Environmental
Resources
Management

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15 November 2007
Reference: 0061882

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

Re: Remedy Operation Status Report
June through November 2007
Former Raytheon Facility
Wayland, Massachusetts
Release Tracking Number 3-13302, Tier IB Permit No. 133939

To Whom It May Concern:

On behalf of Raytheon Company (Raytheon), ERM Consulting & Engineering, Inc. (ERM) is pleased to submit this Remedy Operation Status (ROS) report for the Former Raytheon Facility located at 430 Boston Post Road in Wayland, Massachusetts (Site; Figure 1). This report was prepared for the period from June through November 2007 to satisfy the requirements of the Massachusetts Contingency Plan (MCP) 310 CMR 40.0893. The Massachusetts Department of Environmental Protection (DEP) ROS transmittal form (BWSC 108) and remedial monitoring report (RMR) were filed electronically via eDEP, copies of the forms and an electronic receipt are included in Appendix A.

BACKGROUND

A Phase IV Completion Report was submitted on 24 November 2004 to DEP 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 the Phase IV, ROS reports were submitted to DEP summarizing the following periods:

- December 2004 through April 2005, dated 20 May 2005;
- May 2005 through November 2005, dated 14 November 2005;
- November 2005 through May 2006, dated 19 May 2006;
- May 2006 through November 2006, dated 20 November 2006; and
- November 2006 through May 2007, dated 17 May 2007.

Since remedial activities did not include the installation of an active treatment system, this ROS will only discuss wetland and groundwater monitoring activities that have been conducted since the submission of the last ROS report.

MONITORING DATA

Wetlands Monitoring Activities

In 2007, ERM wetland scientists conducted the fourth annual monitoring program for the 2-acre remediation area, as required in federal, state and local permits. The purpose of the monitoring program is to gauge the progress of the remediation area in meeting success standards set forth by the U.S. Army Corps of Engineers (USACE), the Town of Wayland Conservation Commission (Commission), and DEP for the project such as achieving diverse native vegetative cover. The 2007 monitoring was performed at three different times during the growing season (13 July, 23 August, and 28 September) and involved collecting information on vegetation, soils, and hydrology. The 2007 Annual Monitoring Report will be submitted to the USACE, the Commission, and DEP in December 2007.

With four growing seasons concluded since the remediation and restoration, the area is stable and performing many wetland functions. However, all of the success standards have not been met due to the colonization of the area by two invasive plant species. The annual monitoring program indicates that, despite mechanical suppression efforts, barnyard grass (*Echinochloa crusgalli*) is dominant in portions of the site and purple loosestrife (*Lythrum salicaria*) has spread significantly

this past year. These two invasive species are now the dominant species in approximately 50 percent of the remediation area. The remaining 50 percent consists of native emergent vegetation and planted species. ERM cut the seed heads of barnyard grass and purple loosestrife in all three remediation areas (Areas A, B, and C) on 13 and 14 August 2007 to reduce the potential spread of seed within these areas. Cut plant material was removed from the wetland.

The annual monitoring program also identified that 22 of the 25 planted buttonbush shrubs required by the local and state wetland permit were established along the stream channel in restoration Area C. On 23 August 2007, ERM planted 16 additional buttonbush shrubs along the stream channel. The approximately 3-foot tall shrubs were purchased from Bigelow Nurseries, located in Northborough, Massachusetts.

Groundwater Monitoring Activities

Groundwater monitoring was conducted in accordance with the Phase IV Completion Report, with modifications presented in the ROS Report dated 14 November 2005, to evaluate the efficacy of the in situ chemical oxidation (ISCO) treatment program over time. Monitoring activities were conducted 18 to 20 July 2007 and 1 to 5 October 2007. The groundwater monitoring program will continue until such time as sodium permanganate (permanganate) concentrations have significantly decreased in Site monitoring wells, concentrations of compounds of concern (COCs) approach background, or applicable standards are achieved.

The monitoring program includes the following wells (Figure 3):

- MW-102 Area (18 wells): MW-47S, MW-47M, MW-47D, MW-101, MW-102, MW-103, MW-201S, MW-201M, MW-201D, MW-203S, MW-203M, MW-203D, MW-204S, MW-204M, MW-204D, MW-213, MW-214 and MW-403;
- MW-33 Area (11 wells): MW-33S, MW-33M, MW-107, MW-109, MW-111, MW-113, MW-115, MW-202S, MW-202M, MW-208S and MW-208M;
- MW-43 Area (11 wells): MW-43S, MW-104, MW-105, MW-105M, MW-106, MW-106M, MW-209, MW-210, MW-211, MW-212 and MW-212M;

- MW-40 Area (two wells): MW-40 and MW-40S; and
- Main Building Area (seven wells): MW-117, MW-118, MW-404, MW-405S, IP-16S, IP-16D and IP-17D.

Monitoring activities include:

- Measurement of groundwater elevations;
- Visual determination of groundwater color (indicative of the presence of permanganate);
- Collection of groundwater samples for analysis of permanganate concentration;
- Measurement of groundwater geochemical field parameters, including temperature, conductivity, pH, dissolved oxygen (DO), and oxidation-reduction potential (ORP); and
- Collection of groundwater samples for laboratory analyses.

Geochemical parameters were only recorded for groundwater samples showing no visible permanganate color, because exposure of the water-quality instrumentation to permanganate would cause physical damage to the device. Table 1 summarizes the groundwater monitoring schedule for monitoring wells applicable to RTN 3-13302 for calendar year (CY) 2007.

Groundwater Gauging

ERM conducted groundwater gauging at all accessible Site monitoring wells on 1 October 2007 (Table 2). ERM calculated vertical hydraulic gradients from this data for the Site monitoring wells (Table 3). The upper and lower potentiometric surface maps for the October 2007 gauging event are presented in Figures 4 and 5, respectively.

Groundwater Monitoring – Physical Parameters, Color and Permanganate

Groundwater field parameters were collected during the October field event. The results of the field parameter monitoring for monitoring wells applicable to RTN 3-13302 are summarized on Table 4.

Color and permanganate data collected for monitoring wells applicable to RTN 3-13302 are presented in Table 5. Samples were collected for analysis of permanganate concentration in July and October. Color was employed as a tracer to monitor the presence, approximate concentration, and distribution of permanganate over time. Color observations confirmed the presence and persistence of residual permanganate in the application areas at varying, but generally decreasing, concentrations over time in each injection area.

Groundwater Monitoring – Laboratory Analyses

Groundwater samples were collected from those wells listed above for laboratory analyses of chlorinated volatile organic compounds (CVOCs) by EPA Method 8260B and dissolved sodium by EPA Method 6010B.

CVOC and dissolved sodium analytical results for monitoring wells applicable to RTN 3-13302 are presented in Table 6. The October 2007 trichloroethene (TCE) concentrations are shown on Figure 6. The laboratory analytical reports are presented in Appendix B.

Elevated levels of chloroform, bromodichloromethane, and dibromochloromethane were detected in wells MW-40 and MW-40S. The presence of these chemicals is consistent with concentrations noted in the previous ROS submittal. Evidence was presented in that submittal that the concentrations were the result of leaking fire suppression system standpipes and that no further action is required per the MCP.

REMEDY OPERATING STATUS OPINION

See BWSC Form 108 in Appendix A.

