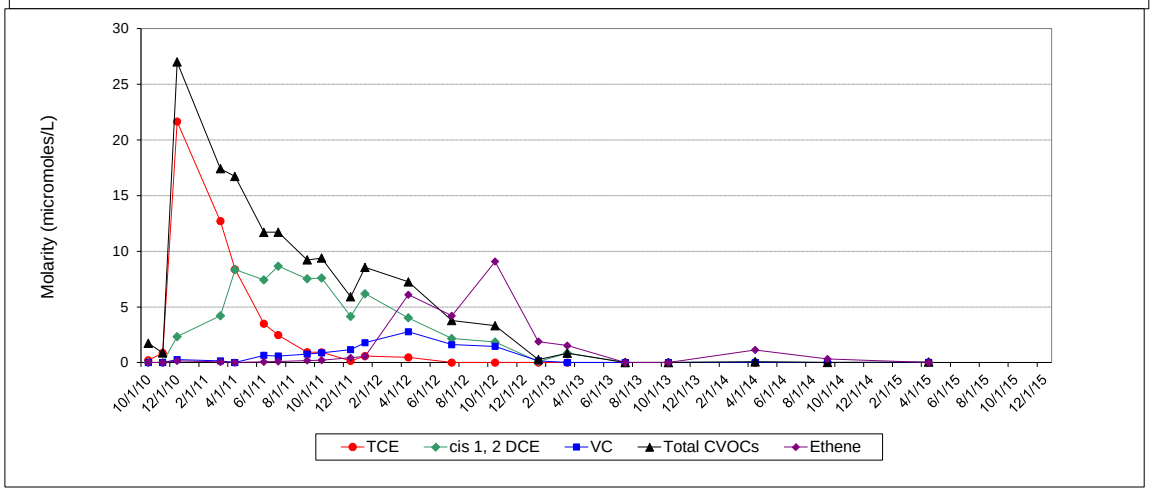


Northern Area Remediation Monitoring Data
REW-1
Former Raytheon Facility, Wayland, MA

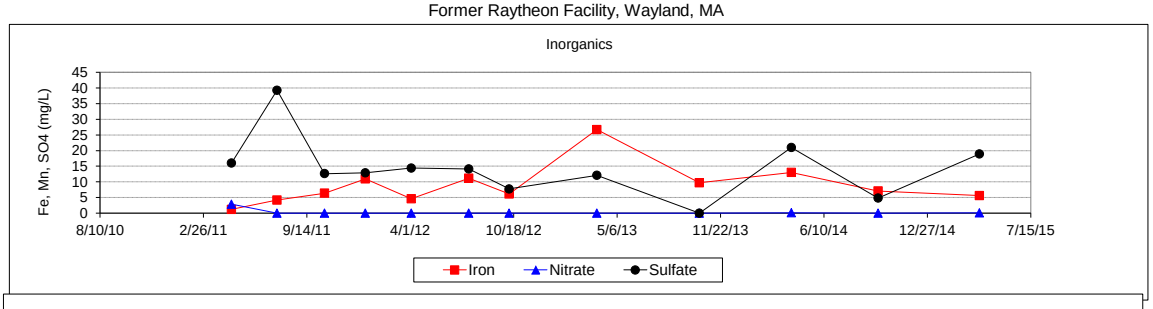


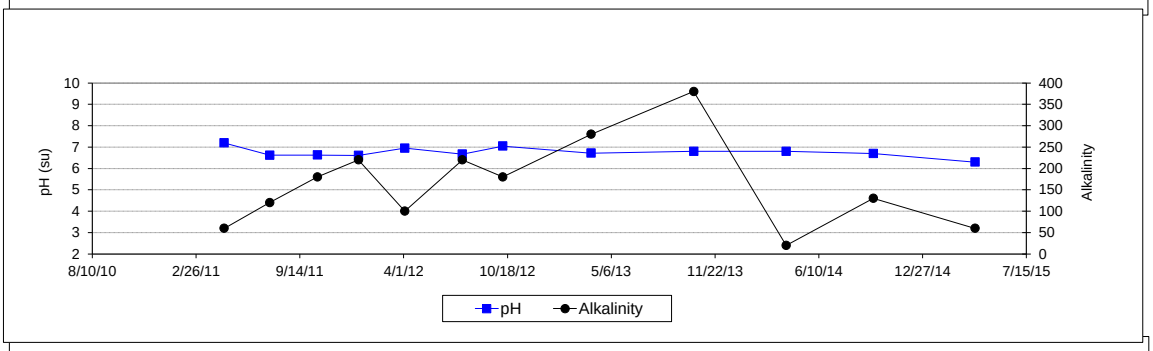


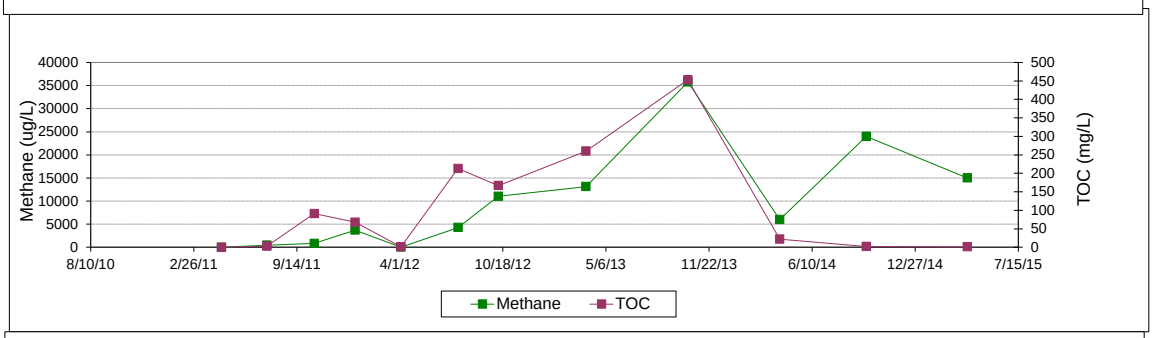


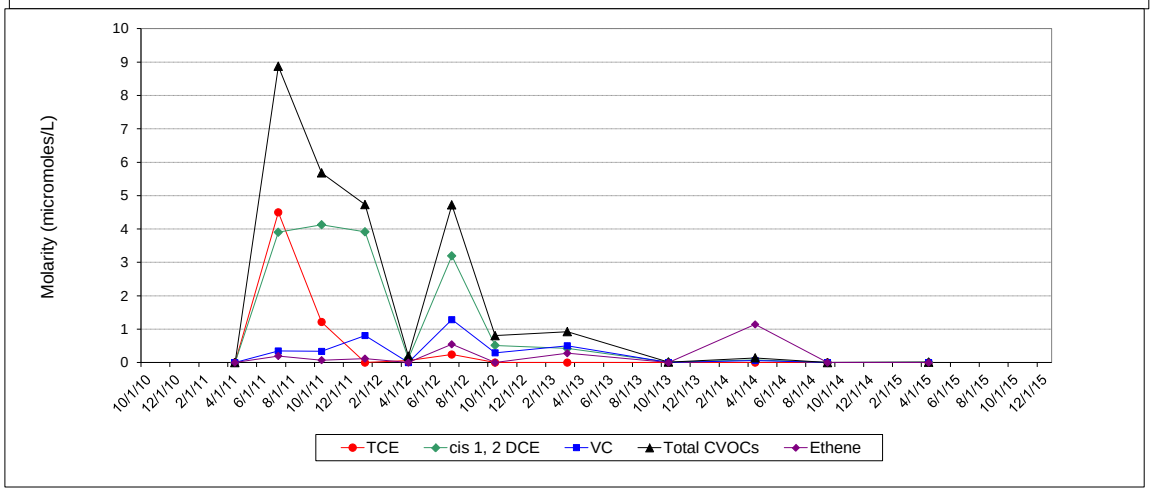


Northern Area Remediation Monitoring Data
REW-4
Former Raytheon Facility, Wayland, MA

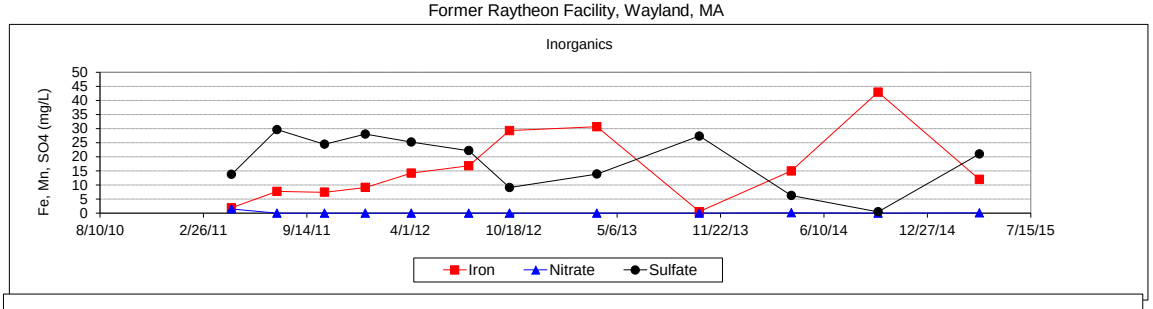


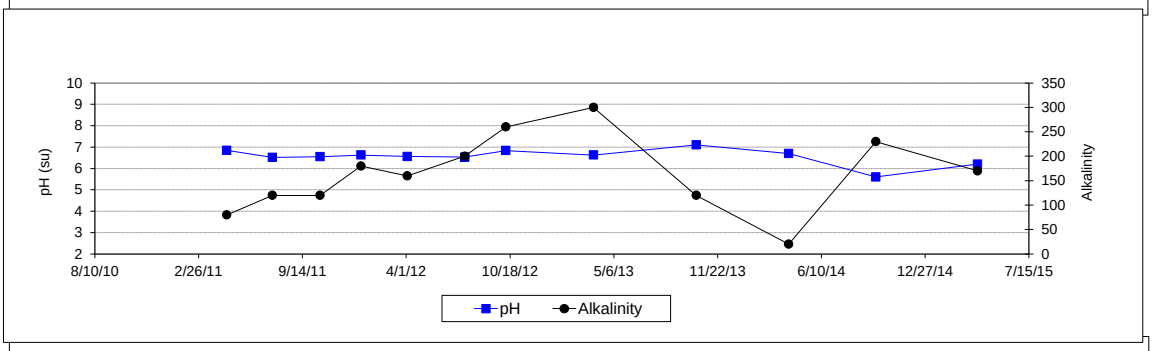


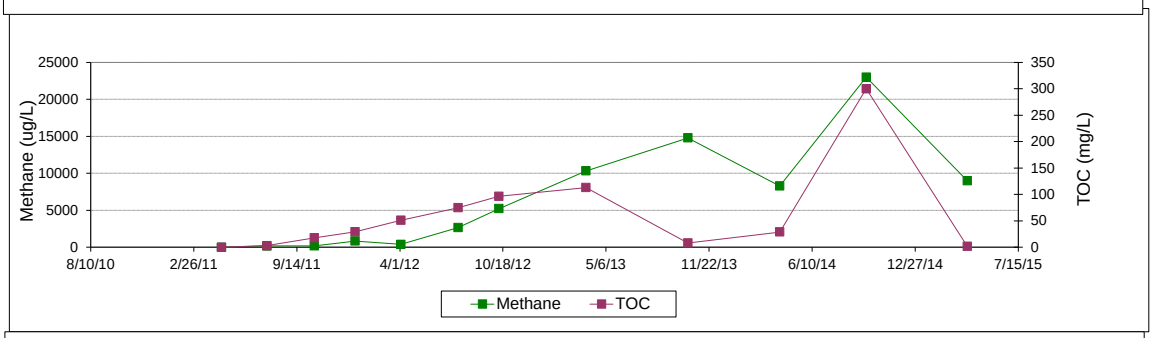


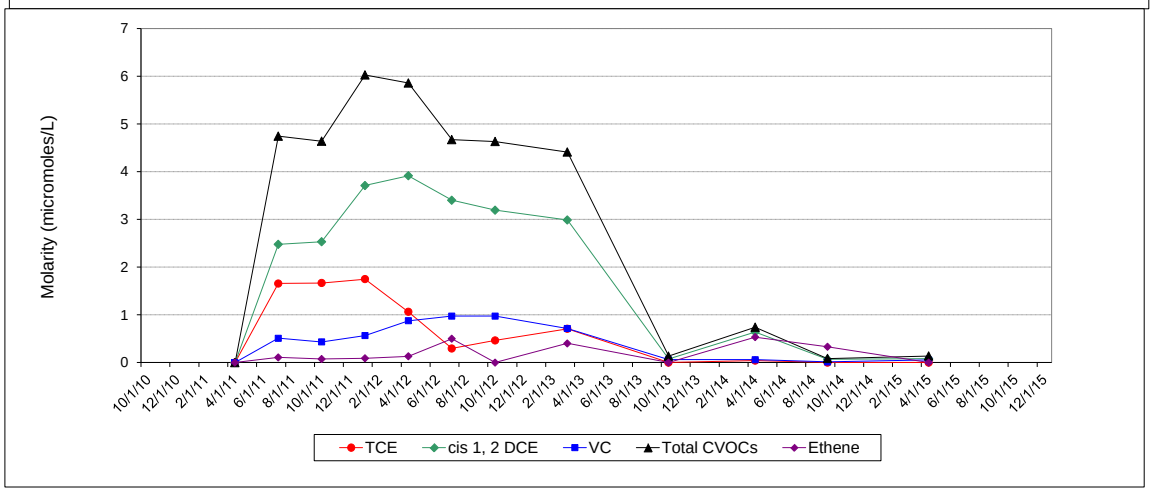


Northern Area Remediation Monitoring Data
REW-5
Former Raytheon Facility, Wayland, MA

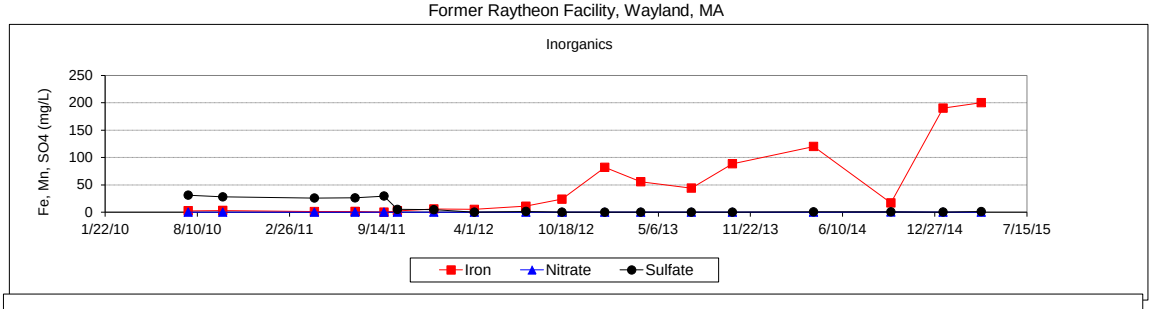


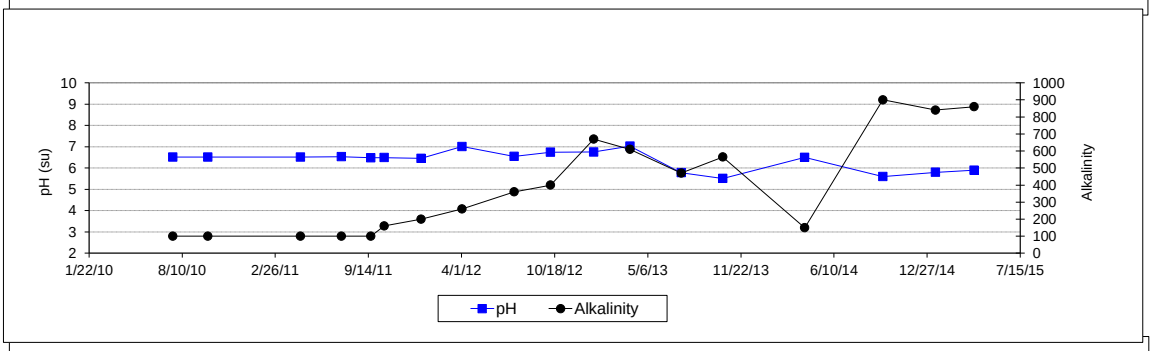


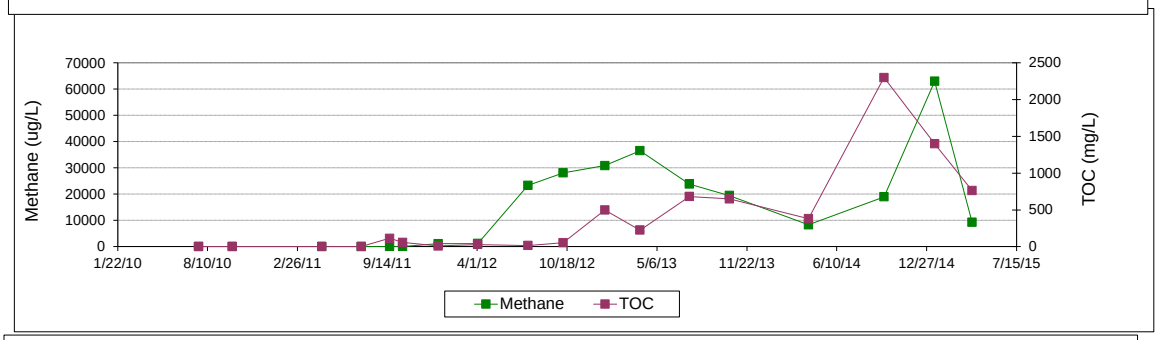


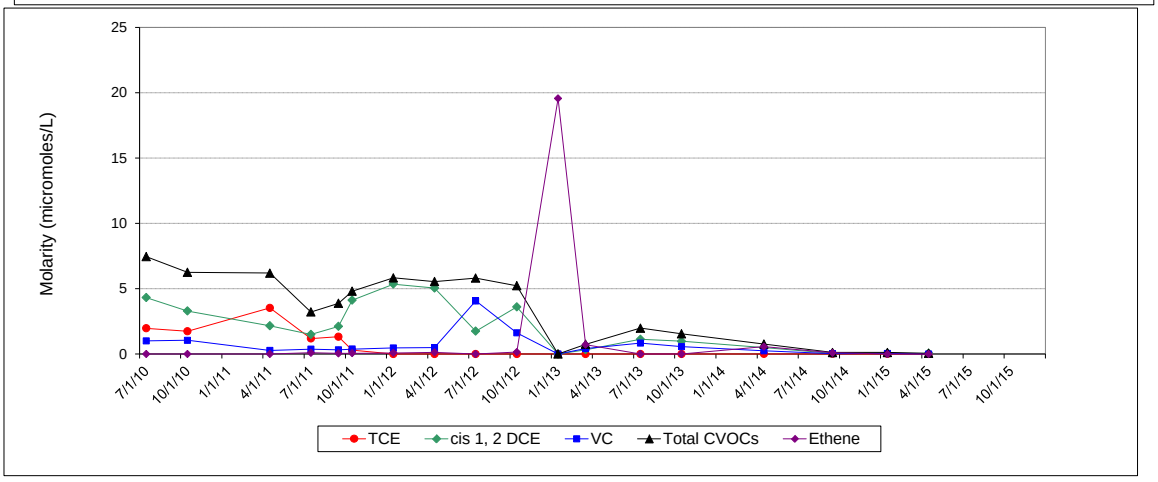


Northern Area Remediation Monitoring Data
MW-265M
Former Raytheon Facility, Wayland, MA

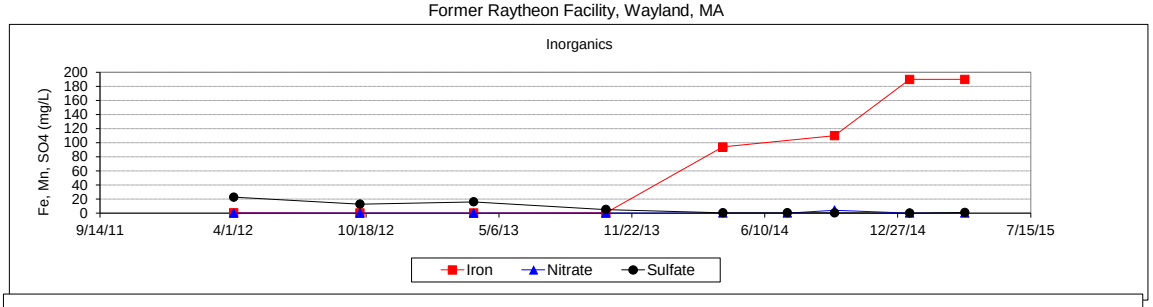


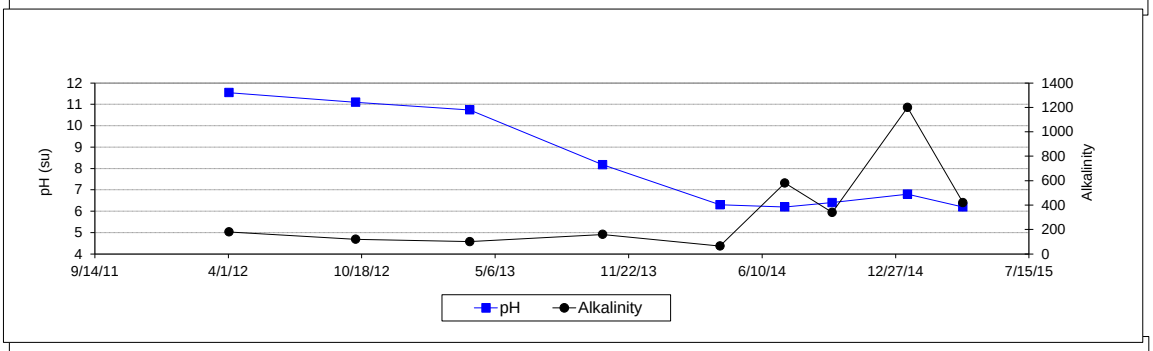


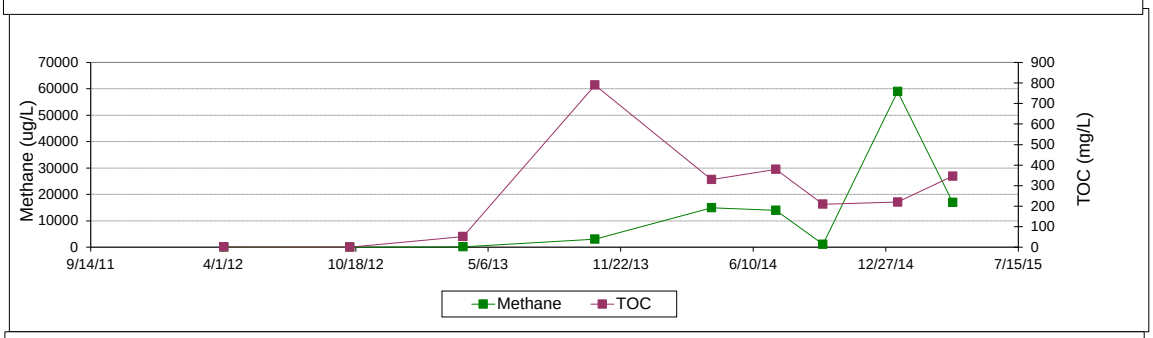


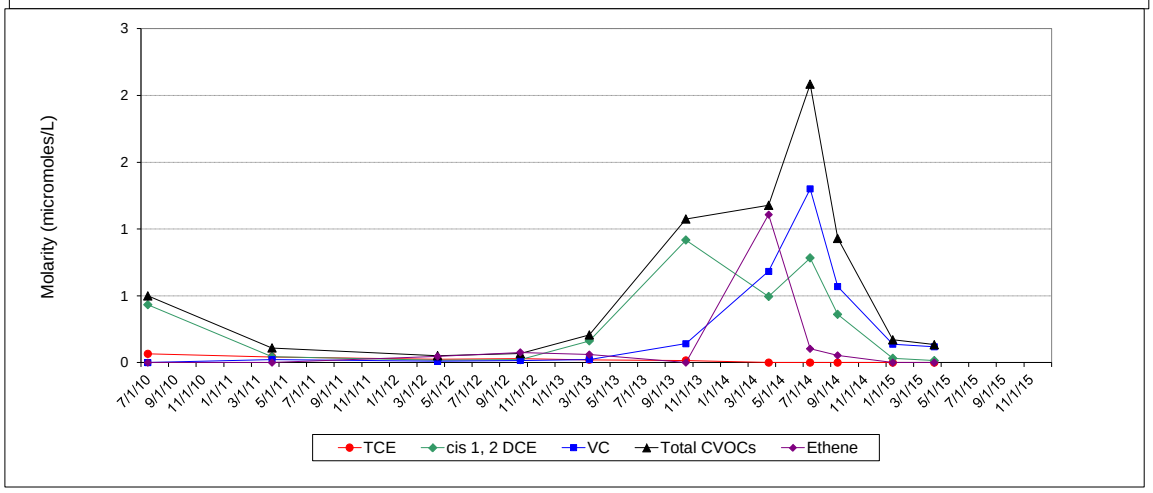


Northern Area Remediation Monitoring Data
MW-560
Former Raytheon Facility, Wayland, MA

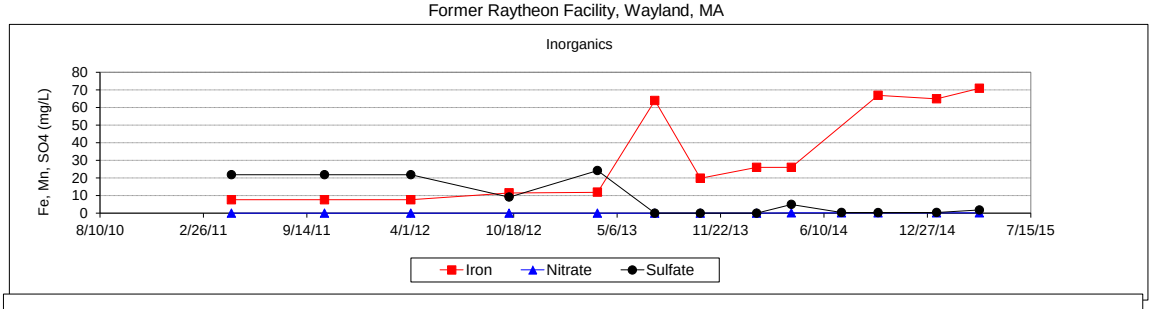


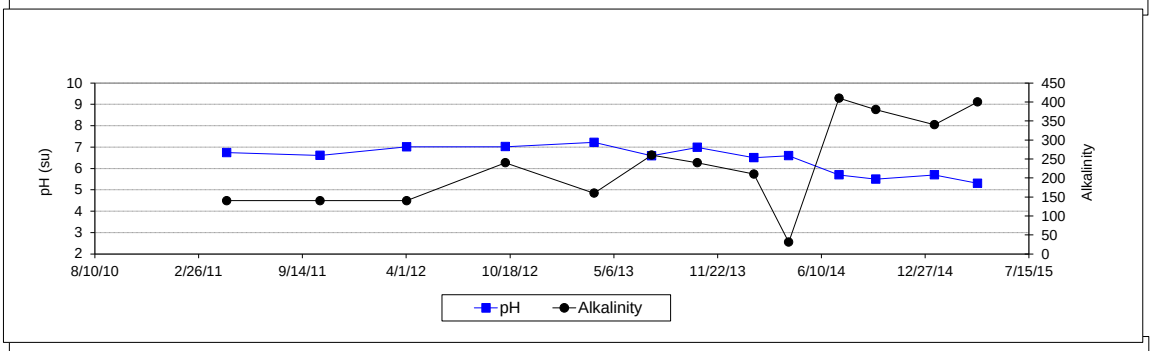


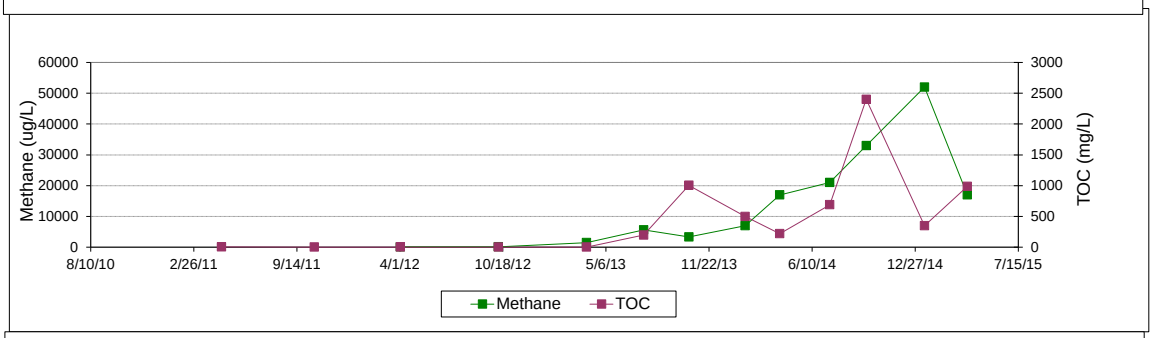


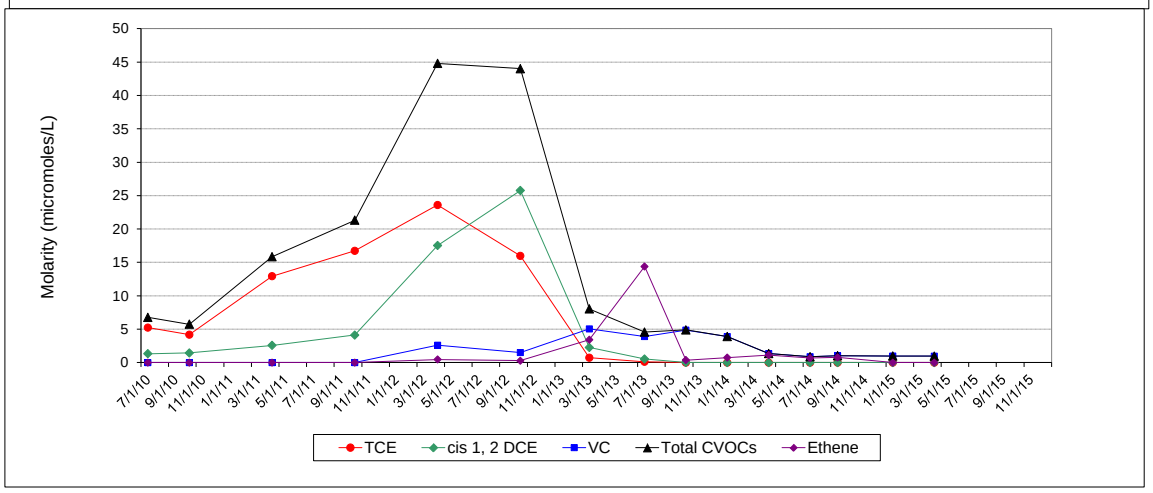


Northern Area Remediation Monitoring Data
MW-561
Former Raytheon Facility, Wayland, MA

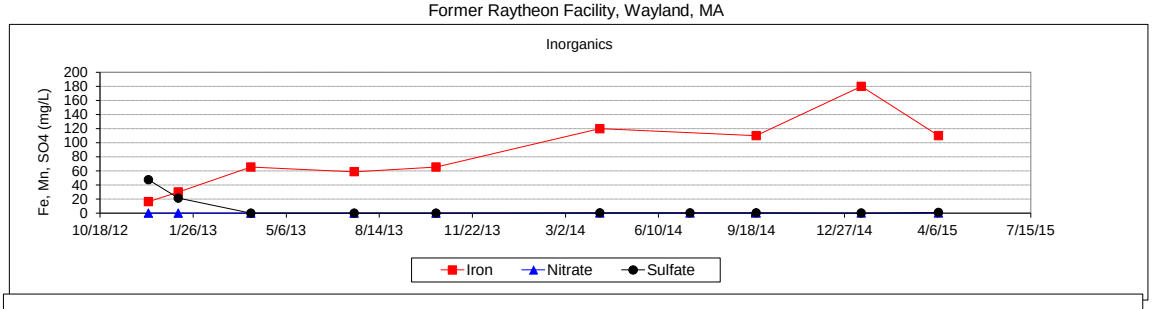


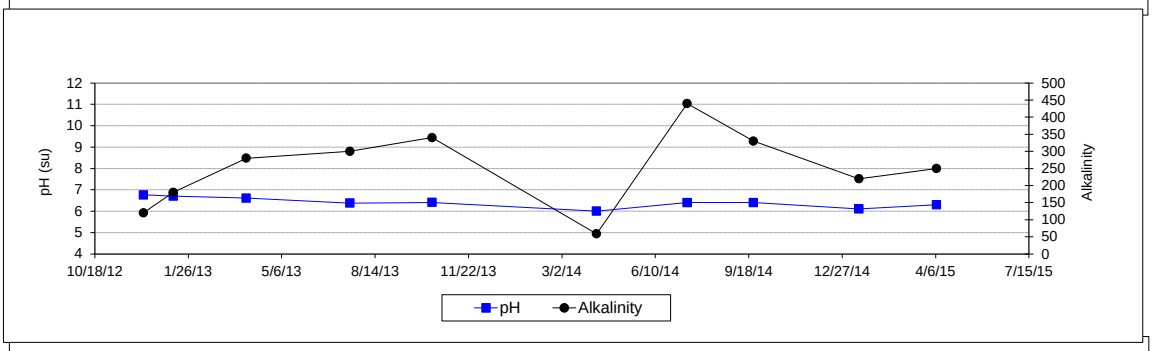


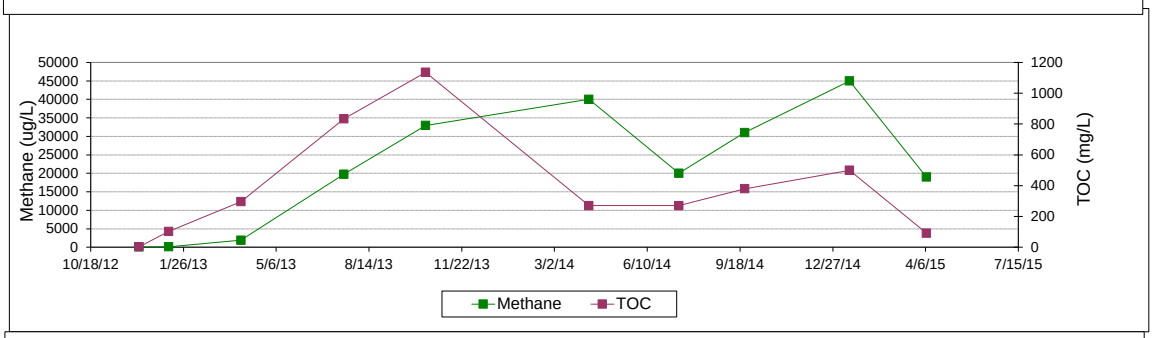


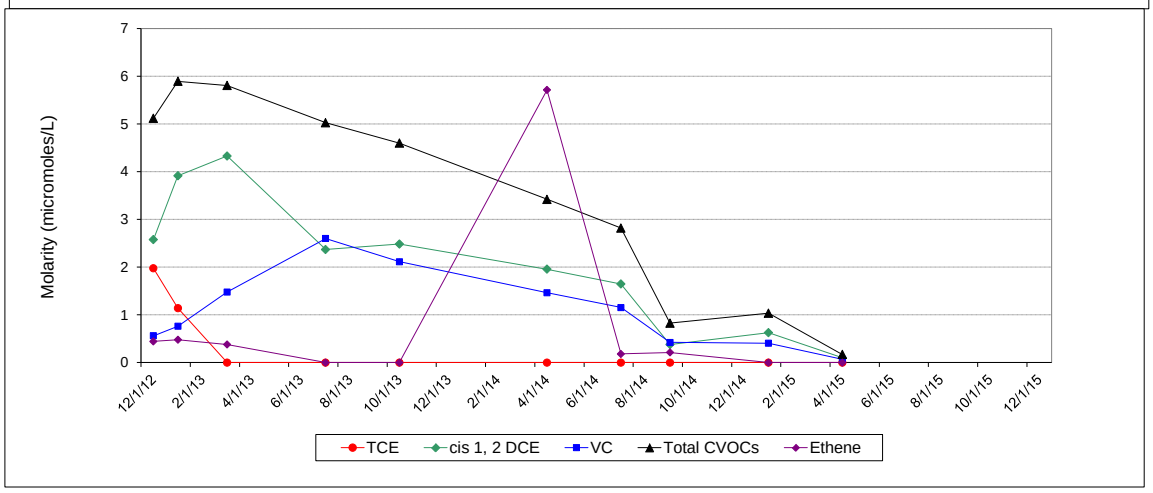


Northern Area Remediation Monitoring Data
MW-563
Former Raytheon Facility, Wayland, MA

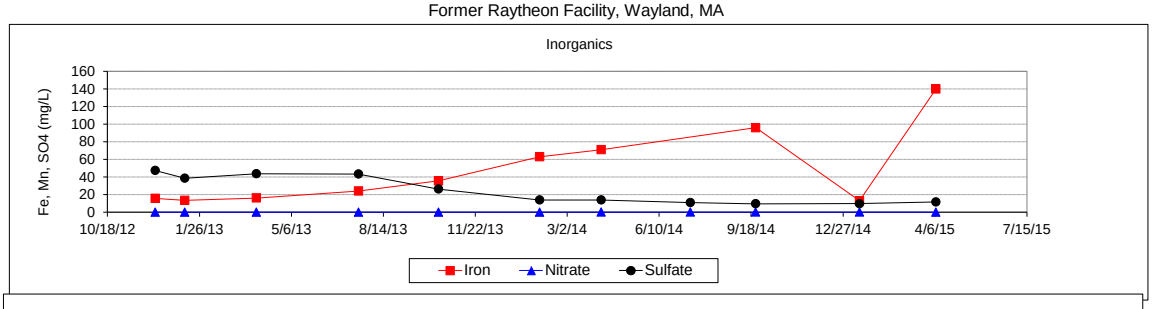


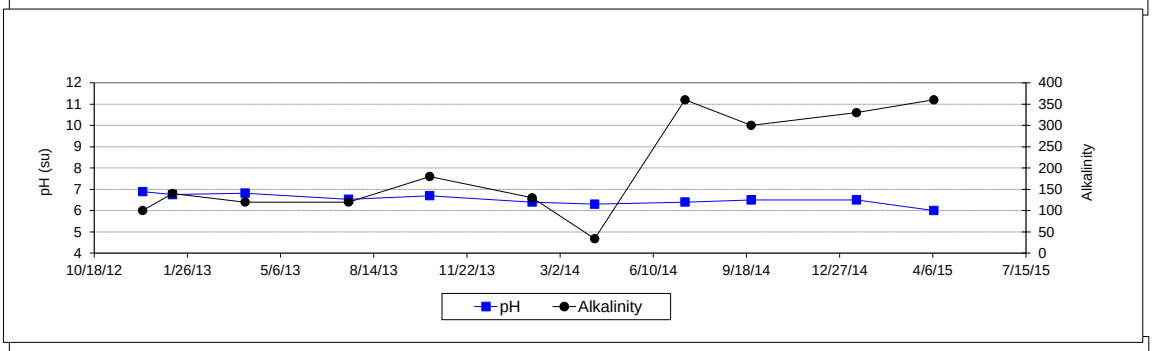


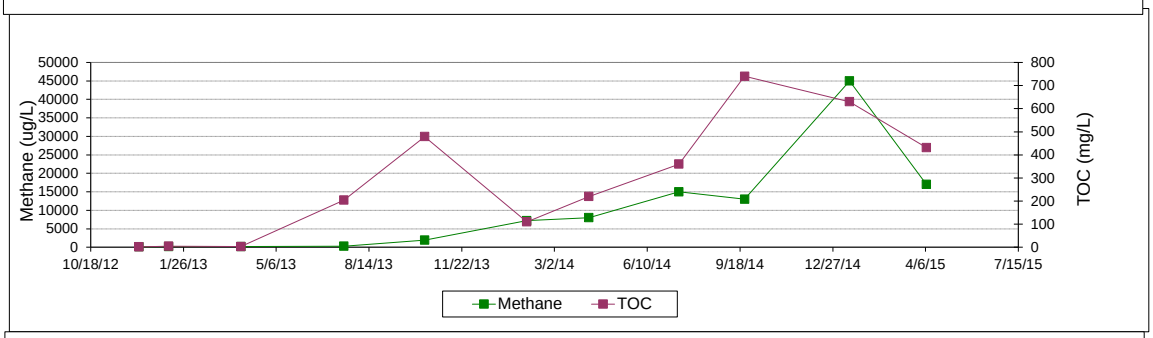


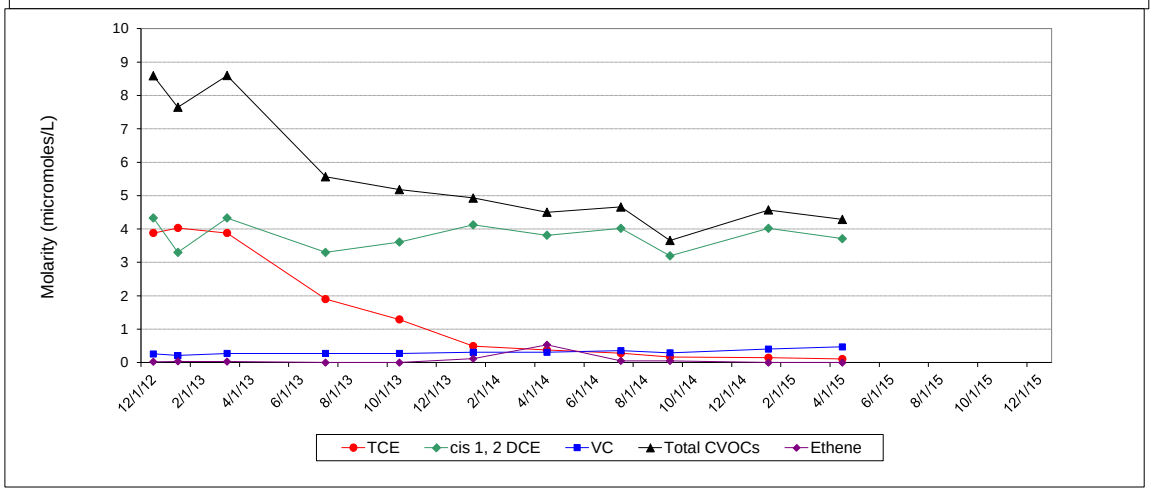


Northern Area Remediation Monitoring Data
REW-6
Former Raytheon Facility, Wayland, MA

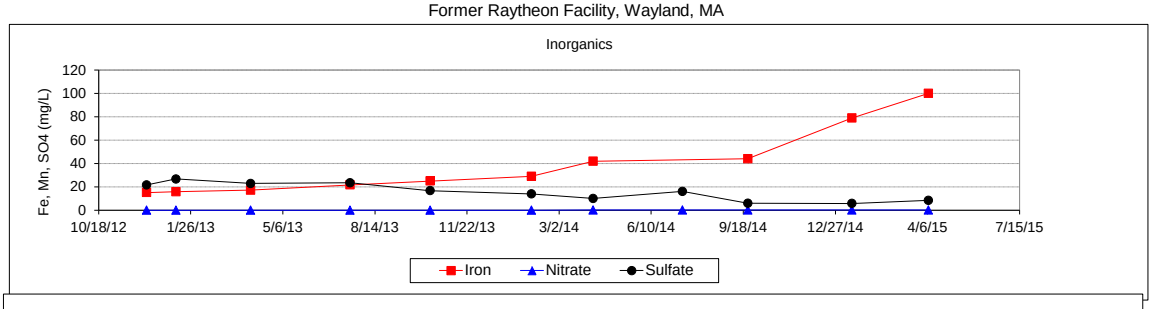


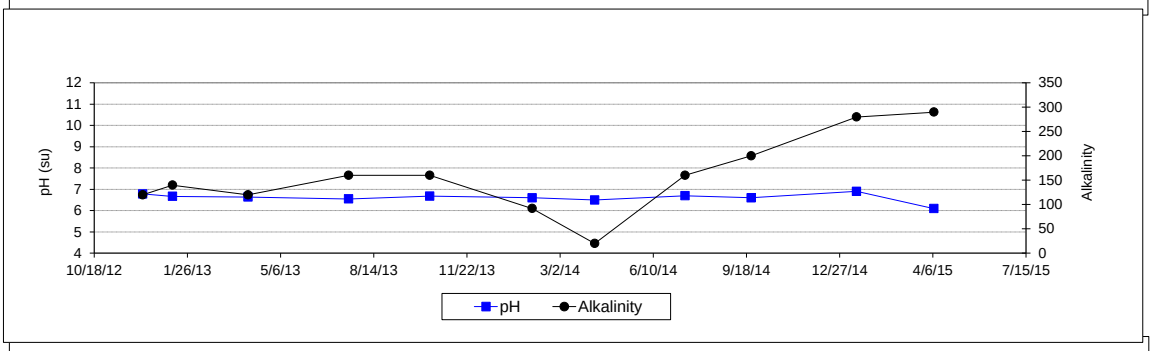


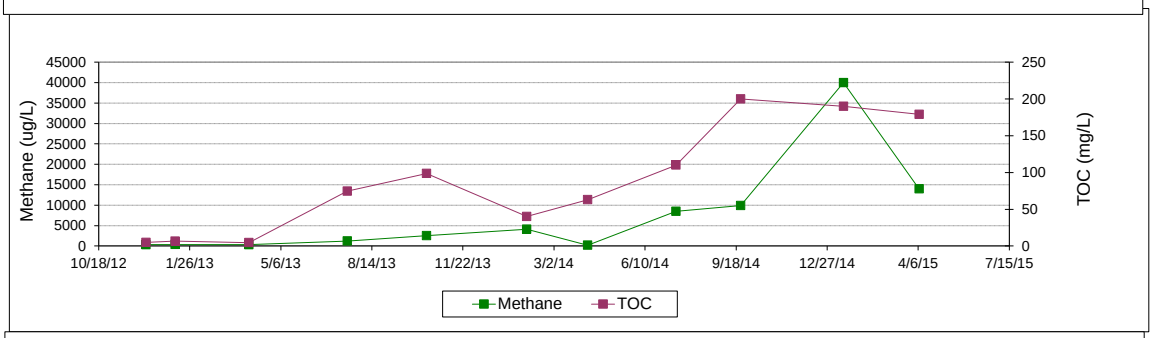


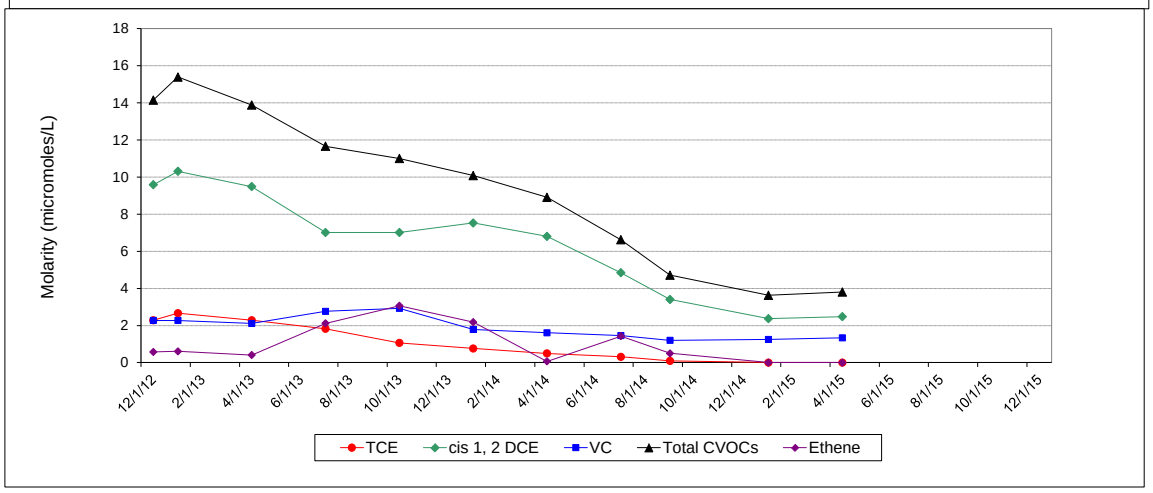


Northern Area Remediation Monitoring Data
REW-7
Former Raytheon Facility, Wayland, MA

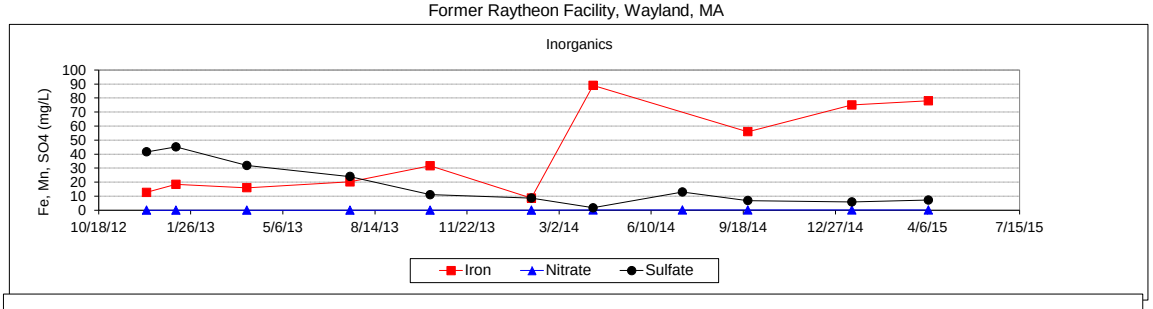


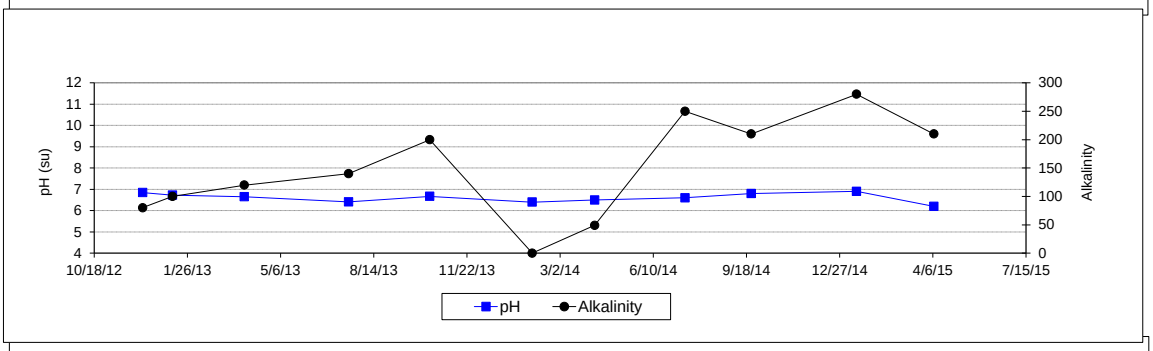


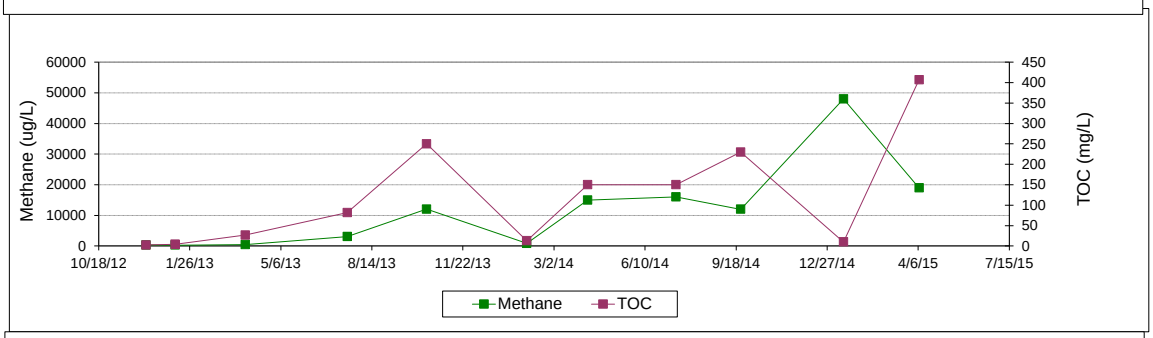


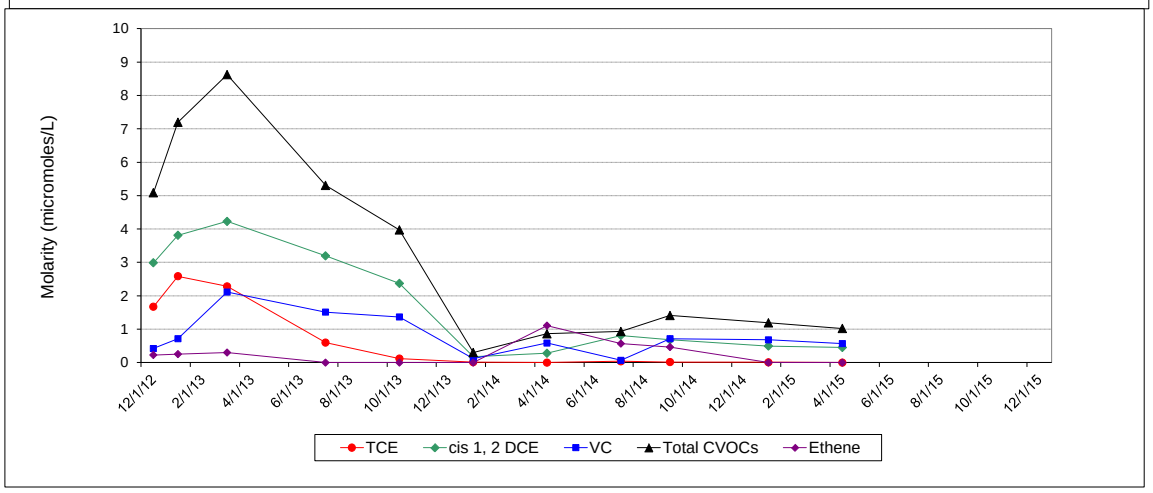


Northern Area Remediation Monitoring Data
REW-8
Former Raytheon Facility, Wayland, MA

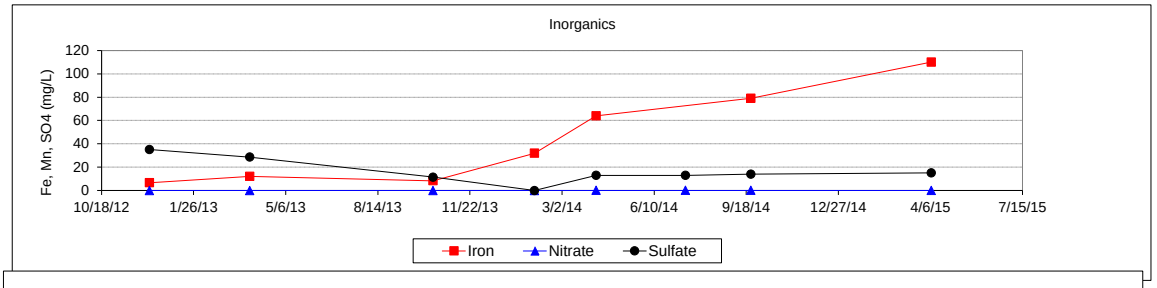


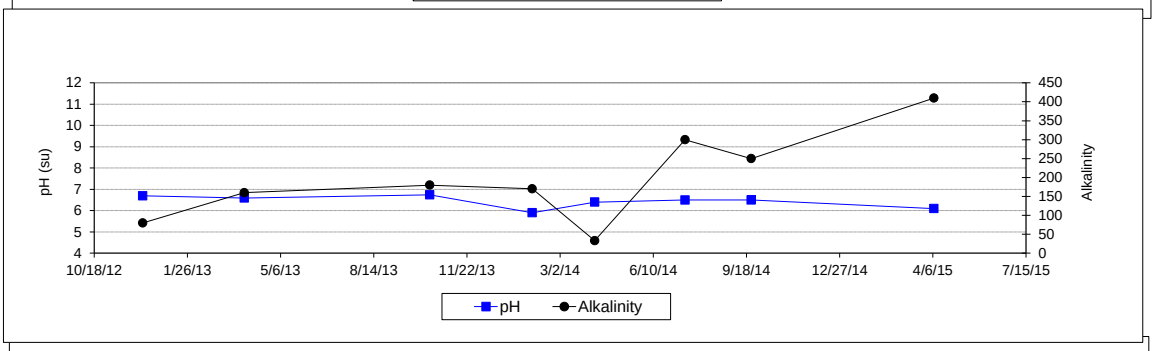


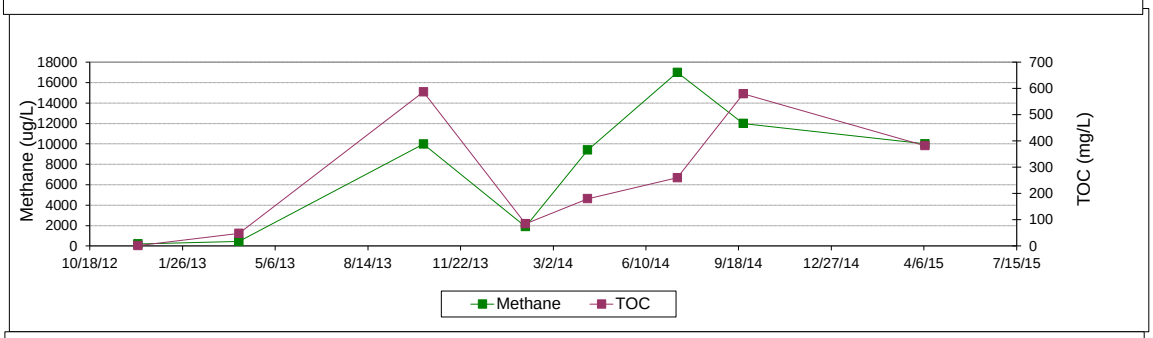


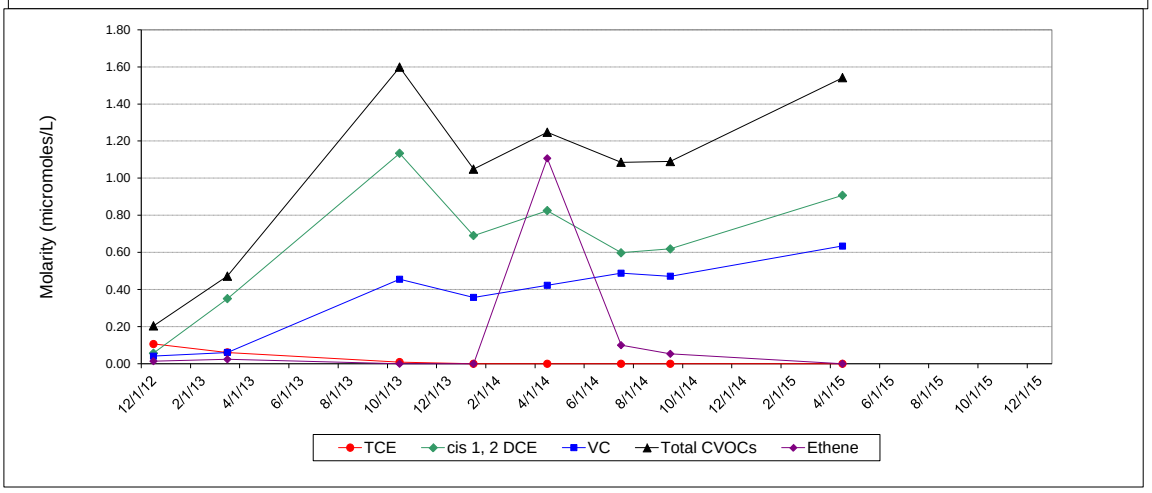


Northern Area Remediation Monitoring Data
REW-9
Former Raytheon Facility, Wayland, MA

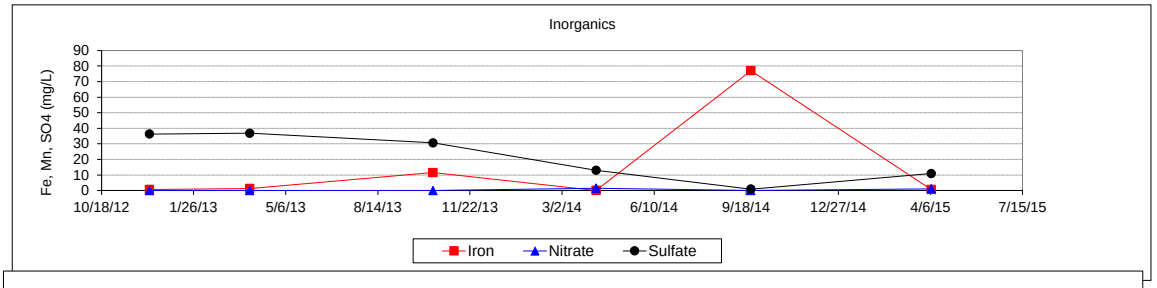


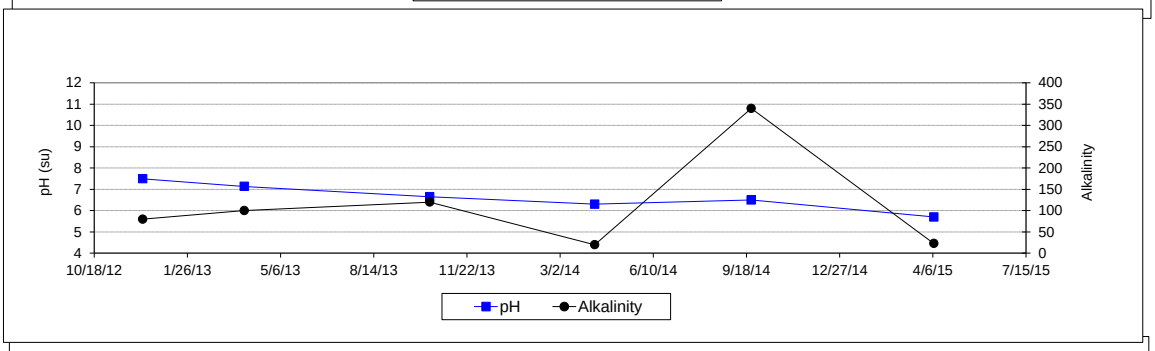


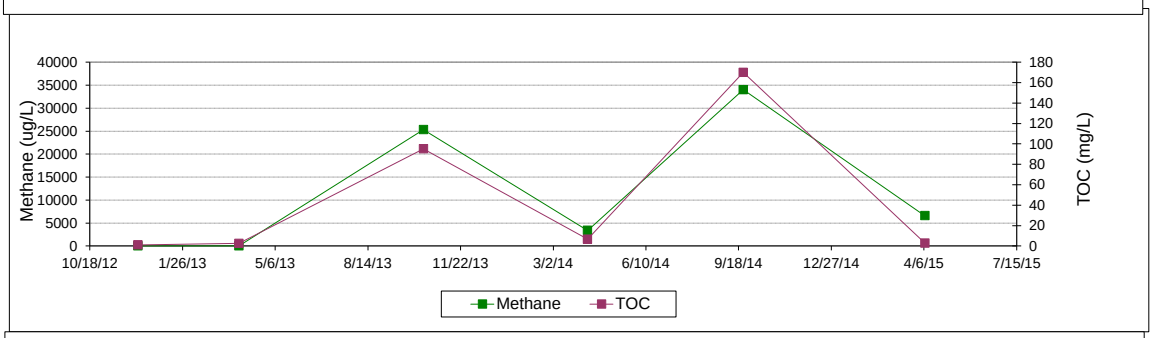


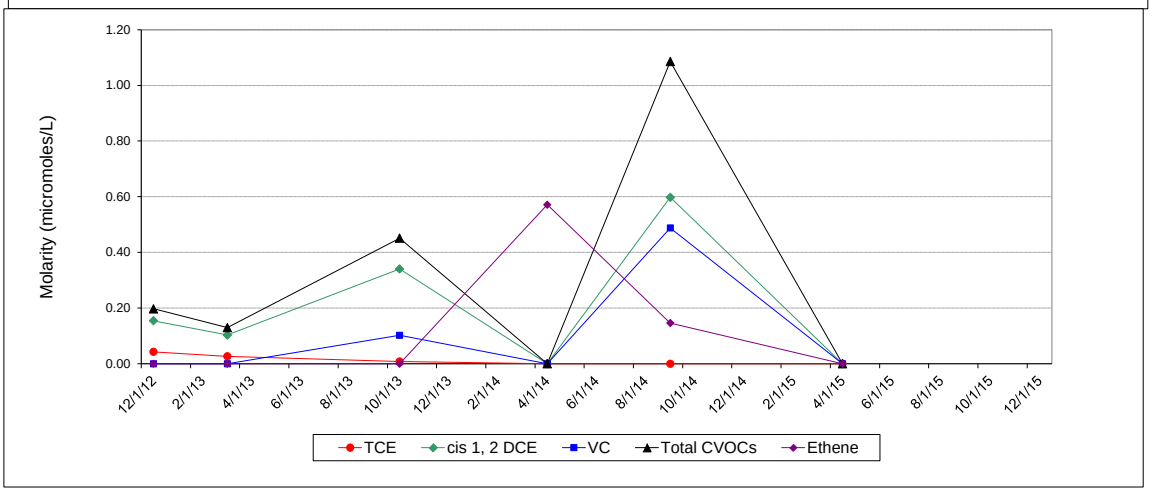


Northern Area Remediation Monitoring Data
REW-10
Former Raytheon Facility, Wayland, MA

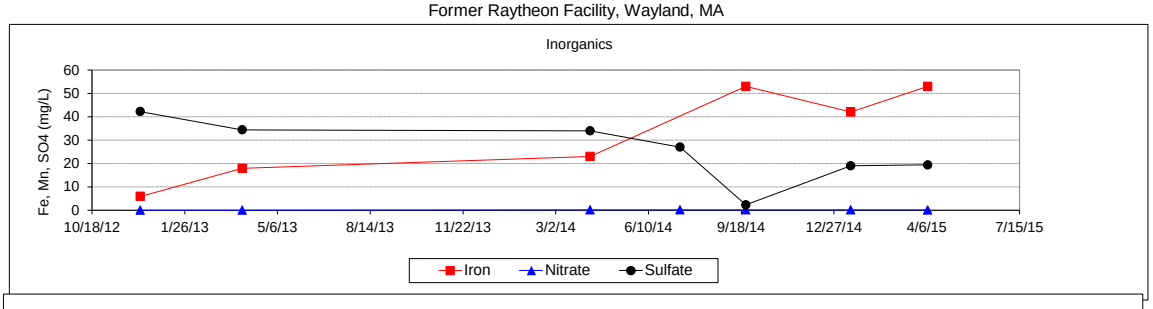


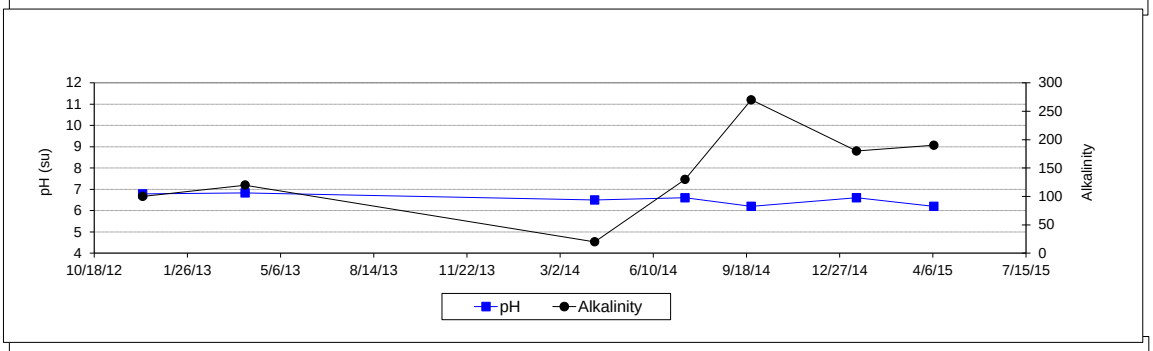


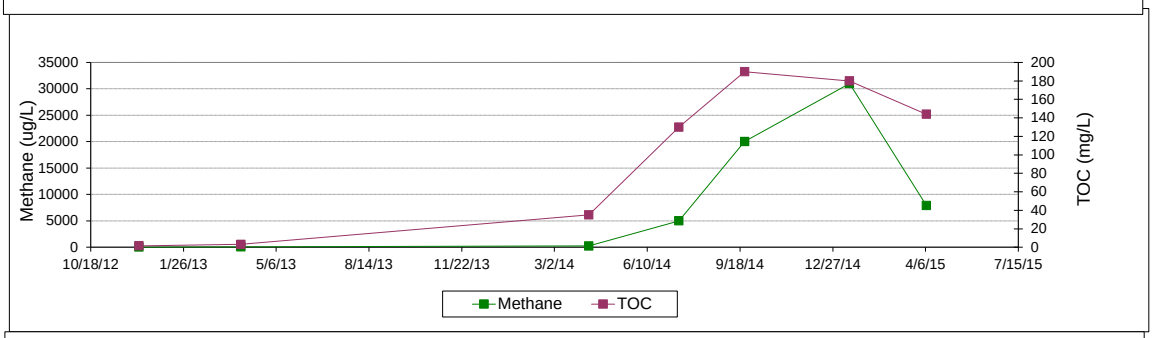


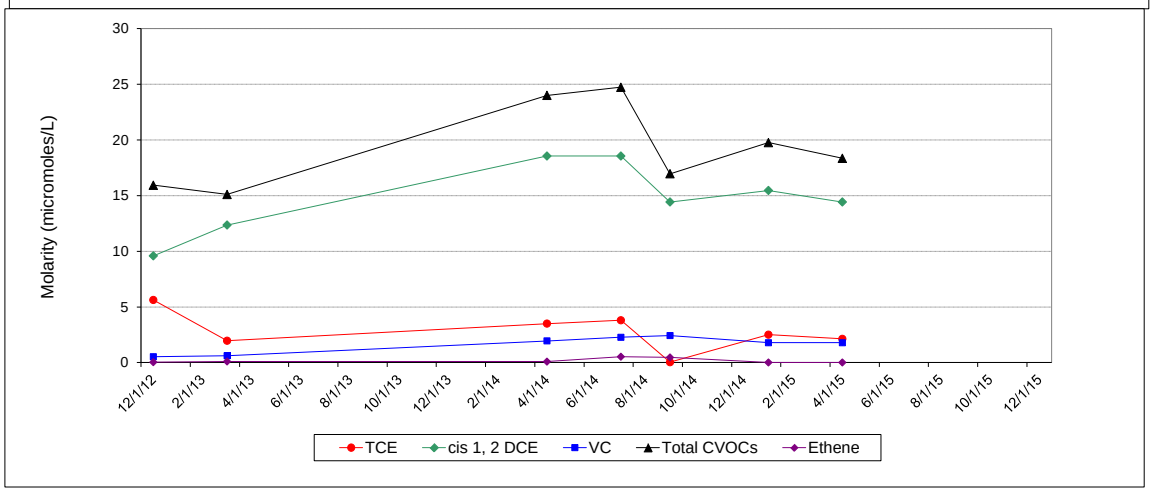


Northern Area Remediation Monitoring Data
REW-11
Former Raytheon Facility, Wayland, MA

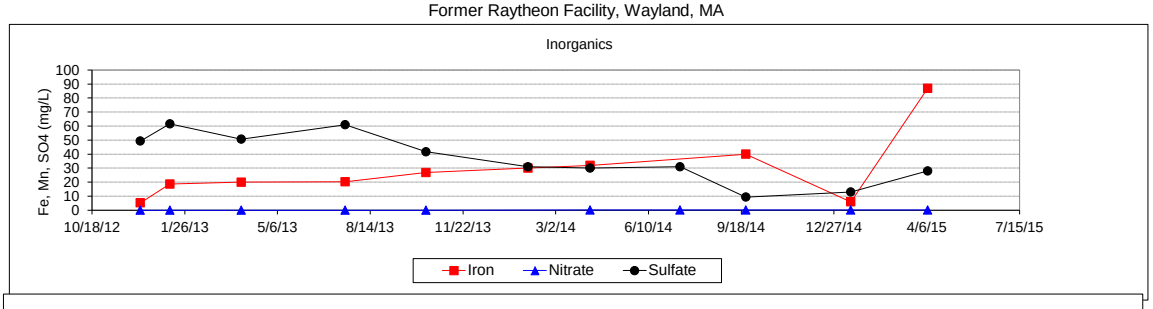


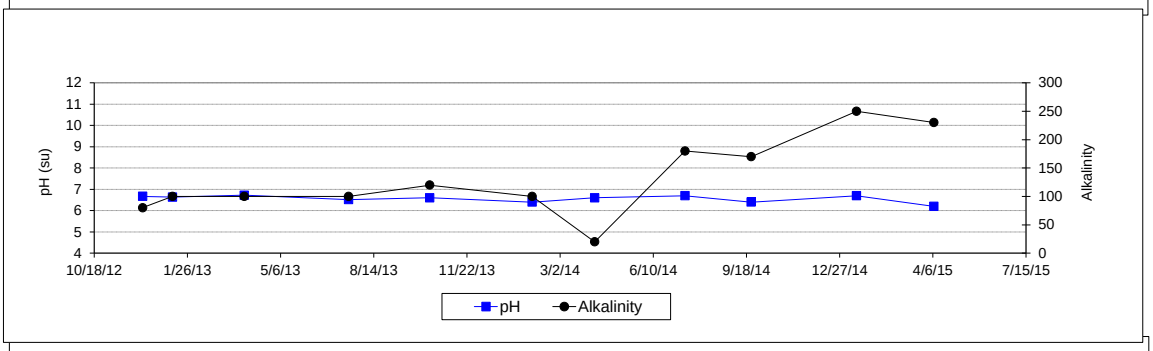


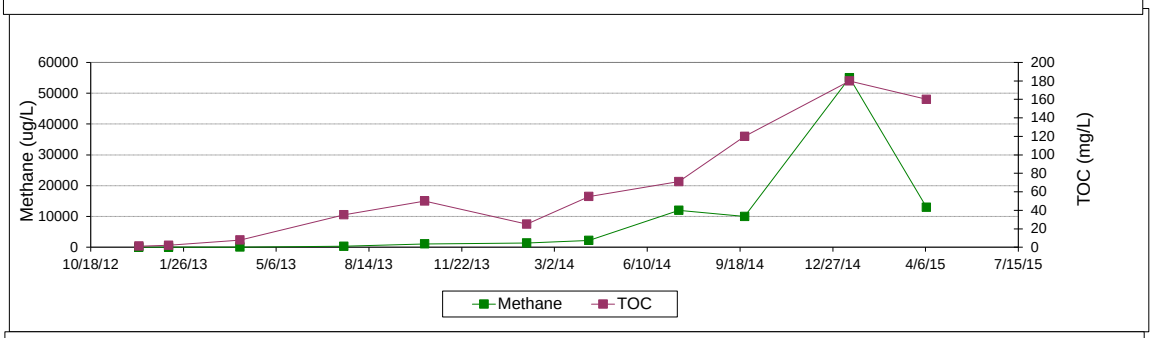


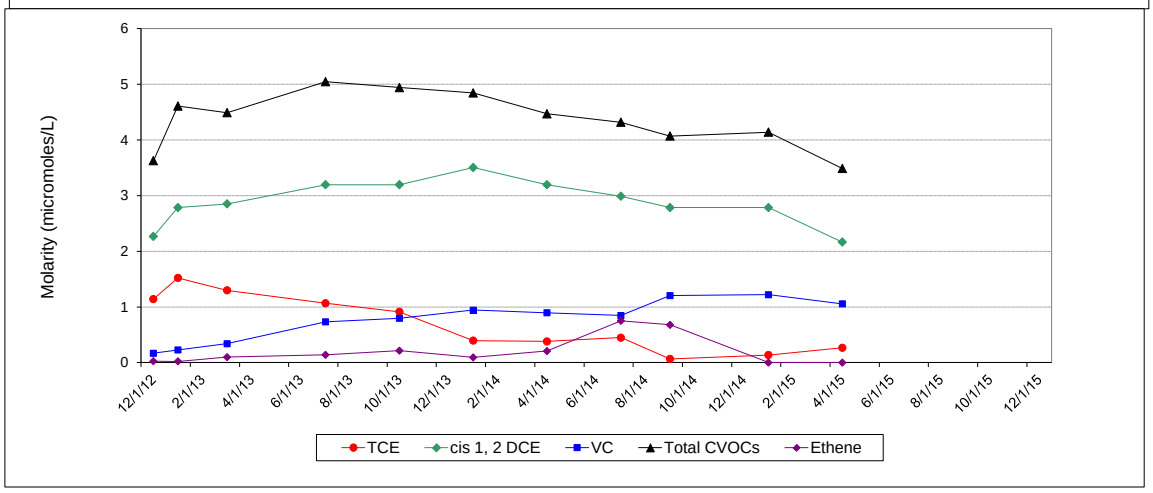


Northern Area Remediation Monitoring Data
REW-12
Former Raytheon Facility, Wayland, MA

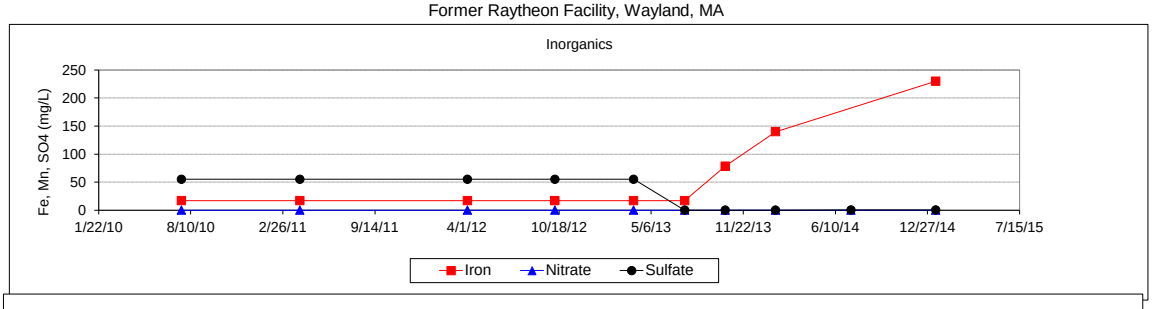


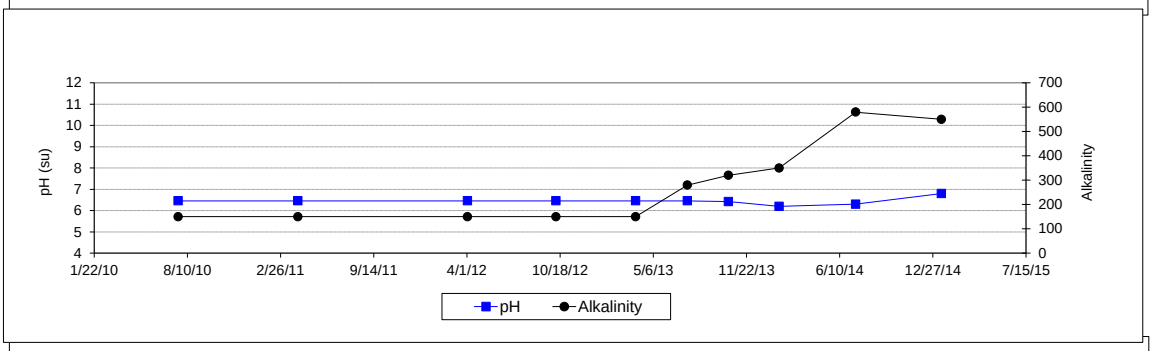


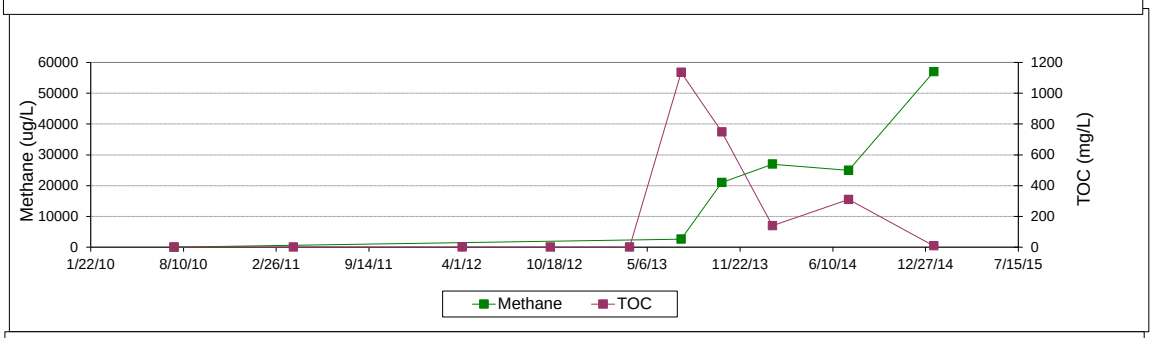


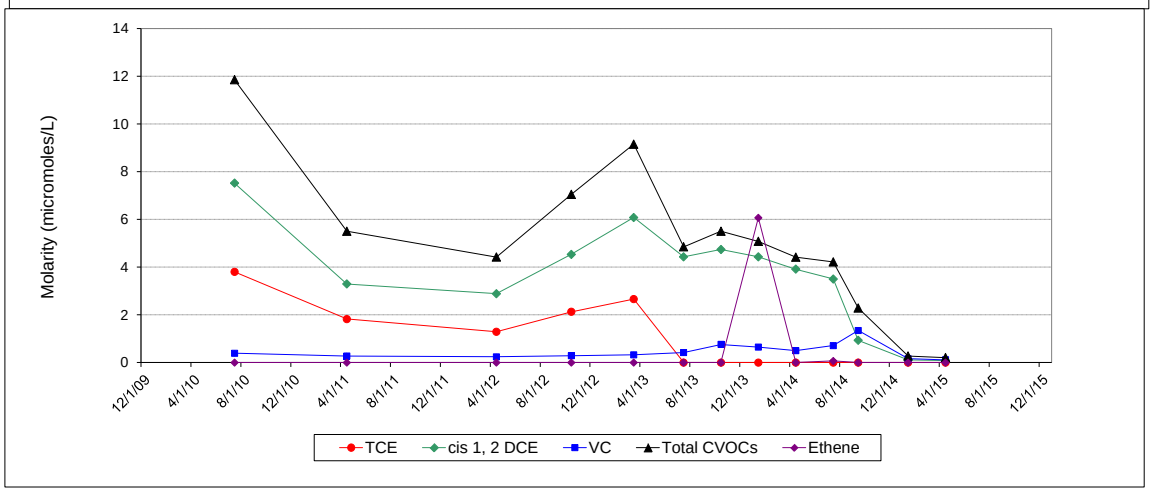


Northern Area Remediation Monitoring Data
MW-267M
Former Raytheon Facility, Wayland, MA

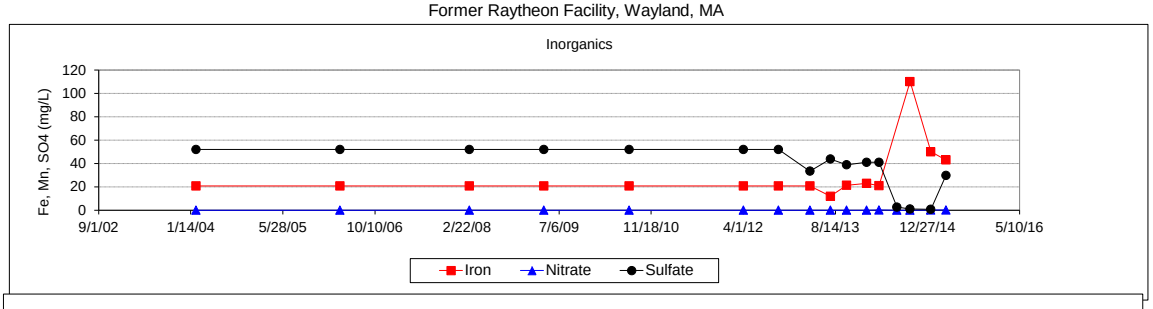


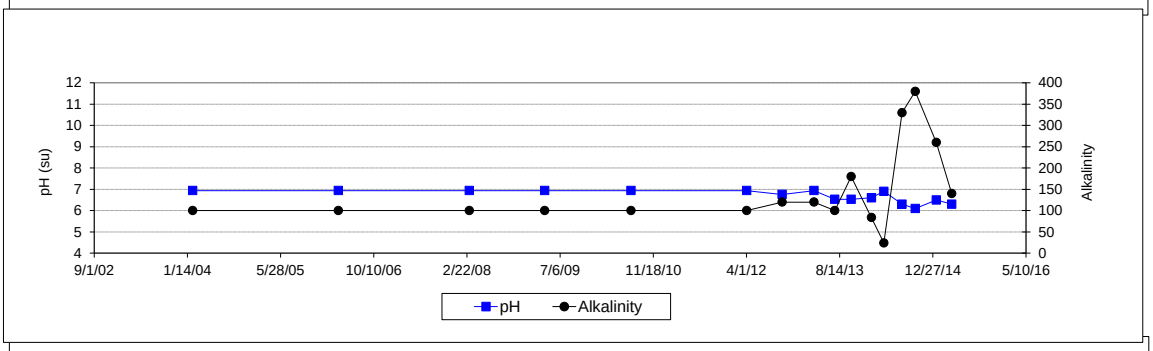


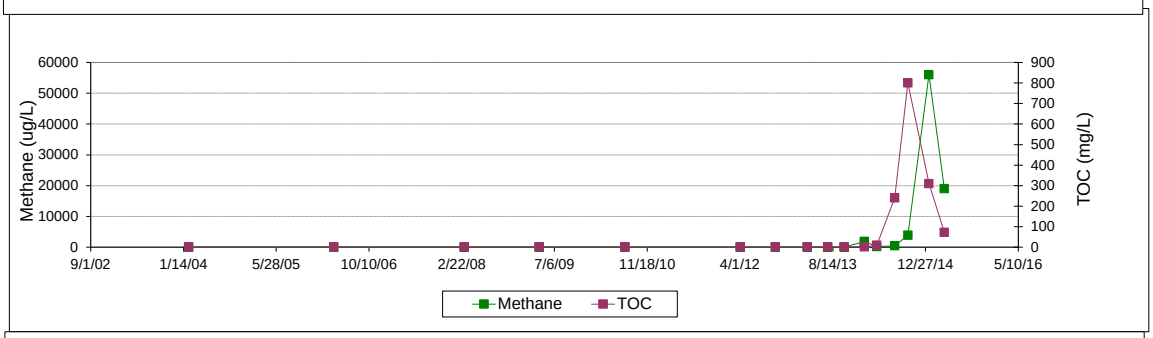


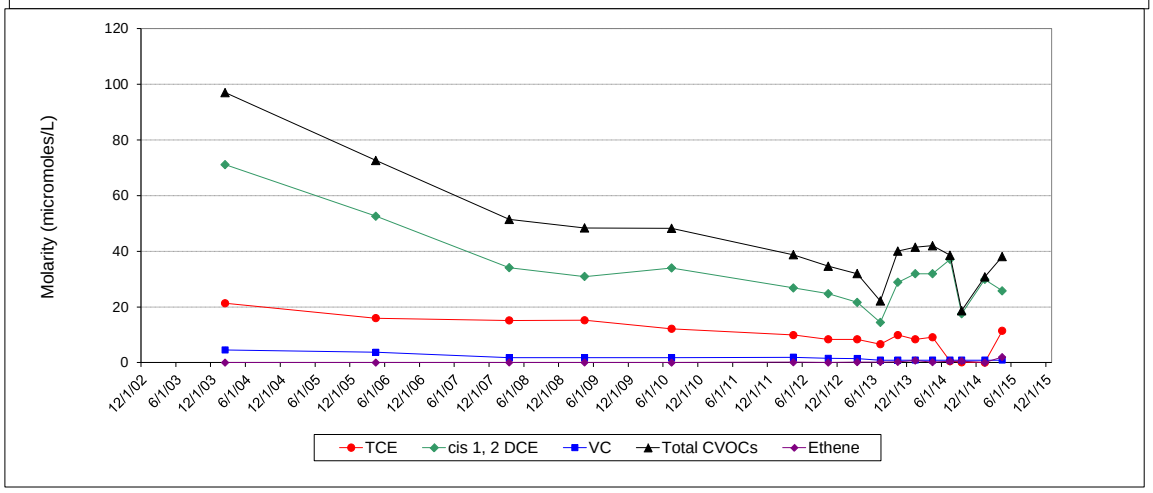


Northern Area Remediation Monitoring Data
MW-268M
Former Raytheon Facility, Wayland, MA









Appendix B
Boring Logs

WELL ID: MW-1035

ERM

Client: Raytheon **Project Name:** Monitoring Wells

Project Number: 0281979.02 **Project Location:** Wayland, Massachusetts

DATE COMPLETED: 12/11/2014 **BORING DIAMETER:** 4 inches

CONTRACTOR: Geosearch, Inc. **WELL DIAMETER:** 2 inches

METHOD: Drive and Wash **WELL DEPTH:** 29.5 feet bgs

LOGGED BY: H. Usle **SURFACE ELEVATION:** ft amsl

NOTES:

GRAPHIC LOG LEGEND

- USCS Poorly-graded Gravel
- USCS Silt
- USCS Poorly-graded Sand
- USCS Low Plasticity Silty Clay
- USCS Silty Sand

DEPTH (ft bgs)	BLOW COUNTS	RECOVERY %	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)	WELL DIAGRAM
0					Soils vacuum cleared from 0 to 8 feet bgs.		
8.0					Drive and wash from 8 to 19 feet bgs. No lithology recorded.		
19.0							
19.5			GP		Varying Colors, FINE GRAVEL, sub-angular granitic, well graded, loose, wet.		
20	11-10-9-8	42	SP		Light Brown, VERY FINE SAND, little silt, silt prevalent at 19.5 feet bgs, poorly graded, loose, wet.	0.0	
21.0							
21.5			SM		Olive Brown, FINE SILTY SAND, well graded, medium plasticity, wet.		
	12-10-10-9	75	ML		Olive Brown, SILT, little fine sand, orange-brown mottling, clay lenses at 21.5 and 22 feet bgs (1-inch thickness), soft to medium stiff, wet.	0.0	
23.0							
	5-8-9-11	50	SP		Light Brown, FINE SAND, some very fine sand, orange-brown mottling, well graded, loose, wet.	0.0	
25							

Bentonite Grout

Bentonite

ERM

WELL ID: MW-1035

Client: Raytheon **Project Name:** Monitoring Wells

Project Number: 0281979.02 **Project Location:** Wayland, Massachusetts

DEPTH (ft bgs)	BLOW COUNTS	RECOVERY %	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)	WELL DIAGRAM
25							
	4-6-7-7	25	SP		Light Brown, FINE SAND, some very fine sand, orange-brown mottling, well graded, loose, wet. *(continued)*	0.0	Filter Sand; 5' SCH 40 PVC Screen (0.010" slot)
	7-7-8-9	75			28.0	4.0	
			ML		Light Brown, SILT, little fine sand, well graded, soft, non-plastic, wet. 28.8		
30	4-3-2-3	58	ML		Olive Gray to Light Gray, SILT, interbedded some clay, poorly graded, low plasticity, wet. 31.0	3.2	Filter Sand
					Bottom of boring at 31.0 ft.		
35							
40							
45							
50							

ERM

WELL ID: MW-1036

Client: Raytheon **Project Name:** Monitoring Wells

Project Number: 0281979.02 **Project Location:** Wayland, Massachusetts

DATE COMPLETED: 12/15/2014 **BORING DIAMETER:** 4 inches

CONTRACTOR: Geosearch, Inc. **WELL DIAMETER:** 2 inches

METHOD: Drive and Wash **WELL DEPTH:** 38 feet bgs

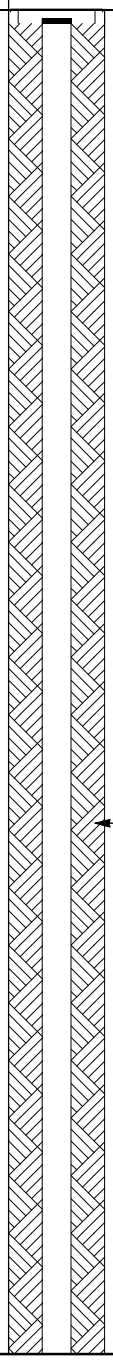
LOGGED BY: A. Nelson **SURFACE ELEVATION:** ft amsl

NOTES:

GRAPHIC LOG LEGEND

- USCS Poorly-graded Sand
- USCS Low Plasticity Silty Clay
- USCS Silty Sand
- USCS Poorly-graded Sand with Silt

DEPTH (ft bgs)	BLOW COUNTS	RECOVERY %	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)	WELL DIAGRAM
0					Soils vacuum cleared from 0 to 8 feet bgs.		
8.0					Drive and wash from 8 to 30 feet bgs. No lithology recorded.		