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

Jeremy J. Picard, P.G.
Senior Project Manager

encl:

Table 1	Groundwater Monitoring Schedule
Table 2	Summary of Groundwater Gauging Data
Table 3	Summary of Vertical Hydraulic Gradient Data
Table 4	Summary of Groundwater Field Parameter Measurements
Table 5	Summary of Groundwater Permanganate Concentration and Color
Table 6	Summary of Groundwater Analytical Results

Figure 1	Site Locus Map
Figure 2	Remediation Site Plan
Figure 3	ISCO Treatment Areas
Figure 4	Upper Potentiometric Surface Map
Figure 5	Lower Potentiometric Surface Map
Figure 6	October 2007 TCE Concentration Map

Appendix A	BWSC 108 Form and Remedial Monitoring Report (copies)
Appendix B	Laboratory Analytical Data Reports

cc: Louis Burkhardt, Raytheon
Benson Gould, CMG
Brian Monahan, Town of Wayland Conservation Commission
Public Repositories (2)
Paula Phillips, Congress Group

Tables

Table 1
Groundwater Monitoring Schedule
Former Raytheon Facility
Wayland, Massachusetts

Well Designation	Area of Concern	Laboratory Sampling Schedule			
		February	April	July	October
IP-16S	Main Building	C	C/V	C	C/V/P
IP-16D	Main Building	O	O	O	O
IP-17D	Main Building	C	C/V/P	C	C/V/P
MW-33S	MW-33 Area	C	C/V/S	C	C/V/S
MW-33M	MW-33 Area	C	C/V/S	C	C/V/S
MW-40	MW-40 Area	C	C/V/S	C	C/V/S
MW-40S	MW-40 Area	C	C/V/P	C	C/V/H
MW-43S	MW-43 Area	C	C/V/S	C	C/V/S
MW-47S	MW-102 Area	I	C/V/P	C	C/V/S
MW-47M	MW-102 Area	I	C/V/S	C	C/V/S
MW-47D	MW-102 Area	I	C/V/S	C	C/V/S
MW-101	MW-102 Area	I	C/V/P	C	C/V/S
MW-102	MW-102 Area	I	C/V/P	C	C/V/P
MW-103	MW-102 Area	I	C/V/S	C	C/V/S
MW-104	MW-43 Area	I	C/V/S	C	C/V/P
MW-105	MW-43 Area	I	C/V/H	C	C/V/H
MW-105M	MW-43 Area	C	C/V/S	C	C/V/H
MW-106	MW-43 Area	C	C/V/S	C	C/V/P
MW-106M	MW-43 Area	C	C/V/S	C	C/V/S
MW-107	MW-33 Area	I	C/V/H	C	C/V/H
MW-109	MW-33 Area	I	C/V/S	C	C/V/S
MW-111	MW-33 Area	I	C/V/S	C	C/V/S
MW-113	MW-33 Area	I	C/V/S	C	C/V/S
MW-115	MW-33 Area	I	C/V/S	C	C/V/S
MW-117	Main Building	C	C/V/S	C	Dry
MW-118	Main Building	C	C/V/P	C	C/V/P
MW-201S	MW-102 Area	C	C/V/P	C	C/V/P
MW-201M	MW-102 Area	C	C/V/H	C	C/V/P
MW-201D	MW-102 Area	C	C/V/H	C	C/V/S
MW-202S	MW-33 Area	C	C/M/S	C	C/V/S
MW-202M	MW-33 Area	C	C/M/S	C	C/V/S
MW-203S	MW-102 Area	C	C/V/S	C	C/V/S
MW-203M	MW-102 Area	C	C/M/S	C	C/V/S
MW-203D	MW-102 Area	C	C/V/S	C	C/V/S
MW-204S	MW-102 Area	C	C/V/S	C	C/V/S
MW-204M	MW-102 Area	C	C/M/S	C	C/V/S
MW-204D	MW-102 Area	C	C/V/S	C	C/V/S
MW-208S	MW-33 Area	I	C/M/S	C	C/V/S
MW-208M	MW-33 Area	I	C/M/S	C	C/V/H
MW-209	MW-43 Area	C	C/V/S	C	C/V/S
MW-210	MW-43 Area	I	C/V/S	C	C/V/S
MW-211	MW-43 Area	I	C/V/S	C	C/V/S
MW-212	MW-43 Area	C	C/V/S	C	C/V/S
MW-212M	MW-43 Area	C	C/V/S	C	C/V/S
MW-213	MW-102 Area	I	C/V/S	C	C/V/H
MW-214	MW-102 Area	I	C/V/S	C	C/V/S
MW-403	MW-102 Area	I	C/V/H	C	C/V/H
MW-404	Main Building	C	C/V/P	C	C/V/P
MW-405S	Main Building	C	C/V/P	C	C/V/P

Notes:

O = Not sampled, obstruction in well.
I = Not sampled due to snow and ice accumulation.
C = Sample analyzed for Sodium Permanganate by colorimetry.
V = Sample analyzed for CVOCs.
M = Sample analyzed for CVOCs and MTBE.
S = Sample analyzed for dissolved sodium.
H = Sample not collected for dissolved sodium analysis because of possible presence of sodium permanganate.
P = Sample not collected for dissolved sodium analysis because of observed residual permanganate.

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

Well Designation	Measuring Point Elevation (ft. ASL)	October 2007	
		Depth to Water (ft. below measuring point)	**Potentiometric Surface Elevation** (ft. ASL)
DEP-19S	120.79	5.20	115.59
DEP-19M	120.62	3.70	116.92
DEP-19D	120.78	3.20	117.58
DEP-20	119.98	2.40	117.58
DEP-21	119.18	2.20	116.98
HA-101	127.27	9.46	117.81
HA-102	128.14	16.42	111.72
HA-103	131.54	16.65	114.89
HA-104	132.39	Dry	Dry
IP-16S	134.77	17.37	117.40
IP-16D	134.74	*	*
IP-17S	134.80	-	-
IP-17D	134.83	19.07	115.76
MW-1S	133.79	14.17	119.62
MW-1M	133.78	15.19	118.59
MW-1D	133.74	16.24	117.5
MW-10	130.86	10.90	119.96
MW-32	124.41	-	-
MW-33S	133.58	18.95	114.63
MW-33M	133.77	19.25	114.52
MW-33D	133.57	19.21	114.36
MW-33B	133.67	19.31	114.36
MW-34	136.67	14.07	122.60
MW-37	134.43	17.65	116.78
MW-37M	134.40	18.71	115.69
MW-38	134.42	16.59	117.83
MW-40	134.84	16.28	118.56
MW-40S	134.82	16.50	118.32
MW-41	127.46	15.44	112.02
MW-42S	134.44	15.74	118.70
MW-43S	133.82	16.11	117.71
MW-43D	134.31	17.63	116.68
MW-44S	134.73	16.90	117.83
MW-44M	134.57	17.00	117.57
MW-44D	134.66	16.18	118.48
MW-45S	132.07	19.23	112.84
MW-45M	132.28	19.40	112.88
MW-45D	131.88	16.91	114.97
MW-45B	131.59	17.78	113.81
MW-46S	131.44	15.56	115.88
MW-46M	131.52	17.59	113.93
MW-47S	132.30	18.85	113.45
MW-47M	131.99	18.80	113.19
MW-47D	132.29	17.84	114.45
MW-101	134.60	20.58	114.02
MW-102	134.50	19.98	114.52
MW-103	134.50	17.34	117.16

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

Well Designation	Measuring Point Elevation (ft. ASL)	October 2007	
		Depth to Water (ft. below measuring point)	**Potentiometric Surface Elevation** (ft. ASL)
MW-104	134.22	16.21	118.01
MW-105	134.58	16.11	118.47
MW-105M	134.22	17.69	116.53
MW-106	134.63	17.04	117.59
MW-106M	134.63	17.77	116.86
MW-107	134.65	19.65	115.00
MW-108	134.69	19.85	114.84
MW-109	134.12	19.31	114.81
MW-110	134.04	**	**
MW-111	133.88	19.05	114.83
MW-112	133.68	18.90	114.78
MW-113	133.60	18.88	114.72
MW-114	133.48	18.81	114.67
MW-115	133.56	18.93	114.63
MW-116	133.72	19.10	114.62
MW-117	134.84	Dry	Dry
MW-118	134.88	17.75	117.13
MW-201S	132.38	18.85	113.53
MW-201M	132.19	18.42	113.77
MW-201D	132.10	17.80	114.30
MW-202S	132.74	18.92	113.82
MW-202M	132.98	19.13	113.85
MW-202D	132.72	18.30	114.42
MW-203S	132.50	19.49	113.01
MW-203M	132.39	19.30	113.09
MW-203D	132.14	17.84	114.30
MW-204S	132.98	19.10	113.88
MW-204M	132.02	18.80	113.22
MW-204D	132.30	17.74	114.56
MW-205S	131.98	18.85	113.13
MW-205M	132.12	18.95	113.17
MW-205D	131.98	18.75	113.23
MW-206S	130.82	18.09	112.73
MW-206M	130.75	17.98	112.77
MW-206D	130.66	16.85	113.81
MW-207S	129.16	16.50	112.66
MW-207M	129.29	16.67	112.62
MW-207D	129.10	15.45	113.65
MW-208S	132.14	18.73	113.41
MW-208M	132.38	19.00	113.38
MW-208D	132.38	18.05	114.33
MW-209	134.56	17.38	117.18
MW-210	134.48	17.71	116.77
MW-211	135.26	16.26	119.00
MW-212	134.39	16.25	118.14
MW-212M	133.84	17.69	116.15
MW-213	134.84	17.70	117.14