ERM

WELL ID: MW-1036

Client: Raytheon **Project Name:** Monitoring Wells

Project Number: 0281979.02 **Project Location:** Wayland, Massachusetts

DEPTH (ft bgs)	BLOW COUNTS	RECOVERY %	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)	WELL DIAGRAM
25					Drive and wash from 8 to 30 feet bgs. No lithology recorded. *(continued)*		
30					30.0		
	9-10-7-8	50	SP		30.3 Light Brown, FINE SAND, medium dense, wet.		Bentonite
			SM		Gray, SILT, interbedded trace clay, poorly graded, soft, wet.		
	8-7-7-8	67			33.5	15	Filter Sand
			SP-SM		34.0 Gray, FINE SAND, some silt, poorly graded, medium dense, wet.	63	
35	6-4-4-8	67	CL		Gray, CLAYEY SILT, interbedded trace fine sand, interbedded sandy units (1- to 3-inches thick), poorly graded, stiff, moist.	27	5' SCH 40 PVC Screen (0.010" slot)
					36.2		
	5-4-4-6	67	SP		Light Gray, FINE SAND, trace clay and silt, angular gravel clast at top (1-inch diameter), poorly graded, dense, non-plastic, wet.		
					38.0		
	2-2-2-4	71	ML		Gray, SILT, interbedded little clay, orthoclase feldspar granite drop stone at top; trace fine sand lenses, poorly graded, stiff, low plasticity, wet.		Filter Sand
40					40.0		
					Bottom of boring at 40.0 ft.		
45							
50							

WELL ID: MW-1037

ERM

Client: Raytheon **Project Name:** Monitoring Wells

Project Number: 0281979.02 **Project Location:** Wayland, Massachusetts

DATE COMPLETED: 12/12/2014 **BORING DIAMETER:** 4 inches

CONTRACTOR: Geosearch, Inc. **WELL DIAMETER:** 2 inches

METHOD: Drive and Wash **WELL DEPTH:** 28 feet bgs

LOGGED BY: H. Usle **SURFACE ELEVATION:** ft amsl

NOTES:

GRAPHIC LOG LEGEND

- USCS Poorly-graded Sand
- USCS Low Plasticity Silty Clay
- USCS Poorly-graded Sand with Silt
- USCS Silty Sand

DEPTH (ft bgs)	BLOW COUNTS	RECOVERY %	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)	WELL DIAGRAM
0					Soils vacuum cleared from 0 to 8 feet bgs.		
8.0					Drive and wash from 8 to 20 feet bgs. No lithology recorded.		
20.0							Bentonite Grout
	10-7-6-6	54	SP		Light Olive Brown, FINE TO VERY FINE SAND, trace sand, silt layer (1-inch thick) at 22.5 feet bgs, poorly graded, loose, wet.	0.0	Bentonite
	9-11-14-16	42				0.0	Filter Sand
24.0			SP-SM		Light Brown, FINE SAND, some silt, poorly graded, loose, wet.		
25.0							

ERM

WELL ID: MW-1037

Client: Raytheon **Project Name:** Monitoring Wells

Project Number: 0281979.02 **Project Location:** Wayland, Massachusetts

DEPTH (ft bgs)	BLOW COUNTS	RECOVERY %	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)	WELL DIAGRAM
25	4-5-7-8	58	SM		Olive Brown, SILT, little fine sand, poorly graded, soft, non-plastic, wet.	0.0	5' SCH 40 PVC Screen (0.010" slot)
			SP		26.0 Light Brown, FINE SAND, sub-angular trace coarse grains, loose, wet.		
	7-6-7-7	75	SM		26.5 Olive Brown, SILT, little fine sand, well graded, soft, low plasticity, wet.	0.1	
			ML		27.5 Light Gray, SILT, interbedded some clay, poorly graded, soft, low plasticity, wet.		
	5-7-7-7	29				0.0	Filter Sand
30					30.0 Bottom of boring at 30.0 ft.		
35							
40							
45							
50							

WELL ID: MW-1038

ERM

Client: Raytheon **Project Name:** Monitoring Wells

Project Number: 0281979.02 **Project Location:** Wayland, Massachusetts

DATE COMPLETED: 12/15/2014 **BORING DIAMETER:** 4 inches

CONTRACTOR: Geosearch, Inc. **WELL DIAMETER:** 2 inches

METHOD: Drive and Wash **WELL DEPTH:** 29 feet bgs

LOGGED BY: A. Nelson **SURFACE ELEVATION:** ft amsl

NOTES:

GRAPHIC LOG LEGEND

- USCS Poorly-graded Sand
- USCS Poorly-graded Sand with Silt
- USCS Low Plasticity Silty Clay

DEPTH (ft bgs)	BLOW COUNTS	RECOVERY %	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)	WELL DIAGRAM
0					Soils vacuum cleared from 0 to 8 feet bgs.		
8.0					Drive and wash from 8 to 20 feet bgs. No lithology recorded.		Bentonite Grout
20					20.0		
	10-15-10-8	50	SP		Light Brown, SILTY CLAY, trace fine sand, stiff, wet. 21.0		
	4-8-9-12	58	SP		Grayish Brown, VERY FINE TO FINE SAND, trace silt, well sorted, dense, wet. 24.0		Bentonite Filter Sand
25			SP-SM		Orange Brown, VERY FINE SAND, dense, wet.		

ERM

WELL ID: MW-1038

Client: Raytheon **Project Name:** Monitoring Wells

Project Number: 0281979.02 **Project Location:** Wayland, Massachusetts

DEPTH (ft bgs)	BLOW COUNTS	RECOVERY %	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)	WELL DIAGRAM
25	4-5-6-10	50	SP		25.5 Gray, VERY FINE SAND, some silt, dense, wet. 26.5		
	14-14-12-11	0	ML		Gray, CLAYEY SILT, silt-rich lenses, stiff, moist.		5' SCH 40 PVC Screen (0.010" slot)
30	5-5-9-7	50			30.0		Filter Sand
					Bottom of boring at 30.0 ft.		
35							
40							
45							
50							

ERM

WELL ID: MW-1039

Client: Raytheon **Project Name:** Monitoring Wells

Project Number: 0281979.02 **Project Location:** Wayland, Massachusetts

DATE COMPLETED: 12/15/2014 **BORING DIAMETER:** 4 inches

CONTRACTOR: Geosearch, Inc. **WELL DIAMETER:** 2 inches

METHOD: Geoprobe **WELL DEPTH:** 39 feet bgs

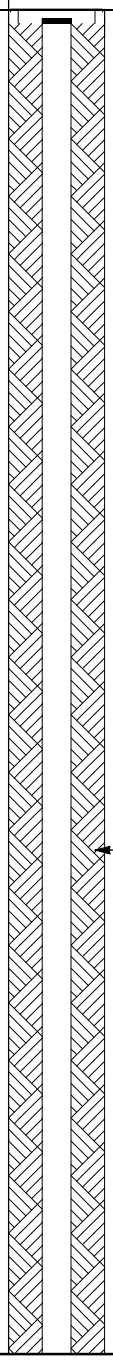
LOGGED BY: A. Nelson **SURFACE ELEVATION:** ft amsl

NOTES:

GRAPHIC LOG LEGEND

- USCS Poorly-graded Sand
- USCS Poorly-graded Sand with Silt
- USCS Low Plasticity Clay
- USCS Silt
- USCS Low Plasticity Silty Clay

DEPTH (ft bgs)	BLOW COUNTS	RECOVERY %	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)	WELL DIAGRAM
0					Soils vacuum cleared from 0 to 8 feet bgs.		
8.0					Direct-push from 8 to 30 feet bgs. No lithology recorded.		



ERM

WELL ID: MW-1039

Client: Raytheon **Project Name:** Monitoring Wells

Project Number: 0281979.02 **Project Location:** Wayland, Massachusetts

DEPTH (ft bgs)	BLOW COUNTS	RECOVERY %	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)	WELL DIAGRAM
25					Direct-push from 8 to 30 feet bgs. No lithology recorded. *(continued)*		
30					30.0		
			SP		Gray, MEDIUM TO COARSE SAND, sub-rounded and gravel, fining upward sequence; gravel at base, well graded, loose, wet.		
		90			31.7		Bentonite
			CL		Gray, SILTY CLAY, interbedded gravel at contact, very stiff, wet.		
					33.7		Filter Sand
35			SP		Gray, VERY FINE SAND, little clay and silt, intermittent clay-rich lenses, dense, wet.		
					36.5		5' SCH 40 PVC Screen (0.010" slot)
		47	ML		Gray, CLAYEY SILT, trace fine sand, stiff, wet.		
					39.0		
40			SP-SM		Olive Gray, SILTY FINE SAND, and clay, stiff, wet.		2" SCH 40 PVC Sump
					41.5		
		70	SP-SM		Olive Gray, VERY FINE SAND, some silt, dense, wet.		
					43.0		Filter Sand
			ML		Olive Gray, SANDY SILT, stiff, wet.		
45					45.0		
					Bottom of boring at 45.0 ft.		
50							

Appendix C
Laboratory Analytical 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: 480-77462-1
Client Project/Site: IDS Wayland

For:
ERM-Northeast
One Beacon Steet
5th Floor
Boston, Massachusetts 02108

Attn: Lyndsey Colburn

Authorized for release by:
4/8/2015 3:55:22 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
F1	MS and/or MSD Recovery 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
CFL	Contains Free Liquid
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: 480-77462-1

Laboratory: TestAmerica Buffalo

Narrative

Comments

Due to the dilutions required, per question G on the MassDEP Analytical Protocol Certification Form, the CAM reporting limits specified in this CAM protocol could not be achieved for some or all samples/analytes.

Receipt

The samples were received on 4/1/2015 at 2:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.2º C.

GC/MS VOA

Method 8260C: 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-Amyl Methyl Ether and Tetrahydrofuran.

Method 8260C: The laboratory control sample (LCS) and the laboratory control sample duplicate (LCSD) for batches 233417 and 233650 exceeded control limits for 2-Butanone and 2 Hexanone. Unlike the calibration standards, this is due to the coelution with Ethyl Acetate and N-Butyl 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 continuing calibration verification (CCV) for Acetone, Chloroethane and Napthalene associated with batch 233650 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. The following samples were impacted: DUP-001-20150331-01 (480-77462-30), DUP-003-20150331-01 (480-77462-17), MW-1001M-20150331-01 (480-77462-29), MW-1003-20150331-01 (480-77462-27), MW-1004-20150331-01 (480-77462-25), MW-1005-20150331-01 (480-77462-24), MW-1006-20150331-01 (480-77462-28), MW-1008-20150331-01 (480-77462-26), MW-1009-20150331-01 (480-77462-23), MW-1010M-20150331-01 (480-77462-22), MW-1023-20150331-01 (480-77462-19), MW-1025D-20150331-01 (480-77462-18) and TB-001-20150331-01 (480-77462-20).

Method 8260C: The laboratory control sample duplicate (LCSD) for batch 233650 exceeded control limits for the following analyte: Dichlorofluoromethane. MCP protocol allows for 10% of the target compounds to be outside of the limits provided the recoveries are over 10%. The following samples were impacted: DUP-001-20150331-01 (480-77462-30), DUP-003-20150331-01 (480-77462-17), MW-1001M-20150331-01 (480-77462-29), MW-1003-20150331-01 (480-77462-27), MW-1004-20150331-01 (480-77462-25), MW-1005-20150331-01 (480-77462-24), MW-1006-20150331-01 (480-77462-28), MW-1008-20150331-01 (480-77462-26), MW-1009-20150331-01 (480-77462-23), MW-1010M-20150331-01 (480-77462-22), MW-1023-20150331-01 (480-77462-19), MW-1025D-20150331-01 (480-77462-18) and TB-001-20150331-01 (480-77462-20).

Method 8260C: The following sample was diluted to bring the concentration of target analytes within the calibration range: DUP-003-20150331-01 (480-77462-17). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

MassDEP Analytical Protocol Certification Form

Laboratory Name: **TestAmerica Buffalo** Project #: **480-77462-1**

Project Location: **IDS Wayland** RTN:

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

480-77462-1 [1-30]

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 ☐	9012 / 9014/ 4500CN 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, TestAmerica Westfield

Printed Name: Richard Emerich Date: 4/8/15 15:48

This form has been electronically signed and approved.

Detection Summary

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-77462-1

Client Sample ID: MW-217D-20150331-01 — Lab Sample ID: 480-77462-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Trichloroethene	1.4		1.0		ug/L	1		8260C	Total/NA

Client Sample ID: MW-217S-20150331-01 — Lab Sample ID: 480-77462-2

No Detections.

Client Sample ID: MW-217M-20150331-01 — Lab Sample ID: 480-77462-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	2.4		1.0		ug/L	1		8260C	Total/NA
1,2-Dichlorobenzene	1.2		1.0		ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	1.0		1.0		ug/L	1		8260C	Total/NA
Methyl tert-butyl ether	7.6		1.0		ug/L	1		8260C	Total/NA
Tert-amyl methyl ether	7.9		5.0		ug/L	1		8260C	Total/NA
Trichloroethene	7.6		1.0		ug/L	1		8260C	Total/NA

Client Sample ID: MW-1019B-20150331-01 — Lab Sample ID: 480-77462-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Trichloroethene	2.3		1.0		ug/L	1		8260C	Total/NA

Client Sample ID: MW-1015D-20150331-01 — Lab Sample ID: 480-77462-5

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
Tetrachloroethene	1.2		1.0		ug/L	1		8260C	Total/NA
Trichloroethene	18		1.0		ug/L	1		8260C	Total/NA

Client Sample ID: DUP-002-20150331-01 — Lab Sample ID: 480-77462-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	15		1.0		ug/L	1		8260C	Total/NA
Trichloroethene	5.3		1.0		ug/L	1		8260C	Total/NA

Client Sample ID: MW-1016D-20150331-01 — Lab Sample ID: 480-77462-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	15		1.0		ug/L	1		8260C	Total/NA
Trichloroethene	5.1		1.0		ug/L	1		8260C	Total/NA

Client Sample ID: MW-1034-20150331-01 — Lab Sample ID: 480-77462-8

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
trans-1,2-Dichloroethene	1.1		1.0		ug/L	1		8260C	Total/NA
Trichloroethene	35		1.0		ug/L	1		8260C	Total/NA

Client Sample ID: MW-1030-20150331-01 — Lab Sample ID: 480-77462-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	4.9		1.0		ug/L	1		8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-1030-20150331-01 (Continued) — Lab Sample ID: 480-77462-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethene	1.9		1.0		ug/L	1		8260C	Total/NA
Methyl tert-butyl ether	1.2		1.0		ug/L	1		8260C	Total/NA
Trichloroethene	31		1.0		ug/L	1		8260C	Total/NA

Client Sample ID: MW-1024D-20150331-01 — Lab Sample ID: 480-77462-10

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	33		1.0		ug/L	1		8260C	Total/NA

Client Sample ID: SEN-1D-20150331-01 — Lab Sample ID: 480-77462-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	1.4		1.0		ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	2.3		1.0		ug/L	1		8260C	Total/NA

Client Sample ID: DUP-004-20150331-01 — Lab Sample ID: 480-77462-12

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
trans-1,2-Dichloroethene	1.1		1.0		ug/L	1		8260C	Total/NA
Trichloroethene	34		1.0		ug/L	1		8260C	Total/NA

Client Sample ID: MW-1033-20150331-01 — Lab Sample ID: 480-77462-13

No Detections.

Client Sample ID: MW-1027-20150331-01 — Lab Sample ID: 480-77462-14

No Detections.

Client Sample ID: MW-1013-20150331-01 — Lab Sample ID: 480-77462-15

No Detections.

Client Sample ID: MW-1025M-20150331-01 — Lab Sample ID: 480-77462-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	3.7		1.0		ug/L	1		8260C	Total/NA
1,1-Dichloroethane	3.2		1.0		ug/L	1		8260C	Total/NA
1,1-Dichloroethene	3.8		1.0		ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	3.2		1.0		ug/L	1		8260C	Total/NA
Trichloroethene	98		1.0		ug/L	1		8260C	Total/NA

Client Sample ID: DUP-003-20150331-01 — Lab Sample ID: 480-77462-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	3.9		1.0		ug/L	1		8260C	Total/NA
1,1-Dichloroethane	3.1		1.0		ug/L	1		8260C	Total/NA
1,1-Dichloroethene	4.3		1.0		ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	3.4		1.0		ug/L	1		8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DUP-003-20150331-01 (Continued) — Lab Sample ID: 480-77462-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methyl tert-butyl ether	1.1		1.0		ug/L	1		8260C	Total/NA
Trichloroethene - DL	97		2.0		ug/L	2		8260C	Total/NA

Client Sample ID: MW-1025D-20150331-01 — Lab Sample ID: 480-77462-18

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

Client Sample ID: MW-1023-20150331-01 — Lab Sample ID: 480-77462-19

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
Trichloroethene	14		1.0		ug/L	1		8260C	Total/NA

Client Sample ID: TB-001-20150331-01 — Lab Sample ID: 480-77462-20

No Detections.

Client Sample ID: MW-1010M-20150331-01 — Lab Sample ID: 480-77462-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Trichloroethene	1.7		1.0		ug/L	1		8260C	Total/NA

Client Sample ID: MW-1009-20150331-01 — Lab Sample ID: 480-77462-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Trichlorofluoromethane	4.6		1.0		ug/L	1		8260C	Total/NA

Client Sample ID: MW-1005-20150331-01 — Lab Sample ID: 480-77462-24

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
Trichloroethene	5.0		1.0		ug/L	1		8260C	Total/NA

Client Sample ID: MW-1004-20150331-01 — Lab Sample ID: 480-77462-25

No Detections.

Client Sample ID: MW-1008-20150331-01 — Lab Sample ID: 480-77462-26

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Trichloroethene	3.9		1.0		ug/L	1		8260C	Total/NA

Client Sample ID: MW-1003-20150331-01 — Lab Sample ID: 480-77462-27

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	3.3		1.0		ug/L	1		8260C	Total/NA
Trichloroethene	6.2		1.0		ug/L	1		8260C	Total/NA

Client Sample ID: MW-1006-20150331-01 — Lab Sample ID: 480-77462-28

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-1006-20150331-01 (Continued) — Lab Sample ID: 480-77462-28

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Trichloroethene	2.3		1.0		ug/L	1		8260C	Total/NA

Client Sample ID: MW-1001M-20150331-01 — Lab Sample ID: 480-77462-29

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	1.5		1.0		ug/L	1		8260C	Total/NA

Client Sample ID: DUP-001-20150331-01 — Lab Sample ID: 480-77462-30

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	1.0		1.0		ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	1.5		1.0		ug/L	1		8260C	Total/NA
Trichloroethene	4.8		1.0		ug/L	1		8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-77462-1

Client Sample ID: MW-217D-20150331-01
Date Collected: 03/31/15 12:40
Date Received: 04/01/15 02:30

Lab Sample ID: 480-77462-1
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			04/01/15 12:55	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/01/15 12:55	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/01/15 12:55	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/01/15 12:55	1
1,1-Dichloroethane	ND		1.0		ug/L			04/01/15 12:55	1
1,1-Dichloroethene	ND		1.0		ug/L			04/01/15 12:55	1
1,1-Dichloropropene	ND		1.0		ug/L			04/01/15 12:55	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/01/15 12:55	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/01/15 12:55	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/01/15 12:55	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/01/15 12:55	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/01/15 12:55	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/01/15 12:55	1
1,2-Dichloroethane	ND		1.0		ug/L			04/01/15 12:55	1
1,2-Dichloropropane	ND		1.0		ug/L			04/01/15 12:55	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/01/15 12:55	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/01/15 12:55	1
1,3-Dichloropropane	ND		1.0		ug/L			04/01/15 12:55	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/01/15 12:55	1
1,4-Dioxane	ND		50		ug/L			04/01/15 12:55	1
2,2-Dichloropropane	ND		1.0		ug/L			04/01/15 12:55	1
2-Butanone (MEK)	ND	* F1	10		ug/L			04/01/15 12:55	1
2-Chlorotoluene	ND		1.0		ug/L			04/01/15 12:55	1
2-Hexanone	ND	* F1	10		ug/L			04/01/15 12:55	1
4-Chlorotoluene	ND		1.0		ug/L			04/01/15 12:55	1
4-Isopropyltoluene	ND		1.0		ug/L			04/01/15 12:55	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/01/15 12:55	1
Acetone	ND		50		ug/L			04/01/15 12:55	1
Benzene	ND		1.0		ug/L			04/01/15 12:55	1
Bromobenzene	ND		1.0		ug/L			04/01/15 12:55	1
Bromoform	ND		1.0		ug/L			04/01/15 12:55	1
Bromomethane	ND		2.0		ug/L			04/01/15 12:55	1
Carbon disulfide	ND		10		ug/L			04/01/15 12:55	1
Carbon tetrachloride	ND		1.0		ug/L			04/01/15 12:55	1
Chlorobenzene	ND		1.0		ug/L			04/01/15 12:55	1
Chlorobromomethane	ND		1.0		ug/L			04/01/15 12:55	1
Chlorodibromomethane	ND		0.50		ug/L			04/01/15 12:55	1
Chloroethane	ND	F1	2.0		ug/L			04/01/15 12:55	1
Chloroform	ND		1.0		ug/L			04/01/15 12:55	1
Chloromethane	ND		2.0		ug/L			04/01/15 12:55	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			04/01/15 12:55	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/01/15 12:55	1
Dichlorobromomethane	ND		0.50		ug/L			04/01/15 12:55	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/01/15 12:55	1
Ethyl ether	ND		1.0		ug/L			04/01/15 12:55	1
Ethylbenzene	ND		1.0		ug/L			04/01/15 12:55	1
Ethylene Dibromide	ND		1.0		ug/L			04/01/15 12:55	1
Hexachlorobutadiene	ND		0.40		ug/L			04/01/15 12:55	1
Isopropyl ether	ND		10		ug/L			04/01/15 12:55	1

Client Sample ID: MW-217D-20150331-01 — **Lab Sample ID: 480-77462-1**
Date Collected: 03/31/15 12:40 — **Matrix: Water**
Date Received: 04/01/15 02:30

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			04/01/15 12:55	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/01/15 12:55	1
Methylene Chloride	ND		1.0		ug/L			04/01/15 12:55	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/01/15 12:55	1
Naphthalene	ND		5.0		ug/L			04/01/15 12:55	1
n-Butylbenzene	ND		1.0		ug/L			04/01/15 12:55	1
N-Propylbenzene	ND		1.0		ug/L			04/01/15 12:55	1
o-Xylene	ND		1.0		ug/L			04/01/15 12:55	1
sec-Butylbenzene	ND		1.0		ug/L			04/01/15 12:55	1
Styrene	ND		1.0		ug/L			04/01/15 12:55	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/01/15 12:55	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/01/15 12:55	1
tert-Butylbenzene	ND		1.0		ug/L			04/01/15 12:55	1
Tetrachloroethene	ND		1.0		ug/L			04/01/15 12:55	1
Tetrahydrofuran	ND		10		ug/L			04/01/15 12:55	1
Toluene	ND		1.0		ug/L			04/01/15 12:55	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/01/15 12:55	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/01/15 12:55	1
Trichloroethene	**1.4**		1.0		ug/L			04/01/15 12:55	1
Trichlorofluoromethane	ND		1.0		ug/L			04/01/15 12:55	1
Vinyl chloride	ND		1.0		ug/L			04/01/15 12:55	1
Dibromomethane	ND		1.0		ug/L			04/01/15 12:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*87*		*70 - 130*		*04/01/15 12:55*	*1*
1,2-Dichloroethane-d4 (Surr)	*107*		*70 - 130*		*04/01/15 12:55*	*1*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*		*04/01/15 12:55*	*1*

Client Sample ID: MW-217S-20150331-01 — **Lab Sample ID: 480-77462-2**
Date Collected: 03/31/15 13:10 — **Matrix: Water**
Date Received: 04/01/15 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			04/01/15 13:24	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/01/15 13:24	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/01/15 13:24	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/01/15 13:24	1
1,1-Dichloroethane	ND		1.0		ug/L			04/01/15 13:24	1
1,1-Dichloroethene	ND		1.0		ug/L			04/01/15 13:24	1
1,1-Dichloropropene	ND		1.0		ug/L			04/01/15 13:24	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/01/15 13:24	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/01/15 13:24	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/01/15 13:24	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/01/15 13:24	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/01/15 13:24	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/01/15 13:24	1
1,2-Dichloroethane	ND		1.0		ug/L			04/01/15 13:24	1
1,2-Dichloropropane	ND		1.0		ug/L			04/01/15 13:24	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/01/15 13:24	1

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-77462-1

Client Sample ID: MW-217S-20150331-01
Date Collected: 03/31/15 13:10
Date Received: 04/01/15 02:30

Lab Sample ID: 480-77462-2
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			04/01/15 13:24	1
1,3-Dichloropropane	ND		1.0		ug/L			04/01/15 13:24	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/01/15 13:24	1
1,4-Dioxane	ND		50		ug/L			04/01/15 13:24	1
2,2-Dichloropropane	ND		1.0		ug/L			04/01/15 13:24	1
2-Butanone (MEK)	ND	*	10		ug/L			04/01/15 13:24	1
2-Chlorotoluene	ND		1.0		ug/L			04/01/15 13:24	1
2-Hexanone	ND	*	10		ug/L			04/01/15 13:24	1
4-Chlorotoluene	ND		1.0		ug/L			04/01/15 13:24	1
4-Isopropyltoluene	ND		1.0		ug/L			04/01/15 13:24	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/01/15 13:24	1
Acetone	ND		50		ug/L			04/01/15 13:24	1
Benzene	ND		1.0		ug/L			04/01/15 13:24	1
Bromobenzene	ND		1.0		ug/L			04/01/15 13:24	1
Bromoform	ND		1.0		ug/L			04/01/15 13:24	1
Bromomethane	ND		2.0		ug/L			04/01/15 13:24	1
Carbon disulfide	ND		10		ug/L			04/01/15 13:24	1
Carbon tetrachloride	ND		1.0		ug/L			04/01/15 13:24	1
Chlorobenzene	ND		1.0		ug/L			04/01/15 13:24	1
Chlorobromomethane	ND		1.0		ug/L			04/01/15 13:24	1
Chlorodibromomethane	ND		0.50		ug/L			04/01/15 13:24	1
Chloroethane	ND		2.0		ug/L			04/01/15 13:24	1
Chloroform	ND		1.0		ug/L			04/01/15 13:24	1
Chloromethane	ND		2.0		ug/L			04/01/15 13:24	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			04/01/15 13:24	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/01/15 13:24	1
Dichlorobromomethane	ND		0.50		ug/L			04/01/15 13:24	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/01/15 13:24	1
Ethyl ether	ND		1.0		ug/L			04/01/15 13:24	1
Ethylbenzene	ND		1.0		ug/L			04/01/15 13:24	1
Ethylene Dibromide	ND		1.0		ug/L			04/01/15 13:24	1
Hexachlorobutadiene	ND		0.40		ug/L			04/01/15 13:24	1
Isopropyl ether	ND		10		ug/L			04/01/15 13:24	1
Isopropylbenzene	ND		1.0		ug/L			04/01/15 13:24	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/01/15 13:24	1
Methylene Chloride	ND		1.0		ug/L			04/01/15 13:24	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/01/15 13:24	1
Naphthalene	ND		5.0		ug/L			04/01/15 13:24	1
n-Butylbenzene	ND		1.0		ug/L			04/01/15 13:24	1
N-Propylbenzene	ND		1.0		ug/L			04/01/15 13:24	1
o-Xylene	ND		1.0		ug/L			04/01/15 13:24	1
sec-Butylbenzene	ND		1.0		ug/L			04/01/15 13:24	1
Styrene	ND		1.0		ug/L			04/01/15 13:24	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/01/15 13:24	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/01/15 13:24	1
tert-Butylbenzene	ND		1.0		ug/L			04/01/15 13:24	1
Tetrachloroethene	ND		1.0		ug/L			04/01/15 13:24	1
Tetrahydrofuran	ND		10		ug/L			04/01/15 13:24	1
Toluene	ND		1.0		ug/L			04/01/15 13:24	1

Client Sample ID: MW-217S-20150331-01 — **Lab Sample ID: 480-77462-2**
Date Collected: 03/31/15 13:10 — **Matrix: Water**
Date Received: 04/01/15 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		1.0		ug/L			04/01/15 13:24	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/01/15 13:24	1
Trichloroethene	ND		1.0		ug/L			04/01/15 13:24	1
Trichlorofluoromethane	ND		1.0		ug/L			04/01/15 13:24	1
Vinyl chloride	ND		1.0		ug/L			04/01/15 13:24	1
Dibromomethane	ND		1.0		ug/L			04/01/15 13:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*88*		*70 - 130*		*04/01/15 13:24*	*1*
1,2-Dichloroethane-d4 (Surr)	*105*		*70 - 130*		*04/01/15 13:24*	*1*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*		*04/01/15 13:24*	*1*

Client Sample ID: MW-217M-20150331-01 — **Lab Sample ID: 480-77462-3**
Date Collected: 03/31/15 13:00 — **Matrix: Water**
Date Received: 04/01/15 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			04/01/15 13:51	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/01/15 13:51	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/01/15 13:51	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/01/15 13:51	1
1,1-Dichloroethane	**2.4**		1.0		ug/L			04/01/15 13:51	1
1,1-Dichloroethene	ND		1.0		ug/L			04/01/15 13:51	1
1,1-Dichloropropene	ND		1.0		ug/L			04/01/15 13:51	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/01/15 13:51	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/01/15 13:51	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/01/15 13:51	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/01/15 13:51	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/01/15 13:51	1
1,2-Dichlorobenzene	**1.2**		1.0		ug/L			04/01/15 13:51	1
1,2-Dichloroethane	ND		1.0		ug/L			04/01/15 13:51	1
1,2-Dichloropropane	ND		1.0		ug/L			04/01/15 13:51	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/01/15 13:51	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/01/15 13:51	1
1,3-Dichloropropane	ND		1.0		ug/L			04/01/15 13:51	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/01/15 13:51	1
1,4-Dioxane	ND		50		ug/L			04/01/15 13:51	1
2,2-Dichloropropane	ND		1.0		ug/L			04/01/15 13:51	1
2-Butanone (MEK)	ND	*	10		ug/L			04/01/15 13:51	1
2-Chlorotoluene	ND		1.0		ug/L			04/01/15 13:51	1
2-Hexanone	ND	*	10		ug/L			04/01/15 13:51	1
4-Chlorotoluene	ND		1.0		ug/L			04/01/15 13:51	1
4-Isopropyltoluene	ND		1.0		ug/L			04/01/15 13:51	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/01/15 13:51	1
Acetone	ND		50		ug/L			04/01/15 13:51	1
Benzene	ND		1.0		ug/L			04/01/15 13:51	1
Bromobenzene	ND		1.0		ug/L			04/01/15 13:51	1
Bromoform	ND		1.0		ug/L			04/01/15 13:51	1
Bromomethane	ND		2.0		ug/L			04/01/15 13:51	1

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-77462-1

Client Sample ID: MW-217M-20150331-01
Date Collected: 03/31/15 13:00
Date Received: 04/01/15 02:30

Lab Sample ID: 480-77462-3
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			04/01/15 13:51	1
Carbon tetrachloride	ND		1.0		ug/L			04/01/15 13:51	1
Chlorobenzene	ND		1.0		ug/L			04/01/15 13:51	1
Chlorobromomethane	ND		1.0		ug/L			04/01/15 13:51	1
Chlorodibromomethane	ND		0.50		ug/L			04/01/15 13:51	1
Chloroethane	ND		2.0		ug/L			04/01/15 13:51	1
Chloroform	ND		1.0		ug/L			04/01/15 13:51	1
Chloromethane	ND		2.0		ug/L			04/01/15 13:51	1
cis-1,2-Dichloroethene	**1.0**		1.0		ug/L			04/01/15 13:51	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/01/15 13:51	1
Dichlorobromomethane	ND		0.50		ug/L			04/01/15 13:51	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/01/15 13:51	1
Ethyl ether	ND		1.0		ug/L			04/01/15 13:51	1
Ethylbenzene	ND		1.0		ug/L			04/01/15 13:51	1
Ethylene Dibromide	ND		1.0		ug/L			04/01/15 13:51	1
Hexachlorobutadiene	ND		0.40		ug/L			04/01/15 13:51	1
Isopropyl ether	ND		10		ug/L			04/01/15 13:51	1
Isopropylbenzene	ND		1.0		ug/L			04/01/15 13:51	1
Methyl tert-butyl ether	**7.6**		1.0		ug/L			04/01/15 13:51	1
Methylene Chloride	ND		1.0		ug/L			04/01/15 13:51	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/01/15 13:51	1
Naphthalene	ND		5.0		ug/L			04/01/15 13:51	1
n-Butylbenzene	ND		1.0		ug/L			04/01/15 13:51	1
N-Propylbenzene	ND		1.0		ug/L			04/01/15 13:51	1
o-Xylene	ND		1.0		ug/L			04/01/15 13:51	1
sec-Butylbenzene	ND		1.0		ug/L			04/01/15 13:51	1
Styrene	ND		1.0		ug/L			04/01/15 13:51	1
Tert-amyl methyl ether	**7.9**		5.0		ug/L			04/01/15 13:51	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/01/15 13:51	1
tert-Butylbenzene	ND		1.0		ug/L			04/01/15 13:51	1
Tetrachloroethene	ND		1.0		ug/L			04/01/15 13:51	1
Tetrahydrofuran	ND		10		ug/L			04/01/15 13:51	1
Toluene	ND		1.0		ug/L			04/01/15 13:51	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/01/15 13:51	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/01/15 13:51	1
Trichloroethene	**7.6**		1.0		ug/L			04/01/15 13:51	1
Trichlorofluoromethane	ND		1.0		ug/L			04/01/15 13:51	1
Vinyl chloride	ND		1.0		ug/L			04/01/15 13:51	1
Dibromomethane	ND		1.0		ug/L			04/01/15 13:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*89*		*70 - 130*		*04/01/15 13:51*	*1*
1,2-Dichloroethane-d4 (Surr)	*110*		*70 - 130*		*04/01/15 13:51*	*1*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*		*04/01/15 13:51*	*1*

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-77462-1

Client Sample ID: MW-1019B-20150331-01
Date Collected: 03/31/15 13:00
Date Received: 04/01/15 02:30

Lab Sample ID: 480-77462-4
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			04/01/15 14:20	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/01/15 14:20	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/01/15 14:20	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/01/15 14:20	1
1,1-Dichloroethane	ND		1.0		ug/L			04/01/15 14:20	1
1,1-Dichloroethene	ND		1.0		ug/L			04/01/15 14:20	1
1,1-Dichloropropene	ND		1.0		ug/L			04/01/15 14:20	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/01/15 14:20	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/01/15 14:20	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/01/15 14:20	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/01/15 14:20	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/01/15 14:20	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/01/15 14:20	1
1,2-Dichloroethane	ND		1.0		ug/L			04/01/15 14:20	1
1,2-Dichloropropane	ND		1.0		ug/L			04/01/15 14:20	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/01/15 14:20	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/01/15 14:20	1
1,3-Dichloropropane	ND		1.0		ug/L			04/01/15 14:20	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/01/15 14:20	1
1,4-Dioxane	ND		50		ug/L			04/01/15 14:20	1
2,2-Dichloropropane	ND		1.0		ug/L			04/01/15 14:20	1
2-Butanone (MEK)	ND	*	10		ug/L			04/01/15 14:20	1
2-Chlorotoluene	ND		1.0		ug/L			04/01/15 14:20	1
2-Hexanone	ND	*	10		ug/L			04/01/15 14:20	1
4-Chlorotoluene	ND		1.0		ug/L			04/01/15 14:20	1
4-Isopropyltoluene	ND		1.0		ug/L			04/01/15 14:20	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/01/15 14:20	1
Acetone	ND		50		ug/L			04/01/15 14:20	1
Benzene	ND		1.0		ug/L			04/01/15 14:20	1
Bromobenzene	ND		1.0		ug/L			04/01/15 14:20	1
Bromoform	ND		1.0		ug/L			04/01/15 14:20	1
Bromomethane	ND		2.0		ug/L			04/01/15 14:20	1
Carbon disulfide	ND		10		ug/L			04/01/15 14:20	1
Carbon tetrachloride	ND		1.0		ug/L			04/01/15 14:20	1
Chlorobenzene	ND		1.0		ug/L			04/01/15 14:20	1
Chlorobromomethane	ND		1.0		ug/L			04/01/15 14:20	1
Chlorodibromomethane	ND		0.50		ug/L			04/01/15 14:20	1
Chloroethane	ND		2.0		ug/L			04/01/15 14:20	1
Chloroform	ND		1.0		ug/L			04/01/15 14:20	1
Chloromethane	ND		2.0		ug/L			04/01/15 14:20	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			04/01/15 14:20	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/01/15 14:20	1
Dichlorobromomethane	ND		0.50		ug/L			04/01/15 14:20	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/01/15 14:20	1
Ethyl ether	ND		1.0		ug/L			04/01/15 14:20	1
Ethylbenzene	ND		1.0		ug/L			04/01/15 14:20	1
Ethylene Dibromide	ND		1.0		ug/L			04/01/15 14:20	1
Hexachlorobutadiene	ND		0.40		ug/L			04/01/15 14:20	1
Isopropyl ether	ND		10		ug/L			04/01/15 14:20	1

Client Sample ID: MW-1019B-20150331-01 — **Lab Sample ID: 480-77462-4**
Date Collected: 03/31/15 13:00 — **Matrix: Water**
Date Received: 04/01/15 02:30

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			04/01/15 14:20	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/01/15 14:20	1
Methylene Chloride	ND		1.0		ug/L			04/01/15 14:20	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/01/15 14:20	1
Naphthalene	ND		5.0		ug/L			04/01/15 14:20	1
n-Butylbenzene	ND		1.0		ug/L			04/01/15 14:20	1
N-Propylbenzene	ND		1.0		ug/L			04/01/15 14:20	1
o-Xylene	ND		1.0		ug/L			04/01/15 14:20	1
sec-Butylbenzene	ND		1.0		ug/L			04/01/15 14:20	1
Styrene	ND		1.0		ug/L			04/01/15 14:20	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/01/15 14:20	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/01/15 14:20	1
tert-Butylbenzene	ND		1.0		ug/L			04/01/15 14:20	1
Tetrachloroethene	ND		1.0		ug/L			04/01/15 14:20	1
Tetrahydrofuran	ND		10		ug/L			04/01/15 14:20	1
Toluene	ND		1.0		ug/L			04/01/15 14:20	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/01/15 14:20	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/01/15 14:20	1
Trichloroethene	**2.3**		1.0		ug/L			04/01/15 14:20	1
Trichlorofluoromethane	ND		1.0		ug/L			04/01/15 14:20	1
Vinyl chloride	ND		1.0		ug/L			04/01/15 14:20	1
Dibromomethane	ND		1.0		ug/L			04/01/15 14:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*89*		*70 - 130*		*04/01/15 14:20*	*1*
1,2-Dichloroethane-d4 (Surr)	*106*		*70 - 130*		*04/01/15 14:20*	*1*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*		*04/01/15 14:20*	*1*

Client Sample ID: MW-1015D-20150331-01 — **Lab Sample ID: 480-77462-5**
Date Collected: 03/31/15 11:10 — **Matrix: Water**
Date Received: 04/01/15 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			04/01/15 14:48	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/01/15 14:48	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/01/15 14:48	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/01/15 14:48	1
1,1-Dichloroethane	ND		1.0		ug/L			04/01/15 14:48	1
1,1-Dichloroethene	ND		1.0		ug/L			04/01/15 14:48	1
1,1-Dichloropropene	ND		1.0		ug/L			04/01/15 14:48	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/01/15 14:48	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/01/15 14:48	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/01/15 14:48	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/01/15 14:48	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/01/15 14:48	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/01/15 14:48	1
1,2-Dichloroethane	ND		1.0		ug/L			04/01/15 14:48	1
1,2-Dichloropropane	ND		1.0		ug/L			04/01/15 14:48	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/01/15 14:48	1

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-77462-1

Client Sample ID: MW-1015D-20150331-01
Date Collected: 03/31/15 11:10
Date Received: 04/01/15 02:30

Lab Sample ID: 480-77462-5
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			04/01/15 14:48	1
1,3-Dichloropropane	ND		1.0		ug/L			04/01/15 14:48	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/01/15 14:48	1
1,4-Dioxane	ND		50		ug/L			04/01/15 14:48	1
2,2-Dichloropropane	ND		1.0		ug/L			04/01/15 14:48	1
2-Butanone (MEK)	ND	*	10		ug/L			04/01/15 14:48	1
2-Chlorotoluene	ND		1.0		ug/L			04/01/15 14:48	1
2-Hexanone	ND	*	10		ug/L			04/01/15 14:48	1
4-Chlorotoluene	ND		1.0		ug/L			04/01/15 14:48	1
4-Isopropyltoluene	ND		1.0		ug/L			04/01/15 14:48	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/01/15 14:48	1
Acetone	ND		50		ug/L			04/01/15 14:48	1
Benzene	ND		1.0		ug/L			04/01/15 14:48	1
Bromobenzene	ND		1.0		ug/L			04/01/15 14:48	1
Bromoform	ND		1.0		ug/L			04/01/15 14:48	1
Bromomethane	ND		2.0		ug/L			04/01/15 14:48	1
Carbon disulfide	ND		10		ug/L			04/01/15 14:48	1
Carbon tetrachloride	ND		1.0		ug/L			04/01/15 14:48	1
Chlorobenzene	ND		1.0		ug/L			04/01/15 14:48	1
Chlorobromomethane	ND		1.0		ug/L			04/01/15 14:48	1
Chlorodibromomethane	ND		0.50		ug/L			04/01/15 14:48	1
Chloroethane	ND		2.0		ug/L			04/01/15 14:48	1
Chloroform	ND		1.0		ug/L			04/01/15 14:48	1
Chloromethane	ND		2.0		ug/L			04/01/15 14:48	1
cis-1,2-Dichloroethene	**1.3**		1.0		ug/L			04/01/15 14:48	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/01/15 14:48	1
Dichlorobromomethane	ND		0.50		ug/L			04/01/15 14:48	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/01/15 14:48	1
Ethyl ether	ND		1.0		ug/L			04/01/15 14:48	1
Ethylbenzene	ND		1.0		ug/L			04/01/15 14:48	1
Ethylene Dibromide	ND		1.0		ug/L			04/01/15 14:48	1
Hexachlorobutadiene	ND		0.40		ug/L			04/01/15 14:48	1
Isopropyl ether	ND		10		ug/L			04/01/15 14:48	1
Isopropylbenzene	ND		1.0		ug/L			04/01/15 14:48	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/01/15 14:48	1
Methylene Chloride	ND		1.0		ug/L			04/01/15 14:48	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/01/15 14:48	1
Naphthalene	ND		5.0		ug/L			04/01/15 14:48	1
n-Butylbenzene	ND		1.0		ug/L			04/01/15 14:48	1
N-Propylbenzene	ND		1.0		ug/L			04/01/15 14:48	1
o-Xylene	ND		1.0		ug/L			04/01/15 14:48	1
sec-Butylbenzene	ND		1.0		ug/L			04/01/15 14:48	1
Styrene	ND		1.0		ug/L			04/01/15 14:48	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/01/15 14:48	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/01/15 14:48	1
tert-Butylbenzene	ND		1.0		ug/L			04/01/15 14:48	1
Tetrachloroethene	**1.2**		1.0		ug/L			04/01/15 14:48	1
Tetrahydrofuran	ND		10		ug/L			04/01/15 14:48	1
Toluene	ND		1.0		ug/L			04/01/15 14:48	1

Client Sample ID: MW-1015D-20150331-01 — **Lab Sample ID: 480-77462-5**
Date Collected: 03/31/15 11:10 — **Matrix: Water**
Date Received: 04/01/15 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		1.0		ug/L			04/01/15 14:48	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/01/15 14:48	1
Trichloroethene	18		1.0		ug/L			04/01/15 14:48	1
Trichlorofluoromethane	ND		1.0		ug/L			04/01/15 14:48	1
Vinyl chloride	ND		1.0		ug/L			04/01/15 14:48	1
Dibromomethane	ND		1.0		ug/L			04/01/15 14:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*87*		*70 - 130*		*04/01/15 14:48*	*1*
1,2-Dichloroethane-d4 (Surr)	*108*		*70 - 130*		*04/01/15 14:48*	*1*
4-Bromofluorobenzene (Surr)	*89*		*70 - 130*		*04/01/15 14:48*	*1*

Client Sample ID: DUP-002-20150331-01 — **Lab Sample ID: 480-77462-6**
Date Collected: 03/31/15 11:11 — **Matrix: Water**
Date Received: 04/01/15 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			04/01/15 15:17	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/01/15 15:17	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/01/15 15:17	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/01/15 15:17	1
1,1-Dichloroethane	ND		1.0		ug/L			04/01/15 15:17	1
1,1-Dichloroethene	ND		1.0		ug/L			04/01/15 15:17	1
1,1-Dichloropropene	ND		1.0		ug/L			04/01/15 15:17	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/01/15 15:17	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/01/15 15:17	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/01/15 15:17	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/01/15 15:17	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/01/15 15:17	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/01/15 15:17	1
1,2-Dichloroethane	ND		1.0		ug/L			04/01/15 15:17	1
1,2-Dichloropropane	ND		1.0		ug/L			04/01/15 15:17	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/01/15 15:17	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/01/15 15:17	1
1,3-Dichloropropane	ND		1.0		ug/L			04/01/15 15:17	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/01/15 15:17	1
1,4-Dioxane	ND		50		ug/L			04/01/15 15:17	1
2,2-Dichloropropane	ND		1.0		ug/L			04/01/15 15:17	1
2-Butanone (MEK)	ND	*	10		ug/L			04/01/15 15:17	1
2-Chlorotoluene	ND		1.0		ug/L			04/01/15 15:17	1
2-Hexanone	ND	*	10		ug/L			04/01/15 15:17	1
4-Chlorotoluene	ND		1.0		ug/L			04/01/15 15:17	1
4-Isopropyltoluene	ND		1.0		ug/L			04/01/15 15:17	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/01/15 15:17	1
Acetone	ND		50		ug/L			04/01/15 15:17	1
Benzene	ND		1.0		ug/L			04/01/15 15:17	1
Bromobenzene	ND		1.0		ug/L			04/01/15 15:17	1
Bromoform	ND		1.0		ug/L			04/01/15 15:17	1
Bromomethane	ND		2.0		ug/L			04/01/15 15:17	1

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-77462-1

Client Sample ID: DUP-002-20150331-01
Date Collected: 03/31/15 11:11
Date Received: 04/01/15 02:30

Lab Sample ID: 480-77462-6
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			04/01/15 15:17	1
Carbon tetrachloride	ND		1.0		ug/L			04/01/15 15:17	1
Chlorobenzene	ND		1.0		ug/L			04/01/15 15:17	1
Chlorobromomethane	ND		1.0		ug/L			04/01/15 15:17	1
Chlorodibromomethane	ND		0.50		ug/L			04/01/15 15:17	1
Chloroethane	ND		2.0		ug/L			04/01/15 15:17	1
Chloroform	ND		1.0		ug/L			04/01/15 15:17	1
Chloromethane	ND		2.0		ug/L			04/01/15 15:17	1
cis-1,2-Dichloroethene	**15**		1.0		ug/L			04/01/15 15:17	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/01/15 15:17	1
Dichlorobromomethane	ND		0.50		ug/L			04/01/15 15:17	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/01/15 15:17	1
Ethyl ether	ND		1.0		ug/L			04/01/15 15:17	1
Ethylbenzene	ND		1.0		ug/L			04/01/15 15:17	1
Ethylene Dibromide	ND		1.0		ug/L			04/01/15 15:17	1
Hexachlorobutadiene	ND		0.40		ug/L			04/01/15 15:17	1
Isopropyl ether	ND		10		ug/L			04/01/15 15:17	1
Isopropylbenzene	ND		1.0		ug/L			04/01/15 15:17	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/01/15 15:17	1
Methylene Chloride	ND		1.0		ug/L			04/01/15 15:17	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/01/15 15:17	1
Naphthalene	ND		5.0		ug/L			04/01/15 15:17	1
n-Butylbenzene	ND		1.0		ug/L			04/01/15 15:17	1
N-Propylbenzene	ND		1.0		ug/L			04/01/15 15:17	1
o-Xylene	ND		1.0		ug/L			04/01/15 15:17	1
sec-Butylbenzene	ND		1.0		ug/L			04/01/15 15:17	1
Styrene	ND		1.0		ug/L			04/01/15 15:17	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/01/15 15:17	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/01/15 15:17	1
tert-Butylbenzene	ND		1.0		ug/L			04/01/15 15:17	1
Tetrachloroethene	ND		1.0		ug/L			04/01/15 15:17	1
Tetrahydrofuran	ND		10		ug/L			04/01/15 15:17	1
Toluene	ND		1.0		ug/L			04/01/15 15:17	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/01/15 15:17	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/01/15 15:17	1
Trichloroethene	**5.3**		1.0		ug/L			04/01/15 15:17	1
Trichlorofluoromethane	ND		1.0		ug/L			04/01/15 15:17	1
Vinyl chloride	ND		1.0		ug/L			04/01/15 15:17	1
Dibromomethane	ND		1.0		ug/L			04/01/15 15:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*89*		*70 - 130*		*04/01/15 15:17*	*1*
1,2-Dichloroethane-d4 (Surr)	*110*		*70 - 130*		*04/01/15 15:17*	*1*
4-Bromofluorobenzene (Surr)	*88*		*70 - 130*		*04/01/15 15:17*	*1*

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-77462-1

Client Sample ID: MW-1016D-20150331-01
Date Collected: 03/31/15 12:30
Date Received: 04/01/15 02:30

Lab Sample ID: 480-77462-7
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			04/01/15 15:45	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/01/15 15:45	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/01/15 15:45	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/01/15 15:45	1
1,1-Dichloroethane	ND		1.0		ug/L			04/01/15 15:45	1
1,1-Dichloroethene	ND		1.0		ug/L			04/01/15 15:45	1
1,1-Dichloropropene	ND		1.0		ug/L			04/01/15 15:45	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/01/15 15:45	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/01/15 15:45	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/01/15 15:45	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/01/15 15:45	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/01/15 15:45	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/01/15 15:45	1
1,2-Dichloroethane	ND		1.0		ug/L			04/01/15 15:45	1
1,2-Dichloropropane	ND		1.0		ug/L			04/01/15 15:45	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/01/15 15:45	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/01/15 15:45	1
1,3-Dichloropropane	ND		1.0		ug/L			04/01/15 15:45	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/01/15 15:45	1
1,4-Dioxane	ND		50		ug/L			04/01/15 15:45	1
2,2-Dichloropropane	ND		1.0		ug/L			04/01/15 15:45	1
2-Butanone (MEK)	ND	*	10		ug/L			04/01/15 15:45	1
2-Chlorotoluene	ND		1.0		ug/L			04/01/15 15:45	1
2-Hexanone	ND	*	10		ug/L			04/01/15 15:45	1
4-Chlorotoluene	ND		1.0		ug/L			04/01/15 15:45	1
4-Isopropyltoluene	ND		1.0		ug/L			04/01/15 15:45	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/01/15 15:45	1
Acetone	ND		50		ug/L			04/01/15 15:45	1
Benzene	ND		1.0		ug/L			04/01/15 15:45	1
Bromobenzene	ND		1.0		ug/L			04/01/15 15:45	1
Bromoform	ND		1.0		ug/L			04/01/15 15:45	1
Bromomethane	ND		2.0		ug/L			04/01/15 15:45	1
Carbon disulfide	ND		10		ug/L			04/01/15 15:45	1
Carbon tetrachloride	ND		1.0		ug/L			04/01/15 15:45	1
Chlorobenzene	ND		1.0		ug/L			04/01/15 15:45	1
Chlorobromomethane	ND		1.0		ug/L			04/01/15 15:45	1
Chlorodibromomethane	ND		0.50		ug/L			04/01/15 15:45	1
Chloroethane	ND		2.0		ug/L			04/01/15 15:45	1
Chloroform	ND		1.0		ug/L			04/01/15 15:45	1
Chloromethane	ND		2.0		ug/L			04/01/15 15:45	1
cis-1,2-Dichloroethene	**15**		1.0		ug/L			04/01/15 15:45	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/01/15 15:45	1
Dichlorobromomethane	ND		0.50		ug/L			04/01/15 15:45	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/01/15 15:45	1
Ethyl ether	ND		1.0		ug/L			04/01/15 15:45	1
Ethylbenzene	ND		1.0		ug/L			04/01/15 15:45	1
Ethylene Dibromide	ND		1.0		ug/L			04/01/15 15:45	1
Hexachlorobutadiene	ND		0.40		ug/L			04/01/15 15:45	1
Isopropyl ether	ND		10		ug/L			04/01/15 15:45	1

Client Sample ID: MW-1016D-20150331-01 — **Lab Sample ID: 480-77462-7**
Date Collected: 03/31/15 12:30 — **Matrix: Water**
Date Received: 04/01/15 02:30

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			04/01/15 15:45	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/01/15 15:45	1
Methylene Chloride	ND		1.0		ug/L			04/01/15 15:45	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/01/15 15:45	1
Naphthalene	ND		5.0		ug/L			04/01/15 15:45	1
n-Butylbenzene	ND		1.0		ug/L			04/01/15 15:45	1
N-Propylbenzene	ND		1.0		ug/L			04/01/15 15:45	1
o-Xylene	ND		1.0		ug/L			04/01/15 15:45	1
sec-Butylbenzene	ND		1.0		ug/L			04/01/15 15:45	1
Styrene	ND		1.0		ug/L			04/01/15 15:45	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/01/15 15:45	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/01/15 15:45	1
tert-Butylbenzene	ND		1.0		ug/L			04/01/15 15:45	1
Tetrachloroethene	ND		1.0		ug/L			04/01/15 15:45	1
Tetrahydrofuran	ND		10		ug/L			04/01/15 15:45	1
Toluene	ND		1.0		ug/L			04/01/15 15:45	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/01/15 15:45	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/01/15 15:45	1
Trichloroethene	**5.1**		1.0		ug/L			04/01/15 15:45	1
Trichlorofluoromethane	ND		1.0		ug/L			04/01/15 15:45	1
Vinyl chloride	ND		1.0		ug/L			04/01/15 15:45	1
Dibromomethane	ND		1.0		ug/L			04/01/15 15:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*90*		*70 - 130*		*04/01/15 15:45*	*1*
1,2-Dichloroethane-d4 (Surr)	*109*		*70 - 130*		*04/01/15 15:45*	*1*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*		*04/01/15 15:45*	*1*

Client Sample ID: MW-1034-20150331-01 — **Lab Sample ID: 480-77462-8**
Date Collected: 03/31/15 09:50 — **Matrix: Water**
Date Received: 04/01/15 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			04/01/15 16:13	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/01/15 16:13	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/01/15 16:13	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/01/15 16:13	1
1,1-Dichloroethane	ND		1.0		ug/L			04/01/15 16:13	1
1,1-Dichloroethene	ND		1.0		ug/L			04/01/15 16:13	1
1,1-Dichloropropene	ND		1.0		ug/L			04/01/15 16:13	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/01/15 16:13	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/01/15 16:13	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/01/15 16:13	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/01/15 16:13	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/01/15 16:13	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/01/15 16:13	1
1,2-Dichloroethane	ND		1.0		ug/L			04/01/15 16:13	1
1,2-Dichloropropane	ND		1.0		ug/L			04/01/15 16:13	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/01/15 16:13	1

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-77462-1

Client Sample ID: MW-1034-20150331-01
Date Collected: 03/31/15 09:50
Date Received: 04/01/15 02:30

Lab Sample ID: 480-77462-8
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			04/01/15 16:13	1
1,3-Dichloropropane	ND		1.0		ug/L			04/01/15 16:13	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/01/15 16:13	1
1,4-Dioxane	ND		50		ug/L			04/01/15 16:13	1
2,2-Dichloropropane	ND		1.0		ug/L			04/01/15 16:13	1
2-Butanone (MEK)	ND	*	10		ug/L			04/01/15 16:13	1
2-Chlorotoluene	ND		1.0		ug/L			04/01/15 16:13	1
2-Hexanone	ND	*	10		ug/L			04/01/15 16:13	1
4-Chlorotoluene	ND		1.0		ug/L			04/01/15 16:13	1
4-Isopropyltoluene	ND		1.0		ug/L			04/01/15 16:13	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/01/15 16:13	1
Acetone	ND		50		ug/L			04/01/15 16:13	1
Benzene	ND		1.0		ug/L			04/01/15 16:13	1
Bromobenzene	ND		1.0		ug/L			04/01/15 16:13	1
Bromoform	ND		1.0		ug/L			04/01/15 16:13	1
Bromomethane	ND		2.0		ug/L			04/01/15 16:13	1
Carbon disulfide	ND		10		ug/L			04/01/15 16:13	1
Carbon tetrachloride	ND		1.0		ug/L			04/01/15 16:13	1
Chlorobenzene	ND		1.0		ug/L			04/01/15 16:13	1
Chlorobromomethane	ND		1.0		ug/L			04/01/15 16:13	1
Chlorodibromomethane	ND		0.50		ug/L			04/01/15 16:13	1
Chloroethane	ND		2.0		ug/L			04/01/15 16:13	1
Chloroform	ND		1.0		ug/L			04/01/15 16:13	1
Chloromethane	ND		2.0		ug/L			04/01/15 16:13	1
cis-1,2-Dichloroethene	**11**		1.0		ug/L			04/01/15 16:13	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/01/15 16:13	1
Dichlorobromomethane	ND		0.50		ug/L			04/01/15 16:13	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/01/15 16:13	1
Ethyl ether	ND		1.0		ug/L			04/01/15 16:13	1
Ethylbenzene	ND		1.0		ug/L			04/01/15 16:13	1
Ethylene Dibromide	ND		1.0		ug/L			04/01/15 16:13	1
Hexachlorobutadiene	ND		0.40		ug/L			04/01/15 16:13	1
Isopropyl ether	ND		10		ug/L			04/01/15 16:13	1
Isopropylbenzene	ND		1.0		ug/L			04/01/15 16:13	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/01/15 16:13	1
Methylene Chloride	ND		1.0		ug/L			04/01/15 16:13	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/01/15 16:13	1
Naphthalene	ND		5.0		ug/L			04/01/15 16:13	1
n-Butylbenzene	ND		1.0		ug/L			04/01/15 16:13	1
N-Propylbenzene	ND		1.0		ug/L			04/01/15 16:13	1
o-Xylene	ND		1.0		ug/L			04/01/15 16:13	1
sec-Butylbenzene	ND		1.0		ug/L			04/01/15 16:13	1
Styrene	ND		1.0		ug/L			04/01/15 16:13	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/01/15 16:13	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/01/15 16:13	1
tert-Butylbenzene	ND		1.0		ug/L			04/01/15 16:13	1
Tetrachloroethene	ND		1.0		ug/L			04/01/15 16:13	1
Tetrahydrofuran	ND		10		ug/L			04/01/15 16:13	1
Toluene	ND		1.0		ug/L			04/01/15 16:13	1

Client Sample ID: MW-1034-20150331-01 — **Lab Sample ID: 480-77462-8**
Date Collected: 03/31/15 09:50 — **Matrix: Water**
Date Received: 04/01/15 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	**1.1**		1.0		ug/L			04/01/15 16:13	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/01/15 16:13	1
Trichloroethene	**35**		1.0		ug/L			04/01/15 16:13	1
Trichlorofluoromethane	ND		1.0		ug/L			04/01/15 16:13	1
Vinyl chloride	ND		1.0		ug/L			04/01/15 16:13	1
Dibromomethane	ND		1.0		ug/L			04/01/15 16:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*89*		*70 - 130*		*04/01/15 16:13*	*1*
1,2-Dichloroethane-d4 (Surr)	*108*		*70 - 130*		*04/01/15 16:13*	*1*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*		*04/01/15 16:13*	*1*

Client Sample ID: MW-1030-20150331-01 — **Lab Sample ID: 480-77462-9**
Date Collected: 03/31/15 08:45 — **Matrix: Water**
Date Received: 04/01/15 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			04/01/15 16:40	1
1,1,1-Trichloroethane	**4.9**		1.0		ug/L			04/01/15 16:40	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/01/15 16:40	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/01/15 16:40	1
1,1-Dichloroethane	ND		1.0		ug/L			04/01/15 16:40	1
1,1-Dichloroethene	**1.9**		1.0		ug/L			04/01/15 16:40	1
1,1-Dichloropropene	ND		1.0		ug/L			04/01/15 16:40	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/01/15 16:40	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/01/15 16:40	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/01/15 16:40	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/01/15 16:40	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/01/15 16:40	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/01/15 16:40	1
1,2-Dichloroethane	ND		1.0		ug/L			04/01/15 16:40	1
1,2-Dichloropropane	ND		1.0		ug/L			04/01/15 16:40	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/01/15 16:40	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/01/15 16:40	1
1,3-Dichloropropane	ND		1.0		ug/L			04/01/15 16:40	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/01/15 16:40	1
1,4-Dioxane	ND		50		ug/L			04/01/15 16:40	1
2,2-Dichloropropane	ND		1.0		ug/L			04/01/15 16:40	1
2-Butanone (MEK)	ND	*	10		ug/L			04/01/15 16:40	1
2-Chlorotoluene	ND		1.0		ug/L			04/01/15 16:40	1
2-Hexanone	ND	*	10		ug/L			04/01/15 16:40	1
4-Chlorotoluene	ND		1.0		ug/L			04/01/15 16:40	1
4-Isopropyltoluene	ND		1.0		ug/L			04/01/15 16:40	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/01/15 16:40	1
Acetone	ND		50		ug/L			04/01/15 16:40	1
Benzene	ND		1.0		ug/L			04/01/15 16:40	1
Bromobenzene	ND		1.0		ug/L			04/01/15 16:40	1
Bromoform	ND		1.0		ug/L			04/01/15 16:40	1
Bromomethane	ND		2.0		ug/L			04/01/15 16:40	1

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-77462-1

Client Sample ID: MW-1030-20150331-01
Date Collected: 03/31/15 08:45
Date Received: 04/01/15 02:30

Lab Sample ID: 480-77462-9
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			04/01/15 16:40	1
Carbon tetrachloride	ND		1.0		ug/L			04/01/15 16:40	1
Chlorobenzene	ND		1.0		ug/L			04/01/15 16:40	1
Chlorobromomethane	ND		1.0		ug/L			04/01/15 16:40	1
Chlorodibromomethane	ND		0.50		ug/L			04/01/15 16:40	1
Chloroethane	ND		2.0		ug/L			04/01/15 16:40	1
Chloroform	ND		1.0		ug/L			04/01/15 16:40	1
Chloromethane	ND		2.0		ug/L			04/01/15 16:40	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			04/01/15 16:40	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/01/15 16:40	1
Dichlorobromomethane	ND		0.50		ug/L			04/01/15 16:40	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/01/15 16:40	1
Ethyl ether	ND		1.0		ug/L			04/01/15 16:40	1
Ethylbenzene	ND		1.0		ug/L			04/01/15 16:40	1
Ethylene Dibromide	ND		1.0		ug/L			04/01/15 16:40	1
Hexachlorobutadiene	ND		0.40		ug/L			04/01/15 16:40	1
Isopropyl ether	ND		10		ug/L			04/01/15 16:40	1
Isopropylbenzene	ND		1.0		ug/L			04/01/15 16:40	1
Methyl tert-butyl ether	**1.2**		1.0		ug/L			04/01/15 16:40	1
Methylene Chloride	ND		1.0		ug/L			04/01/15 16:40	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/01/15 16:40	1
Naphthalene	ND		5.0		ug/L			04/01/15 16:40	1
n-Butylbenzene	ND		1.0		ug/L			04/01/15 16:40	1
N-Propylbenzene	ND		1.0		ug/L			04/01/15 16:40	1
o-Xylene	ND		1.0		ug/L			04/01/15 16:40	1
sec-Butylbenzene	ND		1.0		ug/L			04/01/15 16:40	1
Styrene	ND		1.0		ug/L			04/01/15 16:40	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/01/15 16:40	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/01/15 16:40	1
tert-Butylbenzene	ND		1.0		ug/L			04/01/15 16:40	1
Tetrachloroethene	ND		1.0		ug/L			04/01/15 16:40	1
Tetrahydrofuran	ND		10		ug/L			04/01/15 16:40	1
Toluene	ND		1.0		ug/L			04/01/15 16:40	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/01/15 16:40	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/01/15 16:40	1
Trichloroethene	**31**		1.0		ug/L			04/01/15 16:40	1
Trichlorofluoromethane	ND		1.0		ug/L			04/01/15 16:40	1
Vinyl chloride	ND		1.0		ug/L			04/01/15 16:40	1
Dibromomethane	ND		1.0		ug/L			04/01/15 16:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*87*		*70 - 130*		*04/01/15 16:40*	*1*
1,2-Dichloroethane-d4 (Surr)	*112*		*70 - 130*		*04/01/15 16:40*	*1*
4-Bromofluorobenzene (Surr)	*87*		*70 - 130*		*04/01/15 16:40*	*1*

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-77462-1

Client Sample ID: MW-1024D-20150331-01
Date Collected: 03/31/15 10:00
Date Received: 04/01/15 02:30

Lab Sample ID: 480-77462-10
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			04/01/15 17:09	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/01/15 17:09	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/01/15 17:09	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/01/15 17:09	1
1,1-Dichloroethane	ND		1.0		ug/L			04/01/15 17:09	1
1,1-Dichloroethene	ND		1.0		ug/L			04/01/15 17:09	1
1,1-Dichloropropene	ND		1.0		ug/L			04/01/15 17:09	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/01/15 17:09	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/01/15 17:09	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/01/15 17:09	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/01/15 17:09	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/01/15 17:09	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/01/15 17:09	1
1,2-Dichloroethane	ND		1.0		ug/L			04/01/15 17:09	1
1,2-Dichloropropane	ND		1.0		ug/L			04/01/15 17:09	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/01/15 17:09	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/01/15 17:09	1
1,3-Dichloropropane	ND		1.0		ug/L			04/01/15 17:09	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/01/15 17:09	1
1,4-Dioxane	ND		50		ug/L			04/01/15 17:09	1
2,2-Dichloropropane	ND		1.0		ug/L			04/01/15 17:09	1
2-Butanone (MEK)	ND	*	10		ug/L			04/01/15 17:09	1
2-Chlorotoluene	ND		1.0		ug/L			04/01/15 17:09	1
2-Hexanone	ND	*	10		ug/L			04/01/15 17:09	1
4-Chlorotoluene	ND		1.0		ug/L			04/01/15 17:09	1
4-Isopropyltoluene	ND		1.0		ug/L			04/01/15 17:09	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/01/15 17:09	1
Acetone	ND		50		ug/L			04/01/15 17:09	1
Benzene	ND		1.0		ug/L			04/01/15 17:09	1
Bromobenzene	ND		1.0		ug/L			04/01/15 17:09	1
Bromoform	ND		1.0		ug/L			04/01/15 17:09	1
Bromomethane	ND		2.0		ug/L			04/01/15 17:09	1
Carbon disulfide	ND		10		ug/L			04/01/15 17:09	1
Carbon tetrachloride	ND		1.0		ug/L			04/01/15 17:09	1
Chlorobenzene	ND		1.0		ug/L			04/01/15 17:09	1
Chlorobromomethane	ND		1.0		ug/L			04/01/15 17:09	1
Chlorodibromomethane	ND		0.50		ug/L			04/01/15 17:09	1
Chloroethane	ND		2.0		ug/L			04/01/15 17:09	1
Chloroform	ND		1.0		ug/L			04/01/15 17:09	1
Chloromethane	ND		2.0		ug/L			04/01/15 17:09	1
cis-1,2-Dichloroethene	**12**		1.0		ug/L			04/01/15 17:09	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/01/15 17:09	1
Dichlorobromomethane	ND		0.50		ug/L			04/01/15 17:09	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/01/15 17:09	1
Ethyl ether	ND		1.0		ug/L			04/01/15 17:09	1
Ethylbenzene	ND		1.0		ug/L			04/01/15 17:09	1
Ethylene Dibromide	ND		1.0		ug/L			04/01/15 17:09	1
Hexachlorobutadiene	ND		0.40		ug/L			04/01/15 17:09	1
Isopropyl ether	ND		10		ug/L			04/01/15 17:09	1

Client Sample ID: MW-1024D-20150331-01 — **Lab Sample ID: 480-77462-10**
Date Collected: 03/31/15 10:00 — **Matrix: Water**
Date Received: 04/01/15 02:30

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			04/01/15 17:09	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/01/15 17:09	1
Methylene Chloride	ND		1.0		ug/L			04/01/15 17:09	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/01/15 17:09	1
Naphthalene	ND		5.0		ug/L			04/01/15 17:09	1
n-Butylbenzene	ND		1.0		ug/L			04/01/15 17:09	1
N-Propylbenzene	ND		1.0		ug/L			04/01/15 17:09	1
o-Xylene	ND		1.0		ug/L			04/01/15 17:09	1
sec-Butylbenzene	ND		1.0		ug/L			04/01/15 17:09	1
Styrene	ND		1.0		ug/L			04/01/15 17:09	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/01/15 17:09	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/01/15 17:09	1
tert-Butylbenzene	ND		1.0		ug/L			04/01/15 17:09	1
Tetrachloroethene	ND		1.0		ug/L			04/01/15 17:09	1
Tetrahydrofuran	ND		10		ug/L			04/01/15 17:09	1
Toluene	ND		1.0		ug/L			04/01/15 17:09	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/01/15 17:09	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/01/15 17:09	1
Trichloroethene	**33**		1.0		ug/L			04/01/15 17:09	1
Trichlorofluoromethane	ND		1.0		ug/L			04/01/15 17:09	1
Vinyl chloride	ND		1.0		ug/L			04/01/15 17:09	1
Dibromomethane	ND		1.0		ug/L			04/01/15 17:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*90*		*70 - 130*		*04/01/15 17:09*	*1*
1,2-Dichloroethane-d4 (Surr)	*110*		*70 - 130*		*04/01/15 17:09*	*1*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*		*04/01/15 17:09*	*1*

Client Sample ID: SEN-1D-20150331-01 — **Lab Sample ID: 480-77462-11**
Date Collected: 03/31/15 08:50 — **Matrix: Water**
Date Received: 04/01/15 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			04/01/15 17:37	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/01/15 17:37	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/01/15 17:37	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/01/15 17:37	1
1,1-Dichloroethane	**1.4**		1.0		ug/L			04/01/15 17:37	1
1,1-Dichloroethene	ND		1.0		ug/L			04/01/15 17:37	1
1,1-Dichloropropene	ND		1.0		ug/L			04/01/15 17:37	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/01/15 17:37	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/01/15 17:37	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/01/15 17:37	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/01/15 17:37	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/01/15 17:37	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/01/15 17:37	1
1,2-Dichloroethane	ND		1.0		ug/L			04/01/15 17:37	1
1,2-Dichloropropane	ND		1.0		ug/L			04/01/15 17:37	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/01/15 17:37	1

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-77462-1

Client Sample ID: SEN-1D-20150331-01
Date Collected: 03/31/15 08:50
Date Received: 04/01/15 02:30

Lab Sample ID: 480-77462-11
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			04/01/15 17:37	1
1,3-Dichloropropane	ND		1.0		ug/L			04/01/15 17:37	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/01/15 17:37	1
1,4-Dioxane	ND		50		ug/L			04/01/15 17:37	1
2,2-Dichloropropane	ND		1.0		ug/L			04/01/15 17:37	1
2-Butanone (MEK)	ND	*	10		ug/L			04/01/15 17:37	1
2-Chlorotoluene	ND		1.0		ug/L			04/01/15 17:37	1
2-Hexanone	ND	*	10		ug/L			04/01/15 17:37	1
4-Chlorotoluene	ND		1.0		ug/L			04/01/15 17:37	1
4-Isopropyltoluene	ND		1.0		ug/L			04/01/15 17:37	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/01/15 17:37	1
Acetone	ND		50		ug/L			04/01/15 17:37	1
Benzene	ND		1.0		ug/L			04/01/15 17:37	1
Bromobenzene	ND		1.0		ug/L			04/01/15 17:37	1
Bromoform	ND		1.0		ug/L			04/01/15 17:37	1
Bromomethane	ND		2.0		ug/L			04/01/15 17:37	1
Carbon disulfide	ND		10		ug/L			04/01/15 17:37	1
Carbon tetrachloride	ND		1.0		ug/L			04/01/15 17:37	1
Chlorobenzene	ND		1.0		ug/L			04/01/15 17:37	1
Chlorobromomethane	ND		1.0		ug/L			04/01/15 17:37	1
Chlorodibromomethane	ND		0.50		ug/L			04/01/15 17:37	1
Chloroethane	ND		2.0		ug/L			04/01/15 17:37	1
Chloroform	ND		1.0		ug/L			04/01/15 17:37	1
Chloromethane	ND		2.0		ug/L			04/01/15 17:37	1
cis-1,2-Dichloroethene	**2.3**		1.0		ug/L			04/01/15 17:37	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/01/15 17:37	1
Dichlorobromomethane	ND		0.50		ug/L			04/01/15 17:37	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/01/15 17:37	1
Ethyl ether	ND		1.0		ug/L			04/01/15 17:37	1
Ethylbenzene	ND		1.0		ug/L			04/01/15 17:37	1
Ethylene Dibromide	ND		1.0		ug/L			04/01/15 17:37	1
Hexachlorobutadiene	ND		0.40		ug/L			04/01/15 17:37	1
Isopropyl ether	ND		10		ug/L			04/01/15 17:37	1
Isopropylbenzene	ND		1.0		ug/L			04/01/15 17:37	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/01/15 17:37	1
Methylene Chloride	ND		1.0		ug/L			04/01/15 17:37	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/01/15 17:37	1
Naphthalene	ND		5.0		ug/L			04/01/15 17:37	1
n-Butylbenzene	ND		1.0		ug/L			04/01/15 17:37	1
N-Propylbenzene	ND		1.0		ug/L			04/01/15 17:37	1
o-Xylene	ND		1.0		ug/L			04/01/15 17:37	1
sec-Butylbenzene	ND		1.0		ug/L			04/01/15 17:37	1
Styrene	ND		1.0		ug/L			04/01/15 17:37	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/01/15 17:37	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/01/15 17:37	1
tert-Butylbenzene	ND		1.0		ug/L			04/01/15 17:37	1
Tetrachloroethene	ND		1.0		ug/L			04/01/15 17:37	1
Tetrahydrofuran	ND		10		ug/L			04/01/15 17:37	1
Toluene	ND		1.0		ug/L			04/01/15 17:37	1

Client Sample ID: SEN-1D-20150331-01 — **Lab Sample ID: 480-77462-11**
Date Collected: 03/31/15 08:50 — **Matrix: Water**
Date Received: 04/01/15 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		1.0		ug/L			04/01/15 17:37	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/01/15 17:37	1
Trichloroethene	ND		1.0		ug/L			04/01/15 17:37	1
Trichlorofluoromethane	ND		1.0		ug/L			04/01/15 17:37	1
Vinyl chloride	ND		1.0		ug/L			04/01/15 17:37	1
Dibromomethane	ND		1.0		ug/L			04/01/15 17:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*90*		*70 - 130*		*04/01/15 17:37*	*1*
1,2-Dichloroethane-d4 (Surr)	*110*		*70 - 130*		*04/01/15 17:37*	*1*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*		*04/01/15 17:37*	*1*

Client Sample ID: DUP-004-20150331-01 — **Lab Sample ID: 480-77462-12**
Date Collected: 03/31/15 11:11 — **Matrix: Water**
Date Received: 04/01/15 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			04/01/15 18:05	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/01/15 18:05	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/01/15 18:05	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/01/15 18:05	1
1,1-Dichloroethane	ND		1.0		ug/L			04/01/15 18:05	1
1,1-Dichloroethene	ND		1.0		ug/L			04/01/15 18:05	1
1,1-Dichloropropene	ND		1.0		ug/L			04/01/15 18:05	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/01/15 18:05	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/01/15 18:05	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/01/15 18:05	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/01/15 18:05	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/01/15 18:05	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/01/15 18:05	1
1,2-Dichloroethane	ND		1.0		ug/L			04/01/15 18:05	1
1,2-Dichloropropane	ND		1.0		ug/L			04/01/15 18:05	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/01/15 18:05	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/01/15 18:05	1
1,3-Dichloropropane	ND		1.0		ug/L			04/01/15 18:05	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/01/15 18:05	1
1,4-Dioxane	ND		50		ug/L			04/01/15 18:05	1
2,2-Dichloropropane	ND		1.0		ug/L			04/01/15 18:05	1
2-Butanone (MEK)	ND	*	10		ug/L			04/01/15 18:05	1
2-Chlorotoluene	ND		1.0		ug/L			04/01/15 18:05	1
2-Hexanone	ND	*	10		ug/L			04/01/15 18:05	1
4-Chlorotoluene	ND		1.0		ug/L			04/01/15 18:05	1
4-Isopropyltoluene	ND		1.0		ug/L			04/01/15 18:05	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/01/15 18:05	1
Acetone	ND		50		ug/L			04/01/15 18:05	1
Benzene	ND		1.0		ug/L			04/01/15 18:05	1
Bromobenzene	ND		1.0		ug/L			04/01/15 18:05	1
Bromoform	ND		1.0		ug/L			04/01/15 18:05	1
Bromomethane	ND		2.0		ug/L			04/01/15 18:05	1

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-77462-1

Client Sample ID: DUP-004-20150331-01
Date Collected: 03/31/15 11:11
Date Received: 04/01/15 02:30

Lab Sample ID: 480-77462-12
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			04/01/15 18:05	1
Carbon tetrachloride	ND		1.0		ug/L			04/01/15 18:05	1
Chlorobenzene	ND		1.0		ug/L			04/01/15 18:05	1
Chlorobromomethane	ND		1.0		ug/L			04/01/15 18:05	1
Chlorodibromomethane	ND		0.50		ug/L			04/01/15 18:05	1
Chloroethane	ND		2.0		ug/L			04/01/15 18:05	1
Chloroform	ND		1.0		ug/L			04/01/15 18:05	1
Chloromethane	ND		2.0		ug/L			04/01/15 18:05	1
cis-1,2-Dichloroethene	**11**		1.0		ug/L			04/01/15 18:05	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/01/15 18:05	1
Dichlorobromomethane	ND		0.50		ug/L			04/01/15 18:05	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/01/15 18:05	1
Ethyl ether	ND		1.0		ug/L			04/01/15 18:05	1
Ethylbenzene	ND		1.0		ug/L			04/01/15 18:05	1
Ethylene Dibromide	ND		1.0		ug/L			04/01/15 18:05	1
Hexachlorobutadiene	ND		0.40		ug/L			04/01/15 18:05	1
Isopropyl ether	ND		10		ug/L			04/01/15 18:05	1
Isopropylbenzene	ND		1.0		ug/L			04/01/15 18:05	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/01/15 18:05	1
Methylene Chloride	ND		1.0		ug/L			04/01/15 18:05	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/01/15 18:05	1
Naphthalene	ND		5.0		ug/L			04/01/15 18:05	1
n-Butylbenzene	ND		1.0		ug/L			04/01/15 18:05	1
N-Propylbenzene	ND		1.0		ug/L			04/01/15 18:05	1
o-Xylene	ND		1.0		ug/L			04/01/15 18:05	1
sec-Butylbenzene	ND		1.0		ug/L			04/01/15 18:05	1
Styrene	ND		1.0		ug/L			04/01/15 18:05	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/01/15 18:05	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/01/15 18:05	1
tert-Butylbenzene	ND		1.0		ug/L			04/01/15 18:05	1
Tetrachloroethene	ND		1.0		ug/L			04/01/15 18:05	1
Tetrahydrofuran	ND		10		ug/L			04/01/15 18:05	1
Toluene	ND		1.0		ug/L			04/01/15 18:05	1
trans-1,2-Dichloroethene	**1.1**		1.0		ug/L			04/01/15 18:05	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/01/15 18:05	1
Trichloroethene	**34**		1.0		ug/L			04/01/15 18:05	1
Trichlorofluoromethane	ND		1.0		ug/L			04/01/15 18:05	1
Vinyl chloride	ND		1.0		ug/L			04/01/15 18:05	1
Dibromomethane	ND		1.0		ug/L			04/01/15 18:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*89*		*70 - 130*		*04/01/15 18:05*	*1*
1,2-Dichloroethane-d4 (Surr)	*109*		*70 - 130*		*04/01/15 18:05*	*1*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*		*04/01/15 18:05*	*1*

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-77462-1

Client Sample ID: MW-1033-20150331-01
Date Collected: 03/31/15 10:20
Date Received: 04/01/15 02:30

Lab Sample ID: 480-77462-13
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			04/01/15 18:34	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/01/15 18:34	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/01/15 18:34	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/01/15 18:34	1
1,1-Dichloroethane	ND		1.0		ug/L			04/01/15 18:34	1
1,1-Dichloroethene	ND		1.0		ug/L			04/01/15 18:34	1
1,1-Dichloropropene	ND		1.0		ug/L			04/01/15 18:34	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/01/15 18:34	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/01/15 18:34	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/01/15 18:34	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/01/15 18:34	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/01/15 18:34	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/01/15 18:34	1
1,2-Dichloroethane	ND		1.0		ug/L			04/01/15 18:34	1
1,2-Dichloropropane	ND		1.0		ug/L			04/01/15 18:34	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/01/15 18:34	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/01/15 18:34	1
1,3-Dichloropropane	ND		1.0		ug/L			04/01/15 18:34	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/01/15 18:34	1
1,4-Dioxane	ND		50		ug/L			04/01/15 18:34	1
2,2-Dichloropropane	ND		1.0		ug/L			04/01/15 18:34	1
2-Butanone (MEK)	ND	*	10		ug/L			04/01/15 18:34	1
2-Chlorotoluene	ND		1.0		ug/L			04/01/15 18:34	1
2-Hexanone	ND	*	10		ug/L			04/01/15 18:34	1
4-Chlorotoluene	ND		1.0		ug/L			04/01/15 18:34	1
4-Isopropyltoluene	ND		1.0		ug/L			04/01/15 18:34	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/01/15 18:34	1
Acetone	ND		50		ug/L			04/01/15 18:34	1
Benzene	ND		1.0		ug/L			04/01/15 18:34	1
Bromobenzene	ND		1.0		ug/L			04/01/15 18:34	1
Bromoform	ND		1.0		ug/L			04/01/15 18:34	1
Bromomethane	ND		2.0		ug/L			04/01/15 18:34	1
Carbon disulfide	ND		10		ug/L			04/01/15 18:34	1
Carbon tetrachloride	ND		1.0		ug/L			04/01/15 18:34	1
Chlorobenzene	ND		1.0		ug/L			04/01/15 18:34	1
Chlorobromomethane	ND		1.0		ug/L			04/01/15 18:34	1
Chlorodibromomethane	ND		0.50		ug/L			04/01/15 18:34	1
Chloroethane	ND		2.0		ug/L			04/01/15 18:34	1
Chloroform	ND		1.0		ug/L			04/01/15 18:34	1
Chloromethane	ND		2.0		ug/L			04/01/15 18:34	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			04/01/15 18:34	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/01/15 18:34	1
Dichlorobromomethane	ND		0.50		ug/L			04/01/15 18:34	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/01/15 18:34	1
Ethyl ether	ND		1.0		ug/L			04/01/15 18:34	1
Ethylbenzene	ND		1.0		ug/L			04/01/15 18:34	1
Ethylene Dibromide	ND		1.0		ug/L			04/01/15 18:34	1
Hexachlorobutadiene	ND		0.40		ug/L			04/01/15 18:34	1
Isopropyl ether	ND		10		ug/L			04/01/15 18:34	1

Client Sample ID: MW-1033-20150331-01 — **Lab Sample ID: 480-77462-13**
Date Collected: 03/31/15 10:20 — **Matrix: Water**
Date Received: 04/01/15 02:30

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			04/01/15 18:34	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/01/15 18:34	1
Methylene Chloride	ND		1.0		ug/L			04/01/15 18:34	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/01/15 18:34	1
Naphthalene	ND		5.0		ug/L			04/01/15 18:34	1
n-Butylbenzene	ND		1.0		ug/L			04/01/15 18:34	1
N-Propylbenzene	ND		1.0		ug/L			04/01/15 18:34	1
o-Xylene	ND		1.0		ug/L			04/01/15 18:34	1
sec-Butylbenzene	ND		1.0		ug/L			04/01/15 18:34	1
Styrene	ND		1.0		ug/L			04/01/15 18:34	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/01/15 18:34	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/01/15 18:34	1
tert-Butylbenzene	ND		1.0		ug/L			04/01/15 18:34	1
Tetrachloroethene	ND		1.0		ug/L			04/01/15 18:34	1
Tetrahydrofuran	ND		10		ug/L			04/01/15 18:34	1
Toluene	ND		1.0		ug/L			04/01/15 18:34	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/01/15 18:34	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/01/15 18:34	1
Trichloroethene	ND		1.0		ug/L			04/01/15 18:34	1
Trichlorofluoromethane	ND		1.0		ug/L			04/01/15 18:34	1
Vinyl chloride	ND		1.0		ug/L			04/01/15 18:34	1
Dibromomethane	ND		1.0		ug/L			04/01/15 18:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*87*		*70 - 130*		*04/01/15 18:34*	*1*
1,2-Dichloroethane-d4 (Surr)	*109*		*70 - 130*		*04/01/15 18:34*	*1*
4-Bromofluorobenzene (Surr)	*86*		*70 - 130*		*04/01/15 18:34*	*1*

Client Sample ID: MW-1027-20150331-01 — **Lab Sample ID: 480-77462-14**
Date Collected: 03/31/15 10:55 — **Matrix: Water**
Date Received: 04/01/15 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			04/01/15 19:02	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/01/15 19:02	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/01/15 19:02	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/01/15 19:02	1
1,1-Dichloroethane	ND		1.0		ug/L			04/01/15 19:02	1
1,1-Dichloroethene	ND		1.0		ug/L			04/01/15 19:02	1
1,1-Dichloropropene	ND		1.0		ug/L			04/01/15 19:02	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/01/15 19:02	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/01/15 19:02	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/01/15 19:02	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/01/15 19:02	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/01/15 19:02	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/01/15 19:02	1
1,2-Dichloroethane	ND		1.0		ug/L			04/01/15 19:02	1
1,2-Dichloropropane	ND		1.0		ug/L			04/01/15 19:02	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/01/15 19:02	1

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-77462-1

Client Sample ID: MW-1027-20150331-01
Date Collected: 03/31/15 10:55
Date Received: 04/01/15 02:30

Lab Sample ID: 480-77462-14
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			04/01/15 19:02	1
1,3-Dichloropropane	ND		1.0		ug/L			04/01/15 19:02	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/01/15 19:02	1
1,4-Dioxane	ND		50		ug/L			04/01/15 19:02	1
2,2-Dichloropropane	ND		1.0		ug/L			04/01/15 19:02	1
2-Butanone (MEK)	ND	*	10		ug/L			04/01/15 19:02	1
2-Chlorotoluene	ND		1.0		ug/L			04/01/15 19:02	1
2-Hexanone	ND	*	10		ug/L			04/01/15 19:02	1
4-Chlorotoluene	ND		1.0		ug/L			04/01/15 19:02	1
4-Isopropyltoluene	ND		1.0		ug/L			04/01/15 19:02	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/01/15 19:02	1
Acetone	ND		50		ug/L			04/01/15 19:02	1
Benzene	ND		1.0		ug/L			04/01/15 19:02	1
Bromobenzene	ND		1.0		ug/L			04/01/15 19:02	1
Bromoform	ND		1.0		ug/L			04/01/15 19:02	1
Bromomethane	ND		2.0		ug/L			04/01/15 19:02	1
Carbon disulfide	ND		10		ug/L			04/01/15 19:02	1
Carbon tetrachloride	ND		1.0		ug/L			04/01/15 19:02	1
Chlorobenzene	ND		1.0		ug/L			04/01/15 19:02	1
Chlorobromomethane	ND		1.0		ug/L			04/01/15 19:02	1
Chlorodibromomethane	ND		0.50		ug/L			04/01/15 19:02	1
Chloroethane	ND		2.0		ug/L			04/01/15 19:02	1
Chloroform	ND		1.0		ug/L			04/01/15 19:02	1
Chloromethane	ND		2.0		ug/L			04/01/15 19:02	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			04/01/15 19:02	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/01/15 19:02	1
Dichlorobromomethane	ND		0.50		ug/L			04/01/15 19:02	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/01/15 19:02	1
Ethyl ether	ND		1.0		ug/L			04/01/15 19:02	1
Ethylbenzene	ND		1.0		ug/L			04/01/15 19:02	1
Ethylene Dibromide	ND		1.0		ug/L			04/01/15 19:02	1
Hexachlorobutadiene	ND		0.40		ug/L			04/01/15 19:02	1
Isopropyl ether	ND		10		ug/L			04/01/15 19:02	1
Isopropylbenzene	ND		1.0		ug/L			04/01/15 19:02	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/01/15 19:02	1
Methylene Chloride	ND		1.0		ug/L			04/01/15 19:02	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/01/15 19:02	1
Naphthalene	ND		5.0		ug/L			04/01/15 19:02	1
n-Butylbenzene	ND		1.0		ug/L			04/01/15 19:02	1
N-Propylbenzene	ND		1.0		ug/L			04/01/15 19:02	1
o-Xylene	ND		1.0		ug/L			04/01/15 19:02	1
sec-Butylbenzene	ND		1.0		ug/L			04/01/15 19:02	1
Styrene	ND		1.0		ug/L			04/01/15 19:02	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/01/15 19:02	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/01/15 19:02	1
tert-Butylbenzene	ND		1.0		ug/L			04/01/15 19:02	1
Tetrachloroethene	ND		1.0		ug/L			04/01/15 19:02	1
Tetrahydrofuran	ND		10		ug/L			04/01/15 19:02	1
Toluene	ND		1.0		ug/L			04/01/15 19:02	1

Client Sample ID: MW-1027-20150331-01 — **Lab Sample ID: 480-77462-14**
Date Collected: 03/31/15 10:55 — **Matrix: Water**
Date Received: 04/01/15 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		1.0		ug/L			04/01/15 19:02	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/01/15 19:02	1
Trichloroethene	ND		1.0		ug/L			04/01/15 19:02	1
Trichlorofluoromethane	ND		1.0		ug/L			04/01/15 19:02	1
Vinyl chloride	ND		1.0		ug/L			04/01/15 19:02	1
Dibromomethane	ND		1.0		ug/L			04/01/15 19:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*86*		*70 - 130*		*04/01/15 19:02*	*1*
1,2-Dichloroethane-d4 (Surr)	*113*		*70 - 130*		*04/01/15 19:02*	*1*
4-Bromofluorobenzene (Surr)	*89*		*70 - 130*		*04/01/15 19:02*	*1*

Client Sample ID: MW-1013-20150331-01 — **Lab Sample ID: 480-77462-15**
Date Collected: 03/31/15 11:30 — **Matrix: Water**
Date Received: 04/01/15 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			04/01/15 19:30	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/01/15 19:30	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/01/15 19:30	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/01/15 19:30	1
1,1-Dichloroethane	ND		1.0		ug/L			04/01/15 19:30	1
1,1-Dichloroethene	ND		1.0		ug/L			04/01/15 19:30	1
1,1-Dichloropropene	ND		1.0		ug/L			04/01/15 19:30	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/01/15 19:30	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/01/15 19:30	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/01/15 19:30	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/01/15 19:30	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/01/15 19:30	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/01/15 19:30	1
1,2-Dichloroethane	ND		1.0		ug/L			04/01/15 19:30	1
1,2-Dichloropropane	ND		1.0		ug/L			04/01/15 19:30	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/01/15 19:30	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/01/15 19:30	1
1,3-Dichloropropane	ND		1.0		ug/L			04/01/15 19:30	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/01/15 19:30	1
1,4-Dioxane	ND		50		ug/L			04/01/15 19:30	1
2,2-Dichloropropane	ND		1.0		ug/L			04/01/15 19:30	1
2-Butanone (MEK)	ND	*	10		ug/L			04/01/15 19:30	1
2-Chlorotoluene	ND		1.0		ug/L			04/01/15 19:30	1
2-Hexanone	ND	*	10		ug/L			04/01/15 19:30	1
4-Chlorotoluene	ND		1.0		ug/L			04/01/15 19:30	1
4-Isopropyltoluene	ND		1.0		ug/L			04/01/15 19:30	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/01/15 19:30	1
Acetone	ND		50		ug/L			04/01/15 19:30	1
Benzene	ND		1.0		ug/L			04/01/15 19:30	1
Bromobenzene	ND		1.0		ug/L			04/01/15 19:30	1
Bromoform	ND		1.0		ug/L			04/01/15 19:30	1
Bromomethane	ND		2.0		ug/L			04/01/15 19:30	1

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-77462-1

Client Sample ID: MW-1013-20150331-01
Date Collected: 03/31/15 11:30
Date Received: 04/01/15 02:30

Lab Sample ID: 480-77462-15
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			04/01/15 19:30	1
Carbon tetrachloride	ND		1.0		ug/L			04/01/15 19:30	1
Chlorobenzene	ND		1.0		ug/L			04/01/15 19:30	1
Chlorobromomethane	ND		1.0		ug/L			04/01/15 19:30	1
Chlorodibromomethane	ND		0.50		ug/L			04/01/15 19:30	1
Chloroethane	ND		2.0		ug/L			04/01/15 19:30	1
Chloroform	ND		1.0		ug/L			04/01/15 19:30	1
Chloromethane	ND		2.0		ug/L			04/01/15 19:30	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			04/01/15 19:30	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/01/15 19:30	1
Dichlorobromomethane	ND		0.50		ug/L			04/01/15 19:30	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/01/15 19:30	1
Ethyl ether	ND		1.0		ug/L			04/01/15 19:30	1
Ethylbenzene	ND		1.0		ug/L			04/01/15 19:30	1
Ethylene Dibromide	ND		1.0		ug/L			04/01/15 19:30	1
Hexachlorobutadiene	ND		0.40		ug/L			04/01/15 19:30	1
Isopropyl ether	ND		10		ug/L			04/01/15 19:30	1
Isopropylbenzene	ND		1.0		ug/L			04/01/15 19:30	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/01/15 19:30	1
Methylene Chloride	ND		1.0		ug/L			04/01/15 19:30	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/01/15 19:30	1
Naphthalene	ND		5.0		ug/L			04/01/15 19:30	1
n-Butylbenzene	ND		1.0		ug/L			04/01/15 19:30	1
N-Propylbenzene	ND		1.0		ug/L			04/01/15 19:30	1
o-Xylene	ND		1.0		ug/L			04/01/15 19:30	1
sec-Butylbenzene	ND		1.0		ug/L			04/01/15 19:30	1
Styrene	ND		1.0		ug/L			04/01/15 19:30	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/01/15 19:30	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/01/15 19:30	1
tert-Butylbenzene	ND		1.0		ug/L			04/01/15 19:30	1
Tetrachloroethene	ND		1.0		ug/L			04/01/15 19:30	1
Tetrahydrofuran	ND		10		ug/L			04/01/15 19:30	1
Toluene	ND		1.0		ug/L			04/01/15 19:30	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/01/15 19:30	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/01/15 19:30	1
Trichloroethene	ND		1.0		ug/L			04/01/15 19:30	1
Trichlorofluoromethane	ND		1.0		ug/L			04/01/15 19:30	1
Vinyl chloride	ND		1.0		ug/L			04/01/15 19:30	1
Dibromomethane	ND		1.0		ug/L			04/01/15 19:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*85*		*70 - 130*		*04/01/15 19:30*	*1*
1,2-Dichloroethane-d4 (Surr)	*115*		*70 - 130*		*04/01/15 19:30*	*1*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*		*04/01/15 19:30*	*1*