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

Well Designation	Measuring Point Elevation (ft. ASL)	October 2007	
		Depth to Water (ft. below measuring point)	**Potentiometric Surface Elevation** (ft. ASL)
MW-214	134.60	20.64	113.96
MW-215S	133.42	15.39	118.03
MW-215M	133.48	15.45	118.03
MW-215D	133.44	15.82	117.62
MW-216S	134.54	16.06	118.48
MW-216M	134.59	16.10	118.49
MW-216D	134.59	17.02	117.57
MW-217S	130.06	15.59	114.47
MW-217M	130.44	16.15	114.29
MW-217D	130.20	15.09	115.11
MW-218S	130.24	16.34	113.90
MW-218M	130.16	16.45	113.71
MW-218D	130.02	15.13	114.89
MW-219S	118.12	5.89	112.23
MW-219M	118.09	4.65	113.44
MW-219D	117.95	4.28	113.67
MW-220S	117.09	5.31	111.78
MW-220M	117.29	0.30	116.99
MW-220D	116.99	-	-
MW-221M	120.07	5.18	114.89
MW-221D	120.22	5.05	115.17
MW-261S	131.28	13.51	117.77
MW-262S	129.60	+	+
MW-262M	130.52	+	+
MW-262D	129.73	+	+
MW-263S	127.96	10.06	117.90
MW-263M	127.77	10.57	117.20
MW-264S	126.32	10.23	116.09
MW-264M	126.28	9.19	117.09
MW-264D	126.63	11.15	115.48
MW-265S	130.06	13.66	116.40
MW-265M	129.89	12.88	117.01
MW-265D	130.07	14.50	115.57
MW-266S	126.79	11.57	115.22
MW-266Ma	127.72	11.55	116.17
MW-266Mb	126.88	10.68	116.20
MW-266D	127.70	12.22	115.48
MW-266B	128.14	12.26	115.88
MW-267S	125.30	10.19	115.11
MW-267M	125.40	10.39	115.01
MW-267D	125.88	10.78	115.10
MW-267B	124.02	9.11	114.91
MW-268S	123.66	8.98	114.68
MW-268M	123.41	9.01	114.40
MW-268D	124.86	10.42	114.44
MW-268B	122.34	8.05	114.29
MW-269S	125.54	12.78	112.76

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

Well Designation	Measuring Point Elevation (ft. ASL)	October 2007	
		Depth to Water (ft. below measuring point)	**Potentiometric Surface Elevation** (ft. ASL)
MW-269Ma	124.96	12.56	112.40
MW-269Mb	125.42	11.32	114.10
MW-269D	125.34	12.51	112.83
MW-307	124.86	11.98	112.88
MW-313S	114.61	-	-
MW-313D	114.37	-	-
MW-314S	114.10	*	*
MW-314D	114.09	*	*
MW-315S	114.07	+	+
MW-315D	113.79	*	*
MW-403	134.39	19.79	114.60
MW-404	134.94	18.75	116.19
MW-405S	134.90	18.56	116.34
MW-551	129.30	11.51	117.79
MW-552	130.09	12.25	117.84
MW-553	130.33	12.54	117.79
MW-554S	120.93	11.70	109.23
MW-554Ma	120.82	7.21	113.61
MW-554Mb	120.96	6.91	114.05
MW-554D	120.96	7.60	113.36
MW-555S	121.10	-	-
MW-555Ma	121.25	-	-
MW-555Mb	121.26	-	-
MW-555D	121.19	-	-
MW-556S	120.93	12.99	107.94
MW-556M	121.00	7.44	113.56
MW-556D	120.92	7.45	113.47
MW-TP-3	131.08	13.26	117.82

Notes:

- = Not measured / not accessible.

* = Well damaged, water level not recorded.

** = Not measured, obstruction in well.

+ = Well destroyed, water level not recorded.

Dry = Not measured, well dry.

^A = Well artesian.

Table 3
Summary of Vertical Hydraulic Gradient Data
Former Raytheon Facility
Wayland, Massachusetts

			October 2007		
Well Designation	**Reference Elevation** (ft ASL)	**Saturation Elevation** (ft ASL)	**Head Elevation** (ft)	**Vertical Hydraulic Gradient** (ft/ft)	**Direction**
MW-33S	133.58	106.50	114.63	0.00550	Down
MW-33M	133.77	86.50	114.52		
MW-33M	133.77	86.50	114.52	0.01600	Down
MW-33D	133.57	76.50	114.36		
MW-33D	133.57	76.50	114.36	0.00000	Static
MW-33B	133.67	55.50	114.36		
MW-37	134.43	117.70	116.78	0.03574	Down
MW-37M	134.40	87.20	115.69		
MW-40	134.84	118.20	118.56	0.02286	Down
MW-40S	134.82	107.70	118.32		
MW-43S	133.82	116.90	117.71	0.02943	Down
MW-43D	134.31	81.90	116.68		
MW-44S	134.73	105.40	117.83	0.01625	Down
MW-44M	134.57	89.40	117.57		
MW-44M	134.57	89.40	117.57	-0.04550	Up
MW-44D	134.66	69.40	118.48		
MW-45S	132.07	98.00	112.84	-0.00364	Up
MW-45M	132.28	87.00	112.88		
MW-45M	132.28	87.00	112.88	-0.06967	Up
MW-45D	131.88	57.00	114.97		
MW-45D	131.88	57.00	114.97	0.06042	Down
MW-45B	131.59	37.80	113.81		
MW-46S	131.44	110.30	115.88	0.07800	Down
MW-46M	131.52	85.30	113.93		
MW-47S	132.30	99.10	113.45	0.01857	Down
MW-47M	131.99	85.10	113.19		
MW-47M	131.99	85.10	113.19	-0.06000	Up
MW-47D	132.29	64.10	114.45		
MW-105	134.58	119.58	118.47	0.18726	Down
MW-105M	134.22	109.22	116.53		
MW-106	134.63	119.63	117.59	0.07300	Down
MW-106M	134.63	109.63	116.86		

Table 3
Summary of Vertical Hydraulic Gradient Data
Former Raytheon Facility
Wayland, Massachusetts

			October 2007		
Well Designation	**Reference Elevation** (ft ASL)	**Saturation Elevation** (ft ASL)	**Head Elevation** (ft)	**Vertical Hydraulic Gradient** (ft/ft)	**Direction**
MW-201S	132.38	115.50	113.53	-0.03200	Up
MW-201M	132.19	108.00	113.77		
MW-201M	132.19	108.00	113.77	-0.01395	Up
MW-201D	132.10	70.00	114.3		
MW-202S	132.74	116.30	*		
MW-202M	132.98	102.80	*		
MW-202M	132.98	102.80	*		
MW-202D	132.72	79.80	114.42		
MW-203S	132.50	115.80	113.01	-0.00340	Up
MW-203M	132.39	92.30	113.09		
MW-203M	132.39	92.30	113.09	-0.06050	Up
MW-203D	132.14	72.30	114.3		
MW-204S	132.98	115.60	113.88	0.02491	Down
MW-204M	132.02	89.10	113.22		
MW-204M	132.02	89.10	113.22	-0.05154	Up
MW-204D	132.30	63.10	114.56		
MW-205S	131.98	115.40	113.13	-0.00145	Up
MW-205M	132.12	87.90	113.17		
MW-205M	132.12	87.90	113.17	-0.00261	Up
MW-205D	131.98	64.90	113.23		
MW-206S	130.82	114.10	112.73	-0.00113	Up
MW-206M	130.75	78.60	112.77		
MW-206M	130.75	78.60	112.77	-0.04522	Up
MW-206D	130.66	55.60	113.81		
MW-207S	129.16	112.50	112.66	0.00088	Down
MW-207M	129.29	67.00	112.62		
MW-207M	129.29	67.00	112.62	-0.06059	Up
MW-207D	129.10	50.00	113.65		
MW-208S	132.14	115.90	113.41	0.00109	Down
MW-208M	132.38	88.40	113.38		
MW-208M	132.38	88.40	113.38	-0.05000	Up
MW-208D	132.38	69.40	114.33		
MW-212	134.39	117.30	118.14	0.25383	Down
MW-212M	133.84	109.46	116.15		