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-77462-1

Client Sample ID: MW-1025M-20150331-01
Date Collected: 03/31/15 09:15
Date Received: 04/01/15 02:30

Lab Sample ID: 480-77462-16
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			04/01/15 19:58	1
1,1,1-Trichloroethane	**3.7**		1.0		ug/L			04/01/15 19:58	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/01/15 19:58	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/01/15 19:58	1
1,1-Dichloroethane	**3.2**		1.0		ug/L			04/01/15 19:58	1
1,1-Dichloroethene	**3.8**		1.0		ug/L			04/01/15 19:58	1
1,1-Dichloropropene	ND		1.0		ug/L			04/01/15 19:58	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/01/15 19:58	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/01/15 19:58	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/01/15 19:58	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/01/15 19:58	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/01/15 19:58	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/01/15 19:58	1
1,2-Dichloroethane	ND		1.0		ug/L			04/01/15 19:58	1
1,2-Dichloropropane	ND		1.0		ug/L			04/01/15 19:58	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/01/15 19:58	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/01/15 19:58	1
1,3-Dichloropropane	ND		1.0		ug/L			04/01/15 19:58	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/01/15 19:58	1
1,4-Dioxane	ND		50		ug/L			04/01/15 19:58	1
2,2-Dichloropropane	ND		1.0		ug/L			04/01/15 19:58	1
2-Butanone (MEK)	ND	*	10		ug/L			04/01/15 19:58	1
2-Chlorotoluene	ND		1.0		ug/L			04/01/15 19:58	1
2-Hexanone	ND	*	10		ug/L			04/01/15 19:58	1
4-Chlorotoluene	ND		1.0		ug/L			04/01/15 19:58	1
4-Isopropyltoluene	ND		1.0		ug/L			04/01/15 19:58	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/01/15 19:58	1
Acetone	ND		50		ug/L			04/01/15 19:58	1
Benzene	ND		1.0		ug/L			04/01/15 19:58	1
Bromobenzene	ND		1.0		ug/L			04/01/15 19:58	1
Bromoform	ND		1.0		ug/L			04/01/15 19:58	1
Bromomethane	ND		2.0		ug/L			04/01/15 19:58	1
Carbon disulfide	ND		10		ug/L			04/01/15 19:58	1
Carbon tetrachloride	ND		1.0		ug/L			04/01/15 19:58	1
Chlorobenzene	ND		1.0		ug/L			04/01/15 19:58	1
Chlorobromomethane	ND		1.0		ug/L			04/01/15 19:58	1
Chlorodibromomethane	ND		0.50		ug/L			04/01/15 19:58	1
Chloroethane	ND		2.0		ug/L			04/01/15 19:58	1
Chloroform	ND		1.0		ug/L			04/01/15 19:58	1
Chloromethane	ND		2.0		ug/L			04/01/15 19:58	1
cis-1,2-Dichloroethene	**3.2**		1.0		ug/L			04/01/15 19:58	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/01/15 19:58	1
Dichlorobromomethane	ND		0.50		ug/L			04/01/15 19:58	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/01/15 19:58	1
Ethyl ether	ND		1.0		ug/L			04/01/15 19:58	1
Ethylbenzene	ND		1.0		ug/L			04/01/15 19:58	1
Ethylene Dibromide	ND		1.0		ug/L			04/01/15 19:58	1
Hexachlorobutadiene	ND		0.40		ug/L			04/01/15 19:58	1
Isopropyl ether	ND		10		ug/L			04/01/15 19:58	1

Client Sample ID: MW-1025M-20150331-01 — **Lab Sample ID: 480-77462-16**
Date Collected: 03/31/15 09:15 — **Matrix: Water**
Date Received: 04/01/15 02:30

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			04/01/15 19:58	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/01/15 19:58	1
Methylene Chloride	ND		1.0		ug/L			04/01/15 19:58	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/01/15 19:58	1
Naphthalene	ND		5.0		ug/L			04/01/15 19:58	1
n-Butylbenzene	ND		1.0		ug/L			04/01/15 19:58	1
N-Propylbenzene	ND		1.0		ug/L			04/01/15 19:58	1
o-Xylene	ND		1.0		ug/L			04/01/15 19:58	1
sec-Butylbenzene	ND		1.0		ug/L			04/01/15 19:58	1
Styrene	ND		1.0		ug/L			04/01/15 19:58	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/01/15 19:58	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/01/15 19:58	1
tert-Butylbenzene	ND		1.0		ug/L			04/01/15 19:58	1
Tetrachloroethene	ND		1.0		ug/L			04/01/15 19:58	1
Tetrahydrofuran	ND		10		ug/L			04/01/15 19:58	1
Toluene	ND		1.0		ug/L			04/01/15 19:58	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/01/15 19:58	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/01/15 19:58	1
Trichloroethene	**98**		1.0		ug/L			04/01/15 19:58	1
Trichlorofluoromethane	ND		1.0		ug/L			04/01/15 19:58	1
Vinyl chloride	ND		1.0		ug/L			04/01/15 19:58	1
Dibromomethane	ND		1.0		ug/L			04/01/15 19:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*92*		*70 - 130*		*04/01/15 19:58*	*1*
1,2-Dichloroethane-d4 (Surr)	*110*		*70 - 130*		*04/01/15 19:58*	*1*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*		*04/01/15 19:58*	*1*

Client Sample ID: DUP-003-20150331-01 — **Lab Sample ID: 480-77462-17**
Date Collected: 03/31/15 12:12 — **Matrix: Water**
Date Received: 04/01/15 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			04/01/15 20:26	1
1,1,1-Trichloroethane	**3.9**		1.0		ug/L			04/01/15 20:26	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/01/15 20:26	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/01/15 20:26	1
1,1-Dichloroethane	**3.1**		1.0		ug/L			04/01/15 20:26	1
1,1-Dichloroethene	**4.3**		1.0		ug/L			04/01/15 20:26	1
1,1-Dichloropropene	ND		1.0		ug/L			04/01/15 20:26	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/01/15 20:26	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/01/15 20:26	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/01/15 20:26	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/01/15 20:26	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/01/15 20:26	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/01/15 20:26	1
1,2-Dichloroethane	ND		1.0		ug/L			04/01/15 20:26	1
1,2-Dichloropropane	ND		1.0		ug/L			04/01/15 20:26	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/01/15 20:26	1

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-77462-1

Client Sample ID: DUP-003-20150331-01
Date Collected: 03/31/15 12:12
Date Received: 04/01/15 02:30

Lab Sample ID: 480-77462-17
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			04/01/15 20:26	1
1,3-Dichloropropane	ND		1.0		ug/L			04/01/15 20:26	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/01/15 20:26	1
1,4-Dioxane	ND		50		ug/L			04/01/15 20:26	1
2,2-Dichloropropane	ND		1.0		ug/L			04/01/15 20:26	1
2-Butanone (MEK)	ND	*	10		ug/L			04/01/15 20:26	1
2-Chlorotoluene	ND		1.0		ug/L			04/01/15 20:26	1
2-Hexanone	ND	*	10		ug/L			04/01/15 20:26	1
4-Chlorotoluene	ND		1.0		ug/L			04/01/15 20:26	1
4-Isopropyltoluene	ND		1.0		ug/L			04/01/15 20:26	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/01/15 20:26	1
Acetone	ND		50		ug/L			04/01/15 20:26	1
Benzene	ND		1.0		ug/L			04/01/15 20:26	1
Bromobenzene	ND		1.0		ug/L			04/01/15 20:26	1
Bromoform	ND		1.0		ug/L			04/01/15 20:26	1
Bromomethane	ND		2.0		ug/L			04/01/15 20:26	1
Carbon disulfide	ND		10		ug/L			04/01/15 20:26	1
Carbon tetrachloride	ND		1.0		ug/L			04/01/15 20:26	1
Chlorobenzene	ND		1.0		ug/L			04/01/15 20:26	1
Chlorobromomethane	ND		1.0		ug/L			04/01/15 20:26	1
Chlorodibromomethane	ND		0.50		ug/L			04/01/15 20:26	1
Chloroethane	ND		2.0		ug/L			04/01/15 20:26	1
Chloroform	ND		1.0		ug/L			04/01/15 20:26	1
Chloromethane	ND		2.0		ug/L			04/01/15 20:26	1
cis-1,2-Dichloroethene	**3.4**		1.0		ug/L			04/01/15 20:26	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/01/15 20:26	1
Dichlorobromomethane	ND		0.50		ug/L			04/01/15 20:26	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/01/15 20:26	1
Ethyl ether	ND		1.0		ug/L			04/01/15 20:26	1
Ethylbenzene	ND		1.0		ug/L			04/01/15 20:26	1
Ethylene Dibromide	ND		1.0		ug/L			04/01/15 20:26	1
Hexachlorobutadiene	ND		0.40		ug/L			04/01/15 20:26	1
Isopropyl ether	ND		10		ug/L			04/01/15 20:26	1
Isopropylbenzene	ND		1.0		ug/L			04/01/15 20:26	1
Methyl tert-butyl ether	**1.1**		1.0		ug/L			04/01/15 20:26	1
Methylene Chloride	ND		1.0		ug/L			04/01/15 20:26	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/01/15 20:26	1
Naphthalene	ND		5.0		ug/L			04/01/15 20:26	1
n-Butylbenzene	ND		1.0		ug/L			04/01/15 20:26	1
N-Propylbenzene	ND		1.0		ug/L			04/01/15 20:26	1
o-Xylene	ND		1.0		ug/L			04/01/15 20:26	1
sec-Butylbenzene	ND		1.0		ug/L			04/01/15 20:26	1
Styrene	ND		1.0		ug/L			04/01/15 20:26	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/01/15 20:26	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/01/15 20:26	1
tert-Butylbenzene	ND		1.0		ug/L			04/01/15 20:26	1
Tetrachloroethene	ND		1.0		ug/L			04/01/15 20:26	1
Tetrahydrofuran	ND		10		ug/L			04/01/15 20:26	1
Toluene	ND		1.0		ug/L			04/01/15 20:26	1

Client Sample ID: DUP-003-20150331-01 — **Lab Sample ID: 480-77462-17**
Date Collected: 03/31/15 12:12 — **Matrix: Water**
Date Received: 04/01/15 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		1.0		ug/L			04/01/15 20:26	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/01/15 20:26	1
Trichlorofluoromethane	ND		1.0		ug/L			04/01/15 20:26	1
Vinyl chloride	ND		1.0		ug/L			04/01/15 20:26	1
Dibromomethane	ND		1.0		ug/L			04/01/15 20:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*92*		*70 - 130*		*04/01/15 20:26*	*1*
1,2-Dichloroethane-d4 (Surr)	*109*		*70 - 130*		*04/01/15 20:26*	*1*
4-Bromofluorobenzene (Surr)	*88*		*70 - 130*		*04/01/15 20:26*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	97		2.0		ug/L			04/02/15 13:13	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*89*		*70 - 130*		*04/02/15 13:13*	*2*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 130*		*04/02/15 13:13*	*2*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*		*04/02/15 13:13*	*2*

Client Sample ID: MW-1025D-20150331-01 — **Lab Sample ID: 480-77462-18**
Date Collected: 03/31/15 09:30 — **Matrix: Water**
Date Received: 04/01/15 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			04/02/15 13:41	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/02/15 13:41	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/02/15 13:41	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/02/15 13:41	1
1,1-Dichloroethane	ND		1.0		ug/L			04/02/15 13:41	1
1,1-Dichloroethene	ND		1.0		ug/L			04/02/15 13:41	1
1,1-Dichloropropene	ND		1.0		ug/L			04/02/15 13:41	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/02/15 13:41	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/02/15 13:41	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/02/15 13:41	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/02/15 13:41	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/02/15 13:41	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/02/15 13:41	1
1,2-Dichloroethane	ND		1.0		ug/L			04/02/15 13:41	1
1,2-Dichloropropane	ND		1.0		ug/L			04/02/15 13:41	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/02/15 13:41	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/02/15 13:41	1
1,3-Dichloropropane	ND		1.0		ug/L			04/02/15 13:41	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/02/15 13:41	1
1,4-Dioxane	ND		50		ug/L			04/02/15 13:41	1
2,2-Dichloropropane	ND		1.0		ug/L			04/02/15 13:41	1
2-Butanone (MEK)	ND	*	10		ug/L			04/02/15 13:41	1
2-Chlorotoluene	ND		1.0		ug/L			04/02/15 13:41	1
2-Hexanone	ND	*	10		ug/L			04/02/15 13:41	1

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-77462-1

Client Sample ID: MW-1025D-20150331-01
Date Collected: 03/31/15 09:30
Date Received: 04/01/15 02:30

Lab Sample ID: 480-77462-18
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			04/02/15 13:41	1
4-Isopropyltoluene	ND		1.0		ug/L			04/02/15 13:41	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/02/15 13:41	1
Acetone	ND		50		ug/L			04/02/15 13:41	1
Benzene	ND		1.0		ug/L			04/02/15 13:41	1
Bromobenzene	ND		1.0		ug/L			04/02/15 13:41	1
Bromoform	ND		1.0		ug/L			04/02/15 13:41	1
Bromomethane	ND		2.0		ug/L			04/02/15 13:41	1
Carbon disulfide	ND		10		ug/L			04/02/15 13:41	1
Carbon tetrachloride	ND		1.0		ug/L			04/02/15 13:41	1
Chlorobenzene	ND		1.0		ug/L			04/02/15 13:41	1
Chlorobromomethane	ND		1.0		ug/L			04/02/15 13:41	1
Chlorodibromomethane	ND		0.50		ug/L			04/02/15 13:41	1
Chloroethane	ND		2.0		ug/L			04/02/15 13:41	1
Chloroform	ND		1.0		ug/L			04/02/15 13:41	1
Chloromethane	ND		2.0		ug/L			04/02/15 13:41	1
cis-1,2-Dichloroethene	**1.0**		1.0		ug/L			04/02/15 13:41	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/02/15 13:41	1
Dichlorobromomethane	ND		0.50		ug/L			04/02/15 13:41	1
Dichlorodifluoromethane	ND	*	1.0		ug/L			04/02/15 13:41	1
Ethyl ether	ND		1.0		ug/L			04/02/15 13:41	1
Ethylbenzene	ND		1.0		ug/L			04/02/15 13:41	1
Ethylene Dibromide	ND		1.0		ug/L			04/02/15 13:41	1
Hexachlorobutadiene	ND		0.40		ug/L			04/02/15 13:41	1
Isopropyl ether	ND		10		ug/L			04/02/15 13:41	1
Isopropylbenzene	ND		1.0		ug/L			04/02/15 13:41	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/02/15 13:41	1
Methylene Chloride	ND		1.0		ug/L			04/02/15 13:41	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/02/15 13:41	1
Naphthalene	ND		5.0		ug/L			04/02/15 13:41	1
n-Butylbenzene	ND		1.0		ug/L			04/02/15 13:41	1
N-Propylbenzene	ND		1.0		ug/L			04/02/15 13:41	1
o-Xylene	ND		1.0		ug/L			04/02/15 13:41	1
sec-Butylbenzene	ND		1.0		ug/L			04/02/15 13:41	1
Styrene	ND		1.0		ug/L			04/02/15 13:41	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/02/15 13:41	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/02/15 13:41	1
tert-Butylbenzene	ND		1.0		ug/L			04/02/15 13:41	1
Tetrachloroethene	ND		1.0		ug/L			04/02/15 13:41	1
Tetrahydrofuran	ND		10		ug/L			04/02/15 13:41	1
Toluene	ND		1.0		ug/L			04/02/15 13:41	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/02/15 13:41	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/02/15 13:41	1
Trichloroethene	ND		1.0		ug/L			04/02/15 13:41	1
Trichlorofluoromethane	ND		1.0		ug/L			04/02/15 13:41	1
Vinyl chloride	ND		1.0		ug/L			04/02/15 13:41	1
Dibromomethane	ND		1.0		ug/L			04/02/15 13:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*86*		*70 - 130*		*04/02/15 13:41*	*1*

Client Sample ID: MW-1025D-20150331-01 — **Lab Sample ID: 480-77462-18**
Date Collected: 03/31/15 09:30 — **Matrix: Water**
Date Received: 04/01/15 02:30

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*104*		*70 - 130*		*04/02/15 13:41*	*1*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*		*04/02/15 13:41*	*1*

Client Sample ID: MW-1023-20150331-01 — **Lab Sample ID: 480-77462-19**
Date Collected: 03/31/15 10:45 — **Matrix: Water**
Date Received: 04/01/15 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			04/02/15 14:10	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/02/15 14:10	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/02/15 14:10	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/02/15 14:10	1
1,1-Dichloroethane	ND		1.0		ug/L			04/02/15 14:10	1
1,1-Dichloroethene	ND		1.0		ug/L			04/02/15 14:10	1
1,1-Dichloropropene	ND		1.0		ug/L			04/02/15 14:10	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/02/15 14:10	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/02/15 14:10	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/02/15 14:10	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/02/15 14:10	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/02/15 14:10	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/02/15 14:10	1
1,2-Dichloroethane	ND		1.0		ug/L			04/02/15 14:10	1
1,2-Dichloropropane	ND		1.0		ug/L			04/02/15 14:10	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/02/15 14:10	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/02/15 14:10	1
1,3-Dichloropropane	ND		1.0		ug/L			04/02/15 14:10	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/02/15 14:10	1
1,4-Dioxane	ND		50		ug/L			04/02/15 14:10	1
2,2-Dichloropropane	ND		1.0		ug/L			04/02/15 14:10	1
2-Butanone (MEK)	ND	*	10		ug/L			04/02/15 14:10	1
2-Chlorotoluene	ND		1.0		ug/L			04/02/15 14:10	1
2-Hexanone	ND	*	10		ug/L			04/02/15 14:10	1
4-Chlorotoluene	ND		1.0		ug/L			04/02/15 14:10	1
4-Isopropyltoluene	ND		1.0		ug/L			04/02/15 14:10	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/02/15 14:10	1
Acetone	ND		50		ug/L			04/02/15 14:10	1
Benzene	ND		1.0		ug/L			04/02/15 14:10	1
Bromobenzene	ND		1.0		ug/L			04/02/15 14:10	1
Bromoform	ND		1.0		ug/L			04/02/15 14:10	1
Bromomethane	ND		2.0		ug/L			04/02/15 14:10	1
Carbon disulfide	ND		10		ug/L			04/02/15 14:10	1
Carbon tetrachloride	ND		1.0		ug/L			04/02/15 14:10	1
Chlorobenzene	ND		1.0		ug/L			04/02/15 14:10	1
Chlorobromomethane	ND		1.0		ug/L			04/02/15 14:10	1
Chlorodibromomethane	ND		0.50		ug/L			04/02/15 14:10	1
Chloroethane	ND		2.0		ug/L			04/02/15 14:10	1
Chloroform	ND		1.0		ug/L			04/02/15 14:10	1
Chloromethane	ND		2.0		ug/L			04/02/15 14:10	1

Client Sample ID: MW-1023-20150331-01 — **Lab Sample ID: 480-77462-19**
Date Collected: 03/31/15 10:45 — **Matrix: Water**
Date Received: 04/01/15 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	**1.0**		1.0		ug/L			04/02/15 14:10	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/02/15 14:10	1
Dichlorobromomethane	ND		0.50		ug/L			04/02/15 14:10	1
Dichlorodifluoromethane	ND	*	1.0		ug/L			04/02/15 14:10	1
Ethyl ether	ND		1.0		ug/L			04/02/15 14:10	1
Ethylbenzene	ND		1.0		ug/L			04/02/15 14:10	1
Ethylene Dibromide	ND		1.0		ug/L			04/02/15 14:10	1
Hexachlorobutadiene	ND		0.40		ug/L			04/02/15 14:10	1
Isopropyl ether	ND		10		ug/L			04/02/15 14:10	1
Isopropylbenzene	ND		1.0		ug/L			04/02/15 14:10	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/02/15 14:10	1
Methylene Chloride	ND		1.0		ug/L			04/02/15 14:10	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/02/15 14:10	1
Naphthalene	ND		5.0		ug/L			04/02/15 14:10	1
n-Butylbenzene	ND		1.0		ug/L			04/02/15 14:10	1
N-Propylbenzene	ND		1.0		ug/L			04/02/15 14:10	1
o-Xylene	ND		1.0		ug/L			04/02/15 14:10	1
sec-Butylbenzene	ND		1.0		ug/L			04/02/15 14:10	1
Styrene	ND		1.0		ug/L			04/02/15 14:10	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/02/15 14:10	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/02/15 14:10	1
tert-Butylbenzene	ND		1.0		ug/L			04/02/15 14:10	1
Tetrachloroethene	ND		1.0		ug/L			04/02/15 14:10	1
Tetrahydrofuran	ND		10		ug/L			04/02/15 14:10	1
Toluene	ND		1.0		ug/L			04/02/15 14:10	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/02/15 14:10	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/02/15 14:10	1
Trichloroethene	**14**		1.0		ug/L			04/02/15 14:10	1
Trichlorofluoromethane	ND		1.0		ug/L			04/02/15 14:10	1
Vinyl chloride	ND		1.0		ug/L			04/02/15 14:10	1
Dibromomethane	ND		1.0		ug/L			04/02/15 14:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*88*		*70 - 130*		*04/02/15 14:10*	*1*
1,2-Dichloroethane-d4 (Surr)	*106*		*70 - 130*		*04/02/15 14:10*	*1*
4-Bromofluorobenzene (Surr)	*87*		*70 - 130*		*04/02/15 14:10*	*1*

Client Sample ID: TB-001-20150331-01 — **Lab Sample ID: 480-77462-20**
Date Collected: 03/31/15 10:10 — **Matrix: Water**
Date Received: 04/01/15 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			04/02/15 14:38	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/02/15 14:38	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/02/15 14:38	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/02/15 14:38	1
1,1-Dichloroethane	ND		1.0		ug/L			04/02/15 14:38	1
1,1-Dichloroethene	ND		1.0		ug/L			04/02/15 14:38	1
1,1-Dichloropropene	ND		1.0		ug/L			04/02/15 14:38	1

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-77462-1

Client Sample ID: TB-001-20150331-01
Date Collected: 03/31/15 10:10
Date Received: 04/01/15 02:30

Lab Sample ID: 480-77462-20
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		1.0		ug/L			04/02/15 14:38	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/02/15 14:38	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/02/15 14:38	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/02/15 14:38	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/02/15 14:38	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/02/15 14:38	1
1,2-Dichloroethane	ND		1.0		ug/L			04/02/15 14:38	1
1,2-Dichloropropane	ND		1.0		ug/L			04/02/15 14:38	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/02/15 14:38	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/02/15 14:38	1
1,3-Dichloropropane	ND		1.0		ug/L			04/02/15 14:38	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/02/15 14:38	1
1,4-Dioxane	ND		50		ug/L			04/02/15 14:38	1
2,2-Dichloropropane	ND		1.0		ug/L			04/02/15 14:38	1
2-Butanone (MEK)	ND	*	10		ug/L			04/02/15 14:38	1
2-Chlorotoluene	ND		1.0		ug/L			04/02/15 14:38	1
2-Hexanone	ND	*	10		ug/L			04/02/15 14:38	1
4-Chlorotoluene	ND		1.0		ug/L			04/02/15 14:38	1
4-Isopropyltoluene	ND		1.0		ug/L			04/02/15 14:38	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/02/15 14:38	1
Acetone	ND		50		ug/L			04/02/15 14:38	1
Benzene	ND		1.0		ug/L			04/02/15 14:38	1
Bromobenzene	ND		1.0		ug/L			04/02/15 14:38	1
Bromoform	ND		1.0		ug/L			04/02/15 14:38	1
Bromomethane	ND		2.0		ug/L			04/02/15 14:38	1
Carbon disulfide	ND		10		ug/L			04/02/15 14:38	1
Carbon tetrachloride	ND		1.0		ug/L			04/02/15 14:38	1
Chlorobenzene	ND		1.0		ug/L			04/02/15 14:38	1
Chlorobromomethane	ND		1.0		ug/L			04/02/15 14:38	1
Chlorodibromomethane	ND		0.50		ug/L			04/02/15 14:38	1
Chloroethane	ND		2.0		ug/L			04/02/15 14:38	1
Chloroform	ND		1.0		ug/L			04/02/15 14:38	1
Chloromethane	ND		2.0		ug/L			04/02/15 14:38	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			04/02/15 14:38	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/02/15 14:38	1
Dichlorobromomethane	ND		0.50		ug/L			04/02/15 14:38	1
Dichlorodifluoromethane	ND	*	1.0		ug/L			04/02/15 14:38	1
Ethyl ether	ND		1.0		ug/L			04/02/15 14:38	1
Ethylbenzene	ND		1.0		ug/L			04/02/15 14:38	1
Ethylene Dibromide	ND		1.0		ug/L			04/02/15 14:38	1
Hexachlorobutadiene	ND		0.40		ug/L			04/02/15 14:38	1
Isopropyl ether	ND		10		ug/L			04/02/15 14:38	1
Isopropylbenzene	ND		1.0		ug/L			04/02/15 14:38	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/02/15 14:38	1
Methylene Chloride	ND		1.0		ug/L			04/02/15 14:38	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/02/15 14:38	1
Naphthalene	ND		5.0		ug/L			04/02/15 14:38	1
n-Butylbenzene	ND		1.0		ug/L			04/02/15 14:38	1
N-Propylbenzene	ND		1.0		ug/L			04/02/15 14:38	1

Client Sample ID: TB-001-20150331-01 — **Lab Sample ID: 480-77462-20**
Date Collected: 03/31/15 10:10 — **Matrix: Water**
Date Received: 04/01/15 02:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	ND		1.0		ug/L			04/02/15 14:38	1
sec-Butylbenzene	ND		1.0		ug/L			04/02/15 14:38	1
Styrene	ND		1.0		ug/L			04/02/15 14:38	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/02/15 14:38	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/02/15 14:38	1
tert-Butylbenzene	ND		1.0		ug/L			04/02/15 14:38	1
Tetrachloroethene	ND		1.0		ug/L			04/02/15 14:38	1
Tetrahydrofuran	ND		10		ug/L			04/02/15 14:38	1
Toluene	ND		1.0		ug/L			04/02/15 14:38	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/02/15 14:38	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/02/15 14:38	1
Trichloroethene	ND		1.0		ug/L			04/02/15 14:38	1
Trichlorofluoromethane	ND		1.0		ug/L			04/02/15 14:38	1
Vinyl chloride	ND		1.0		ug/L			04/02/15 14:38	1
Dibromomethane	ND		1.0		ug/L			04/02/15 14:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*85*		*70 - 130*		*04/02/15 14:38*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 130*		*04/02/15 14:38*	*1*
4-Bromofluorobenzene (Surr)	*89*		*70 - 130*		*04/02/15 14:38*	*1*

Client Sample ID: MW-1010M-20150331-01 — **Lab Sample ID: 480-77462-22**
Date Collected: 03/31/15 10:00 — **Matrix: Water**
Date Received: 04/01/15 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			04/02/15 15:34	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/02/15 15:34	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/02/15 15:34	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/02/15 15:34	1
1,1-Dichloroethane	ND		1.0		ug/L			04/02/15 15:34	1
1,1-Dichloroethene	ND		1.0		ug/L			04/02/15 15:34	1
1,1-Dichloropropene	ND		1.0		ug/L			04/02/15 15:34	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/02/15 15:34	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/02/15 15:34	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/02/15 15:34	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/02/15 15:34	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/02/15 15:34	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/02/15 15:34	1
1,2-Dichloroethane	ND		1.0		ug/L			04/02/15 15:34	1
1,2-Dichloropropane	ND		1.0		ug/L			04/02/15 15:34	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/02/15 15:34	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/02/15 15:34	1
1,3-Dichloropropane	ND		1.0		ug/L			04/02/15 15:34	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/02/15 15:34	1
1,4-Dioxane	ND		50		ug/L			04/02/15 15:34	1
2,2-Dichloropropane	ND		1.0		ug/L			04/02/15 15:34	1
2-Butanone (MEK)	ND	*	10		ug/L			04/02/15 15:34	1
2-Chlorotoluene	ND		1.0		ug/L			04/02/15 15:34	1

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-77462-1

Client Sample ID: MW-1010M-20150331-01
Date Collected: 03/31/15 10:00
Date Received: 04/01/15 02:30

Lab Sample ID: 480-77462-22
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND	*	10		ug/L			04/02/15 15:34	1
4-Chlorotoluene	ND		1.0		ug/L			04/02/15 15:34	1
4-Isopropyltoluene	ND		1.0		ug/L			04/02/15 15:34	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/02/15 15:34	1
Acetone	ND		50		ug/L			04/02/15 15:34	1
Benzene	ND		1.0		ug/L			04/02/15 15:34	1
Bromobenzene	ND		1.0		ug/L			04/02/15 15:34	1
Bromoform	ND		1.0		ug/L			04/02/15 15:34	1
Bromomethane	ND		2.0		ug/L			04/02/15 15:34	1
Carbon disulfide	ND		10		ug/L			04/02/15 15:34	1
Carbon tetrachloride	ND		1.0		ug/L			04/02/15 15:34	1
Chlorobenzene	ND		1.0		ug/L			04/02/15 15:34	1
Chlorobromomethane	ND		1.0		ug/L			04/02/15 15:34	1
Chlorodibromomethane	ND		0.50		ug/L			04/02/15 15:34	1
Chloroethane	ND		2.0		ug/L			04/02/15 15:34	1
Chloroform	ND		1.0		ug/L			04/02/15 15:34	1
Chloromethane	ND		2.0		ug/L			04/02/15 15:34	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			04/02/15 15:34	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/02/15 15:34	1
Dichlorobromomethane	ND		0.50		ug/L			04/02/15 15:34	1
Dichlorodifluoromethane	ND	*	1.0		ug/L			04/02/15 15:34	1
Ethyl ether	ND		1.0		ug/L			04/02/15 15:34	1
Ethylbenzene	ND		1.0		ug/L			04/02/15 15:34	1
Ethylene Dibromide	ND		1.0		ug/L			04/02/15 15:34	1
Hexachlorobutadiene	ND		0.40		ug/L			04/02/15 15:34	1
Isopropyl ether	ND		10		ug/L			04/02/15 15:34	1
Isopropylbenzene	ND		1.0		ug/L			04/02/15 15:34	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/02/15 15:34	1
Methylene Chloride	ND		1.0		ug/L			04/02/15 15:34	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/02/15 15:34	1
Naphthalene	ND		5.0		ug/L			04/02/15 15:34	1
n-Butylbenzene	ND		1.0		ug/L			04/02/15 15:34	1
N-Propylbenzene	ND		1.0		ug/L			04/02/15 15:34	1
o-Xylene	ND		1.0		ug/L			04/02/15 15:34	1
sec-Butylbenzene	ND		1.0		ug/L			04/02/15 15:34	1
Styrene	ND		1.0		ug/L			04/02/15 15:34	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/02/15 15:34	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/02/15 15:34	1
tert-Butylbenzene	ND		1.0		ug/L			04/02/15 15:34	1
Tetrachloroethene	ND		1.0		ug/L			04/02/15 15:34	1
Tetrahydrofuran	ND		10		ug/L			04/02/15 15:34	1
Toluene	ND		1.0		ug/L			04/02/15 15:34	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/02/15 15:34	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/02/15 15:34	1
Trichloroethene	**1.7**		1.0		ug/L			04/02/15 15:34	1
Trichlorofluoromethane	ND		1.0		ug/L			04/02/15 15:34	1
Vinyl chloride	ND		1.0		ug/L			04/02/15 15:34	1
Dibromomethane	ND		1.0		ug/L			04/02/15 15:34	1

Client Sample ID: MW-1010M-20150331-01

Lab Sample ID: 480-77462-22

Date Collected: 03/31/15 10:00

Matrix: Water

Date Received: 04/01/15 02:30

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	*89*		*70 - 130*		*04/02/15 15:34*	*1*
1,2-Dichloroethane-d4 (Surr)	*105*		*70 - 130*		*04/02/15 15:34*	*1*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*		*04/02/15 15:34*	*1*

Client Sample ID: MW-1009-20150331-01

Lab Sample ID: 480-77462-23

Date Collected: 03/31/15 13:00

Matrix: Water

Date Received: 04/01/15 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			04/02/15 16:02	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/02/15 16:02	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/02/15 16:02	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/02/15 16:02	1
1,1-Dichloroethane	ND		1.0		ug/L			04/02/15 16:02	1
1,1-Dichloroethene	ND		1.0		ug/L			04/02/15 16:02	1
1,1-Dichloropropene	ND		1.0		ug/L			04/02/15 16:02	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/02/15 16:02	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/02/15 16:02	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/02/15 16:02	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/02/15 16:02	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/02/15 16:02	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/02/15 16:02	1
1,2-Dichloroethane	ND		1.0		ug/L			04/02/15 16:02	1
1,2-Dichloropropane	ND		1.0		ug/L			04/02/15 16:02	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/02/15 16:02	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/02/15 16:02	1
1,3-Dichloropropane	ND		1.0		ug/L			04/02/15 16:02	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/02/15 16:02	1
1,4-Dioxane	ND		50		ug/L			04/02/15 16:02	1
2,2-Dichloropropane	ND		1.0		ug/L			04/02/15 16:02	1
2-Butanone (MEK)	ND	*	10		ug/L			04/02/15 16:02	1
2-Chlorotoluene	ND		1.0		ug/L			04/02/15 16:02	1
2-Hexanone	ND	*	10		ug/L			04/02/15 16:02	1
4-Chlorotoluene	ND		1.0		ug/L			04/02/15 16:02	1
4-Isopropyltoluene	ND		1.0		ug/L			04/02/15 16:02	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/02/15 16:02	1
Acetone	ND		50		ug/L			04/02/15 16:02	1
Benzene	ND		1.0		ug/L			04/02/15 16:02	1
Bromobenzene	ND		1.0		ug/L			04/02/15 16:02	1
Bromoform	ND		1.0		ug/L			04/02/15 16:02	1
Bromomethane	ND		2.0		ug/L			04/02/15 16:02	1
Carbon disulfide	ND		10		ug/L			04/02/15 16:02	1
Carbon tetrachloride	ND		1.0		ug/L			04/02/15 16:02	1
Chlorobenzene	ND		1.0		ug/L			04/02/15 16:02	1
Chlorobromomethane	ND		1.0		ug/L			04/02/15 16:02	1
Chlorodibromomethane	ND		0.50		ug/L			04/02/15 16:02	1
Chloroethane	ND		2.0		ug/L			04/02/15 16:02	1
Chloroform	ND		1.0		ug/L			04/02/15 16:02	1
Chloromethane	ND		2.0		ug/L			04/02/15 16:02	1

Client Sample ID: MW-1009-20150331-01 — **Lab Sample ID: 480-77462-23**
Date Collected: 03/31/15 13:00 — **Matrix: Water**
Date Received: 04/01/15 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			04/02/15 16:02	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/02/15 16:02	1
Dichlorobromomethane	ND		0.50		ug/L			04/02/15 16:02	1
Dichlorodifluoromethane	ND	*	1.0		ug/L			04/02/15 16:02	1
Ethyl ether	ND		1.0		ug/L			04/02/15 16:02	1
Ethylbenzene	ND		1.0		ug/L			04/02/15 16:02	1
Ethylene Dibromide	ND		1.0		ug/L			04/02/15 16:02	1
Hexachlorobutadiene	ND		0.40		ug/L			04/02/15 16:02	1
Isopropyl ether	ND		10		ug/L			04/02/15 16:02	1
Isopropylbenzene	ND		1.0		ug/L			04/02/15 16:02	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/02/15 16:02	1
Methylene Chloride	ND		1.0		ug/L			04/02/15 16:02	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/02/15 16:02	1
Naphthalene	ND		5.0		ug/L			04/02/15 16:02	1
n-Butylbenzene	ND		1.0		ug/L			04/02/15 16:02	1
N-Propylbenzene	ND		1.0		ug/L			04/02/15 16:02	1
o-Xylene	ND		1.0		ug/L			04/02/15 16:02	1
sec-Butylbenzene	ND		1.0		ug/L			04/02/15 16:02	1
Styrene	ND		1.0		ug/L			04/02/15 16:02	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/02/15 16:02	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/02/15 16:02	1
tert-Butylbenzene	ND		1.0		ug/L			04/02/15 16:02	1
Tetrachloroethene	ND		1.0		ug/L			04/02/15 16:02	1
Tetrahydrofuran	ND		10		ug/L			04/02/15 16:02	1
Toluene	ND		1.0		ug/L			04/02/15 16:02	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/02/15 16:02	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/02/15 16:02	1
Trichloroethene	ND		1.0		ug/L			04/02/15 16:02	1
Trichlorofluoromethane	**4.6**		1.0		ug/L			04/02/15 16:02	1
Vinyl chloride	ND		1.0		ug/L			04/02/15 16:02	1
Dibromomethane	ND		1.0		ug/L			04/02/15 16:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*88*		*70 - 130*		*04/02/15 16:02*	*1*
1,2-Dichloroethane-d4 (Surr)	*109*		*70 - 130*		*04/02/15 16:02*	*1*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*		*04/02/15 16:02*	*1*

Client Sample ID: MW-1005-20150331-01 — **Lab Sample ID: 480-77462-24**
Date Collected: 03/31/15 10:50 — **Matrix: Water**
Date Received: 04/01/15 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			04/02/15 16:30	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/02/15 16:30	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/02/15 16:30	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/02/15 16:30	1
1,1-Dichloroethane	ND		1.0		ug/L			04/02/15 16:30	1
1,1-Dichloroethene	ND		1.0		ug/L			04/02/15 16:30	1
1,1-Dichloropropene	ND		1.0		ug/L			04/02/15 16:30	1

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-77462-1

Client Sample ID: MW-1005-20150331-01
Date Collected: 03/31/15 10:50
Date Received: 04/01/15 02:30

Lab Sample ID: 480-77462-24
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		1.0		ug/L			04/02/15 16:30	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/02/15 16:30	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/02/15 16:30	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/02/15 16:30	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/02/15 16:30	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/02/15 16:30	1
1,2-Dichloroethane	ND		1.0		ug/L			04/02/15 16:30	1
1,2-Dichloropropane	ND		1.0		ug/L			04/02/15 16:30	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/02/15 16:30	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/02/15 16:30	1
1,3-Dichloropropane	ND		1.0		ug/L			04/02/15 16:30	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/02/15 16:30	1
1,4-Dioxane	ND		50		ug/L			04/02/15 16:30	1
2,2-Dichloropropane	ND		1.0		ug/L			04/02/15 16:30	1
2-Butanone (MEK)	ND	*	10		ug/L			04/02/15 16:30	1
2-Chlorotoluene	ND		1.0		ug/L			04/02/15 16:30	1
2-Hexanone	ND	*	10		ug/L			04/02/15 16:30	1
4-Chlorotoluene	ND		1.0		ug/L			04/02/15 16:30	1
4-Isopropyltoluene	ND		1.0		ug/L			04/02/15 16:30	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/02/15 16:30	1
Acetone	ND		50		ug/L			04/02/15 16:30	1
Benzene	ND		1.0		ug/L			04/02/15 16:30	1
Bromobenzene	ND		1.0		ug/L			04/02/15 16:30	1
Bromoform	ND		1.0		ug/L			04/02/15 16:30	1
Bromomethane	ND		2.0		ug/L			04/02/15 16:30	1
Carbon disulfide	ND		10		ug/L			04/02/15 16:30	1
Carbon tetrachloride	ND		1.0		ug/L			04/02/15 16:30	1
Chlorobenzene	ND		1.0		ug/L			04/02/15 16:30	1
Chlorobromomethane	ND		1.0		ug/L			04/02/15 16:30	1
Chlorodibromomethane	ND		0.50		ug/L			04/02/15 16:30	1
Chloroethane	ND		2.0		ug/L			04/02/15 16:30	1
Chloroform	ND		1.0		ug/L			04/02/15 16:30	1
Chloromethane	ND		2.0		ug/L			04/02/15 16:30	1
cis-1,2-Dichloroethene	**1.7**		1.0		ug/L			04/02/15 16:30	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/02/15 16:30	1
Dichlorobromomethane	ND		0.50		ug/L			04/02/15 16:30	1
Dichlorodifluoromethane	ND	*	1.0		ug/L			04/02/15 16:30	1
Ethyl ether	ND		1.0		ug/L			04/02/15 16:30	1
Ethylbenzene	ND		1.0		ug/L			04/02/15 16:30	1
Ethylene Dibromide	ND		1.0		ug/L			04/02/15 16:30	1
Hexachlorobutadiene	ND		0.40		ug/L			04/02/15 16:30	1
Isopropyl ether	ND		10		ug/L			04/02/15 16:30	1
Isopropylbenzene	ND		1.0		ug/L			04/02/15 16:30	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/02/15 16:30	1
Methylene Chloride	ND		1.0		ug/L			04/02/15 16:30	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/02/15 16:30	1
Naphthalene	ND		5.0		ug/L			04/02/15 16:30	1
n-Butylbenzene	ND		1.0		ug/L			04/02/15 16:30	1
N-Propylbenzene	ND		1.0		ug/L			04/02/15 16:30	1

Client Sample ID: MW-1005-20150331-01 — **Lab Sample ID: 480-77462-24**
Date Collected: 03/31/15 10:50 — **Matrix: Water**
Date Received: 04/01/15 02:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	ND		1.0		ug/L			04/02/15 16:30	1
sec-Butylbenzene	ND		1.0		ug/L			04/02/15 16:30	1
Styrene	ND		1.0		ug/L			04/02/15 16:30	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/02/15 16:30	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/02/15 16:30	1
tert-Butylbenzene	ND		1.0		ug/L			04/02/15 16:30	1
Tetrachloroethene	ND		1.0		ug/L			04/02/15 16:30	1
Tetrahydrofuran	ND		10		ug/L			04/02/15 16:30	1
Toluene	ND		1.0		ug/L			04/02/15 16:30	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/02/15 16:30	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/02/15 16:30	1
Trichloroethene	**5.0**		1.0		ug/L			04/02/15 16:30	1
Trichlorofluoromethane	ND		1.0		ug/L			04/02/15 16:30	1
Vinyl chloride	ND		1.0		ug/L			04/02/15 16:30	1
Dibromomethane	ND		1.0		ug/L			04/02/15 16:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*87*		*70 - 130*		*04/02/15 16:30*	*1*
1,2-Dichloroethane-d4 (Surr)	*110*		*70 - 130*		*04/02/15 16:30*	*1*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*		*04/02/15 16:30*	*1*

Client Sample ID: MW-1004-20150331-01 — **Lab Sample ID: 480-77462-25**
Date Collected: 03/31/15 11:05 — **Matrix: Water**
Date Received: 04/01/15 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			04/02/15 16:58	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/02/15 16:58	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/02/15 16:58	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/02/15 16:58	1
1,1-Dichloroethane	ND		1.0		ug/L			04/02/15 16:58	1
1,1-Dichloroethene	ND		1.0		ug/L			04/02/15 16:58	1
1,1-Dichloropropene	ND		1.0		ug/L			04/02/15 16:58	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/02/15 16:58	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/02/15 16:58	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/02/15 16:58	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/02/15 16:58	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/02/15 16:58	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/02/15 16:58	1
1,2-Dichloroethane	ND		1.0		ug/L			04/02/15 16:58	1
1,2-Dichloropropane	ND		1.0		ug/L			04/02/15 16:58	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/02/15 16:58	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/02/15 16:58	1
1,3-Dichloropropane	ND		1.0		ug/L			04/02/15 16:58	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/02/15 16:58	1
1,4-Dioxane	ND		50		ug/L			04/02/15 16:58	1
2,2-Dichloropropane	ND		1.0		ug/L			04/02/15 16:58	1
2-Butanone (MEK)	ND	*	10		ug/L			04/02/15 16:58	1
2-Chlorotoluene	ND		1.0		ug/L			04/02/15 16:58	1

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-77462-1

Client Sample ID: MW-1004-20150331-01
Date Collected: 03/31/15 11:05
Date Received: 04/01/15 02:30

Lab Sample ID: 480-77462-25
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND	*	10		ug/L			04/02/15 16:58	1
4-Chlorotoluene	ND		1.0		ug/L			04/02/15 16:58	1
4-Isopropyltoluene	ND		1.0		ug/L			04/02/15 16:58	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/02/15 16:58	1
Acetone	ND		50		ug/L			04/02/15 16:58	1
Benzene	ND		1.0		ug/L			04/02/15 16:58	1
Bromobenzene	ND		1.0		ug/L			04/02/15 16:58	1
Bromoform	ND		1.0		ug/L			04/02/15 16:58	1
Bromomethane	ND		2.0		ug/L			04/02/15 16:58	1
Carbon disulfide	ND		10		ug/L			04/02/15 16:58	1
Carbon tetrachloride	ND		1.0		ug/L			04/02/15 16:58	1
Chlorobenzene	ND		1.0		ug/L			04/02/15 16:58	1
Chlorobromomethane	ND		1.0		ug/L			04/02/15 16:58	1
Chlorodibromomethane	ND		0.50		ug/L			04/02/15 16:58	1
Chloroethane	ND		2.0		ug/L			04/02/15 16:58	1
Chloroform	ND		1.0		ug/L			04/02/15 16:58	1
Chloromethane	ND		2.0		ug/L			04/02/15 16:58	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			04/02/15 16:58	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/02/15 16:58	1
Dichlorobromomethane	ND		0.50		ug/L			04/02/15 16:58	1
Dichlorodifluoromethane	ND	*	1.0		ug/L			04/02/15 16:58	1
Ethyl ether	ND		1.0		ug/L			04/02/15 16:58	1
Ethylbenzene	ND		1.0		ug/L			04/02/15 16:58	1
Ethylene Dibromide	ND		1.0		ug/L			04/02/15 16:58	1
Hexachlorobutadiene	ND		0.40		ug/L			04/02/15 16:58	1
Isopropyl ether	ND		10		ug/L			04/02/15 16:58	1
Isopropylbenzene	ND		1.0		ug/L			04/02/15 16:58	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/02/15 16:58	1
Methylene Chloride	ND		1.0		ug/L			04/02/15 16:58	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/02/15 16:58	1
Naphthalene	ND		5.0		ug/L			04/02/15 16:58	1
n-Butylbenzene	ND		1.0		ug/L			04/02/15 16:58	1
N-Propylbenzene	ND		1.0		ug/L			04/02/15 16:58	1
o-Xylene	ND		1.0		ug/L			04/02/15 16:58	1
sec-Butylbenzene	ND		1.0		ug/L			04/02/15 16:58	1
Styrene	ND		1.0		ug/L			04/02/15 16:58	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/02/15 16:58	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/02/15 16:58	1
tert-Butylbenzene	ND		1.0		ug/L			04/02/15 16:58	1
Tetrachloroethene	ND		1.0		ug/L			04/02/15 16:58	1
Tetrahydrofuran	ND		10		ug/L			04/02/15 16:58	1
Toluene	ND		1.0		ug/L			04/02/15 16:58	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/02/15 16:58	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/02/15 16:58	1
Trichloroethene	ND		1.0		ug/L			04/02/15 16:58	1
Trichlorofluoromethane	ND		1.0		ug/L			04/02/15 16:58	1
Vinyl chloride	ND		1.0		ug/L			04/02/15 16:58	1
Dibromomethane	ND		1.0		ug/L			04/02/15 16:58	1

Client Sample ID: MW-1004-20150331-01

Lab Sample ID: 480-77462-25

Date Collected: 03/31/15 11:05

Matrix: Water

Date Received: 04/01/15 02:30

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*85*		*70 - 130*		*04/02/15 16:58*	*1*
1,2-Dichloroethane-d4 (Surr)	*109*		*70 - 130*		*04/02/15 16:58*	*1*
4-Bromofluorobenzene (Surr)	*88*		*70 - 130*		*04/02/15 16:58*	*1*

Client Sample ID: MW-1008-20150331-01

Lab Sample ID: 480-77462-26

Date Collected: 03/31/15 10:30

Matrix: Water

Date Received: 04/01/15 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			04/02/15 17:26	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/02/15 17:26	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/02/15 17:26	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/02/15 17:26	1
1,1-Dichloroethane	ND		1.0		ug/L			04/02/15 17:26	1
1,1-Dichloroethene	ND		1.0		ug/L			04/02/15 17:26	1
1,1-Dichloropropene	ND		1.0		ug/L			04/02/15 17:26	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/02/15 17:26	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/02/15 17:26	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/02/15 17:26	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/02/15 17:26	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/02/15 17:26	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/02/15 17:26	1
1,2-Dichloroethane	ND		1.0		ug/L			04/02/15 17:26	1
1,2-Dichloropropane	ND		1.0		ug/L			04/02/15 17:26	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/02/15 17:26	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/02/15 17:26	1
1,3-Dichloropropane	ND		1.0		ug/L			04/02/15 17:26	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/02/15 17:26	1
1,4-Dioxane	ND		50		ug/L			04/02/15 17:26	1
2,2-Dichloropropane	ND		1.0		ug/L			04/02/15 17:26	1
2-Butanone (MEK)	ND	*	10		ug/L			04/02/15 17:26	1
2-Chlorotoluene	ND		1.0		ug/L			04/02/15 17:26	1
2-Hexanone	ND	*	10		ug/L			04/02/15 17:26	1
4-Chlorotoluene	ND		1.0		ug/L			04/02/15 17:26	1
4-Isopropyltoluene	ND		1.0		ug/L			04/02/15 17:26	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/02/15 17:26	1
Acetone	ND		50		ug/L			04/02/15 17:26	1
Benzene	ND		1.0		ug/L			04/02/15 17:26	1
Bromobenzene	ND		1.0		ug/L			04/02/15 17:26	1
Bromoform	ND		1.0		ug/L			04/02/15 17:26	1
Bromomethane	ND		2.0		ug/L			04/02/15 17:26	1
Carbon disulfide	ND		10		ug/L			04/02/15 17:26	1
Carbon tetrachloride	ND		1.0		ug/L			04/02/15 17:26	1
Chlorobenzene	ND		1.0		ug/L			04/02/15 17:26	1
Chlorobromomethane	ND		1.0		ug/L			04/02/15 17:26	1
Chlorodibromomethane	ND		0.50		ug/L			04/02/15 17:26	1
Chloroethane	ND		2.0		ug/L			04/02/15 17:26	1
Chloroform	ND		1.0		ug/L			04/02/15 17:26	1
Chloromethane	ND		2.0		ug/L			04/02/15 17:26	1

Client Sample ID: MW-1008-20150331-01 — **Lab Sample ID: 480-77462-26**
Date Collected: 03/31/15 10:30 — **Matrix: Water**
Date Received: 04/01/15 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			04/02/15 17:26	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/02/15 17:26	1
Dichlorobromomethane	ND		0.50		ug/L			04/02/15 17:26	1
Dichlorodifluoromethane	ND	*	1.0		ug/L			04/02/15 17:26	1
Ethyl ether	ND		1.0		ug/L			04/02/15 17:26	1
Ethylbenzene	ND		1.0		ug/L			04/02/15 17:26	1
Ethylene Dibromide	ND		1.0		ug/L			04/02/15 17:26	1
Hexachlorobutadiene	ND		0.40		ug/L			04/02/15 17:26	1
Isopropyl ether	ND		10		ug/L			04/02/15 17:26	1
Isopropylbenzene	ND		1.0		ug/L			04/02/15 17:26	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/02/15 17:26	1
Methylene Chloride	ND		1.0		ug/L			04/02/15 17:26	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/02/15 17:26	1
Naphthalene	ND		5.0		ug/L			04/02/15 17:26	1
n-Butylbenzene	ND		1.0		ug/L			04/02/15 17:26	1
N-Propylbenzene	ND		1.0		ug/L			04/02/15 17:26	1
o-Xylene	ND		1.0		ug/L			04/02/15 17:26	1
sec-Butylbenzene	ND		1.0		ug/L			04/02/15 17:26	1
Styrene	ND		1.0		ug/L			04/02/15 17:26	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/02/15 17:26	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/02/15 17:26	1
tert-Butylbenzene	ND		1.0		ug/L			04/02/15 17:26	1
Tetrachloroethene	ND		1.0		ug/L			04/02/15 17:26	1
Tetrahydrofuran	ND		10		ug/L			04/02/15 17:26	1
Toluene	ND		1.0		ug/L			04/02/15 17:26	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/02/15 17:26	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/02/15 17:26	1
Trichloroethene	**3.9**		1.0		ug/L			04/02/15 17:26	1
Trichlorofluoromethane	ND		1.0		ug/L			04/02/15 17:26	1
Vinyl chloride	ND		1.0		ug/L			04/02/15 17:26	1
Dibromomethane	ND		1.0		ug/L			04/02/15 17:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*86*		*70 - 130*		*04/02/15 17:26*	*1*
1,2-Dichloroethane-d4 (Surr)	*114*		*70 - 130*		*04/02/15 17:26*	*1*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*		*04/02/15 17:26*	*1*

Client Sample ID: MW-1003-20150331-01 — **Lab Sample ID: 480-77462-27**
Date Collected: 03/31/15 11:30 — **Matrix: Water**
Date Received: 04/01/15 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			04/02/15 17:55	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/02/15 17:55	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/02/15 17:55	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/02/15 17:55	1
1,1-Dichloroethane	ND		1.0		ug/L			04/02/15 17:55	1
1,1-Dichloroethene	ND		1.0		ug/L			04/02/15 17:55	1
1,1-Dichloropropene	ND		1.0		ug/L			04/02/15 17:55	1

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-77462-1

Client Sample ID: MW-1003-20150331-01
Date Collected: 03/31/15 11:30
Date Received: 04/01/15 02:30

Lab Sample ID: 480-77462-27
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		1.0		ug/L			04/02/15 17:55	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/02/15 17:55	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/02/15 17:55	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/02/15 17:55	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/02/15 17:55	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/02/15 17:55	1
1,2-Dichloroethane	ND		1.0		ug/L			04/02/15 17:55	1
1,2-Dichloropropane	ND		1.0		ug/L			04/02/15 17:55	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/02/15 17:55	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/02/15 17:55	1
1,3-Dichloropropane	ND		1.0		ug/L			04/02/15 17:55	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/02/15 17:55	1
1,4-Dioxane	ND		50		ug/L			04/02/15 17:55	1
2,2-Dichloropropane	ND		1.0		ug/L			04/02/15 17:55	1
2-Butanone (MEK)	ND	*	10		ug/L			04/02/15 17:55	1
2-Chlorotoluene	ND		1.0		ug/L			04/02/15 17:55	1
2-Hexanone	ND	*	10		ug/L			04/02/15 17:55	1
4-Chlorotoluene	ND		1.0		ug/L			04/02/15 17:55	1
4-Isopropyltoluene	ND		1.0		ug/L			04/02/15 17:55	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/02/15 17:55	1
Acetone	ND		50		ug/L			04/02/15 17:55	1
Benzene	ND		1.0		ug/L			04/02/15 17:55	1
Bromobenzene	ND		1.0		ug/L			04/02/15 17:55	1
Bromoform	ND		1.0		ug/L			04/02/15 17:55	1
Bromomethane	ND		2.0		ug/L			04/02/15 17:55	1
Carbon disulfide	ND		10		ug/L			04/02/15 17:55	1
Carbon tetrachloride	ND		1.0		ug/L			04/02/15 17:55	1
Chlorobenzene	ND		1.0		ug/L			04/02/15 17:55	1
Chlorobromomethane	ND		1.0		ug/L			04/02/15 17:55	1
Chlorodibromomethane	ND		0.50		ug/L			04/02/15 17:55	1
Chloroethane	ND		2.0		ug/L			04/02/15 17:55	1
Chloroform	ND		1.0		ug/L			04/02/15 17:55	1
Chloromethane	ND		2.0		ug/L			04/02/15 17:55	1
cis-1,2-Dichloroethene	**3.3**		1.0		ug/L			04/02/15 17:55	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/02/15 17:55	1
Dichlorobromomethane	ND		0.50		ug/L			04/02/15 17:55	1
Dichlorodifluoromethane	ND	*	1.0		ug/L			04/02/15 17:55	1
Ethyl ether	ND		1.0		ug/L			04/02/15 17:55	1
Ethylbenzene	ND		1.0		ug/L			04/02/15 17:55	1
Ethylene Dibromide	ND		1.0		ug/L			04/02/15 17:55	1
Hexachlorobutadiene	ND		0.40		ug/L			04/02/15 17:55	1
Isopropyl ether	ND		10		ug/L			04/02/15 17:55	1
Isopropylbenzene	ND		1.0		ug/L			04/02/15 17:55	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/02/15 17:55	1
Methylene Chloride	ND		1.0		ug/L			04/02/15 17:55	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/02/15 17:55	1
Naphthalene	ND		5.0		ug/L			04/02/15 17:55	1
n-Butylbenzene	ND		1.0		ug/L			04/02/15 17:55	1
N-Propylbenzene	ND		1.0		ug/L			04/02/15 17:55	1

Client Sample ID: MW-1003-20150331-01 — **Lab Sample ID: 480-77462-27**
Date Collected: 03/31/15 11:30 — **Matrix: Water**
Date Received: 04/01/15 02:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	ND		1.0		ug/L			04/02/15 17:55	1
sec-Butylbenzene	ND		1.0		ug/L			04/02/15 17:55	1
Styrene	ND		1.0		ug/L			04/02/15 17:55	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/02/15 17:55	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/02/15 17:55	1
tert-Butylbenzene	ND		1.0		ug/L			04/02/15 17:55	1
Tetrachloroethene	ND		1.0		ug/L			04/02/15 17:55	1
Tetrahydrofuran	ND		10		ug/L			04/02/15 17:55	1
Toluene	ND		1.0		ug/L			04/02/15 17:55	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/02/15 17:55	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/02/15 17:55	1
Trichloroethene	**6.2**		1.0		ug/L			04/02/15 17:55	1
Trichlorofluoromethane	ND		1.0		ug/L			04/02/15 17:55	1
Vinyl chloride	ND		1.0		ug/L			04/02/15 17:55	1
Dibromomethane	ND		1.0		ug/L			04/02/15 17:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*86*		*70 - 130*		*04/02/15 17:55*	*1*
1,2-Dichloroethane-d4 (Surr)	*111*		*70 - 130*		*04/02/15 17:55*	*1*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*		*04/02/15 17:55*	*1*

Client Sample ID: MW-1006-20150331-01 — **Lab Sample ID: 480-77462-28**
Date Collected: 03/31/15 09:40 — **Matrix: Water**
Date Received: 04/01/15 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			04/02/15 18:23	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/02/15 18:23	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/02/15 18:23	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/02/15 18:23	1
1,1-Dichloroethane	ND		1.0		ug/L			04/02/15 18:23	1
1,1-Dichloroethene	ND		1.0		ug/L			04/02/15 18:23	1
1,1-Dichloropropene	ND		1.0		ug/L			04/02/15 18:23	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/02/15 18:23	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/02/15 18:23	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/02/15 18:23	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/02/15 18:23	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/02/15 18:23	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/02/15 18:23	1
1,2-Dichloroethane	ND		1.0		ug/L			04/02/15 18:23	1
1,2-Dichloropropane	ND		1.0		ug/L			04/02/15 18:23	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/02/15 18:23	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/02/15 18:23	1
1,3-Dichloropropane	ND		1.0		ug/L			04/02/15 18:23	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/02/15 18:23	1
1,4-Dioxane	ND		50		ug/L			04/02/15 18:23	1
2,2-Dichloropropane	ND		1.0		ug/L			04/02/15 18:23	1
2-Butanone (MEK)	ND	*	10		ug/L			04/02/15 18:23	1
2-Chlorotoluene	ND		1.0		ug/L			04/02/15 18:23	1

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-77462-1

Client Sample ID: MW-1006-20150331-01
Date Collected: 03/31/15 09:40
Date Received: 04/01/15 02:30

Lab Sample ID: 480-77462-28
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND	*	10		ug/L			04/02/15 18:23	1
4-Chlorotoluene	ND		1.0		ug/L			04/02/15 18:23	1
4-Isopropyltoluene	ND		1.0		ug/L			04/02/15 18:23	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/02/15 18:23	1
Acetone	ND		50		ug/L			04/02/15 18:23	1
Benzene	ND		1.0		ug/L			04/02/15 18:23	1
Bromobenzene	ND		1.0		ug/L			04/02/15 18:23	1
Bromoform	ND		1.0		ug/L			04/02/15 18:23	1
Bromomethane	ND		2.0		ug/L			04/02/15 18:23	1
Carbon disulfide	ND		10		ug/L			04/02/15 18:23	1
Carbon tetrachloride	ND		1.0		ug/L			04/02/15 18:23	1
Chlorobenzene	ND		1.0		ug/L			04/02/15 18:23	1
Chlorobromomethane	ND		1.0		ug/L			04/02/15 18:23	1
Chlorodibromomethane	ND		0.50		ug/L			04/02/15 18:23	1
Chloroethane	ND		2.0		ug/L			04/02/15 18:23	1
Chloroform	ND		1.0		ug/L			04/02/15 18:23	1
Chloromethane	ND		2.0		ug/L			04/02/15 18:23	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			04/02/15 18:23	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/02/15 18:23	1
Dichlorobromomethane	ND		0.50		ug/L			04/02/15 18:23	1
Dichlorodifluoromethane	ND	*	1.0		ug/L			04/02/15 18:23	1
Ethyl ether	ND		1.0		ug/L			04/02/15 18:23	1
Ethylbenzene	ND		1.0		ug/L			04/02/15 18:23	1
Ethylene Dibromide	ND		1.0		ug/L			04/02/15 18:23	1
Hexachlorobutadiene	ND		0.40		ug/L			04/02/15 18:23	1
Isopropyl ether	ND		10		ug/L			04/02/15 18:23	1
Isopropylbenzene	ND		1.0		ug/L			04/02/15 18:23	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/02/15 18:23	1
Methylene Chloride	ND		1.0		ug/L			04/02/15 18:23	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/02/15 18:23	1
Naphthalene	ND		5.0		ug/L			04/02/15 18:23	1
n-Butylbenzene	ND		1.0		ug/L			04/02/15 18:23	1
N-Propylbenzene	ND		1.0		ug/L			04/02/15 18:23	1
o-Xylene	ND		1.0		ug/L			04/02/15 18:23	1
sec-Butylbenzene	ND		1.0		ug/L			04/02/15 18:23	1
Styrene	ND		1.0		ug/L			04/02/15 18:23	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/02/15 18:23	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/02/15 18:23	1
tert-Butylbenzene	ND		1.0		ug/L			04/02/15 18:23	1
Tetrachloroethene	ND		1.0		ug/L			04/02/15 18:23	1
Tetrahydrofuran	ND		10		ug/L			04/02/15 18:23	1
Toluene	ND		1.0		ug/L			04/02/15 18:23	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/02/15 18:23	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/02/15 18:23	1
Trichloroethene	**2.3**		1.0		ug/L			04/02/15 18:23	1
Trichlorofluoromethane	ND		1.0		ug/L			04/02/15 18:23	1
Vinyl chloride	ND		1.0		ug/L			04/02/15 18:23	1
Dibromomethane	ND		1.0		ug/L			04/02/15 18:23	1

Client Sample ID: MW-1006-20150331-01 — **Lab Sample ID: 480-77462-28**
Date Collected: 03/31/15 09:40 — **Matrix: Water**
Date Received: 04/01/15 02:30

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	*85*		*70 - 130*		*04/02/15 18:23*	*1*
1,2-Dichloroethane-d4 (Surr)	*108*		*70 - 130*		*04/02/15 18:23*	*1*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*		*04/02/15 18:23*	*1*

Client Sample ID: MW-1001M-20150331-01 — **Lab Sample ID: 480-77462-29**
Date Collected: 03/31/15 12:35 — **Matrix: Water**
Date Received: 04/01/15 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			04/02/15 18:51	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/02/15 18:51	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/02/15 18:51	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/02/15 18:51	1
1,1-Dichloroethane	ND		1.0		ug/L			04/02/15 18:51	1
1,1-Dichloroethene	ND		1.0		ug/L			04/02/15 18:51	1
1,1-Dichloropropene	ND		1.0		ug/L			04/02/15 18:51	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/02/15 18:51	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/02/15 18:51	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/02/15 18:51	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/02/15 18:51	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/02/15 18:51	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/02/15 18:51	1
1,2-Dichloroethane	ND		1.0		ug/L			04/02/15 18:51	1
1,2-Dichloropropane	ND		1.0		ug/L			04/02/15 18:51	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/02/15 18:51	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/02/15 18:51	1
1,3-Dichloropropane	ND		1.0		ug/L			04/02/15 18:51	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/02/15 18:51	1
1,4-Dioxane	ND		50		ug/L			04/02/15 18:51	1
2,2-Dichloropropane	ND		1.0		ug/L			04/02/15 18:51	1
2-Butanone (MEK)	ND	*	10		ug/L			04/02/15 18:51	1
2-Chlorotoluene	ND		1.0		ug/L			04/02/15 18:51	1
2-Hexanone	ND	*	10		ug/L			04/02/15 18:51	1
4-Chlorotoluene	ND		1.0		ug/L			04/02/15 18:51	1
4-Isopropyltoluene	ND		1.0		ug/L			04/02/15 18:51	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/02/15 18:51	1
Acetone	ND		50		ug/L			04/02/15 18:51	1
Benzene	ND		1.0		ug/L			04/02/15 18:51	1
Bromobenzene	ND		1.0		ug/L			04/02/15 18:51	1
Bromoform	ND		1.0		ug/L			04/02/15 18:51	1
Bromomethane	ND		2.0		ug/L			04/02/15 18:51	1
Carbon disulfide	ND		10		ug/L			04/02/15 18:51	1
Carbon tetrachloride	ND		1.0		ug/L			04/02/15 18:51	1
Chlorobenzene	ND		1.0		ug/L			04/02/15 18:51	1
Chlorobromomethane	ND		1.0		ug/L			04/02/15 18:51	1
Chlorodibromomethane	ND		0.50		ug/L			04/02/15 18:51	1
Chloroethane	ND		2.0		ug/L			04/02/15 18:51	1
Chloroform	ND		1.0		ug/L			04/02/15 18:51	1
Chloromethane	ND		2.0		ug/L			04/02/15 18:51	1

Client Sample ID: MW-1001M-20150331-01 — **Lab Sample ID: 480-77462-29**
Date Collected: 03/31/15 12:35 — **Matrix: Water**
Date Received: 04/01/15 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	**4.0**		1.0		ug/L			04/02/15 18:51	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/02/15 18:51	1
Dichlorobromomethane	ND		0.50		ug/L			04/02/15 18:51	1
Dichlorodifluoromethane	ND	*	1.0		ug/L			04/02/15 18:51	1
Ethyl ether	ND		1.0		ug/L			04/02/15 18:51	1
Ethylbenzene	ND		1.0		ug/L			04/02/15 18:51	1
Ethylene Dibromide	ND		1.0		ug/L			04/02/15 18:51	1
Hexachlorobutadiene	ND		0.40		ug/L			04/02/15 18:51	1
Isopropyl ether	ND		10		ug/L			04/02/15 18:51	1
Isopropylbenzene	ND		1.0		ug/L			04/02/15 18:51	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/02/15 18:51	1
Methylene Chloride	ND		1.0		ug/L			04/02/15 18:51	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/02/15 18:51	1
Naphthalene	ND		5.0		ug/L			04/02/15 18:51	1
n-Butylbenzene	ND		1.0		ug/L			04/02/15 18:51	1
N-Propylbenzene	ND		1.0		ug/L			04/02/15 18:51	1
o-Xylene	ND		1.0		ug/L			04/02/15 18:51	1
sec-Butylbenzene	ND		1.0		ug/L			04/02/15 18:51	1
Styrene	ND		1.0		ug/L			04/02/15 18:51	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/02/15 18:51	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/02/15 18:51	1
tert-Butylbenzene	ND		1.0		ug/L			04/02/15 18:51	1
Tetrachloroethene	ND		1.0		ug/L			04/02/15 18:51	1
Tetrahydrofuran	ND		10		ug/L			04/02/15 18:51	1
Toluene	ND		1.0		ug/L			04/02/15 18:51	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/02/15 18:51	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/02/15 18:51	1
Trichloroethene	**1.5**		1.0		ug/L			04/02/15 18:51	1
Trichlorofluoromethane	ND		1.0		ug/L			04/02/15 18:51	1
Vinyl chloride	ND		1.0		ug/L			04/02/15 18:51	1
Dibromomethane	ND		1.0		ug/L			04/02/15 18:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*88*		*70 - 130*		*04/02/15 18:51*	*1*
1,2-Dichloroethane-d4 (Surr)	*107*		*70 - 130*		*04/02/15 18:51*	*1*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*		*04/02/15 18:51*	*1*

Client Sample ID: DUP-001-20150331-01 — **Lab Sample ID: 480-77462-30**
Date Collected: 03/31/15 10:55 — **Matrix: Water**
Date Received: 04/01/15 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			04/02/15 19:19	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/02/15 19:19	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/02/15 19:19	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/02/15 19:19	1
1,1-Dichloroethane	ND		1.0		ug/L			04/02/15 19:19	1
1,1-Dichloroethene	ND		1.0		ug/L			04/02/15 19:19	1
1,1-Dichloropropene	ND		1.0		ug/L			04/02/15 19:19	1

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-77462-1

Client Sample ID: DUP-001-20150331-01
Date Collected: 03/31/15 10:55
Date Received: 04/01/15 02:30

Lab Sample ID: 480-77462-30
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		1.0		ug/L			04/02/15 19:19	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/02/15 19:19	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/02/15 19:19	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/02/15 19:19	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/02/15 19:19	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/02/15 19:19	1
1,2-Dichloroethane	ND		1.0		ug/L			04/02/15 19:19	1
1,2-Dichloropropane	ND		1.0		ug/L			04/02/15 19:19	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/02/15 19:19	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/02/15 19:19	1
1,3-Dichloropropane	ND		1.0		ug/L			04/02/15 19:19	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/02/15 19:19	1
1,4-Dioxane	ND		50		ug/L			04/02/15 19:19	1
2,2-Dichloropropane	ND		1.0		ug/L			04/02/15 19:19	1
2-Butanone (MEK)	ND	*	10		ug/L			04/02/15 19:19	1
2-Chlorotoluene	ND		1.0		ug/L			04/02/15 19:19	1
2-Hexanone	ND	*	10		ug/L			04/02/15 19:19	1
4-Chlorotoluene	ND		1.0		ug/L			04/02/15 19:19	1
4-Isopropyltoluene	ND		1.0		ug/L			04/02/15 19:19	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/02/15 19:19	1
Acetone	ND		50		ug/L			04/02/15 19:19	1
Benzene	ND		1.0		ug/L			04/02/15 19:19	1
Bromobenzene	ND		1.0		ug/L			04/02/15 19:19	1
Bromoform	ND		1.0		ug/L			04/02/15 19:19	1
Bromomethane	ND		2.0		ug/L			04/02/15 19:19	1
Carbon disulfide	ND		10		ug/L			04/02/15 19:19	1
Carbon tetrachloride	ND		1.0		ug/L			04/02/15 19:19	1
Chlorobenzene	ND		1.0		ug/L			04/02/15 19:19	1
Chlorobromomethane	ND		1.0		ug/L			04/02/15 19:19	1
Chlorodibromomethane	ND		0.50		ug/L			04/02/15 19:19	1
Chloroethane	ND		2.0		ug/L			04/02/15 19:19	1
Chloroform	**1.0**		1.0		ug/L			04/02/15 19:19	1
Chloromethane	ND		2.0		ug/L			04/02/15 19:19	1
cis-1,2-Dichloroethene	**1.5**		1.0		ug/L			04/02/15 19:19	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/02/15 19:19	1
Dichlorobromomethane	ND		0.50		ug/L			04/02/15 19:19	1
Dichlorodifluoromethane	ND	*	1.0		ug/L			04/02/15 19:19	1
Ethyl ether	ND		1.0		ug/L			04/02/15 19:19	1
Ethylbenzene	ND		1.0		ug/L			04/02/15 19:19	1
Ethylene Dibromide	ND		1.0		ug/L			04/02/15 19:19	1
Hexachlorobutadiene	ND		0.40		ug/L			04/02/15 19:19	1
Isopropyl ether	ND		10		ug/L			04/02/15 19:19	1
Isopropylbenzene	ND		1.0		ug/L			04/02/15 19:19	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/02/15 19:19	1
Methylene Chloride	ND		1.0		ug/L			04/02/15 19:19	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/02/15 19:19	1
Naphthalene	ND		5.0		ug/L			04/02/15 19:19	1
n-Butylbenzene	ND		1.0		ug/L			04/02/15 19:19	1
N-Propylbenzene	ND		1.0		ug/L			04/02/15 19:19	1

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-77462-1

Client Sample ID: DUP-001-20150331-01
Date Collected: 03/31/15 10:55
Date Received: 04/01/15 02:30

Lab Sample ID: 480-77462-30
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	ND		1.0		ug/L			04/02/15 19:19	1
sec-Butylbenzene	ND		1.0		ug/L			04/02/15 19:19	1
Styrene	ND		1.0		ug/L			04/02/15 19:19	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/02/15 19:19	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/02/15 19:19	1
tert-Butylbenzene	ND		1.0		ug/L			04/02/15 19:19	1
Tetrachloroethene	ND		1.0		ug/L			04/02/15 19:19	1
Tetrahydrofuran	ND		10		ug/L			04/02/15 19:19	1
Toluene	ND		1.0		ug/L			04/02/15 19:19	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/02/15 19:19	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/02/15 19:19	1
Trichloroethene	**4.8**		1.0		ug/L			04/02/15 19:19	1
Trichlorofluoromethane	ND		1.0		ug/L			04/02/15 19:19	1
Vinyl chloride	ND		1.0		ug/L			04/02/15 19:19	1
Dibromomethane	ND		1.0		ug/L			04/02/15 19:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*86*		*70 - 130*		*04/02/15 19:19*	*1*
1,2-Dichloroethane-d4 (Surr)	*112*		*70 - 130*		*04/02/15 19:19*	*1*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*		*04/02/15 19:19*	*1*

Surrogate Summary

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-77462-1

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)
480-77462-1	MW-217D-20150331-01	87	107	91
480-77462-2	MW-217S-20150331-01	88	105	93
480-77462-3	MW-217M-20150331-01	89	110	91
480-77462-4	MW-1019B-20150331-01	89	106	92
480-77462-5	MW-1015D-20150331-01	87	108	89
480-77462-6	DUP-002-20150331-01	89	110	88
480-77462-7	MW-1016D-20150331-01	90	109	93
480-77462-8	MW-1034-20150331-01	89	108	90
480-77462-9	MW-1030-20150331-01	87	112	87
480-77462-10	MW-1024D-20150331-01	90	110	90
480-77462-11	SEN-1D-20150331-01	90	110	90
480-77462-12	DUP-004-20150331-01	89	109	93
480-77462-13	MW-1033-20150331-01	87	109	86
480-77462-14	MW-1027-20150331-01	86	113	89
480-77462-15	MW-1013-20150331-01	85	115	90
480-77462-16	MW-1025M-20150331-01	92	110	92
480-77462-17	DUP-003-20150331-01	92	109	88
480-77462-17 - DL	DUP-003-20150331-01	89	102	93
480-77462-18	MW-1025D-20150331-01	86	104	90
480-77462-19	MW-1023-20150331-01	88	106	87
480-77462-20	TB-001-20150331-01	85	103	89
480-77462-22	MW-1010M-20150331-01	89	105	93
480-77462-23	MW-1009-20150331-01	88	109	91
480-77462-24	MW-1005-20150331-01	87	110	90
480-77462-25	MW-1004-20150331-01	85	109	88
480-77462-26	MW-1008-20150331-01	86	114	91
480-77462-27	MW-1003-20150331-01	86	111	90
480-77462-28	MW-1006-20150331-01	85	108	90
480-77462-29	MW-1001M-20150331-01	88	107	91
480-77462-30	DUP-001-20150331-01	86	112	90
LCS 480-233417/21	Lab Control Sample	89	115	92
LCS 480-233650/5	Lab Control Sample	93	124	95
LCSD 480-233417/22	Lab Control Sample Dup	90	112	98
LCSD 480-233650/6	Lab Control Sample Dup	90	116	94
MB 480-233417/24	Method Blank	87	104	90
MB 480-233650/8	Method Blank	88	102	92

Surrogate Legend

TOL = Toluene-d8 (Surr)

12DCE = 1,2-Dichloroethane-d4 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-77462-1

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

Lab Sample ID: MB 480-233417/24
Matrix: Water
Analysis Batch: 233417

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			04/01/15 12:17	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/01/15 12:17	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/01/15 12:17	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/01/15 12:17	1
1,1-Dichloroethane	ND		1.0		ug/L			04/01/15 12:17	1
1,1-Dichloroethene	ND		1.0		ug/L			04/01/15 12:17	1
1,1-Dichloropropene	ND		1.0		ug/L			04/01/15 12:17	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/01/15 12:17	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/01/15 12:17	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/01/15 12:17	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/01/15 12:17	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/01/15 12:17	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/01/15 12:17	1
1,2-Dichloroethane	ND		1.0		ug/L			04/01/15 12:17	1
1,2-Dichloropropane	ND		1.0		ug/L			04/01/15 12:17	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/01/15 12:17	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/01/15 12:17	1
1,3-Dichloropropane	ND		1.0		ug/L			04/01/15 12:17	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/01/15 12:17	1
1,4-Dioxane	ND		50		ug/L			04/01/15 12:17	1
2,2-Dichloropropane	ND		1.0		ug/L			04/01/15 12:17	1
2-Butanone (MEK)	ND		10		ug/L			04/01/15 12:17	1
2-Chlorotoluene	ND		1.0		ug/L			04/01/15 12:17	1
2-Hexanone	ND		10		ug/L			04/01/15 12:17	1
4-Chlorotoluene	ND		1.0		ug/L			04/01/15 12:17	1
4-Isopropyltoluene	ND		1.0		ug/L			04/01/15 12:17	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/01/15 12:17	1
Acetone	ND		50		ug/L			04/01/15 12:17	1
Benzene	ND		1.0		ug/L			04/01/15 12:17	1
Bromobenzene	ND		1.0		ug/L			04/01/15 12:17	1
Bromoform	ND		1.0		ug/L			04/01/15 12:17	1
Bromomethane	ND		2.0		ug/L			04/01/15 12:17	1
Carbon disulfide	ND		10		ug/L			04/01/15 12:17	1
Carbon tetrachloride	ND		1.0		ug/L			04/01/15 12:17	1
Chlorobenzene	ND		1.0		ug/L			04/01/15 12:17	1
Chlorobromomethane	ND		1.0		ug/L			04/01/15 12:17	1
Chlorodibromomethane	ND		0.50		ug/L			04/01/15 12:17	1
Chloroethane	ND		2.0		ug/L			04/01/15 12:17	1
Chloroform	ND		1.0		ug/L			04/01/15 12:17	1
Chloromethane	ND		2.0		ug/L			04/01/15 12:17	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			04/01/15 12:17	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/01/15 12:17	1
Dichlorobromomethane	ND		0.50		ug/L			04/01/15 12:17	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/01/15 12:17	1
Ethyl ether	ND		1.0		ug/L			04/01/15 12:17	1
Ethylbenzene	ND		1.0		ug/L			04/01/15 12:17	1
Ethylene Dibromide	ND		1.0		ug/L			04/01/15 12:17	1
Hexachlorobutadiene	ND		0.40		ug/L			04/01/15 12:17	1

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

Lab Sample ID: MB 480-233417/24
Matrix: Water
Analysis Batch: 233417

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			04/01/15 12:17	1
Isopropylbenzene	ND		1.0		ug/L			04/01/15 12:17	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/01/15 12:17	1
Methylene Chloride	ND		1.0		ug/L			04/01/15 12:17	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/01/15 12:17	1
Naphthalene	ND		5.0		ug/L			04/01/15 12:17	1
n-Butylbenzene	ND		1.0		ug/L			04/01/15 12:17	1
N-Propylbenzene	ND		1.0		ug/L			04/01/15 12:17	1
o-Xylene	ND		1.0		ug/L			04/01/15 12:17	1
sec-Butylbenzene	ND		1.0		ug/L			04/01/15 12:17	1
Styrene	ND		1.0		ug/L			04/01/15 12:17	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/01/15 12:17	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/01/15 12:17	1
tert-Butylbenzene	ND		1.0		ug/L			04/01/15 12:17	1
Tetrachloroethene	ND		1.0		ug/L			04/01/15 12:17	1
Tetrahydrofuran	ND		10		ug/L			04/01/15 12:17	1
Toluene	ND		1.0		ug/L			04/01/15 12:17	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/01/15 12:17	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/01/15 12:17	1
Trichloroethene	ND		1.0		ug/L			04/01/15 12:17	1
Trichlorofluoromethane	ND		1.0		ug/L			04/01/15 12:17	1
Vinyl chloride	ND		1.0		ug/L			04/01/15 12:17	1
Dibromomethane	ND		1.0		ug/L			04/01/15 12:17	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*87*		*70 - 130*		*04/01/15 12:17*	*1*
1,2-Dichloroethane-d4 (Surr)	*104*		*70 - 130*		*04/01/15 12:17*	*1*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*		*04/01/15 12:17*	*1*

Lab Sample ID: LCS 480-233417/21
Matrix: Water
Analysis Batch: 233417

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	20.8		ug/L		83	70 - 130
1,1,1-Trichloroethane	25.0	27.9		ug/L		111	70 - 130
1,1,2,2-Tetrachloroethane	25.0	24.7		ug/L		99	70 - 130
1,1,2-Trichloroethane	25.0	22.7		ug/L		91	70 - 130
1,1-Dichloroethane	25.0	29.2		ug/L		117	70 - 130
1,1-Dichloroethene	25.0	25.4		ug/L		102	70 - 130
1,1-Dichloropropene	25.0	28.1		ug/L		112	70 - 130
1,2,3-Trichlorobenzene	25.0	22.9		ug/L		92	70 - 130
1,2,3-Trichloropropane	25.0	22.8		ug/L		91	70 - 130
1,2,4-Trichlorobenzene	25.0	22.7		ug/L		91	70 - 130
1,2,4-Trimethylbenzene	25.0	26.8		ug/L		107	70 - 130
1,2-Dibromo-3-Chloropropane	25.0	21.7		ug/L		87	70 - 130
1,2-Dichlorobenzene	25.0	24.0		ug/L		96	70 - 130
1,2-Dichloroethane	25.0	26.7		ug/L		107	70 - 130

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

Lab Sample ID: LCS 480-233417/21
Matrix: Water
Analysis Batch: 233417

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	27.7		ug/L		111	70 - 130
1,3,5-Trimethylbenzene	25.0	26.2		ug/L		105	70 - 130
1,3-Dichlorobenzene	25.0	24.1		ug/L		96	70 - 130
1,3-Dichloropropane	25.0	23.7		ug/L		95	70 - 130
1,4-Dichlorobenzene	25.0	23.7		ug/L		95	70 - 130
1,4-Dioxane	500	375		ug/L		75	70 - 130
2,2-Dichloropropane	25.0	29.4		ug/L		118	70 - 130
2-Butanone (MEK)	125	172	*	ug/L		138	70 - 130
2-Chlorotoluene	25.0	26.3		ug/L		105	70 - 130
2-Hexanone	125	164	*	ug/L		131	70 - 130
4-Chlorotoluene	25.0	25.7		ug/L		103	70 - 130
4-Isopropyltoluene	25.0	26.2		ug/L		105	70 - 130
4-Methyl-2-pentanone (MIBK)	125	114		ug/L		91	70 - 130
Acetone	125	139		ug/L		111	70 - 130
Benzene	25.0	27.3		ug/L		109	70 - 130
Bromobenzene	25.0	23.1		ug/L		92	70 - 130
Bromoform	25.0	18.9		ug/L		76	70 - 130
Bromomethane	25.0	27.1		ug/L		108	70 - 130
Carbon disulfide	25.0	26.9		ug/L		108	70 - 130
Carbon tetrachloride	25.0	26.0		ug/L		104	70 - 130
Chlorobenzene	25.0	21.1		ug/L		85	70 - 130
Chlorobromomethane	25.0	25.2		ug/L		101	70 - 130
Chlorodibromomethane	25.0	21.4		ug/L		86	70 - 130
Chloroethane	25.0	28.2		ug/L		113	70 - 130
Chloroform	25.0	27.4		ug/L		109	70 - 130
Chloromethane	25.0	22.0		ug/L		88	70 - 130
cis-1,2-Dichloroethene	25.0	26.8		ug/L		107	70 - 130
cis-1,3-Dichloropropene	25.0	28.1		ug/L		112	70 - 130
Dichlorobromomethane	25.0	26.8		ug/L		107	70 - 130
Dichlorodifluoromethane	25.0	20.9		ug/L		83	70 - 130
Ethyl ether	25.0	27.2		ug/L		109	70 - 130
Ethylbenzene	25.0	23.0		ug/L		92	70 - 130
Ethylene Dibromide	25.0	20.8		ug/L		83	70 - 130
Hexachlorobutadiene	25.0	24.9		ug/L		100	70 - 130
Isopropyl ether	25.0	27.1		ug/L		109	70 - 130
Isopropylbenzene	25.0	25.8		ug/L		103	70 - 130
Methyl tert-butyl ether	25.0	24.8		ug/L		99	70 - 130
Methylene Chloride	25.0	25.8		ug/L		103	70 - 130
m-Xylene & p-Xylene	25.0	21.7		ug/L		87	70 - 130
Naphthalene	25.0	20.9		ug/L		83	70 - 130
n-Butylbenzene	25.0	29.4		ug/L		117	70 - 130
N-Propylbenzene	25.0	27.5		ug/L		110	70 - 130
o-Xylene	25.0	22.1		ug/L		88	70 - 130
sec-Butylbenzene	25.0	26.6		ug/L		106	70 - 130
Styrene	25.0	22.5		ug/L		90	70 - 130
Tert-amyl methyl ether	25.0	26.1		ug/L		104	70 - 130
Tert-butyl ethyl ether	25.0	26.3		ug/L		105	70 - 130
tert-Butylbenzene	25.0	23.3		ug/L		93	70 - 130

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

Lab Sample ID: LCS 480-233417/21
Matrix: Water
Analysis Batch: 233417

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	22.9		ug/L		92	70 - 130		
Tetrahydrofuran			50.0	49.5		ug/L		99	70 - 130		
Toluene			25.0	23.8		ug/L		95	70 - 130		
trans-1,2-Dichloroethene			25.0	25.7		ug/L		103	70 - 130		
trans-1,3-Dichloropropene			25.0	24.0		ug/L		96	70 - 130		
Trichloroethene			25.0	27.0		ug/L		108	70 - 130		
Trichlorofluoromethane			25.0	26.9		ug/L		108	70 - 130		
Vinyl chloride			25.0	24.0		ug/L		96	70 - 130		
Dibromomethane			25.0	25.5		ug/L		102	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*89*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*115*		*70 - 130*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*

Lab Sample ID: LCSD 480-233417/22
Matrix: Water
Analysis Batch: 233417

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	20.9		ug/L		83	70 - 130	0	20
1,1,1-Trichloroethane			25.0	27.2		ug/L		109	70 - 130	2	20
1,1,2,2-Tetrachloroethane			25.0	24.8		ug/L		99	70 - 130	0	20
1,1,2-Trichloroethane			25.0	22.8		ug/L		91	70 - 130	1	20
1,1-Dichloroethane			25.0	28.9		ug/L		115	70 - 130	1	20
1,1-Dichloroethene			25.0	26.2		ug/L		105	70 - 130	3	20
1,1-Dichloropropene			25.0	28.8		ug/L		115	70 - 130	3	20
1,2,3-Trichlorobenzene			25.0	23.9		ug/L		96	70 - 130	4	20
1,2,3-Trichloropropane			25.0	22.8		ug/L		91	70 - 130	0	20
1,2,4-Trichlorobenzene			25.0	23.4		ug/L		94	70 - 130	3	20
1,2,4-Trimethylbenzene			25.0	27.9		ug/L		112	70 - 130	4	20
1,2-Dibromo-3-Chloropropane			25.0	23.3		ug/L		93	70 - 130	7	20
1,2-Dichlorobenzene			25.0	24.6		ug/L		98	70 - 130	3	20
1,2-Dichloroethane			25.0	26.6		ug/L		106	70 - 130	0	20
1,2-Dichloropropane			25.0	27.9		ug/L		112	70 - 130	1	20
1,3,5-Trimethylbenzene			25.0	26.6		ug/L		106	70 - 130	1	20
1,3-Dichlorobenzene			25.0	24.8		ug/L		99	70 - 130	3	20
1,3-Dichloropropane			25.0	23.8		ug/L		95	70 - 130	0	20
1,4-Dichlorobenzene			25.0	24.5		ug/L		98	70 - 130	3	20
1,4-Dioxane			500	383		ug/L		77	70 - 130	2	20
2,2-Dichloropropane			25.0	29.2		ug/L		117	70 - 130	1	20
2-Butanone (MEK)			125	168	*	ug/L		134	70 - 130	3	20
2-Chlorotoluene			25.0	27.1		ug/L		108	70 - 130	3	20
2-Hexanone			125	164	*	ug/L		131	70 - 130	0	20
4-Chlorotoluene			25.0	26.0		ug/L		104	70 - 130	1	20
4-Isopropyltoluene			25.0	27.2		ug/L		109	70 - 130	4	20
4-Methyl-2-pentanone (MIBK)			125	113		ug/L		91	70 - 130	1	20
Acetone			125	138		ug/L		110	70 - 130	1	20

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

Lab Sample ID: LCSD 480-233417/22
Matrix: Water
Analysis Batch: 233417

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	27.4		ug/L		110	70 - 130	0	20
Bromobenzene			25.0	23.7		ug/L		95	70 - 130	3	20
Bromoform			25.0	19.8		ug/L		79	70 - 130	5	20
Bromomethane			25.0	27.5		ug/L		110	70 - 130	2	20
Carbon disulfide			25.0	27.3		ug/L		109	70 - 130	2	20
Carbon tetrachloride			25.0	26.0		ug/L		104	70 - 130	0	20
Chlorobenzene			25.0	21.5		ug/L		86	70 - 130	2	20
Chlorobromomethane			25.0	24.7		ug/L		99	70 - 130	2	20
Chlorodibromomethane			25.0	21.7		ug/L		87	70 - 130	1	20
Chloroethane			25.0	29.8		ug/L		119	70 - 130	5	20
Chloroform			25.0	26.8		ug/L		107	70 - 130	2	20
Chloromethane			25.0	22.6		ug/L		90	70 - 130	2	20
cis-1,2-Dichloroethene			25.0	26.6		ug/L		106	70 - 130	1	20
cis-1,3-Dichloropropene			25.0	28.0		ug/L		112	70 - 130	0	20
Dichlorobromomethane			25.0	27.0		ug/L		108	70 - 130	1	20
Dichlorodifluoromethane			25.0	19.5		ug/L		78	70 - 130	7	20
Ethyl ether			25.0	27.6		ug/L		110	70 - 130	1	20
Ethylbenzene			25.0	23.9		ug/L		96	70 - 130	4	20
Ethylene Dibromide			25.0	21.2		ug/L		85	70 - 130	2	20
Hexachlorobutadiene			25.0	25.9		ug/L		104	70 - 130	4	20
Isopropyl ether			25.0	27.3		ug/L		109	70 - 130	1	20
Isopropylbenzene			25.0	26.4		ug/L		106	70 - 130	2	20
Methyl tert-butyl ether			25.0	25.3		ug/L		101	70 - 130	2	20
Methylene Chloride			25.0	26.2		ug/L		105	70 - 130	1	20
m-Xylene & p-Xylene			25.0	22.7		ug/L		91	70 - 130	4	20
Naphthalene			25.0	21.8		ug/L		87	70 - 130	4	20
n-Butylbenzene			25.0	30.0		ug/L		120	70 - 130	2	20
N-Propylbenzene			25.0	28.1		ug/L		112	70 - 130	2	20
o-Xylene			25.0	22.6		ug/L		91	70 - 130	3	20
sec-Butylbenzene			25.0	27.7		ug/L		111	70 - 130	4	20
Styrene			25.0	23.0		ug/L		92	70 - 130	2	20
Tert-amyl methyl ether			25.0	26.1		ug/L		104	70 - 130	0	20
Tert-butyl ethyl ether			25.0	26.1		ug/L		104	70 - 130	1	20
tert-Butylbenzene			25.0	24.1		ug/L		97	70 - 130	4	20
Tetrachloroethene			25.0	23.4		ug/L		93	70 - 130	2	20
Tetrahydrofuran			50.0	50.0		ug/L		100	70 - 130	1	20
Toluene			25.0	23.5		ug/L		94	70 - 130	1	20
trans-1,2-Dichloroethene			25.0	26.4		ug/L		106	70 - 130	3	20
trans-1,3-Dichloropropene			25.0	23.6		ug/L		94	70 - 130	2	20
Trichloroethene			25.0	27.1		ug/L		109	70 - 130	0	20
Trichlorofluoromethane			25.0	27.9		ug/L		112	70 - 130	4	20
Vinyl chloride			25.0	24.9		ug/L		100	70 - 130	4	20
Dibromomethane			25.0	25.2		ug/L		101	70 - 130	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*90*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*112*		*70 - 130*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*