Table 3
Summary of Vertical Hydraulic Gradient Data
Former Raytheon Facility
Wayland, Massachusetts

			October 2007		
Well Designation	**Reference Elevation** (ft ASL)	**Saturation Elevation** (ft ASL)	**Head Elevation** (ft)	**Vertical Hydraulic Gradient** (ft/ft)	**Direction**
MW-215S	133.42	116.80	118.03	0.00000	Down
MW-215M	133.48	109.30	118.03		
MW-215M	133.48	109.30	118.03	0.02103	Down
MW-215D	133.44	89.80	117.62		
MW-216S	134.54	117.80	118.48	-0.00087	Up
MW-216M	134.59	106.30	118.49		
MW-216M	134.59	106.30	118.49	0.03538	Down
MW-216D	134.59	80.30	117.57		
MW-217S	130.06	110.50	114.47	0.00800	Down
MW-217M	130.44	88.00	114.29		
MW-217M	130.44	88.00	114.29	-0.04000	Up
MW-217D	130.20	67.50	115.11		
MW-218S	130.24	112.40	113.9	0.00623	Down
MW-218M	130.16	81.90	113.71		
MW-218M	130.16	81.90	113.71	-0.03278	Up
MW-218D	130.02	45.90	114.89		
MW-219S	118.12	108.40	112.23	-0.02305	Up
MW-219M	118.09	55.90	113.44		
MW-219M	118.09	55.90	113.44	-0.02000	Up
MW-219D	117.95	44.40	113.67		
MW-220S	117.09	107.50	111.78	-0.09924	Up
MW-220M	117.29	55.00	116.99		
MW-220M	117.29	55.00	116.99		
MW-220D	116.99	19.00	Decommissioned		
MW-221M	120.07	101.00	114.89	-0.01474	Up
MW-221D	120.22	82.00	115.17		
MW-405S	134.90	111.90	116.34	0.11240	Down
IP-17D	134.83	106.74	115.76		
IP-16S	134.77	117.19	117.4		
IP-16D	134.74	106.68	Obstructed		

Notes:

* = Well not measured/inaccessible.

Table 4
Summary of Groundwater Field Parameter Measurements
Former Raytheon Facility
Wayland, Massachusetts

Well Designation	October 2007				
	Temperature (ºC)	pH (standard units)	ORP (mV)	Dissolved Oxygen (mg/L)	Specific Conductivity (µS/cm)
IP-16S	NMP	NMP	NMP	NMP	NMP
IP-16D	-	-	-	-	-
IP-17D	NMP	NMP	NMP	NMP	NMP
MW-33S	14.39	5.60	208.4	1.55	155
MW-33M	14.63	7.95	-198.8	0.21	207
MW-40	14.54	6.99	180.3	8.79	408
MW-40S	NMH	NMH	NMH	NMH	NMH
MW-43S	16.18	6.92	238.7	2.60	875
MW-47S	16.93	6.18	226.5	0.61	192
MW-47M	17.26	7.14	-165.0	0.55	472
MW-47D	16.25	6.94	-113.3	0.53	713
MW-101	15.46	6.40	213.6	0.51	265
MW-102	NMP	NMP	NMP	NMP	NMP
MW-103	15.27	7.28	211.8	7.98	485
MW-104	NMP	NMP	NMP	NMP	NMP
MW-105	NMH	NMH	NMH	NMH	NMH
MW-105M	NMH	NMH	NMH	NMH	NMH
MW-106	NMP	NMP	NMP	NMP	NMP
MW-106M	15.51	7.10	101.1	1.71	975
MW-107	NMH	NMH	NMH	NMH	NMH
MW-109	16.26	6.31	70.5	0.64	319
MW-111	15.26	6.07	79.4	0.36	283
MW-113	15.35	6.55	79.9	0.25	475
MW-115	16.09	6.54	-21.3	0.34	544
MW-117	Dry	Dry	Dry	Dry	Dry
MW-118	NMP	NMP	NMP	NMP	NMP
MW-201S	NMP	NMP	NMP	NMP	NMP
MW-201M	NMP	NMP	NMP	NMP	NMP
MW-201D	18.01	7.12	-40.0	3.14	398
MW-202S	16.64	6.19	249.3	7.01	244
MW-202M	14.57	5.95	172.0	1.04	149
MW-203S	17.16	7.65	125.1	8.76	288
MW-203M	15.45	6.29	133.30	3.54	564
MW-203D	17.51	6.43	-41.2	0.82	714
MW-204S	18.02	7.13	227.0	9.17	101
MW-204M	15.55	5.75	188.4	2.32	229
MW-204D	17.57	7.07	-78.5	1.38	678
MW-208S	18.30	7.06	186.9	9.07	325
MW-208M	NMH	NMH	NMH	NMH	NMH
MW-209	Dry	Dry	Dry	Dry	Dry
MW-210	15.63	7.18	33.6	0.60	902
MW-211	16.19	6.07	361.9	1.28	776
MW-212	Dry	Dry	Dry	Dry	Dry
MW-212M	14.69	6.96	83.6	1.85	670
MW-213	NMH	NMH	NMH	NMH	NMH
MW-214	16.58	6.57	54.1	2.85	463
MW-403	NMH	NMH	NMH	NMH	NMH
MW-404	NMP	NMP	NMP	NMP	NMP
MW-405S	NMP	NMP	NMP	NMP	NMP

Notes:
- = Obstruction in well, parameters not measured.
NMP = Not measured due to visual presence of permanganate.
NMH = Not measured due to conductivity over 1,000 µS/cm or ORP over 400 mV.
ORP = Oxidation reduction potential.
mg/L = Milligrams per liter (parts per million).
µS/cm = Microsiemens per centimeter.
mV = Millivolts.
Dry = Not enough water in well to take parameters.

Table 5
Summary of Groundwater Permanganate Concentration and Color
Former Raytheon Facility
430 Boston Post Road
Wayland, Massachusetts

Well Designation	Visual Permanganate Presence												Sodium Permanganate Concentration (ppm)											
	Apr-2004	Jul-2004	Sep-2004	Dec-2004	Apr-2005	Oct-2005	Apr-2006	Sep-2006	Feb-2007	Apr-2007	Jul-2007	Oct-2007	Apr-2004	Jul-2004	Sep-2004	Dec-2004	Apr-2005	Oct-2005	Apr-2006	Sep-2006	Feb-2007	Apr-2007	Jul-2007	Oct-2007
IP-16S		Dark Purple		Purple	Dark Purple	Purple	Purple	Purple	Clear	Dark Purple	Purple	Purple		3,560		2,200	5,140	1,130	670	907	-	380	295	217
IP-16D		Purple	Pink	Dark Purple	Dark Purple		Magenta							165	76	5,330	6,850		225					
IP-17S		Dark Purple	Dark Purple	Purple		Light Pink								5,310	1,010	397		110						
IP-17D		Dark Purple	Purple	Dark Purple	Dark Purple	Pink	Light Pink	Clear	Clear	Dark Purple	Clear	Clear		8,770	230	3,400	5,140	99	24.5	-	-	480	-	-
MW-33S	Clear			Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear				-	-	-	-	-	-	-	-	-
MW-33M	Clear			Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear				-	-	-	-	-	-	-	-	-
MW-33D			Clear	Clear											-	-								
MW-33B			Clear	Clear											-	-								
MW-40	Clear	Clear		Clear	Clear		Clear	Clear	Clear	Clear	Clear	Clear		-		-	0.6		-	-	-	-	-	-
MW-40S		Light Pink		Pink	Light Pink	Light Pink	Light Pink	Light Pink	Clear	Light Pink	Clear	Light Pink		9.2		86	7.8	55	20.6	3.4	-	5.3	-	1.0
MW-42S			Clear	Clear											-	-								
MW-43S	Clear	Light Pink		Dark Purple	Light Pink	Clear	Clear	Clear	Clear	Clear	Clear	Clear		13.0		1500	60	0.9	-	-	-	-	-	-
MW-43D		Clear		Clear										-		-								
MW-45S	Clear			Clear						Clear						-						-		
MW-45M	Clear			Clear						Clear						-						-		
MW-45D	Clear			Clear						Clear						-						-		
MW-45B										Clear												-		
MW-46M										Clear												-		
MW-47S	Clear	Clear		Clear	Light Purple	Pink	Light Pink	Light Pink		Light Pink	Clear	Clear		-		-	37	10.9	19.5	3.9		-	-	-
MW-47M	Clear	Clear		Clear	Clear	Clear	Clear	Clear		Clear	Clear	Clear		-		-	1.4	-	1.6	-		-	-	-
MW-47D	Clear	Clear		Clear	Clear	Light Pink	Clear	Clear		Clear	Clear	Clear		-		-	-	1.0	-	-		-	-	-
MW-101	Clear	Light Pink		Dark Purple	Dark Pink	Pink	Light Pink	Clear		Light Pink	Clear	Clear		6.0		1,700	240	65.7	9.6	-		5.1	-	-
MW-102	Clear	Dark Purple		Magenta	Light Pink	Clear	Clear	Purple		Purple	Purple	Purple		830		78.8	5.8	1.0	-	243		228	235	271
MW-103	Clear	Clear		Clear	Clear	Light Pink	Clear	Clear		Clear	Clear	Clear		-		-	-	1.0	2.2	-		-	-	-
MW-104	Clear	Dark Purple		Light Pink	Clear	Dark Pink	Clear	Clear		Clear	Clear	Clear		4,770		43.1	-	47.1	-	-		-	-	-
MW-105	Clear	Dark Purple		Dark Purple	Pink	Dark Pink	Clear	Pink		Clear	Clear	Clear		1,140		1,710	106	131	-	11.4		-	-	-
MW-105M	Pink	Dark Purple		Dark Purple	Dark Purple	Pink	Pink	Clear	Black, Cloudy	Clear	Clear	Clear		961		1,300	510	34.7	29.6	-	-	-	-	-
MW-106	Pink	Dark Purple		Dark Purple	Light Pink	Clear	Clear	Clear	Clear	Clear	Clear	Clear		3,390		16,200	8.8	-	-	-	-	-	-	-
MW-106M	Purple	Dark Purple		Purple	Pink	Light Pink	Clear	Clear	Clear	Clear	Clear	Clear		666		400	99	4.7	1.3	-	-	-	-	-
MW-107	Clear	Clear		Clear	Clear	Clear	Clear	Clear		Clear	Clear	Clear		-		-	-	-	-	-		-	-	-
MW-108			Clear	Clear											-	1.3								
MW-109	Clear	Clear		Clear	Clear	Clear	Clear	Clear		Clear	Clear	Clear		-		-	16	1.1	-	-		-	-	-
MW-110			Pink	Clear											76.4	-								
MW-111	Clear	Clear		Clear	Clear	Clear	Clear	Clear		Clear	Clear	Clear		-		-	4.2	-	-	-		-	-	-
MW-112	Clear		Clear	Clear											-	1.4								
MW-113	Clear	Clear		Clear	Clear	Clear	Clear	Clear		Clear	Clear	Clear		-		-	-	-	4.0	-		-	-	-
MW-114	Clear		Clear	Clear											-	-								
MW-115	Clear	Clear		Clear	Clear	Clear	Clear	Clear		Clear	Clear	Clear		-		-	2.3	-	-	-		-	-	-
MW-116	Clear		Clear	Clear											-	-								
MW-117	Clear	Clear		Clear	Clear			Clear	Clear	Clear	Clear			-		-	3.3			-	-	-	-	
MW-118	Clear	Clear		Clear	Light Pink	Pink	Light Pink	Clear	Clear	Purple	Clear	Pink		-		-	12.4	260	22.9	-	-	323	-	8.8
MW-201S	Clear	Purple		Pink	Clear	Purple	Clear	Magenta	Pink	Light Pink	Light Pink	Purple		790		78.8	3.8	240	-	49.7	30.2	2.2	2.2	244
MW-201M	Clear	Purple		Pink	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear		21,000		21.4	-	-	-	-	-	-	-	-
MW-201D	Clear	Clear		Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear		-		-	-	1.2	1.5	-	-	-	-	-

Table 5
Summary of Groundwater Permanganate Concentration and Color
Former Raytheon Facility
430 Boston Post Road
Wayland, Massachusetts

Well Designation	Visual Permanganate Presence												Sodium Permanganate Concentration (ppm)											
	Apr-2004	Jul-2004	Sep-2004	Dec-2004	Apr-2005	Oct-2005	Apr-2006	Sep-2006	Feb-2007	Apr-2007	Jul-2007	Oct-2007	Apr-2004	Jul-2004	Sep-2004	Dec-2004	Apr-2005	Oct-2005	Apr-2006	Sep-2006	Feb-2007	Apr-2007	Jul-2007	Oct-2007
MW-202S	Clear	Clear		Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear		-		-	-	1.1	-	-	-	-	-	-
MW-202M	Clear	Clear		Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear		-		-	-	-	-	-	-	-	-	-
MW-202D	Clear	Clear		Clear						Clear				-		-						-		
MW-203S	Clear	Clear		Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear		-		-	-	1.2	-	-	-	-	-	-
MW-203M	Clear	Clear		Clear	Clear	Clear	Clear	Clear	Clear	Light Pink	Clear	Clear		-		-	-	1.3	6.6	-	-	3.3	-	-
MW-203D	Clear	Clear		Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear		-		-	4.9	1.0	-	-	-	-	-	-
MW-204S	Clear	Clear		Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear		-		-	-	1.3	-	-	-	-	-	-
MW-204M	Clear	Clear		Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear		-		-	2.5	-	-	-	-	-	-	-
MW-204D	Clear	Clear		Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear		-		-	2.3	-	-	-	-	-	-	-
MW-205S	Clear			Clear						Clear						-						-		
MW-205M	Clear			Clear						Clear						-						-		
MW-205D	Clear			Clear						Clear						-						-		
MW-206S										Clear												-		
MW-206M										Clear												-		
MW-206D										Clear												-		
MW-207S										Clear												-		
Mw-207M										Clear												-		
MW-207D										Clear												-		
MW-208S	Clear	Clear		Clear	Clear	Clear	Clear	Clear		Clear	Clear	Clear		-		-	-	-	-	-		-	-	-
MW-208M	Clear	Clear		Clear	Clear	Clear	Clear	Clear		Clear	Clear	Clear		-		-	-	0.9	4.7	-		-	-	-
MW-208D	Clear			Clear						Clear						-						-		
MW-209	Clear	Clear		Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear		-		-	1.5	-	10.5	-	-	-	-	-
MW-210	Purple/Pink	Dark Purple		Dark Purple	Dark Purple	Light Purple	Light Pink	Clear		Clear	Clear	Clear		360		2,570	1,010	220	15.7	-		-	-	-
MW-211	Clear	Clear		Clear	Clear	Clear	Clear	Clear		Clear	Clear	Clear		-		-	-	-	-	-		-	-	-
MW-212	Clear	Clear		Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear		-		-	-	-	-	-	-	-	-	-
MW-212M	Pink	Pink		Clear	Clear	Clear	Clear	Clear	Light Yellow	Clear	Clear	Clear		24.0		-	1.6	-	-	-	1.0	-	-	-
MW-213	Clear	Clear		Light Pink	Clear	Light Pink	Clear	Trace Pink		Clear	Clear	Light Pink		-		10.9	1.0	-	-	-		-	-	-
MW-214	Clear	Dark Purple		Clear	Clear	Clear	Clear	Clear		Clear	Clear	Clear		720		-	3.8	2.1	-	-		-	-	-
MW-216S			Clear	Clear											1.3	1.0								
MW-216M			Clear	Clear											-	-								
MW-216D			Clear	Clear			Clear	Clear							-	-			-	-				
MW-217S										Clear												-		
MW-217M										Clear												-		
MW-217D										Clear												-		
MW-218S										Clear												-		
MW-218M										Clear												-		
MW-218D										Clear												-		
MW-221M										Clear												-		
MW-221D										Clear												-		
MW-403	Clear	Clear		Clear	Clear	Clear	Clear	Clear		Clear	Clear	Clear		-		-	5.6	1.2	-	-		-	-	-
MW-404	Clear	Dark Purple		Dark Purple	Dark Purple	Dark Purple	Dark Purple	Purple	Purple	Dark Purple	Purple	Purple		22,500		14,400	9,520	8,490	2,830	1,160	311	510	440	453
MW-405S	Clear	Dark Purple		Dark Purple	Dark Purple	Purple	Purple	Purple	Purple	Dark Purple	Purple	Purple		3,570		3,390	2,860	2,000	810	1,550	1,390	1,070	1,190	898
MW-405D		Dark Purple												8,720										