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

Lab Sample ID: MB 480-233650/8
Matrix: Water
Analysis Batch: 233650

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			04/02/15 12:34	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/02/15 12:34	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/02/15 12:34	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/02/15 12:34	1
1,1-Dichloroethane	ND		1.0		ug/L			04/02/15 12:34	1
1,1-Dichloroethene	ND		1.0		ug/L			04/02/15 12:34	1
1,1-Dichloropropene	ND		1.0		ug/L			04/02/15 12:34	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/02/15 12:34	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/02/15 12:34	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/02/15 12:34	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/02/15 12:34	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/02/15 12:34	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/02/15 12:34	1
1,2-Dichloroethane	ND		1.0		ug/L			04/02/15 12:34	1
1,2-Dichloropropane	ND		1.0		ug/L			04/02/15 12:34	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/02/15 12:34	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/02/15 12:34	1
1,3-Dichloropropane	ND		1.0		ug/L			04/02/15 12:34	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/02/15 12:34	1
1,4-Dioxane	ND		50		ug/L			04/02/15 12:34	1
2,2-Dichloropropane	ND		1.0		ug/L			04/02/15 12:34	1
2-Butanone (MEK)	ND		10		ug/L			04/02/15 12:34	1
2-Chlorotoluene	ND		1.0		ug/L			04/02/15 12:34	1
2-Hexanone	ND		10		ug/L			04/02/15 12:34	1
4-Chlorotoluene	ND		1.0		ug/L			04/02/15 12:34	1
4-Isopropyltoluene	ND		1.0		ug/L			04/02/15 12:34	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/02/15 12:34	1
Acetone	ND		50		ug/L			04/02/15 12:34	1
Benzene	ND		1.0		ug/L			04/02/15 12:34	1
Bromobenzene	ND		1.0		ug/L			04/02/15 12:34	1
Bromoform	ND		1.0		ug/L			04/02/15 12:34	1
Bromomethane	ND		2.0		ug/L			04/02/15 12:34	1
Carbon disulfide	ND		10		ug/L			04/02/15 12:34	1
Carbon tetrachloride	ND		1.0		ug/L			04/02/15 12:34	1
Chlorobenzene	ND		1.0		ug/L			04/02/15 12:34	1
Chlorobromomethane	ND		1.0		ug/L			04/02/15 12:34	1
Chlorodibromomethane	ND		0.50		ug/L			04/02/15 12:34	1
Chloroethane	ND		2.0		ug/L			04/02/15 12:34	1
Chloroform	ND		1.0		ug/L			04/02/15 12:34	1
Chloromethane	ND		2.0		ug/L			04/02/15 12:34	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			04/02/15 12:34	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/02/15 12:34	1
Dichlorobromomethane	ND		0.50		ug/L			04/02/15 12:34	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/02/15 12:34	1
Ethyl ether	ND		1.0		ug/L			04/02/15 12:34	1
Ethylbenzene	ND		1.0		ug/L			04/02/15 12:34	1
Ethylene Dibromide	ND		1.0		ug/L			04/02/15 12:34	1
Hexachlorobutadiene	ND		0.40		ug/L			04/02/15 12:34	1

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

Lab Sample ID: MB 480-233650/8
Matrix: Water
Analysis Batch: 233650

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			04/02/15 12:34	1
Isopropylbenzene	ND		1.0		ug/L			04/02/15 12:34	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/02/15 12:34	1
Methylene Chloride	ND		1.0		ug/L			04/02/15 12:34	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/02/15 12:34	1
Naphthalene	ND		5.0		ug/L			04/02/15 12:34	1
n-Butylbenzene	ND		1.0		ug/L			04/02/15 12:34	1
N-Propylbenzene	ND		1.0		ug/L			04/02/15 12:34	1
o-Xylene	ND		1.0		ug/L			04/02/15 12:34	1
sec-Butylbenzene	ND		1.0		ug/L			04/02/15 12:34	1
Styrene	ND		1.0		ug/L			04/02/15 12:34	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/02/15 12:34	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/02/15 12:34	1
tert-Butylbenzene	ND		1.0		ug/L			04/02/15 12:34	1
Tetrachloroethene	ND		1.0		ug/L			04/02/15 12:34	1
Tetrahydrofuran	ND		10		ug/L			04/02/15 12:34	1
Toluene	ND		1.0		ug/L			04/02/15 12:34	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/02/15 12:34	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/02/15 12:34	1
Trichloroethene	ND		1.0		ug/L			04/02/15 12:34	1
Trichlorofluoromethane	ND		1.0		ug/L			04/02/15 12:34	1
Vinyl chloride	ND		1.0		ug/L			04/02/15 12:34	1
Dibromomethane	ND		1.0		ug/L			04/02/15 12:34	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*88*		*70 - 130*		*04/02/15 12:34*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 130*		*04/02/15 12:34*	*1*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*		*04/02/15 12:34*	*1*

Lab Sample ID: LCS 480-233650/5
Matrix: Water
Analysis Batch: 233650

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	20.6		ug/L		83	70 - 130
1,1,1-Trichloroethane	25.0	25.6		ug/L		102	70 - 130
1,1,2,2-Tetrachloroethane	25.0	23.9		ug/L		96	70 - 130
1,1,2-Trichloroethane	25.0	22.8		ug/L		91	70 - 130
1,1-Dichloroethane	25.0	28.0		ug/L		112	70 - 130
1,1-Dichloroethene	25.0	23.7		ug/L		95	70 - 130
1,1-Dichloropropene	25.0	26.9		ug/L		108	70 - 130
1,2,3-Trichlorobenzene	25.0	21.3		ug/L		85	70 - 130
1,2,3-Trichloropropane	25.0	22.8		ug/L		91	70 - 130
1,2,4-Trichlorobenzene	25.0	20.9		ug/L		83	70 - 130
1,2,4-Trimethylbenzene	25.0	24.6		ug/L		98	70 - 130
1,2-Dibromo-3-Chloropropane	25.0	21.6		ug/L		86	70 - 130
1,2-Dichlorobenzene	25.0	22.1		ug/L		88	70 - 130
1,2-Dichloroethane	25.0	26.6		ug/L		106	70 - 130

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

Lab Sample ID: LCS 480-233650/5
Matrix: Water
Analysis Batch: 233650

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	27.4		ug/L		110	70 - 130
1,3,5-Trimethylbenzene	25.0	23.8		ug/L		95	70 - 130
1,3-Dichlorobenzene	25.0	22.0		ug/L		88	70 - 130
1,3-Dichloropropane	25.0	23.7		ug/L		95	70 - 130
1,4-Dichlorobenzene	25.0	22.2		ug/L		89	70 - 130
1,4-Dioxane	500	430		ug/L		86	70 - 130
2,2-Dichloropropane	25.0	28.1		ug/L		112	70 - 130
2-Butanone (MEK)	125	184	*	ug/L		147	70 - 130
2-Chlorotoluene	25.0	24.6		ug/L		98	70 - 130
2-Hexanone	125	169	*	ug/L		135	70 - 130
4-Chlorotoluene	25.0	24.2		ug/L		97	70 - 130
4-Isopropyltoluene	25.0	24.0		ug/L		96	70 - 130
4-Methyl-2-pentanone (MIBK)	125	116		ug/L		93	70 - 130
Acetone	125	147		ug/L		118	70 - 130
Benzene	25.0	26.1		ug/L		104	70 - 130
Bromobenzene	25.0	21.7		ug/L		87	70 - 130
Bromoform	25.0	19.9		ug/L		80	70 - 130
Bromomethane	25.0	24.8		ug/L		99	70 - 130
Carbon disulfide	25.0	24.8		ug/L		99	70 - 130
Carbon tetrachloride	25.0	24.6		ug/L		98	70 - 130
Chlorobenzene	25.0	20.7		ug/L		83	70 - 130
Chlorobromomethane	25.0	24.8		ug/L		99	70 - 130
Chlorodibromomethane	25.0	21.2		ug/L		85	70 - 130
Chloroethane	25.0	27.0		ug/L		108	70 - 130
Chloroform	25.0	26.0		ug/L		104	70 - 130
Chloromethane	25.0	20.6		ug/L		82	70 - 130
cis-1,2-Dichloroethene	25.0	25.6		ug/L		102	70 - 130
cis-1,3-Dichloropropene	25.0	27.2		ug/L		109	70 - 130
Dichlorobromomethane	25.0	26.4		ug/L		105	70 - 130
Dichlorodifluoromethane	25.0	19.2		ug/L		77	70 - 130
Ethyl ether	25.0	26.7		ug/L		107	70 - 130
Ethylbenzene	25.0	21.6		ug/L		86	70 - 130
Ethylene Dibromide	25.0	20.4		ug/L		82	70 - 130
Hexachlorobutadiene	25.0	22.0		ug/L		88	70 - 130
Isopropyl ether	25.0	28.9		ug/L		116	70 - 130
Isopropylbenzene	25.0	23.2		ug/L		93	70 - 130
Methyl tert-butyl ether	25.0	24.4		ug/L		98	70 - 130
Methylene Chloride	25.0	24.6		ug/L		99	70 - 130
m-Xylene & p-Xylene	25.0	20.9		ug/L		84	70 - 130
Naphthalene	25.0	19.2		ug/L		77	70 - 130
n-Butylbenzene	25.0	25.6		ug/L		103	70 - 130
N-Propylbenzene	25.0	24.7		ug/L		99	70 - 130
o-Xylene	25.0	20.7		ug/L		83	70 - 130
sec-Butylbenzene	25.0	23.8		ug/L		95	70 - 130
Styrene	25.0	21.6		ug/L		86	70 - 130
Tert-amyl methyl ether	25.0	27.4		ug/L		110	70 - 130
Tert-butyl ethyl ether	25.0	26.7		ug/L		107	70 - 130
tert-Butylbenzene	25.0	21.2		ug/L		85	70 - 130

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

Lab Sample ID: LCS 480-233650/5
Matrix: Water
Analysis Batch: 233650

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	21.6		ug/L		86	70 - 130		
Tetrahydrofuran			50.0	53.3		ug/L		107	70 - 130		
Toluene			25.0	22.3		ug/L		89	70 - 130		
trans-1,2-Dichloroethene			25.0	24.4		ug/L		97	70 - 130		
trans-1,3-Dichloropropene			25.0	23.8		ug/L		95	70 - 130		
Trichloroethene			25.0	25.8		ug/L		103	70 - 130		
Trichlorofluoromethane			25.0	25.1		ug/L		101	70 - 130		
Vinyl chloride			25.0	22.1		ug/L		88	70 - 130		
Dibromomethane			25.0	25.5		ug/L		102	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*93*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*124*		*70 - 130*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*

Lab Sample ID: LCSD 480-233650/6
Matrix: Water
Analysis Batch: 233650

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	19.9		ug/L		80	70 - 130	4	20
1,1,1-Trichloroethane			25.0	24.7		ug/L		99	70 - 130	3	20
1,1,2,2-Tetrachloroethane			25.0	23.6		ug/L		95	70 - 130	1	20
1,1,2-Trichloroethane			25.0	22.3		ug/L		89	70 - 130	2	20
1,1-Dichloroethane			25.0	26.8		ug/L		107	70 - 130	4	20
1,1-Dichloroethene			25.0	23.1		ug/L		92	70 - 130	3	20
1,1-Dichloropropene			25.0	25.6		ug/L		102	70 - 130	5	20
1,2,3-Trichlorobenzene			25.0	21.7		ug/L		87	70 - 130	2	20
1,2,3-Trichloropropane			25.0	21.6		ug/L		86	70 - 130	5	20
1,2,4-Trichlorobenzene			25.0	21.3		ug/L		85	70 - 130	2	20
1,2,4-Trimethylbenzene			25.0	24.5		ug/L		98	70 - 130	0	20
1,2-Dibromo-3-Chloropropane			25.0	22.5		ug/L		90	70 - 130	4	20
1,2-Dichlorobenzene			25.0	22.1		ug/L		88	70 - 130	0	20
1,2-Dichloroethane			25.0	25.7		ug/L		103	70 - 130	4	20
1,2-Dichloropropane			25.0	26.8		ug/L		107	70 - 130	2	20
1,3,5-Trimethylbenzene			25.0	23.7		ug/L		95	70 - 130	0	20
1,3-Dichlorobenzene			25.0	22.6		ug/L		90	70 - 130	2	20
1,3-Dichloropropane			25.0	22.8		ug/L		91	70 - 130	4	20
1,4-Dichlorobenzene			25.0	22.4		ug/L		90	70 - 130	1	20
1,4-Dioxane			500	380		ug/L		76	70 - 130	12	20
2,2-Dichloropropane			25.0	25.8		ug/L		103	70 - 130	9	20
2-Butanone (MEK)			125	178	*	ug/L		143	70 - 130	3	20
2-Chlorotoluene			25.0	24.0		ug/L		96	70 - 130	2	20
2-Hexanone			125	161		ug/L		129	70 - 130	5	20
4-Chlorotoluene			25.0	23.5		ug/L		94	70 - 130	3	20
4-Isopropyltoluene			25.0	23.7		ug/L		95	70 - 130	1	20
4-Methyl-2-pentanone (MIBK)			125	112		ug/L		89	70 - 130	4	20
Acetone			125	141		ug/L		113	70 - 130	4	20

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

Lab Sample ID: LCSD 480-233650/6
Matrix: Water
Analysis Batch: 233650

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	24.9		ug/L		99	70 - 130	5	20
Bromobenzene			25.0	21.5		ug/L		86	70 - 130	1	20
Bromoform			25.0	19.2		ug/L		77	70 - 130	4	20
Bromomethane			25.0	23.7		ug/L		95	70 - 130	5	20
Carbon disulfide			25.0	23.3		ug/L		93	70 - 130	6	20
Carbon tetrachloride			25.0	23.5		ug/L		94	70 - 130	5	20
Chlorobenzene			25.0	20.1		ug/L		80	70 - 130	3	20
Chlorobromomethane			25.0	24.1		ug/L		97	70 - 130	3	20
Chlorodibromomethane			25.0	20.8		ug/L		83	70 - 130	2	20
Chloroethane			25.0	25.3		ug/L		101	70 - 130	7	20
Chloroform			25.0	24.9		ug/L		100	70 - 130	4	20
Chloromethane			25.0	19.3		ug/L		77	70 - 130	6	20
cis-1,2-Dichloroethene			25.0	24.4		ug/L		98	70 - 130	5	20
cis-1,3-Dichloropropene			25.0	26.6		ug/L		106	70 - 130	2	20
Dichlorobromomethane			25.0	25.7		ug/L		103	70 - 130	2	20
Dichlorodifluoromethane			25.0	16.5	*	ug/L		66	70 - 130	15	20
Ethyl ether			25.0	26.2		ug/L		105	70 - 130	2	20
Ethylbenzene			25.0	21.1		ug/L		85	70 - 130	2	20
Ethylene Dibromide			25.0	19.6		ug/L		78	70 - 130	4	20
Hexachlorobutadiene			25.0	21.7		ug/L		87	70 - 130	1	20
Isopropyl ether			25.0	28.0		ug/L		112	70 - 130	3	20
Isopropylbenzene			25.0	22.8		ug/L		91	70 - 130	2	20
Methyl tert-butyl ether			25.0	24.1		ug/L		96	70 - 130	1	20
Methylene Chloride			25.0	24.2		ug/L		97	70 - 130	2	20
m-Xylene & p-Xylene			25.0	20.6		ug/L		82	70 - 130	1	20
Naphthalene			25.0	20.4		ug/L		81	70 - 130	6	20
n-Butylbenzene			25.0	25.6		ug/L		102	70 - 130	0	20
N-Propylbenzene			25.0	24.4		ug/L		98	70 - 130	1	20
o-Xylene			25.0	20.5		ug/L		82	70 - 130	1	20
sec-Butylbenzene			25.0	23.8		ug/L		95	70 - 130	0	20
Styrene			25.0	20.9		ug/L		84	70 - 130	3	20
Tert-amyl methyl ether			25.0	26.7		ug/L		107	70 - 130	3	20
Tert-butyl ethyl ether			25.0	26.7		ug/L		107	70 - 130	0	20
tert-Butylbenzene			25.0	20.8		ug/L		83	70 - 130	2	20
Tetrachloroethene			25.0	20.6		ug/L		82	70 - 130	5	20
Tetrahydrofuran			50.0	50.5		ug/L		101	70 - 130	5	20
Toluene			25.0	21.2		ug/L		85	70 - 130	5	20
trans-1,2-Dichloroethene			25.0	23.2		ug/L		93	70 - 130	5	20
trans-1,3-Dichloropropene			25.0	22.9		ug/L		92	70 - 130	4	20
Trichloroethene			25.0	24.7		ug/L		99	70 - 130	5	20
Trichlorofluoromethane			25.0	23.7		ug/L		95	70 - 130	6	20
Vinyl chloride			25.0	20.9		ug/L		84	70 - 130	5	20
Dibromomethane			25.0	24.1		ug/L		96	70 - 130	6	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*90*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*116*		*70 - 130*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*

GC/MS VOA

Analysis Batch: 233417

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-77462-1	MW-217D-20150331-01	Total/NA	Water	8260C	
480-77462-2	MW-217S-20150331-01	Total/NA	Water	8260C	
480-77462-3	MW-217M-20150331-01	Total/NA	Water	8260C	
480-77462-4	MW-1019B-20150331-01	Total/NA	Water	8260C	
480-77462-5	MW-1015D-20150331-01	Total/NA	Water	8260C	
480-77462-6	DUP-002-20150331-01	Total/NA	Water	8260C	
480-77462-7	MW-1016D-20150331-01	Total/NA	Water	8260C	
480-77462-8	MW-1034-20150331-01	Total/NA	Water	8260C	
480-77462-9	MW-1030-20150331-01	Total/NA	Water	8260C	
480-77462-10	MW-1024D-20150331-01	Total/NA	Water	8260C	
480-77462-11	SEN-1D-20150331-01	Total/NA	Water	8260C	
480-77462-12	DUP-004-20150331-01	Total/NA	Water	8260C	
480-77462-13	MW-1033-20150331-01	Total/NA	Water	8260C	
480-77462-14	MW-1027-20150331-01	Total/NA	Water	8260C	
480-77462-15	MW-1013-20150331-01	Total/NA	Water	8260C	
480-77462-16	MW-1025M-20150331-01	Total/NA	Water	8260C	
480-77462-17	DUP-003-20150331-01	Total/NA	Water	8260C	
LCS 480-233417/21	Lab Control Sample	Total/NA	Water	8260C	
LCSD 480-233417/22	Lab Control Sample Dup	Total/NA	Water	8260C	
MB 480-233417/24	Method Blank	Total/NA	Water	8260C	

Analysis Batch: 233650

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-77462-17 - DL	DUP-003-20150331-01	Total/NA	Water	8260C	
480-77462-18	MW-1025D-20150331-01	Total/NA	Water	8260C	
480-77462-19	MW-1023-20150331-01	Total/NA	Water	8260C	
480-77462-20	TB-001-20150331-01	Total/NA	Water	8260C	
480-77462-22	MW-1010M-20150331-01	Total/NA	Water	8260C	
480-77462-23	MW-1009-20150331-01	Total/NA	Water	8260C	
480-77462-24	MW-1005-20150331-01	Total/NA	Water	8260C	
480-77462-25	MW-1004-20150331-01	Total/NA	Water	8260C	
480-77462-26	MW-1008-20150331-01	Total/NA	Water	8260C	
480-77462-27	MW-1003-20150331-01	Total/NA	Water	8260C	
480-77462-28	MW-1006-20150331-01	Total/NA	Water	8260C	
480-77462-29	MW-1001M-20150331-01	Total/NA	Water	8260C	
480-77462-30	DUP-001-20150331-01	Total/NA	Water	8260C	
LCS 480-233650/5	Lab Control Sample	Total/NA	Water	8260C	
LCSD 480-233650/6	Lab Control Sample Dup	Total/NA	Water	8260C	
MB 480-233650/8	Method Blank	Total/NA	Water	8260C	

Lab Chronicle

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-77462-1

Client Sample ID: MW-217D-20150331-01 — Lab Sample ID: 480-77462-1

Date Collected: 03/31/15 12:40 — **Matrix: Water**
Date Received: 04/01/15 02:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	233417	04/01/15 12:55	GTG	TAL BUF

Client Sample ID: MW-217S-20150331-01 — Lab Sample ID: 480-77462-2

Date Collected: 03/31/15 13:10 — **Matrix: Water**
Date Received: 04/01/15 02:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	233417	04/01/15 13:24	GTG	TAL BUF

Client Sample ID: MW-217M-20150331-01 — Lab Sample ID: 480-77462-3

Date Collected: 03/31/15 13:00 — **Matrix: Water**
Date Received: 04/01/15 02:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	233417	04/01/15 13:51	GTG	TAL BUF

Client Sample ID: MW-1019B-20150331-01 — Lab Sample ID: 480-77462-4

Date Collected: 03/31/15 13:00 — **Matrix: Water**
Date Received: 04/01/15 02:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	233417	04/01/15 14:20	GTG	TAL BUF

Client Sample ID: MW-1015D-20150331-01 — Lab Sample ID: 480-77462-5

Date Collected: 03/31/15 11:10 — **Matrix: Water**
Date Received: 04/01/15 02:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	233417	04/01/15 14:48	GTG	TAL BUF

Client Sample ID: DUP-002-20150331-01 — Lab Sample ID: 480-77462-6

Date Collected: 03/31/15 11:11 — **Matrix: Water**
Date Received: 04/01/15 02:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	233417	04/01/15 15:17	GTG	TAL BUF

Client Sample ID: MW-1016D-20150331-01 — **Lab Sample ID: 480-77462-7**
Date Collected: 03/31/15 12:30 — **Matrix: Water**
Date Received: 04/01/15 02:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	233417	04/01/15 15:45	GTG	TAL BUF

Client Sample ID: MW-1034-20150331-01 — **Lab Sample ID: 480-77462-8**
Date Collected: 03/31/15 09:50 — **Matrix: Water**
Date Received: 04/01/15 02:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	233417	04/01/15 16:13	GTG	TAL BUF

Client Sample ID: MW-1030-20150331-01 — **Lab Sample ID: 480-77462-9**
Date Collected: 03/31/15 08:45 — **Matrix: Water**
Date Received: 04/01/15 02:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	233417	04/01/15 16:40	GTG	TAL BUF

Client Sample ID: MW-1024D-20150331-01 — **Lab Sample ID: 480-77462-10**
Date Collected: 03/31/15 10:00 — **Matrix: Water**
Date Received: 04/01/15 02:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	233417	04/01/15 17:09	GTG	TAL BUF

Client Sample ID: SEN-1D-20150331-01 — **Lab Sample ID: 480-77462-11**
Date Collected: 03/31/15 08:50 — **Matrix: Water**
Date Received: 04/01/15 02:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	233417	04/01/15 17:37	GTG	TAL BUF

Client Sample ID: DUP-004-20150331-01 — **Lab Sample ID: 480-77462-12**
Date Collected: 03/31/15 11:11 — **Matrix: Water**
Date Received: 04/01/15 02:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	233417	04/01/15 18:05	GTG	TAL BUF

Client Sample ID: MW-1033-20150331-01 — **Lab Sample ID: 480-77462-13**
Date Collected: 03/31/15 10:20 — **Matrix: Water**
Date Received: 04/01/15 02:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	233417	04/01/15 18:34	GTG	TAL BUF

Client Sample ID: MW-1027-20150331-01 — **Lab Sample ID: 480-77462-14**
Date Collected: 03/31/15 10:55 — **Matrix: Water**
Date Received: 04/01/15 02:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	233417	04/01/15 19:02	GTG	TAL BUF

Client Sample ID: MW-1013-20150331-01 — **Lab Sample ID: 480-77462-15**
Date Collected: 03/31/15 11:30 — **Matrix: Water**
Date Received: 04/01/15 02:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	233417	04/01/15 19:30	GTG	TAL BUF

Client Sample ID: MW-1025M-20150331-01 — **Lab Sample ID: 480-77462-16**
Date Collected: 03/31/15 09:15 — **Matrix: Water**
Date Received: 04/01/15 02:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	233417	04/01/15 19:58	GTG	TAL BUF

Client Sample ID: DUP-003-20150331-01 — **Lab Sample ID: 480-77462-17**
Date Collected: 03/31/15 12:12 — **Matrix: Water**
Date Received: 04/01/15 02:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	233417	04/01/15 20:26	GTG	TAL BUF
Total/NA	Analysis	8260C	DL	2	233650	04/02/15 13:13	JWG	TAL BUF

Client Sample ID: MW-1025D-20150331-01 — **Lab Sample ID: 480-77462-18**
Date Collected: 03/31/15 09:30 — **Matrix: Water**
Date Received: 04/01/15 02:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	233650	04/02/15 13:41	JWG	TAL BUF

Client Sample ID: MW-1023-20150331-01 — **Lab Sample ID: 480-77462-19**
Date Collected: 03/31/15 10:45 — **Matrix: Water**
Date Received: 04/01/15 02:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	233650	04/02/15 14:10	JWG	TAL BUF

Client Sample ID: TB-001-20150331-01 — **Lab Sample ID: 480-77462-20**
Date Collected: 03/31/15 10:10 — **Matrix: Water**
Date Received: 04/01/15 02:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	233650	04/02/15 14:38	JWG	TAL BUF

Client Sample ID: MW-1010M-20150331-01 — **Lab Sample ID: 480-77462-22**
Date Collected: 03/31/15 10:00 — **Matrix: Water**
Date Received: 04/01/15 02:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	233650	04/02/15 15:34	JWG	TAL BUF

Client Sample ID: MW-1009-20150331-01 — **Lab Sample ID: 480-77462-23**
Date Collected: 03/31/15 13:00 — **Matrix: Water**
Date Received: 04/01/15 02:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	233650	04/02/15 16:02	JWG	TAL BUF

Client Sample ID: MW-1005-20150331-01 — **Lab Sample ID: 480-77462-24**
Date Collected: 03/31/15 10:50 — **Matrix: Water**
Date Received: 04/01/15 02:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	233650	04/02/15 16:30	JWG	TAL BUF

Client Sample ID: MW-1004-20150331-01 — **Lab Sample ID: 480-77462-25**
Date Collected: 03/31/15 11:05 — **Matrix: Water**
Date Received: 04/01/15 02:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	233650	04/02/15 16:58	JWG	TAL BUF

Lab Chronicle

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-77462-1

Client Sample ID: MW-1008-20150331-01

Lab Sample ID: 480-77462-26

Date Collected: 03/31/15 10:30

Matrix: Water

Date Received: 04/01/15 02:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	233650	04/02/15 17:26	JWG	TAL BUF

Client Sample ID: MW-1003-20150331-01

Lab Sample ID: 480-77462-27

Date Collected: 03/31/15 11:30

Matrix: Water

Date Received: 04/01/15 02:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	233650	04/02/15 17:55	JWG	TAL BUF

Client Sample ID: MW-1006-20150331-01

Lab Sample ID: 480-77462-28

Date Collected: 03/31/15 09:40

Matrix: Water

Date Received: 04/01/15 02:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	233650	04/02/15 18:23	JWG	TAL BUF

Client Sample ID: MW-1001M-20150331-01

Lab Sample ID: 480-77462-29

Date Collected: 03/31/15 12:35

Matrix: Water

Date Received: 04/01/15 02:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	233650	04/02/15 18:51	JWG	TAL BUF

Client Sample ID: DUP-001-20150331-01

Lab Sample ID: 480-77462-30

Date Collected: 03/31/15 10:55

Matrix: Water

Date Received: 04/01/15 02:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	233650	04/02/15 19:19	JWG	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: 480-77462-1

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	07-06-15
California	State Program	9	1169CA	09-30-15
Connecticut	State Program	1	PH-0568	09-30-16
Florida	NELAP	4	E87672	06-30-15
Georgia	State Program	4	N/A	03-31-15 *
Georgia	State Program	4	956	03-31-15 *
Illinois	NELAP	5	200003	09-30-15
Iowa	State Program	7	374	03-01-15 *
Kansas	NELAP	7	E-10187	04-30-15 *
Kentucky (DW)	State Program	4	90029	12-31-15
Kentucky (UST)	State Program	4	30	03-31-15 *
Kentucky (WW)	State Program	4	90029	12-31-15
Louisiana	NELAP	6	02031	06-30-15
Maine	State Program	1	NY00044	12-04-16
Maryland	State Program	3	294	03-31-15 *
Massachusetts	State Program	1	M-NY044	06-30-15
Michigan	State Program	5	9937	03-31-15 *
Minnesota	NELAP	5	036-999-337	12-31-15
New Hampshire	NELAP	1	2337	11-17-15
New Jersey	NELAP	2	NY455	06-30-15
New York	NELAP	2	10026	03-31-16
North Dakota	State Program	8	R-176	03-31-15 *
Oklahoma	State Program	6	9421	08-31-15
Oregon	NELAP	10	NY200003	06-09-15
Pennsylvania	NELAP	3	68-00281	07-31-15
Rhode Island	State Program	1	LAO00328	12-30-15
Tennessee	State Program	4	TN02970	03-31-15 *
Texas	NELAP	6	T104704412-11-2	07-31-15
USDA	Federal		P330-11-00386	11-26-17
Virginia	NELAP	3	460185	09-14-15
Washington	State Program	10	C784	02-10-16
West Virginia DEP	State Program	3	252	09-30-15
Wisconsin	State Program	5	998310390	08-31-15

* Certification renewal pending - certification considered valid.

Method Summary

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-77462-1

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: 480-77462-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-77462-1	MW-217D-20150331-01	Water	03/31/15 12:40	04/01/15 02:30
480-77462-2	MW-217S-20150331-01	Water	03/31/15 13:10	04/01/15 02:30
480-77462-3	MW-217M-20150331-01	Water	03/31/15 13:00	04/01/15 02:30
480-77462-4	MW-1019B-20150331-01	Water	03/31/15 13:00	04/01/15 02:30
480-77462-5	MW-1015D-20150331-01	Water	03/31/15 11:10	04/01/15 02:30
480-77462-6	DUP-002-20150331-01	Water	03/31/15 11:11	04/01/15 02:30
480-77462-7	MW-1016D-20150331-01	Water	03/31/15 12:30	04/01/15 02:30
480-77462-8	MW-1034-20150331-01	Water	03/31/15 09:50	04/01/15 02:30
480-77462-9	MW-1030-20150331-01	Water	03/31/15 08:45	04/01/15 02:30
480-77462-10	MW-1024D-20150331-01	Water	03/31/15 10:00	04/01/15 02:30
480-77462-11	SEN-1D-20150331-01	Water	03/31/15 08:50	04/01/15 02:30
480-77462-12	DUP-004-20150331-01	Water	03/31/15 11:11	04/01/15 02:30
480-77462-13	MW-1033-20150331-01	Water	03/31/15 10:20	04/01/15 02:30
480-77462-14	MW-1027-20150331-01	Water	03/31/15 10:55	04/01/15 02:30
480-77462-15	MW-1013-20150331-01	Water	03/31/15 11:30	04/01/15 02:30
480-77462-16	MW-1025M-20150331-01	Water	03/31/15 09:15	04/01/15 02:30
480-77462-17	DUP-003-20150331-01	Water	03/31/15 12:12	04/01/15 02:30
480-77462-18	MW-1025D-20150331-01	Water	03/31/15 09:30	04/01/15 02:30
480-77462-19	MW-1023-20150331-01	Water	03/31/15 10:45	04/01/15 02:30
480-77462-20	TB-001-20150331-01	Water	03/31/15 10:10	04/01/15 02:30
480-77462-22	MW-1010M-20150331-01	Water	03/31/15 10:00	04/01/15 02:30
480-77462-23	MW-1009-20150331-01	Water	03/31/15 13:00	04/01/15 02:30
480-77462-24	MW-1005-20150331-01	Water	03/31/15 10:50	04/01/15 02:30
480-77462-25	MW-1004-20150331-01	Water	03/31/15 11:05	04/01/15 02:30
480-77462-26	MW-1008-20150331-01	Water	03/31/15 10:30	04/01/15 02:30
480-77462-27	MW-1003-20150331-01	Water	03/31/15 11:30	04/01/15 02:30
480-77462-28	MW-1006-20150331-01	Water	03/31/15 09:40	04/01/15 02:30
480-77462-29	MW-1001M-20150331-01	Water	03/31/15 12:35	04/01/15 02:30
480-77462-30	DUP-001-20150331-01	Water	03/31/15 10:55	04/01/15 02:30

Login Sample Receipt Checklist

Client: ERM-Northeast

Job Number: 480-77462-1

Login Number: 77462

List Source: TestAmerica Buffalo

List Number: 1

Creator: Williams, Christopher S

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	ERM
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
501 Southhampton Rd. Suite C
Westfield, MA 01085
Phone (413) 572-4000 Fax (413) 572-3707

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Stacey Bragg	Lab PM: Mason, Becky C	Carrier Tracking No(s):	COC No: 480-63454-10551.7
Client Contact: ~~Matt Daly~~ Larry.Mastera@erm.com	Phone: 978-875-0426	E-Mail: becky.mason@testamericainc.com		Page: ~~Page 7 of 7~~ Page 1/3
Company: ERM-Northeast				Job #:
Address: One Beacon Steet 5th Floor	Due Date Requested:	Analysis Requested		Preservation Codes: A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2SO3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - ph 4-5, Z - other (specify)
City: Boston	TAT Requested (days): 5 day (regular)			
State, Zip: MA, 02108				
Phone: 1-508-542-3685	PO #: Purchase Order not required			Other:
Email: ~~matthew.daly@erm.com~~ Larry.Mastera@erm.com	WO #:			
Project Name: IDS Wayland	Project #: 48007117			
Site: Also email results to lyndsey.Colburn@erm.com	SSOW#:			

480-77462 Chain of Custody

Questions call Stacey Bragg @ 978-875-0426

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B - VOC	622_MOD - 522 1,4 Dioxane	8260B -	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A	A	A		
MW-217D-20150331-01	3/31/15	12:40	C	Water	N	N	X				
MW-217S-20150331-01	3/31/15	13:10	C	Water	N	N	X				
MW-217M-20150331-01	3/31/15	13:00	C	Water	N	N	X				
MW-1019B-20150331-01	3/31/15	13:00	C	Water	N	N	X				
MW-1015D-20150331-01	3/31/15	11:10	C	Water	N	N	X				
DUP-002-20150331-01	3/31/15	11:11	C	Water	N	N	X				
MW-1016D-20150331-01	3/31/15	12:30	C	Water	N	N	X				
MW-1034-20150331-01	3/31/15	9:50	C	Water	N	N	X				
MW-1030-20150331-01	3/31/15	8:45	C	Water	N	N	X				
MW-1024D-20150331-01	3/31/15	10:00	C	Water	N	N	X				
SEN-1D-20150331-01	3/31/15	8:50	C	Water	N	N	X				

Possible Hazard Identification
☒ 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 ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1		3/31/15 1430	ERM		3/31/15 1436	TAL
2		3/31/15 1600	TAL		01APR15 0230	TAL
3						

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 1.2 #1

TestAmerica Westfield
501 Southhampton Rd. Suite C
Westfield, MA 01085
Phone (413) 572-4000 Fax (413) 572-3707

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Stacey Bragg	Lab PM: Mason, Becky C	Carrier Tracking No(s):	COC No: 480-63454-10551.1
Client Contact: ~~Matt Daly~~ Larry Mastera	Phone: 978-875-0426	E-Mail: becky.mason@testamericainc.com		Page: ~~Page 1 of 7~~ Page 2/3
Company: ERM-Northeast				Job #:
Address: One Beacon Steet 5th Floor	Due Date Requested:	Analysis Requested		Preservation Codes:
City: Boston	TAT Requested (days): 5 days (regular)			A - HCL; B - NaOH; C - Zn Acetate; D - Nitric Acid; E - NaHSO4; F - MeOH; G - Amchlor; H - Ascorbic Acid; I - Ice; J - DI Water; K - EDTA; L - EDA; M - Hexane; N - None; O - AsNaO2; P - Na2O4S; Q - Na2SO3; R - Na2S2SO3; S - H2SO4; T - TSP Dodecahydrate; U - Acetone; V - MCAA; W - ph 4-5; Z - other (specify); Other:
State, Zip: MA, 02108				
Phone: 1-508-542-3685	PO #: Purchase Order not required			
Email: ~~matthew.daly~~@erm.com Larry.Mastera@erm.com	WO #:			
Project Name: IDS Wayland	Project #: 48007117			
Site: Wayland	SSOW#:			

Also email results to Lyndsay.Colburn@erm.com

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B - VOC	522_MOD - 522 1,4 Dioxane	8260B -	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A	A	A		
DUP-004-20150331-01	3/31/15	11:11	C	Water	N	N	X				
MW-1033-20150331-01	3/31/15	10:20	C	Water	N	N	X				
MW-1027-20150331-01	3/31/15	10:55	C	Water	N	N	X				
MW-1013-20150331-01	3/31/15	11:30	C	Water	N	N	X				
MW-1025M-20150331-01	3/31/15	9:15	C	Water	N	N	X				
~~MW~~ DUP-003-20150331-01	3/31/15	12:12	C	Water	N	N	X				
MW-1025D-20150331-01	3/31/15	9:30	C	Water	N	N	X				
MW-1023-20150331-01	3/31/15	10:45	C	Water	N	N	X				
TB-001-20150331-01	1/7/15	10:10	C	Water	N	N	X				2 Bottles
TB-002-20150331-01	3/31/15	10:10	C	Water	N	N	X				*Put on HOLD*
			C	Water	N	N	X				

Possible Hazard Identification
☒ 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 ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1		3/31/15 1430	ERM		3/31/15 1430	TAL
2		3/31/15 1600	TAL		01APR15 0230	TAL
3		Date/Time:	Company		Date/Time:	Company

Custody Seals Intact: △ Yes △ No

Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 1.2 #1

TestAmerica Westfield
501 Southhampton Rd. Suite C
Westfield, MA 01085
Phone (413) 572-4000 Fax (413) 572-3707

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Stacey Bragg	Lab PM: Mason, Becky C	Carrier Tracking No(s):	COC No: 480-63454-10551.2
Client Contact: ~~Matt Daly~~ Larry Mastera	Phone: 978-875-0426	E-Mail: becky.mason@testamericainc.com		Page: ~~Page 2 of 7~~ Page 3/3
Company: ERM-Northeast				Job #:
Address: One Beacon Steet 5th Floor	Due Date Requested:	Analysis Requested		Preservation Codes:
City: Boston	TAT Requested (days): 5 days (regular)			A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2S2SO3 G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate I - Ice U - Acetone J - DI Water V - MCAA K - EDTA W - ph 4-5 L - EDA Z - other (specify) Other:
State, Zip: MA, 02108				
Phone: 1-508-542-3685	PO #: Purchase Order not required			
Email: ~~matthew.daly@erm.com~~ Larry.Mastera@erm.com	WO #:			
Project Name: IDS Wayland	Project #: 48007117			
Site: Wayland	SSOW#:			

Also email results to Lyndsey.Colburn@erm.com

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B - VOC	522_MOD - 522 1,4 Dioxane	8260B -	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A	A	A		
MW-1010M-20150331-01	3/31/15	10:00	C	Water	N	N	X				
MW-1009-20150331-01	3/31/15	13:00	C	Water	N	N	X				
MW-1005-20150331-01	3/31/15	10:50	C	Water	N	N	X				
MW-1004-20150331-01	3/31/15	11:05	C	Water	N	N	X				
MW-1008-20150331-01	3/31/15	10:30	C	Water	N	N	X				
MW-1003-20150331-01	3/31/15	11:30	C	Water	N	N	X				
MW-1006-20150331-01	3/31/15	9:40	C	Water	N	N	X				
MW-1001M-20150331-01	3/31/15	12:35	C	Water	N	N	X				
~~MW-~~	~~3/31/15~~		C	Water	N	N	X				
DUP-001-20150331-01	3/31/15	10:55	C	Water	N	N	X				
				Water							

Possible Hazard Identification
☒ 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 ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1		3/31/15 1430	ERM		3/31/15	TAL
2		3/31/15 1600	TAL		01 APR 15 0230	TAL
3		Date/Time:	Company		Date/Time:	Company

Custody Seals Intact: △ Yes △ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks: 1.2 #1

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4/8/2015

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Burlington
30 Community Drive
Suite 11
South Burlington, VT 05403
Tel: (802)660-1990

TestAmerica Job ID: 200-27388-1
Client Project/Site: IDS Wayland

For:
ERM-Northeast
One Beacon Steet
5th Floor
Boston, Massachusetts 02108

Attn: Lyndsey Colburn

Authorized for release by:
4/10/2015 1:48:05 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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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
CFL	Contains Free Liquid
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: 200-27388-1

Laboratory: TestAmerica Burlington

Narrative

Receipt

The samples were received on 4/3/2015 10:15 AM; the samples arrived in good condition, properly preserved and, where required, on ice.
The temperature of the cooler at receipt was 2.0º C.

GC/MS Semi VOA

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 200-27388-1

Client Sample ID: MW-1023-20150402-01 — Lab Sample ID: 200-27388-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	0.81		0.20		ug/L	1		522 MOD	Total/NA

Client Sample ID: MW-1024D-20150402-01 — Lab Sample ID: 200-27388-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	0.36		0.20		ug/L	1		522 MOD	Total/NA

Client Sample ID: MW-1025M-20150402-01 — Lab Sample ID: 200-27388-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	2.2		0.20		ug/L	1		522 MOD	Total/NA

Client Sample ID: MW-1025D-20150402-01 — Lab Sample ID: 200-27388-4

No Detections.

Client Sample ID: MW-1034-20150402-01 — Lab Sample ID: 200-27388-5

No Detections.

Client Sample ID: MW-1033-20150402-01 — Lab Sample ID: 200-27388-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	0.53		0.20		ug/L	1		522 MOD	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-1023-20150402-01 — **Lab Sample ID: 200-27388-1**
Date Collected: 04/02/15 12:30 — **Matrix: Water**
Date Received: 04/03/15 10:15

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		04/07/15 09:44	04/09/15 14:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*85*		*70 - 130*	*04/07/15 09:44*	*04/09/15 14:32*	*1*

Client Sample ID: MW-1024D-20150402-01 — **Lab Sample ID: 200-27388-2**
Date Collected: 04/02/15 12:50 — **Matrix: Water**
Date Received: 04/03/15 10:15

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.36		0.20		ug/L		04/07/15 09:44	04/09/15 15:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*75*		*70 - 130*	*04/07/15 09:44*	*04/09/15 15:31*	*1*

Client Sample ID: MW-1025M-20150402-01 — **Lab Sample ID: 200-27388-3**
Date Collected: 04/02/15 13:00 — **Matrix: Water**
Date Received: 04/03/15 10:15

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.2		0.20		ug/L		04/07/15 09:44	04/09/15 15:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*90*		*70 - 130*	*04/07/15 09:44*	*04/09/15 15:50*	*1*

Client Sample ID: MW-1025D-20150402-01 — **Lab Sample ID: 200-27388-4**
Date Collected: 04/02/15 13:10 — **Matrix: Water**
Date Received: 04/03/15 10:15

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		04/07/15 09:44	04/09/15 16:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*82*		*70 - 130*	*04/07/15 09:44*	*04/09/15 16:10*	*1*

Client Sample ID: MW-1034-20150402-01 — **Lab Sample ID: 200-27388-5**
Date Collected: 04/02/15 13:30 — **Matrix: Water**
Date Received: 04/03/15 10:15

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		04/07/15 09:44	04/09/15 16:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*83*		*70 - 130*	*04/07/15 09:44*	*04/09/15 16:29*	*1*

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 200-27388-1

Client Sample ID: MW-1033-20150402-01
Date Collected: 04/02/15 13:50
Date Received: 04/03/15 10:15

Lab Sample ID: 200-27388-6
Matrix: Water

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.53		0.20		ug/L		04/07/15 09:44	04/09/15 16:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*83*		*70 - 130*	*04/07/15 09:44*	*04/09/15 16:49*	*1*

Surrogate Summary

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 200-27388-1

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)							
200-27388-1	MW-1023-20150402-01	85							
200-27388-1 MS	MW-1023-20150402-01	92							
200-27388-1 MSD	MW-1023-20150402-01	88							
200-27388-2	MW-1024D-20150402-01	75							
200-27388-3	MW-1025M-20150402-01	90							
200-27388-4	MW-1025D-20150402-01	82							
200-27388-5	MW-1034-20150402-01	83							
200-27388-6	MW-1033-20150402-01	83							
LCS 200-86516/2-A	Lab Control Sample	75							
MB 200-86516/1-A	Method Blank	87							

Surrogate Legend

14DD8 = 1,4-Dioxane-d8 (Surr)

Method: 522 MOD - 1,4 Dioxane (GC/MS SIM)

Lab Sample ID: MB 200-86516/1-A
Matrix: Water
Analysis Batch: 86697

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 86516

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20		ug/L		04/07/15 09:44	04/10/15 10:48	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*87*		*70 - 130*	*04/07/15 09:44*	*04/10/15 10:48*	*1*

Lab Sample ID: LCS 200-86516/2-A
Matrix: Water
Analysis Batch: 86634

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 86516

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dioxane	2.00	1.57		ug/L		78	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,4-Dioxane-d8 (Surr)	*75*		*70 - 130*

Lab Sample ID: 200-27388-1 MS
Matrix: Water
Analysis Batch: 86634

Client Sample ID: MW-1023-20150402-01
Prep Type: Total/NA
Prep Batch: 86516

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dioxane	0.81		2.00	2.71		ug/L		95	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,4-Dioxane-d8 (Surr)	*92*		*70 - 130*

Lab Sample ID: 200-27388-1 MSD
Matrix: Water
Analysis Batch: 86634

Client Sample ID: MW-1023-20150402-01
Prep Type: Total/NA
Prep Batch: 86516

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,4-Dioxane	0.81		2.00	2.71		ug/L		95	70 - 130	0	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,4-Dioxane-d8 (Surr)	*88*		*70 - 130*

GC/MS Semi VOA

Prep Batch: 86516

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-27388-1	MW-1023-20150402-01	Total/NA	Water	3535A	
200-27388-1 MS	MW-1023-20150402-01	Total/NA	Water	3535A	
200-27388-1 MSD	MW-1023-20150402-01	Total/NA	Water	3535A	
200-27388-2	MW-1024D-20150402-01	Total/NA	Water	3535A	
200-27388-3	MW-1025M-20150402-01	Total/NA	Water	3535A	
200-27388-4	MW-1025D-20150402-01	Total/NA	Water	3535A	
200-27388-5	MW-1034-20150402-01	Total/NA	Water	3535A	
200-27388-6	MW-1033-20150402-01	Total/NA	Water	3535A	
LCS 200-86516/2-A	Lab Control Sample	Total/NA	Water	3535A	
MB 200-86516/1-A	Method Blank	Total/NA	Water	3535A	

Analysis Batch: 86634

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-27388-1	MW-1023-20150402-01	Total/NA	Water	522 MOD	86516
200-27388-1 MS	MW-1023-20150402-01	Total/NA	Water	522 MOD	86516
200-27388-1 MSD	MW-1023-20150402-01	Total/NA	Water	522 MOD	86516
200-27388-2	MW-1024D-20150402-01	Total/NA	Water	522 MOD	86516
200-27388-3	MW-1025M-20150402-01	Total/NA	Water	522 MOD	86516
200-27388-4	MW-1025D-20150402-01	Total/NA	Water	522 MOD	86516
200-27388-5	MW-1034-20150402-01	Total/NA	Water	522 MOD	86516
200-27388-6	MW-1033-20150402-01	Total/NA	Water	522 MOD	86516
LCS 200-86516/2-A	Lab Control Sample	Total/NA	Water	522 MOD	86516

Analysis Batch: 86697

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 200-86516/1-A	Method Blank	Total/NA	Water	522 MOD	86516

Lab Chronicle

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 200-27388-1

Client Sample ID: MW-1023-20150402-01 — Lab Sample ID: 200-27388-1

Date Collected: 04/02/15 12:30 — **Matrix: Water**
Date Received: 04/03/15 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535A			86516	04/07/15 09:44	EAN	TAL BUR
Total/NA	Analysis	522 MOD		1	86634	04/09/15 14:32	RRM	TAL BUR

Client Sample ID: MW-1024D-20150402-01 — Lab Sample ID: 200-27388-2

Date Collected: 04/02/15 12:50 — **Matrix: Water**
Date Received: 04/03/15 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535A			86516	04/07/15 09:44	EAN	TAL BUR
Total/NA	Analysis	522 MOD		1	86634	04/09/15 15:31	RRM	TAL BUR

Client Sample ID: MW-1025M-20150402-01 — Lab Sample ID: 200-27388-3

Date Collected: 04/02/15 13:00 — **Matrix: Water**
Date Received: 04/03/15 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535A			86516	04/07/15 09:44	EAN	TAL BUR
Total/NA	Analysis	522 MOD		1	86634	04/09/15 15:50	RRM	TAL BUR

Client Sample ID: MW-1025D-20150402-01 — Lab Sample ID: 200-27388-4

Date Collected: 04/02/15 13:10 — **Matrix: Water**
Date Received: 04/03/15 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535A			86516	04/07/15 09:44	EAN	TAL BUR
Total/NA	Analysis	522 MOD		1	86634	04/09/15 16:10	RRM	TAL BUR

Client Sample ID: MW-1034-20150402-01 — Lab Sample ID: 200-27388-5

Date Collected: 04/02/15 13:30 — **Matrix: Water**
Date Received: 04/03/15 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535A			86516	04/07/15 09:44	EAN	TAL BUR
Total/NA	Analysis	522 MOD		1	86634	04/09/15 16:29	RRM	TAL BUR

Client Sample ID: MW-1033-20150402-01 — Lab Sample ID: 200-27388-6

Date Collected: 04/02/15 13:50 — **Matrix: Water**
Date Received: 04/03/15 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535A			86516	04/07/15 09:44	EAN	TAL BUR
Total/NA	Analysis	522 MOD		1	86634	04/09/15 16:49	RRM	TAL BUR

Lab Chronicle

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 200-27388-1

Laboratory References:

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: 200-27388-1

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	09-30-15
DE Haz. Subst. Cleanup Act (HSCA)	State Program	3	NA	02-13-16
Florida	NELAP	4	E87467	06-30-15
L-A-B	DoD ELAP		L2336	02-26-17
Maine	State Program	1	VT00008	04-17-15 *
Minnesota	NELAP	5	050-999-436	12-31-15
New Hampshire	NELAP	1	2006	12-18-15
New Jersey	NELAP	2	VT972	06-30-15
New York	NELAP	2	10391	03-31-16
Pennsylvania	NELAP	3	68-00489	04-30-15 *
Rhode Island	State Program	1	LAO00298	12-30-15
US Fish & Wildlife	Federal		LE-058448-0	02-28-16
USDA	Federal		P330-11-00093	10-28-16
Vermont	State Program	1	VT-4000	12-31-15
Virginia	NELAP	3	460209	12-14-15

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	07-06-15
California	State Program	9	1169CA	09-30-15
Connecticut	State Program	1	PH-0568	09-30-16
Florida	NELAP	4	E87672	06-30-15
Georgia	State Program	4	N/A	03-31-15 *
Georgia	State Program	4	956	03-31-15 *
Illinois	NELAP	5	200003	09-30-15
Iowa	State Program	7	374	03-01-15 *
Kansas	NELAP	7	E-10187	04-30-15 *
Kentucky (DW)	State Program	4	90029	12-31-15
Kentucky (UST)	State Program	4	30	03-31-15 *
Kentucky (WW)	State Program	4	90029	12-31-15
Louisiana	NELAP	6	02031	06-30-15
Maine	State Program	1	NY00044	12-04-16
Maryland	State Program	3	294	03-31-16
Massachusetts	State Program	1	M-NY044	06-30-15
Michigan	State Program	5	9937	03-31-15 *
Minnesota	NELAP	5	036-999-337	12-31-15
New Hampshire	NELAP	1	2337	11-17-15
New Jersey	NELAP	2	NY455	06-30-15
New York	NELAP	2	10026	03-31-16
North Dakota	State Program	8	R-176	03-31-15 *
Oklahoma	State Program	6	9421	08-31-15
Oregon	NELAP	10	NY200003	06-09-15
Pennsylvania	NELAP	3	68-00281	07-31-15
Rhode Island	State Program	1	LAO00328	12-30-15
Tennessee	State Program	4	TN02970	03-31-15 *
Texas	NELAP	6	T104704412-11-2	07-31-15
USDA	Federal		P330-11-00386	11-26-17
Virginia	NELAP	3	460185	09-14-15

* Certification renewal pending - certification considered valid.