Notes:
Blank cells indicate a sample that was not analyzed.
- = Not detected.

Table 6
Summary of Groundwater Analytical Results
Former Raytheon Facility
Wayland, Massachusetts

Sample I.D. Date Sampled Comments	**MCP Std** **Method 1** **GW 1**	**IP-16S** **20-Jul-04**	**IP-16S** **22-Jul-04**	**IP-16S** **8-Dec-04**	**IP-16S** **14-Apr-05**	**IP-16S** **14-Oct-05**	**IP-16S** **3-Apr-06**	**IP-16S** **27-Sep-06**	**IP-16S** **26-Apr-07**	**IP-16S** **26-Apr-07** **DUP**	**IP-16S** **3-Oct-07**
Volatile Organic Compounds (VOCs) (µg/L)			NM	NM	NM	NM	NM				
Tetrachloroethene	5	-						-	-	-	-
Trichloroethene	5	-						-	-	-	-
cis-1,2-Dichloroethene	70	-						-	-	-	-
1,1,1-Trichloroethane	200	-						-	-	-	-
1,1-Dichloroethene	7	-						-	-	-	-
1,1-Dichloroethane	70	-						-	-	-	-
Chlorobenzene	100	-						-	-	-	-
Chloroform	5	-						-	0.88	1.0	0.82
Bromodichloromethane	3	-						-	-	-	-
Didbromochloromethane	2	-						-	-	-	-
Metals (mg/L)											
Sodium	NS							310	NM		NM

Notes:
- = Analytical result below the method detection limit, (ND).
Blank cells indicate a sample was not analyzed for that compound.
NM = Sample not analyzed due to presence of permanganate.
NM-O = Obstruction in well, no sample collected.
Bold and shaded cells indicate exceedance of MCP standard.
DUP = Field duplicate.
µg/L = Micrograms per liter, (parts per billion [ppb]).
mg/L = Milligrams per liter, (parts per million [ppm]).
NS = No MCP Standard.

Table 6
Summary of Groundwater Analytical Results
Former Raytheon Facility
Wayland, Massachusetts

Sample I.D. Date Sampled Comments	**MCP Std** **Method 1** **GW 1**	**IP-16D** **22-Jul-04**	**IP-16D** **8-Dec-04**	**IP-16D** **14-Apr-05**	**IP-16D** **3-Apr-06**	**IP-16D** **27-Sep-06**	**IP-16D** **26-Apr-07**
Volatile Organic Compounds (VOCs) (µg/L)		NM	NM	NM	NM	NM-O	NM-O
Tetrachloroethene	5						
Trichloroethene	5						
cis-1,2-Dichloroethene	70						
1,1,1-Trichloroethane	200						
1,1-Dichloroethene	7						
1,1-Dichloroethane	70						
Chlorobenzene	100						
Chloroform	5						
Bromodichloromethane	3						
Didbromochloromethane	2						
Metals (mg/L)							
Sodium	NS						

Notes:
- = Analytical result below the method detection limit, (ND).
Blank cells indicate a sample was not analyzed for that compound.
NM = Sample not analyzed due to presence of permanganate.
NM-O = Obstruction in well, no sample collected.
Bold and shaded cells indicate exceedance of MCP standard.
DUP = Field duplicate.
µg/L = Micrograms per liter, (parts per billion [ppb]).
mg/L = Milligrams per liter, (parts per million [ppm]).
NS = No MCP Standard.

Table 6
Summary of Groundwater Analytical Results
Former Raytheon Facility
Wayland, Massachusetts

Sample I.D. Date Sampled Comments	**MCP Std** **Method 1** **GW 1**	**IP-17D** **22-Jul-04**	**IP-17D** **8-Dec-04**	**IP-17D** **14-Apr-05**	**IP-17D** **14-Oct-05**	**IP-17D** **3-Apr-06**	**IP-17D** **27-Sep-06**	**IP-17D** **26-Apr-07**	**IP-17D** **3-Oct-07**
Volatile Organic Compounds (VOCs) (µg/L)		NM	NM	NM	NM	NM			
Tetrachloroethene	5						-	-	-
Trichloroethene	5						**98**	0.53	**66**
cis-1,2-Dichloroethene	70						1.5	-	1.3
1,1,1-Trichloroethane	200						-	-	-
1,1-Dichloroethene	7						-	-	-
1,1-Dichloroethane	70						0.77	-	-
Chlorobenzene	100						-	-	-
Chloroform	5						1.1	1.2	1.2
Bromodichloromethane	3						-	-	-
Didbromochloromethane	2						-	-	-
Metals (mg/L)									
Sodium	NS						280	NM	NM

Notes:
- = Analytical result below the method detection limit, (ND).
Blank cells indicate a sample was not analyzed for that compound.
NM = Sample not analyzed due to presence of permanganate.
NM-O = Obstruction in well, no sample collected.
Bold and shaded cells indicate exceedance of MCP standard.
DUP = Field duplicate.
µg/L = Micrograms per liter, (parts per billion [ppb]).
mg/L = Milligrams per liter, (parts per million [ppm]).
NS = No MCP Standard.

Table 6
Summary of Groundwater Analytical Results
Former Raytheon Facility
Wayland, Massachusetts

Sample I.D.	MCP Std	MW-33S	MW-33S	MW-33S	MW-33S	MW-33S	MW-33S	MW-33S	MW-33S	MW-33S
Date Sampled	Method 1	29-Apr-04	10-Dec-04	10-Dec-04	12-Apr-05	11-Oct-05	3-Apr-06	28-Sep-06	26-Apr-07	2-Oct-07
Comments	GW 1			DUP						
Volatile Organic Compounds (VOCs) (µg/L)										
Tetrachloroethene	5	-	-	-	-	-	-	-	-	-
Trichloroethene	5	**100**	**560**	**590**	**73**	**180**	**190**	**140**	**40**	**140**
cis-1,2-Dichloroethene	70	-	1.6	-	-	-	-	-	-	0.50
1,1,1-Trichloroethane	200	28	150	170	22	51	57	34	14	37
1,1-Dichloroethene	7	-	4.6	-	1.1	6.1	-	-	-	-
1,1-Dichloroethane	70	-	1.6	-	-	-	-	-	-	-
Chlorobenzene	100	-	-	-	-	-	-	-	-	-
Chloroform	5	-	-	-	-	-	-	-	-	-
Bromodichloromethane	3	-	-	-	-	-	-	-	-	-
Didbromochloromethane	2	-	-	-	-	-	-	-	-	-
Metals (mg/L)										
Sodium	NS	7.0	8.9	8.8	6.8	6.2	7.2	5.3	5.2	11

Notes:
- = Analytical result below the method detection limit, (ND).
Blank cells indicate a sample was not analyzed for that compound.
NM = Sample not analyzed due to presence of permanganate.
NM-O = Obstruction in well, no sample collected.
Bold and shaded cells indicate exceedance of MCP standard.
DUP = Field duplicate.
µg/L = Micrograms per liter, (parts per billion [ppb]).
mg/L = Milligrams per liter, (parts per million [ppm]).
NS = No MCP Standard.

Table 6
Summary of Groundwater Analytical Results
Former Raytheon Facility
Wayland, Massachusetts

Sample I.D.	MCP Std	MW-33M	MW-33M	MW-33M	MW-33M	MW-33M	MW-33M	MW-33M	MW-33M	MW-33M	MW-33M
Date Sampled	Method 1	29-Apr-04	29-Apr-04	9-Dec-04	12-Apr-05	11-Oct-05	4-Apr-06	28-Sep-06	25-Apr-07	25-Apr-07	3-Oct-07
Comments	GW 1		DUP							DUP	
Volatile Organic Compounds (VOCs) (µg/L)											
Tetrachloroethene	5	-	-	-	-	-	-	-	-	-	-
Trichloroethene	5	**10**	**8.2**	**9.3**	**11**	**12**	**14**	**10**	**8.2**	**8.7**	**8.9**
cis-1,2-Dichloroethene	70	1.1	1.2	1.7	1.8	2.3	2.1	2.2	1.6	1.6	2.5
1,1,1-Trichloroethane	200	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethene	7	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethane	70	-	-	-	-	-	-	-	-	-	-
Chlorobenzene	100	-	-	-	-	-	-	-	-	-	-
Chloroform	5	-	-	-	-	-	-	-	-	-	-
Bromodichloromethane	3	-	-	-	-	-	-	-	-	-	-
Didbromochloromethane	2	-	-	-	-	-	-	-	-	-	-
Metals (mg/L)											
Sodium	NS	16	16	14	18	15	15	13	12		14

Notes:
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Blank cells indicate a sample was not analyzed for that compound.
NM = Sample not analyzed due to presence of permanganate.
NM-O = Obstruction in well, no sample collected.
Bold and shaded cells indicate exceedance of MCP standard.
DUP = Field duplicate.
µg/L = Micrograms per liter, (parts per billion [ppb]).
mg/L = Milligrams per liter, (parts per million [ppm]).
NS = No MCP Standard.

Table 6
Summary of Groundwater Analytical Results
Former Raytheon Facility
Wayland, Massachusetts

Sample I.D.	MCP Std	MW-40	MW-40	MW-40	MW-40	MW-40	MW-40	MW-40	MW-40
Date Sampled	Method 1	28-Apr-04	28-Apr-04	10-Dec-04	11-Apr-05	11-Apr-05	12-Oct-05	4-Apr-06	4-Apr-06
Comments	GW 1		DUP			DUP			DUP
Volatile Organic Compounds (VOCs) (µg/L)									
Tetrachloroethene	5	1.4	1.3	0.88	1.4	1.5	1.6	0.67	0.80
Trichloroethene	5	**6.8**	**5.5**	4.1	**6.5**	**6.3**	5.3	4.0	4.5
cis-1,2-Dichloroethene	70	-	-	-	-	-	-	-	-
1,1,1-Trichloroethane	200	-	-	-	-	-	-	-	-
1,1-Dichloroethene	7	-	-	-	-	-	-	-	-
1,1-Dichloroethane	70	-	-	-	-	-	-	-	-
Chlorobenzene	100	-	-	-	-	-	-	-	-
Chloroform	5	-	-	-	-	-	2.8	**7.1**	**5.8**
Bromodichloromethane	3	-	-	-	-	-	0.87	2.4	2.2
Didbromochloromethane	2	-	-	-	-	-	-	0.72	0.74
Metals (mg/L)									
Sodium	NS	44	43	78	55	56	89	79	76

Notes:
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Blank cells indicate a sample was not analyzed for that compound.
NM = Sample not analyzed due to presence of permanganate.
NM-O = Obstruction in well, no sample collected.
Bold and shaded cells indicate exceedance of MCP standard.
DUP = Field duplicate.
µg/L = Micrograms per liter, (parts per billion [ppb]).
mg/L = Milligrams per liter, (parts per million [ppm]).
NS = No MCP Standard.

Table 6
Summary of Groundwater Analytical Results
Former Raytheon Facility
Wayland, Massachusetts

Sample I.D.	MCP Std	MW-40	MW-40	MW-40	MW-40	MW-40	MW-40	MW-40	MW-40
Date Sampled	Method 1	26-Sep-06	26-Sep-06	15-Nov-06	29-Dec-06	15-Jan-07	25-Apr-07	2-Oct-07	2-Oct-07
Comments	GW 1		DUP						DUP
Volatile Organic Compounds (VOCs) (µg/L)									
Tetrachloroethene	5	0.52	0.59	-	1.8	1.0	1.2	0.73	-
Trichloroethene	5	2.9	3.3	2.7	**6.2**	2.9	**5.4**	4.2	4.2
cis-1,2-Dichloroethene	70	-	-	-		-	-	-	-
1,1,1-Trichloroethane	200	-	-	-		-	-	-	-
1,1-Dichloroethene	7	-	-	-		-	-	-	-
1,1-Dichloroethane	70	-	-	-		-	-	-	-
Chlorobenzene	100	-	-	-		-	-	-	-
Chloroform	5	**8.2**	**9.1**	**7.8**	**5.2**	**7.4**	**5.8**	**8.1**	**8.1**
Bromodichloromethane	3	**4.2**	**5.0**	**4.6**	2.3	**3.6**	2.4	4.1	3.9
Didbromochloromethane	2	**3.2**	**3.5**	**3.0**	1.0	0.87	0.80	-	-
Metals (mg/L)									
Sodium	NS	74	73				30	60	61

Notes:
- = Analytical result below the method detection limit, (ND).
Blank cells indicate a sample was not analyzed for that compound.
NM = Sample not analyzed due to presence of permanganate.
NM-O = Obstruction in well, no sample collected.
Bold and shaded cells indicate exceedance of MCP standard.
DUP = Field duplicate.
µg/L = Micrograms per liter, (parts per billion [ppb]).
mg/L = Milligrams per liter, (parts per million [ppm]).
NS = No MCP Standard.

Table 6
Summary of Groundwater Analytical Results
Former Raytheon Facility
Wayland, Massachusetts

Sample I.D. Date Sampled Comments	**MCP Std** **Method 1** **GW 1**	**MW-40S** **28-Apr-04**	**MW-40S** **20-Jul-04**	**MW-40S** **10-Dec-04**	**MW-40S** **11-Apr-05**	**MW-40S** **12-Oct-05**	**MW-40S** **4-Apr-06**
Volatile Organic Compounds (VOCs) (µg/L)			NM				
Tetrachloroethene	5	-		-	-	-	-
Trichloroethene	5	2.6		1.7	4.5	1.5	2.5
cis-1,2-Dichloroethene	70	-		-	-	-	-
1,1,1-Trichloroethane	200	-		-	-	-	-
1,1-Dichloroethene	7	-		-	-	-	-
1,1-Dichloroethane	70	-		-	-	-	-
Chlorobenzene	100	-		-	-	-	-
Chloroform	5	-		-	-	-	-
Bromodichloromethane	3	-		-	-	-	-
Didbromochloromethane	2	-		-	-	-	-
Metals (mg/L)							
Sodium	NS	140					

Notes:
- = Analytical result below the method detection limit, (ND).
Blank cells indicate a sample was not analyzed for that compound.
NM = Sample not analyzed due to presence of permanganate.
NM-O = Obstruction in well, no sample collected.
Bold and shaded cells indicate exceedance of MCP standard.
DUP = Field duplicate.
µg/L = Micrograms per liter, (parts per billion [ppb]).
mg/L = Milligrams per liter, (parts per million [ppm]).
NS = No MCP Standard.