Certification Summary

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 200-27388-1

Laboratory: TestAmerica Buffalo (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
Washington	State Program	10	C784	02-10-16
West Virginia DEP	State Program	3	252	09-30-15
Wisconsin	State Program	5	998310390	08-31-15

Method Summary

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 200-27388-1

Method	Method Description	Protocol	Laboratory
522 MOD	1,4 Dioxane (GC/MS SIM)	EPA	TAL BUR

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

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: 200-27388-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
200-27388-1	MW-1023-20150402-01	Water	04/02/15 12:30	04/03/15 10:15
200-27388-2	MW-1024D-20150402-01	Water	04/02/15 12:50	04/03/15 10:15
200-27388-3	MW-1025M-20150402-01	Water	04/02/15 13:00	04/03/15 10:15
200-27388-4	MW-1025D-20150402-01	Water	04/02/15 13:10	04/03/15 10:15
200-27388-5	MW-1034-20150402-01	Water	04/02/15 13:30	04/03/15 10:15
200-27388-6	MW-1033-20150402-01	Water	04/02/15 13:50	04/03/15 10:15

TestAmerica Westfield
Westfield Executive Park 53 Southampton Road
Westfield, MA 01085
Phone (413) 572-4000 Fax (413) 572-3707

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Ellie LeBlanc	Lab PM: Mason, Becky C	Carrier Tracking No(s):	COC No: 480-58452-15333.2
Client Contact: ~~Joshua Klement~~ ENL Lyndsey Colburn	Phone: 617-646-7830	E-Mail: becky.mason@testamericainc.com		Page: ~~Page 2 of 5~~ ENL 1 of 1
Company: ERM-Northeast				Job #:
Address: One Beacon Steet 5th Floor	Due Date Requested:			
City: Boston	TAT Requested (days): Standard			
State, Zip: MA, 02108				
Phone: 617-646-7800	PO #: Purchase Order not required			
Email: ~~Joshua.Klement@erm.com~~ ENL lyndsey.colburn@erm.com	WO #:			
Project Name: IDS Burlington ENL Wayland	Project #: 48007496 ENL			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2SO3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - ph 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B - (MOD) Pick a reference price	300.0_28D - Sulfate	6010MCP - (MOD) 6010 MCP Custom analyte list	1,4-Dioxane - 1625	Total Number of containers	Special Instructions/Note:
Preservation Code:							A	N	D	A		
MW-1023-20150402-01	4/2/15	1230	G	Water						X	2	
MW-1024D-20150402-01		1250		Water						X	2	Contact Ellie
MW-1025M-20150402-01		1300		Water						X	2	LeBlanc at
MW-1025D-20150402-01		1310		Water						X	2	240-682-1355
MW-1034-20150402-01		1320		Water						X	2	if there are
MW-1033-20150402-01		1350		Water						X	2	any questions
				Water								
				Water								
				Water								
				Water								
				Water								

200-27388 Chain of Custody

Possible Hazard Identification
☐ 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 ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1		April 2, 2015 / 15:45	ERM		4/2/15 1545	TAL
2		4/2/15 1605	TAL		4/3/15 1015	TAWF
3		Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks:

4/10/2015

ORIGIN ID:BXCA (781) 466-6900
PAUL HOBART
TESTAMERICA
240 BEAR HILL ROAD
SUITE 104
WALTHAM, MA 02451
UNITED STATES US

SHIP DATE: 02APR15
ACTWGT: 27.5 LB
CAD: 590687/CAFE2807

BILL RECIPIENT

TO SAMPLE RECEIVING
TESTAMERICA BURLINGTON
30 COMMUNITY DRIVE
SUITE 11
SOUTH BURLINGTON VT 05403
(802) 660-1990

INV:
PO:
REF:
DEPT:

FedEx Express

TRK# 0201 4258 8388 8106

FRI - 03 APR AA
STANDARD OVERNIGHT

EK BTVA

05403
VT-US BTV

Login Sample Receipt Checklist

Client: ERM-Northeast

Job Number: 200-27388-1

Login Number: 27388

List Source: TestAmerica Burlington

List Number: 1

Creator: Goodrich, Kenneth L

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	NO NUMBERS
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	2.0ºC
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 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	

ANALYTICAL REPORT

Lab Number:	L1429869
Client:	ERM, Inc. 1 Beacon Street 5th Floor Boston, MA 02108
ATTN:	Lyndsey Colburn
Phone:	(617) 646-7829
Project Name:	RAYTHEON-WAYLAND
Project Number:	0271201
Report Date:	12/12/14

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NY (11148), CT (PH-0574), NH (2003), NJ NELAP (MA935), RI (LAO00065), ME (MA00086), PA (68-03671), USDA (Permit #P-330-11-00240), NC (666), TX (T104704476), DOD (L2217), US Army Corps of Engineers.

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: RAYTHEON-WAYLAND
Project Number: 0271201

Lab Number: L1429869
Report Date: 12/12/14

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1429869-01	WC-20141211-01	SOIL	WAYLAND, MA	12/11/14 13:30	12/11/14

Project Name: RAYTHEON-WAYLAND **Lab Number:** L1429869

Project Number: 0271201 **Report Date:** 12/12/14

MADEP MCP Response Action Analytical Report Certification

This form provides certifications for all samples performed by MCP methods. Please refer to the Sample Results and Container Information sections of this report for specification of MCP methods used for each analysis. The following questions pertain only to MCP Analytical Methods.

An affirmative response to questions A through F is 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 times?	YES
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	YES
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
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
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).	N/A
E b.	APH and TO-15 Methods only: Was the complete analyte list reported for each method?	N/A
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

A response to questions G, H and I is 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
H	Were all QC performance standards specified in the CAM protocol(s) achieved?	NO
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	YES

For any questions answered "No", please refer to the case narrative section on the following page(s).

Please note that sample matrix information is located in the Sample Results section of this report.

Project Name: RAYTHEON-WAYLAND **Lab Number:** L1429869
Project Number: 0271201 **Report Date:** 12/12/14

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY
For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.

Project Name: RAYTHEON-WAYLAND **Lab Number:** L1429869
Project Number: 0271201 **Report Date:** 12/12/14

Case Narrative (continued)

MCP Related Narratives

Volatile Organics

In reference to question H:

The initial calibration, associated with L1429869-01, did not meet the method required minimum response factor on the lowest calibration standard for 4-methyl-2-pentanone (0.05631) and 1,4-dioxane (0.00244), as well as the average response factor for 2-butanone, 4-methyl-2-pentanone, and 1,4-dioxane. The initial calibration verification is outside acceptance criteria for dichlorodifluoromethane (144%), but within overall method criteria.

The continuing calibration standard, associated with L1429869-01, is outside the acceptance criteria for several compounds; however, it is within overall method allowances. A copy of the continuing calibration standard is included as an addendum to this report.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Kelly Stenstrom

Title: Technical Director/Representative Date: 12/12/14

ORGANICS

VOLATILES

Project Name: RAYTHEON-WAYLAND
Lab Number: L1429869
Project Number: 0271201
Report Date: 12/12/14

SAMPLE RESULTS

Lab ID: L1429869-01
Client ID: WC-20141211-01
Sample Location: WAYLAND, MA
Matrix: Soil
Analytical Method: 97,8260C
Analytical Date: 12/12/14 11:56
Analyst: BN
Percent Solids: 80%

Date Collected: 12/11/14 13:30
Date Received: 12/11/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	7.2	--	1
1,1-Dichloroethane	ND		ug/kg	1.1	--	1
Chloroform	ND		ug/kg	1.1	--	1
Carbon tetrachloride	ND		ug/kg	0.72	--	1
1,2-Dichloropropane	ND		ug/kg	2.5	--	1
Dibromochloromethane	ND		ug/kg	0.72	--	1
1,1,2-Trichloroethane	ND		ug/kg	1.1	--	1
Tetrachloroethene	ND		ug/kg	0.72	--	1
Chlorobenzene	ND		ug/kg	0.72	--	1
Trichlorofluoromethane	ND		ug/kg	2.9	--	1
1,2-Dichloroethane	ND		ug/kg	0.72	--	1
1,1,1-Trichloroethane	ND		ug/kg	0.72	--	1
Bromodichloromethane	ND		ug/kg	0.72	--	1
trans-1,3-Dichloropropene	ND		ug/kg	0.72	--	1
cis-1,3-Dichloropropene	ND		ug/kg	0.72	--	1
1,3-Dichloropropene, Total	ND		ug/kg	0.72	--	1
1,1-Dichloropropene	ND		ug/kg	2.9	--	1
Bromoform	ND		ug/kg	2.9	--	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.72	--	1
Benzene	ND		ug/kg	0.72	--	1
Toluene	ND		ug/kg	1.1	--	1
Ethylbenzene	ND		ug/kg	0.72	--	1
Chloromethane	ND		ug/kg	2.9	--	1
Bromomethane	ND		ug/kg	1.4	--	1
Vinyl chloride	ND		ug/kg	1.4	--	1
Chloroethane	ND		ug/kg	1.4	--	1
1,1-Dichloroethene	ND		ug/kg	0.72	--	1
trans-1,2-Dichloroethene	ND		ug/kg	1.1	--	1
Trichloroethene	5.4		ug/kg	0.72	--	1
1,2-Dichlorobenzene	ND		ug/kg	2.9	--	1

Project Name: RAYTHEON-WAYLAND **Lab Number:** L1429869

Project Number: 0271201 **Report Date:** 12/12/14

SAMPLE RESULTS

Lab ID: L1429869-01 Date Collected: 12/11/14 13:30

Client ID: WC-20141211-01 Date Received: 12/11/14

Sample Location: WAYLAND, MA Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 8260/5035 - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	2.9	--	1
1,4-Dichlorobenzene	ND		ug/kg	2.9	--	1
Methyl tert butyl ether	ND		ug/kg	1.4	--	1
p/m-Xylene	ND		ug/kg	1.4	--	1
o-Xylene	ND		ug/kg	1.4	--	1
Xylenes, Total	ND		ug/kg	1.4	--	1
cis-1,2-Dichloroethene	ND		ug/kg	0.72	--	1
1,2-Dichloroethene, Total	ND		ug/kg	0.72	--	1
Dibromomethane	ND		ug/kg	2.9	--	1
1,2,3-Trichloropropane	ND		ug/kg	2.9	--	1
Styrene	ND		ug/kg	1.4	--	1
Dichlorodifluoromethane	ND		ug/kg	7.2	--	1
Acetone	ND		ug/kg	26	--	1
Carbon disulfide	ND		ug/kg	2.9	--	1
Methyl ethyl ketone	ND		ug/kg	7.2	--	1
Methyl isobutyl ketone	ND		ug/kg	7.2	--	1
2-Hexanone	ND		ug/kg	7.2	--	1
Bromochloromethane	ND		ug/kg	2.9	--	1
Tetrahydrofuran	ND		ug/kg	2.9	--	1
2,2-Dichloropropane	ND		ug/kg	3.6	--	1
1,2-Dibromoethane	ND		ug/kg	2.9	--	1
1,3-Dichloropropane	ND		ug/kg	2.9	--	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.72	--	1
Bromobenzene	ND		ug/kg	3.6	--	1
n-Butylbenzene	ND		ug/kg	0.72	--	1
sec-Butylbenzene	ND		ug/kg	0.72	--	1
tert-Butylbenzene	ND		ug/kg	2.9	--	1
o-Chlorotoluene	ND		ug/kg	2.9	--	1
p-Chlorotoluene	ND		ug/kg	2.9	--	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.9	--	1
Hexachlorobutadiene	ND		ug/kg	2.9	--	1
Isopropylbenzene	ND		ug/kg	0.72	--	1
p-Isopropyltoluene	ND		ug/kg	0.72	--	1
Naphthalene	ND		ug/kg	2.9	--	1
n-Propylbenzene	ND		ug/kg	0.72	--	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.9	--	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.9	--	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.9	--	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.9	--	1

Project Name: RAYTHEON-WAYLAND **Lab Number:** L1429869

Project Number: 0271201 **Report Date:** 12/12/14

SAMPLE RESULTS

Lab ID: L1429869-01 Date Collected: 12/11/14 13:30

Client ID: WC-20141211-01 Date Received: 12/11/14

Sample Location: WAYLAND, MA Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics by 8260/5035 - Westborough Lab						
Diethyl ether	ND		ug/kg	3.6	--	1
Diisopropyl Ether	ND		ug/kg	2.9	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	2.9	--	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	2.9	--	1
1,4-Dioxane	ND		ug/kg	29	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	91		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	70		70-130

Project Name: RAYTHEON-WAYLAND **Lab Number:** L1429869

Project Number: 0271201 **Report Date:** 12/12/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260C
Analytical Date: 12/12/14 09:19
Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01 Batch: WG748077-6					
Methylene chloride	ND		ug/kg	10	--
1,1-Dichloroethane	ND		ug/kg	1.5	--
Chloroform	ND		ug/kg	1.5	--
Carbon tetrachloride	ND		ug/kg	1.0	--
1,2-Dichloropropane	ND		ug/kg	3.5	--
Dibromochloromethane	ND		ug/kg	1.0	--
1,1,2-Trichloroethane	ND		ug/kg	1.5	--
Tetrachloroethene	ND		ug/kg	1.0	--
Chlorobenzene	ND		ug/kg	1.0	--
Trichlorofluoromethane	ND		ug/kg	4.0	--
1,2-Dichloroethane	ND		ug/kg	1.0	--
1,1,1-Trichloroethane	ND		ug/kg	1.0	--
Bromodichloromethane	ND		ug/kg	1.0	--
trans-1,3-Dichloropropene	ND		ug/kg	1.0	--
cis-1,3-Dichloropropene	ND		ug/kg	1.0	--
1,3-Dichloropropene, Total	ND		ug/kg	1.0	--
1,1-Dichloropropene	ND		ug/kg	4.0	--
Bromoform	ND		ug/kg	4.0	--
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.0	--
Benzene	ND		ug/kg	1.0	--
Toluene	ND		ug/kg	1.5	--
Ethylbenzene	ND		ug/kg	1.0	--
Chloromethane	ND		ug/kg	4.0	--
Bromomethane	ND		ug/kg	2.0	--
Vinyl chloride	ND		ug/kg	2.0	--
Chloroethane	ND		ug/kg	2.0	--
1,1-Dichloroethene	ND		ug/kg	1.0	--
trans-1,2-Dichloroethene	ND		ug/kg	1.5	--
Trichloroethene	ND		ug/kg	1.0	--

Project Name: RAYTHEON-WAYLAND **Lab Number:** L1429869

Project Number: 0271201 **Report Date:** 12/12/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260C
Analytical Date: 12/12/14 09:19
Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01 Batch: WG748077-6					
1,2-Dichlorobenzene	ND		ug/kg	4.0	--
1,3-Dichlorobenzene	ND		ug/kg	4.0	--
1,4-Dichlorobenzene	ND		ug/kg	4.0	--
Methyl tert butyl ether	ND		ug/kg	2.0	--
p/m-Xylene	ND		ug/kg	2.0	--
o-Xylene	ND		ug/kg	2.0	--
Xylenes, Total	ND		ug/kg	2.0	--
cis-1,2-Dichloroethene	ND		ug/kg	1.0	--
1,2-Dichloroethene, Total	ND		ug/kg	1.0	--
Dibromomethane	ND		ug/kg	4.0	--
1,2,3-Trichloropropane	ND		ug/kg	4.0	--
Styrene	ND		ug/kg	2.0	--
Dichlorodifluoromethane	ND		ug/kg	10	--
Acetone	ND		ug/kg	36	--
Carbon disulfide	ND		ug/kg	4.0	--
Methyl ethyl ketone	ND		ug/kg	10	--
Methyl isobutyl ketone	ND		ug/kg	10	--
2-Hexanone	ND		ug/kg	10	--
Bromochloromethane	ND		ug/kg	4.0	--
Tetrahydrofuran	ND		ug/kg	4.0	--
2,2-Dichloropropane	ND		ug/kg	5.0	--
1,2-Dibromoethane	ND		ug/kg	4.0	--
1,3-Dichloropropane	ND		ug/kg	4.0	--
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.0	--
Bromobenzene	ND		ug/kg	5.0	--
n-Butylbenzene	ND		ug/kg	1.0	--
sec-Butylbenzene	ND		ug/kg	1.0	--
tert-Butylbenzene	ND		ug/kg	4.0	--
o-Chlorotoluene	ND		ug/kg	4.0	--

Project Name: RAYTHEON-WAYLAND **Lab Number:** L1429869

Project Number: 0271201 **Report Date:** 12/12/14

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260C
Analytical Date: 12/12/14 09:19
Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01 Batch: WG748077-6					
p-Chlorotoluene	ND		ug/kg	4.0	--
1,2-Dibromo-3-chloropropane	ND		ug/kg	4.0	--
Hexachlorobutadiene	ND		ug/kg	4.0	--
Isopropylbenzene	ND		ug/kg	1.0	--
p-Isopropyltoluene	ND		ug/kg	1.0	--
Naphthalene	ND		ug/kg	4.0	--
n-Propylbenzene	ND		ug/kg	1.0	--
1,2,3-Trichlorobenzene	ND		ug/kg	4.0	--
1,2,4-Trichlorobenzene	ND		ug/kg	4.0	--
1,3,5-Trimethylbenzene	ND		ug/kg	4.0	--
1,2,4-Trimethylbenzene	ND		ug/kg	4.0	--
Diethyl ether	ND		ug/kg	5.0	--
Diisopropyl Ether	ND		ug/kg	4.0	--
Ethyl-Tert-Butyl-Ether	ND		ug/kg	4.0	--
Tertiary-Amyl Methyl Ether	ND		ug/kg	4.0	--
1,4-Dioxane	ND		ug/kg	40	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99		70-130
Toluene-d8	91		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	104		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: RAYTHEON-WAYLAND

Project Number: 0271201

Lab Number: L1429869

Report Date: 12/12/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01 Batch: WG748077-4 WG748077-5								
Methylene chloride	113		113		70-130	0		20
1,1-Dichloroethane	117		116		70-130	1		20
Chloroform	117		115		70-130	2		20
Carbon tetrachloride	126		123		70-130	2		20
1,2-Dichloropropane	112		113		70-130	1		20
Dibromochloromethane	95		94		70-130	1		20
1,1,2-Trichloroethane	97		96		70-130	1		20
Tetrachloroethene	107		107		70-130	0		20
Chlorobenzene	100		100		70-130	0		20
Trichlorofluoromethane	**134**	Q	**131**	Q	70-130	2		20
1,2-Dichloroethane	115		114		70-130	1		20
1,1,1-Trichloroethane	124		120		70-130	3		20
Bromodichloromethane	113		114		70-130	1		20
trans-1,3-Dichloropropene	96		97		70-130	1		20
cis-1,3-Dichloropropene	112		112		70-130	0		20
1,1-Dichloropropene	125		122		70-130	2		20
Bromoform	87		88		70-130	1		20
1,1,2,2-Tetrachloroethane	88		88		70-130	0		20
Benzene	116		115		70-130	1		20
Toluene	101		101		70-130	0		20
Ethylbenzene	102		103		70-130	1		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: RAYTHEON-WAYLAND

Project Number: 0271201

Lab Number: L1429869

Report Date: 12/12/14

MCP Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01 Batch: WG748077-4 WG748077-5

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Chloromethane	118		117		70-130	1		20
Bromomethane	106		104		70-130	2		20
Vinyl chloride	118		114		70-130	3		20
Chloroethane	127		123		70-130	3		20
1,1-Dichloroethene	103		112		70-130	8		20
trans-1,2-Dichloroethene	118		115		70-130	3		20
Trichloroethene	121		119		70-130	2		20
1,2-Dichlorobenzene	96		96		70-130	0		20
1,3-Dichlorobenzene	98		100		70-130	2		20
1,4-Dichlorobenzene	96		97		70-130	1		20
Methyl tert butyl ether	106		106		70-130	0		20
p/m-Xylene	105		104		70-130	1		20
o-Xylene	103		103		70-130	0		20
cis-1,2-Dichloroethene	115		115		70-130	0		20
Dibromomethane	109		109		70-130	0		20
1,2,3-Trichloropropane	89		91		70-130	2		20
Styrene	101		101		70-130	0		20
Dichlorodifluoromethane	94		93		70-130	1		20
Acetone	98		99		70-130	1		20
Carbon disulfide	114		**132**	Q	70-130	15		20
Methyl ethyl ketone	106		105		70-130	1		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: RAYTHEON-WAYLAND

Project Number: 0271201

Lab Number: L1429869

Report Date: 12/12/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01 Batch: WG748077-4 WG748077-5								
Methyl isobutyl ketone	100		100		70-130	0		20
2-Hexanone	86		86		70-130	0		20
Bromochloromethane	114		113		70-130	1		20
Tetrahydrofuran	107		108		70-130	1		20
2,2-Dichloropropane	123		119		70-130	3		20
1,2-Dibromoethane	94		94		70-130	0		20
1,3-Dichloropropane	96		96		70-130	0		20
1,1,1,2-Tetrachloroethane	98		99		70-130	1		20
Bromobenzene	93		94		70-130	1		20
n-Butylbenzene	111		112		70-130	1		20
sec-Butylbenzene	102		102		70-130	0		20
tert-Butylbenzene	99		99		70-130	0		20
o-Chlorotoluene	98		98		70-130	0		20
p-Chlorotoluene	98		99		70-130	1		20
1,2-Dibromo-3-chloropropane	80		81		70-130	1		20
Hexachlorobutadiene	105		103		70-130	2		20
Isopropylbenzene	99		99		70-130	0		20
p-Isopropyltoluene	102		104		70-130	2		20
Naphthalene	83		83		70-130	0		20
n-Propylbenzene	102		102		70-130	0		20
1,2,3-Trichlorobenzene	95		95		70-130	0		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: RAYTHEON-WAYLAND

Project Number: 0271201

Lab Number: L1429869

Report Date: 12/12/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01 Batch: WG748077-4 WG748077-5								
1,2,4-Trichlorobenzene	100		102		70-130	2		20
1,3,5-Trimethylbenzene	99		100		70-130	1		20
1,2,4-Trimethylbenzene	100		100		70-130	0		20
Diethyl ether	109		110		70-130	1		20
Diisopropyl Ether	115		115		70-130	0		20
Ethyl-Tert-Butyl-Ether	109		109		70-130	0		20
Tertiary-Amyl Methyl Ether	105		105		70-130	0		20
1,4-Dioxane	102		102		70-130	0		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	100		99		70-130
Toluene-d8	92		93		70-130
4-Bromofluorobenzene	98		99		70-130
Dibromofluoromethane	105		105		70-130

INORGANICS
&
MISCELLANEOUS

Project Name: RAYTHEON-WAYLAND
Project Number: 0271201
Lab Number: L1429869
Report Date: 12/12/14

SAMPLE RESULTS

Lab ID: L1429869-01
Client ID: WC-20141211-01
Sample Location: WAYLAND, MA
Matrix: Soil

Date Collected: 12/11/14 13:30
Date Received: 12/11/14
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	80.3		%	0.100	NA	1	-	12/12/14 00:34	30,2540G	RT

Lab Duplicate Analysis
Batch Quality Control

Project Name: RAYTHEON-WAYLAND
Project Number: 0271201

Lab Number: L1429869
Report Date: 12/12/14

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG747918-1 QC Sample: L1429790-01 Client ID: DUP Sample						
Solids, Total	86.4	86.8	%	0		20

Project Name: RAYTHEON-WAYLAND
Project Number: 0271201

Lab Number: L1429869
Report Date: 12/12/14

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: NA

Cooler Information **Custody Seal**

Cooler	
A	Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1429869-01A	Vial MeOH preserved	A	N/A	4.4	Y	Absent	MCP-8260HLW-10(14)
L1429869-01B	Vial water preserved	A	N/A	4.4	Y	Absent	MCP-8260HLW-10(14)
L1429869-01C	Vial water preserved	A	N/A	4.4	Y	Absent	MCP-8260HLW-10(14)
L1429869-01D	Glass 120ml/4oz unpreserved	A	N/A	4.4	Y	Absent	TS(7)

*Values in parentheses indicate holding time in days

Project Name:	RAYTHEON-WAYLAND	**Lab Number:**	L1429869
Project Number:	0271201	**Report Date:**	12/12/14

GLOSSARY

Acronyms

EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NI	- Not Ignitable.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

Footnotes

1	- The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

A	- Spectra identified as "Aldol Condensation Product".
B	- The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
C	- Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
D	- Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
E	- Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

Report Format: Data Usability Report

Project Name:	RAYTHEON-WAYLAND	**Lab Number:**	L1429869
Project Number:	0271201	**Report Date:**	12/12/14

Data Qualifiers

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

J - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

ND - Not detected at the reporting limit (RL) for the sample.

Report Format: Data Usability Report

Project Name:	RAYTHEON-WAYLAND	**Lab Number:**	L1429869
Project Number:	0271201	**Report Date:**	12/12/14

REFERENCES

30 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.

97 EPA Test Methods (SW-846) with QC Requirements & Performance Standards for the Analysis of EPA SW-846 Methods under the Massachusetts Contingency Plan, WSC-CAM-IIA, IIB, IIIA, IIIB, IIIC, IIID, VA, VB, VC, VIA, VIB, VIIIA and VIIIB, July 2010.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

Last revised April 15, 2014

The following analytes are not included in our NELAP Scope of Accreditation:

Westborough Facility
EPA 524.2: Acetone, 2-Butanone (Methyl ethyl ketone (MEK)), Tert-butyl alcohol, 2-Hexanone, Tetrahydrofuran, 1,3,5-Trichlorobenzene, 4-Methyl-2-pentanone (MIBK), Carbon disulfide, Diethyl ether.
EPA 8260C: 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene, Iodomethane (methyl iodide), Methyl methacrylate, Azobenzene.
EPA 8330A/B: PETN, Picric Acid, Nitroglycerine, 2,6-DANT, 2,4-DANT.
EPA 8270D: 1-Methylnaphthalene, Dimethylnaphthalene,1,4-Diphenylhydrazine.
EPA 625: 4-Chloroaniline, 4-Methylphenol.
SM4500: Soil: Total Phosphorus, TKN, NO2, NO3.
EPA 9071: Total Petroleum Hydrocarbons, Oil & Grease.

Mansfield Facility
EPA 8270D: Biphenyl.
EPA 2540D: TSS
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

The following analytes are included in our Massachusetts DEP Scope of Accreditation, Westborough Facility:

Drinking Water
EPA 200.8: Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Tl; **EPA 200.7**: Ba,Be,Ca,Cd,Cr,Cu,Na; **EPA 245.1:** Mercury;
EPA 300.0: Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B**
EPA 332: Perchlorate.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT, Enterolert-QT.**

Non-Potable Water
EPA 200.8: Al,Sb,As,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,Zn;
EPA 200.7: Al,Sb,As,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Mo,Ni,K,Se,Ag,Na,Sr,Ti,Tl,V,Zn;
EPA 245.1, SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2340B, SM2320B, SM4500CL-E, SM4500F-BC, SM426C, SM4500NH3-BH, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **SM4500NO3-F, EPA 353.2**: Nitrate-N**, SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, SM4500P-B, E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, SM14 510AC, EPA 420.1, SM4500-CN-CE, SM2540D.**
EPA 624: Volatile Halocarbons & Aromatics,
EPA 608: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9222D-MF**.

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

CHAIN OF CUSTODY

PAGE 1 OF 1

ALPHA ANALYTICAL

WESTBORO, MA TEL: 508-898-9220 FAX: 508-898-9193

MANSFIELD, MA TEL: 508-822-9300 FAX: 508-822-3288

Date Rec'd in Lab: 12/11/14

ALPHA Job #: L1429869

Client Information

Client: ERM

Address: 1 BEACON STREET 5TH FLOOR
BOSTON, MA 02108

Phone: (617) 646-7800

Fax:

Email: LYNDSEY.COLBURN@ERM.COM

☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: RAYTHEON - LOAYLAND

Project Location: LOAYLAND, MA

Project #: 0271201

Project Manager: Lyndsey Colburn

ALPHA Quote #:

Turn-Around Time

☐ Standard ☑ RUSH (only confirmed if pre-approved!) 24HR

Date Due: 12/12/2014 Time:

Report Information - Data Deliverables

☐ FAX ☑ EMAIL

☑ ADEx ☐ Add'l Deliverables

Billing Information

☑ Same as Client info PO #:

Regulatory Requirements/Report Limits

State /Fed Program: MA MCP Criteria:

MA MCP PRESUMPTIVE CERTAINTY --- CT REASONABLE CONFIDENCE PROTO

☑ Yes ☐ No Are MCP Analytical Methods Required?

☐ Yes ☐ No Is Matrix Spike (MS) Required on this SDG? (If yes see note in Comments)

☐ Yes ☐ No Are CT RCP (Reasonable Confidence Protocols) Required?

Other Project Specific Requirements/Comments/Detection Limits:

If MS is required, indicate in Sample Specific Comments which samples and what tests MS to be performed.
(Note: All *CAM* methods for inorganic analyses require MS every 20 soil samples)

ANALYSIS: ✓ VOCs (8260B)

SAMPLE HANDLING

Filtration
☐ Done
☐ Not needed
☐ Lab to do
Preservation
☐ Lab to do
(Please specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	Sample Specific Comments	TOTAL # BOTTLES
29869-01	WC-20141211-01	12/11/2014	13:30	SO	HMW	24-HR RUSH	4

Container Type: V/A

Preservative: A/F

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT MA MCP or CT RCP?

Relinquished By:	Date/Time	Received By:	Date/Time
	12/11/14 1645		12/11/14 16:45
	12/11/14 1920		12/11/14 19:20
	12/11/14 20:03		12/11/14 20:03

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

FORM NO: 01-01 (rev. 18-Jan-2010)

7A
CONTINUING CALIBRATION CHECK

Lab Name: Alpha Analytical Labs

SDG No.: L1429869

Instrument ID: Voa104.i Calibration Date: 12-DEC-2014 Time: 08:00

Lab File ID: 1212A02 Init. Calib. Date(s): 14-NOV-2 14-NOV-2

Sample No: 8260 CCAL Init. Calib. Times : 18:34 21:39

Compound	RRF	RRF	MIN RRF	%D	MAX %D	
dichlorodifluoromethane	.16305	.15368	.1	-6	20	
chloromethane	.31614	.37402	.1	18	20	
vinyl chloride	.2743	.32277	.1	18	20	
bromomethane	100	106	.1	6	20	
chloroethane	.13774	.1753	.1	27	20	F
trichlorofluoromethane	.27387	.36768	.1	34	20	F
ethyl ether	.09232	.1009	.05	9	20	
1,1,-dichloroethene	.2177	.22512	.1	3	20	
carbon disulfide	.70085	.80192	.1	14	20	
methylene chloride	.26137	.295	.1	13	20	
acetone	100	97.874	.1	-2	20	
trans-1,2-dichloroethene	.25442	.29964	.1	18	20	
methyl tert butyl ether	.55986	.59582	.1	6	20	
Diisopropyl Ether	.94156	1.0827	.05	15	20	
1,1-dichloroethane	.49595	.57899	.2	17	20	
Ethyl-Tert-Butyl-Ether	.82014	.8932	.05	9	20	
cis-1,2-dichloroethene	.28074	.32234	.1	15	20	
2,2-dichloropropane	.35677	.43867	.05	23	20	F
bromochloromethane	.12861	.14614	.05	14	20	
chloroform	.44837	.52285	.2	17	20	
carbontetrachloride	.32832	.41417	.1	26	20	F
tetrahydrofuran	.06814	.07322	.05	7	20	
1,1,1-trichloroethane	.37681	.46918	.1	25	20	F
2-butanone	.09192	.09787	.1	6	20	F
1,1-dichloropropene	.33481	.41826	.05	25	20	F
benzene	.97656	1.1386	.5	17	20	
Tertiary-Amyl Methyl Ether	.62875	.66261	.05	5	20	
1,2-dichloroethane	.30244	.34859	.1	15	20	
trichloroethene	.264	.31878	.2	21	20	F
dibromomethane	.14205	.15495	.05	9	20	
1,2-dichloropropane	.27957	.31347	.1	12	20	
bromodichloromethane	.33098	.37555	.2	13	20	
1,4-dioxane	.00202	.00205	.05	2	20	F
cis-1,3-dichloropropene	.39239	.43902	.2	12	20	
toluene	.87644	.88751	.4	1	20	
tetrachloroethene	.36363	.39047	.2	7	20	
4-methyl-2-pentanone	.07517	.07548	.1	0	20	F
trans-1,3-dichloropropene	.46349	.44729	.1	-3	20	

FORM VII MCP-8260HLW-10

7A
CONTINUING CALIBRATION CHECK

Lab Name: Alpha Analytical Labs

SDG No.: L1429869

Instrument ID: Voa104.i Calibration Date: 12-DEC-2014 Time: 08:00

Lab File ID: 1212A02 Init. Calib. Date(s): 14-NOV-2 14-NOV-2

Sample No: 8260 CCAL Init. Calib. Times : 18:34 21:39

Compound	RRF	RRF	MIN RRF	%D	MAX %D
1,1,2-trichloroethane	.23224	.22442	.1	-3	20
chlorodibromomethane	.34856	.33043	.1	-5	20
1,3-dichloropropane	.45928	.44266	.05	-4	20
1,2-dibromoethane	.28223	.26477	.1	-6	20
2-hexanone	.19278	.16618	.1	-14	20
chlorobenzene	1.0010	1.0011	.5	0	20
ethyl benzene	1.6393	1.6794	.1	2	20
1,1,1,2-tetrachloroethane	.3581	.35156	.05	-2	20
p/m xylene	.63448	.66444	.1	5	20
o xylene	.6125	.63056	.3	3	20
styrene	1.0136	1.0283	.3	1	20
bromoform	.39846	.34718	.1	-13	20
isopropylbenzene	3.1932	3.1661	.1	-1	20
bromobenzene	.84329	.78656	.05	-7	20
n-propylbenzene	3.6352	3.7219	.05	2	20
1,1,2,2,-tetrachloroethane	.67812	.59926	.3	-12	20
2-chlorotoluene	2.3296	2.2867	.05	-2	20
1,2,3-trichloropropane	.49557	.44006	.05	-11	20
1,3,5-trimethybenzene	2.6303	2.6113	.05	-1	20
4-chorotoluene	2.2427	2.2055	.05	-2	20
tert-butylbenzene	2.2838	2.2541	.05	-1	20
1,2,4-trimethylbenzene	2.6527	2.6539	.05	0	20
sec-butylbenzene	3.4242	3.5055	.05	2	20
p-isopropyltoluene	2.8275	2.8987	.05	3	20
1,3-dichlorobenzene	1.5651	1.5360	.6	-2	20
1,4-dichlorobenzene	1.6000	1.5378	.5	-4	20
n-butylbenzene	2.4383	2.7105	.05	11	20
1,2-dichlorobenzene	1.4443	1.3790	.4	-5	20
1,2-dibromo-3-chloropropane	.10573	.08499	.05	-20	20
hexachlorobutadiene	.45607	.47921	.05	5	20
1,2,4-trichlorobenzene	.95262	.95319	.2	0	20
naphthalene	2.1836	1.8103	.05	-17	20
1,2,3-trichlorobenzene	.88772	.84394	.05	-5	20
dibromofluoromethane	.2538	.26721	.05	5	30
1,2-dichloroethane-d4	.22706	.228	.05	0	30
toluene-d8	1.3076	1.2057	.05	-8	30
4-bromofluorobenzene	.90729	.88948	.05	-2	30

FORM VII MCP-8260HLW-10

Appendix D
BWSC Transmittal Forms
(Submitted Concurrently via eDEP)

Massachusetts Department of Environmental Protection

eDEP Transaction Copy

Here is the file you requested for your records.

To retain a copy of this file you must save and/or print.

Username:	**ELEBLANC**
Transaction ID:	**741170**
Document:	**BWSC108 Comp. Res. Action Transmittal Form & Phase I**
Size of File:	**684.45K**
Status of Transaction:	**In Process**
Date and Time Created:	**5/22/2015:12:28:39 PM**

Note: This file only includes forms that were part of your transaction as of the date and time indicated above. If you need a more current copy of your transaction, return to eDEP and select to “Download a Copy” from the Current Submittals page.

Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC 108

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: 017780000

☑ 5. Check here if the disposal site that is the source of the release is Tier Classified. Check the current Tier Classification Category:

☑ a. Tier I ☐ b. Tier ID ☐ c. Tier II

B. THIS FORM IS BEING USED TO: (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 Permanent or Temporary Solution.

☐ b. The requirements of a Permanent Solution have been met. A completed Permanent Solution Statement and Report (BWSC104) will be submitted to DEP.

☐ c. The requirements of a Temporary Solution have been met. A completed Temporary Solution Statement and Report (BWSC104) 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 every six months, concurrent with a Status Report.

☐ iv. A Remedial Monitoring Report(s) submitted annually, concurrent with a Status Report.

c. Status of Site: (check one) ☐ i. Phase IV ☐ ii. Phase V ☑ iii. Remedy Operation Status ☐ iv. Temporary Solution

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 Permanent Solution have been met. A completed Permanent Solution Statement and Report (BWSC104) will be submitted to DEP.

☐ b. The requirements for a Temporary Solution have been met. A completed Temporary Solution 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 **Temporary Solution Status Report,** pursuant to 310 CMR 40.0898.

☐ 24. Submit a **Plan for the Application of Remedial Additives** near a sensitive receptor, pursuant to 310 CMR 40.0046(3).

a. Status of Site: (check one)

☐ i. Phase IV ☐ ii. Phase V ☐ iii. Remedy Operation Status ☐ iv. Temporary Solution

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 Temporary Solution 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. Email:	john.drobinski@erm.com
7. Signature:	JOHN C DROBINSKI				
8. Date:	5/22/2015 (mm/dd/yyyy)	9. LSP Stamp:			

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: 50 APPLE HILL DRIVE 6. Title: EH&S MANAGER

7. City/Town: TEWKSBURY 8. State: MA 9. ZIP Code: 018760000

10. Telephone: 978-858-1885 11. Ext: 12. Email:

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. Release Address/Location Aid. 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.

G. CERTIFICATION OF PERSON UNDERTAKING RESPONSE ACTIONS:

1. I, LOUIS 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 performing 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 BURKHARDT (Signature) 3. Title: EH&S MANAGER

4. For: RAYTHEON COMPANY (Name of person or entity recorded in Section D) 5. Date: 5/21/2015 (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. Email:

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 5/22/2015 12:20:48 PM

Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup
CRA REMEDIAL MONITORING REPORT
Pursuant to 310 CMR 40.0800 (SUBPART H)
Remedial System or Monitoring Program: 1 of: 2

BWSC108 -A

Release Tracking Number
3 - 13302

A. DESCRIPTION OF ACTIVE OPERATION AND MAINTENANCE ACTIVITY:

1. Type of Active Operation and Maintenance Activity: (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: _____

☐ b. Active Exposure Pathway Elimination Measure
Active Exposure Pathway Mitigation System to address (check one): ☐ i. Indoor Air ☐ ii. Drinking Water

☑ c. Application of Remedial Additives: (check all that apply)

☐ i. To the Subsurface ☑ ii. To Groundwater (Injection) ☐ iii. To the Surface

☐ d. 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 G5)

☐ i. Reactive Wall ☐ ii. Natural Attenuation ☐ iii. Other Describe: _____

2. Mode of Operation: (check one)

☑ 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
☑ 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)
☐ f. Other Describe: _____

B. MONITORING FREQUENCY:

1. Reporting period that is the subject of this submittal: From: 11/1/2014 (mm/dd/yyyy) To: 4/30/2015 (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: _____

☑ b. Post-system Startup (after first month) or Monitoring Program:
☐ i. Monthly
☑ ii. Quarterly
☐ iii. Annually
☐ iv. Other Describe: _____

☐ 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)

☑ 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: _____

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: 181 b. GW Recovered (gals): 478193
c. NAPL Recovered (gals): _____ d. GW Discharged (gals): 478193
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
SODIUM HYDROXIDE	11/7/2014	600	LBS
SODIUM HYDROXIDE	11/14/2014	600	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

E. STATUS OF ACTIVE REMEDIAL SYSTEM OR ACTIVE REMEDIAL MONITORING PROGRAM DURING REPORTING PERIOD: (cont.)

☐ 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:

Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup
CRA REMEDIAL MONITORING REPORT
Pursuant to 310 CMR 40.0800 (SUBPART H)
Remedial System or Monitoring Program: 1 of: 2

BWSC108 -A

Release Tracking Number
3 - 13302

☐ 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
CRA REMEDIAL MONITORING REPORT
Pursuant to 310 CMR 40.0800 (SUBPART H)
Remedial System or Monitoring Program: 2 of: 2

BWSC108 -A

Release Tracking Number
3 - 13302

A. DESCRIPTION OF ACTIVE OPERATION AND MAINTENANCE ACTIVITY:

1. Type of Active Operation and Maintenance Activity: (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:

☐ b. Active Exposure Pathway Elimination Measure
Active Exposure Pathway Mitigation System to address (check one): ☐ i. Indoor Air ☐ ii. Drinking Water

☑ c. Application of Remedial Additives: (check all that apply)

☐ i. To the Subsurface ☑ ii. To Groundwater (Injection) ☐ iii. To the Surface

☐ d. 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 G5)

☐ i. Reactive Wall ☐ ii. Natural Attenuation ☐ iii. Other Describe:

2. Mode of Operation: (check one)

☐ 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
☐ 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)
☑ f. Other Describe: NO EFFLUENT

B. MONITORING FREQUENCY:

1. Reporting period that is the subject of this submittal: From: 11/1/2014 (mm/dd/yyyy) To: 4/30/2015 (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:

☑ b. Post-system Startup (after first month) or Monitoring Program:

☐ i. Monthly
☐ ii. Quarterly
☐ iii. Annually
☑ iv. Other Describe: SEMI-ANNUAL

☐ 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)

☐ 2. MCP Performance Standard MCP Citations(s):

☐ 3. DEP Approval Letter Date of Letter: (mm/dd/yyyy)

☑ 4. Other Describe: NO EFFLUENT

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

E. STATUS OF ACTIVE REMEDIAL SYSTEM OR ACTIVE REMEDIAL MONITORING PROGRAM DURING REPORTING PERIOD: (cont.)

☐ 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.