Table 6
Summary of Groundwater Analytical Results
Former Raytheon Facility
Wayland, Massachusetts

Sample I.D.	MCP Std	MW-40S	MW-40S	MW-40S	MW-40S	MW-40S	MW-40S	MW-40S	MW-40S
Date Sampled	Method 1	26-Sep-06	15-Nov-06	29-Dec-06	29-Dec-06	15-Jan-07	15-Jan-07	26-Apr-07	2-Oct-07
Comments	GW 1				DUP		DUP		
Volatile Organic Compounds (VOCs) (µg/L)									
Tetrachloroethene	5	-		-	-	-	-	-	-
Trichloroethene	5	1.4	0.82	0.57	0.53	0.60	0.60	1.3	1.7
cis-1,2-Dichloroethene	70	-		-	-	-	-	-	-
1,1,1-Trichloroethane	200	-		-	-	-	-	-	-
1,1-Dichloroethene	7	-		-	-	-	-	-	-
1,1-Dichloroethane	70	-		-	-	-	-	-	-
Chlorobenzene	100	-		-	-	-	-	-	-
Chloroform	5	1.0	2.1	1.6	1.8	2.4	2.4	3.7	4.4
Bromodichloromethane	3	0.80	1.1	0.71	0.84	1.1	1.0	1.7	2.4
Didbromochloromethane	2	-	0.82	-	-	0.69	0.64	1.3	1.7
Metals (mg/L)									
Sodium	NS	100						NM	NM

Notes:
- = Analytical result below the method detection limit, (ND).
Blank cells indicate a sample was not analyzed for that compound.
NM = Sample not analyzed due to presence of permanganate.
NM-O = Obstruction in well, no sample collected.
Bold and shaded cells indicate exceedance of MCP standard.
DUP = Field duplicate.
µg/L = Micrograms per liter, (parts per billion [ppb]).
mg/L = Milligrams per liter, (parts per million [ppm]).
NS = No MCP Standard.

Table 6
Summary of Groundwater Analytical Results
Former Raytheon Facility
Wayland, Massachusetts

Sample I.D.	MCP Std	MW-43S	MW-43S	MW-43S	MW-43S	MW-43S	MW-43S	MW-43S	MW-43S	MW-43S
Date Sampled	Method 1	27-Apr-04	8-Dec-04	13-Apr-05	12-Oct-05	4-Apr-06	28-Sep-06	25-Apr-07	25-Apr-07	4-Oct-07
Comments	GW 1								DUP	
Volatile Organic Compounds (VOCs) (µg/L)			NM							
Tetrachloroethene	5	3.9		1.2	0.58	3.4	2.0	2.7	2.7	1.1
Trichloroethene	5	**92**		**49**	3.4	**51**	**28**	**45**	**44**	**10**
cis-1,2-Dichloroethene	70	-		-	-	-	-	-	-	-
1,1,1-Trichloroethane	200	-		-	-	-	-	-	-	-
1,1-Dichloroethene	7	-		-	-	-	-	-	-	-
1,1-Dichloroethane	70	-		-	-	-	-	-	-	-
Chlorobenzene	100	-		-	-	-	-	-	-	-
Chloroform	5	-		-	-	-	-	-	-	-
Bromodichloromethane	3	-		-	-	-	-	-	-	-
Didbromochloromethane	2	-		-	-	-	-	-	-	-
Metals (mg/L)										
Sodium	NS	210				120	200	75		150

Notes:
- = Analytical result below the method detection limit, (ND).
Blank cells indicate a sample was not analyzed for that compound.
NM = Sample not analyzed due to presence of permanganate.
NM-O = Obstruction in well, no sample collected.
Bold and shaded cells indicate exceedance of MCP standard.
DUP = Field duplicate.
µg/L = Micrograms per liter, (parts per billion [ppb]).
mg/L = Milligrams per liter, (parts per million [ppm]).
NS = No MCP Standard.

Table 6
Summary of Groundwater Analytical Results
Former Raytheon Facility
Wayland, Massachusetts

Sample I.D.	MCP Std	MW-47S	MW-47S	MW-47S	MW-47S	MW-47S	MW-47S	MW-47S	MW-47S	MW-47S	MW-47S	MW-47S
Date Sampled	Method 1	28-Apr-04	23-Jul-04	9-Dec-04	12-Apr-05	12-Oct-05	5-Apr-06	26-Sep-06	26-Sep-06	26-Apr-07	3-Oct-07	3-Oct-07
Comments	GW 1								DUP			DUP
Volatile Organic Compounds (VOCs) (µg/L)					NM							
Tetrachloroethene	5	0.66	-	1.7		1.5	1.3	-	-	0.80	-	-
Trichloroethene	5	**25**	**11**	1.6		-	-	-	-	0.94	0.66	0.53
cis-1,2-Dichloroethene	70	-	-	-		-	-	-	-	-	-	-
1,1,1-Trichloroethane	200	6.4	3.1	0.66		-	0.92	0.87	1.4	4.4	-	-
1,1-Dichloroethene	7	-	-	-		-	-	-	-	-	-	-
1,1-Dichloroethane	70	-	-	-		-	-	-	-	-	-	-
Chlorobenzene	100	-	-	-		-	-	-	-	-	-	-
Chloroform	5	-	-	-		-	-	-	-	-	-	-
Bromodichloromethane	3	-	-	-		-	-	-	-	-	-	-
Didbromochloromethane	2	-	-	-		-	-	-	-	-	-	-
Metals (mg/L)												
Sodium	NS	5.3					12	46	47	NM	32	34

Notes:
- = Analytical result below the method detection limit, (ND).
Blank cells indicate a sample was not analyzed for that compound.
NM = Sample not analyzed due to presence of permanganate.
NM-O = Obstruction in well, no sample collected.
Bold and shaded cells indicate exceedance of MCP standard.
DUP = Field duplicate.
µg/L = Micrograms per liter, (parts per billion [ppb]).
mg/L = Milligrams per liter, (parts per million [ppm]).
NS = No MCP Standard.

Table 6
Summary of Groundwater Analytical Results
Former Raytheon Facility
Wayland, Massachusetts

Sample I.D.	MCP Std	MW-47M	MW-47M	MW-47M	MW-47M	MW-47M	MW-47M	MW-47M	MW-47M	MW-47M	MW-47M
Date Sampled	Method 1	28-Apr-04	23-Jul-04	9-Dec-04	11-Apr-05	10-Oct-05	5-Apr-06	5-Apr-06	27-Sep-06	25-Apr-07	4-Oct-07
Comments	GW 1							DUP			
Volatile Organic Compounds (VOCs) (µg/L)											
Tetrachloroethene	5	-	1.4	0.57	-	-	-	-	-	-	-
Trichloroethene	5	**150**	**47**	**100**	**120**	**82**	**14**	**14**	**64**	**71**	**44**
cis-1,2-Dichloroethene	70	6.3	3.9	7.6	7.1	5.7	1.7	1.4	4.7	8.0	4.6
1,1,1-Trichloroethane	200	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethene	7	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethane	70	-	-	-	-	-	-	-	-	-	-
Chlorobenzene	100	-	-	-	-	-	-	-	-	-	-
Chloroform	5	-	-	-	-	-	-	-	-	-	-
Bromodichloromethane	3	-	-	-	-	-	-	-	-	-	-
Didbromochloromethane	2	-	-	-	-	-	-	-	-	-	-
Metals (mg/L)											
Sodium	NS	27			27	23	12		20	23	20

Notes:
- = Analytical result below the method detection limit, (ND).
Blank cells indicate a sample was not analyzed for that compound.
NM = Sample not analyzed due to presence of permanganate.
NM-O = Obstruction in well, no sample collected.
Bold and shaded cells indicate exceedance of MCP standard.
DUP = Field duplicate.
µg/L = Micrograms per liter, (parts per billion [ppb]).
mg/L = Milligrams per liter, (parts per million [ppm]).
NS = No MCP Standard.

Table 6
Summary of Groundwater Analytical Results
Former Raytheon Facility
Wayland, Massachusetts

Sample I.D.	MCP Std	MW-47D	MW-47D	MW-47D	MW-47D	MW-47D	MW-47D	MW-47D	MW-47D	MW-47D	MW-47D
Date Sampled	Method 1	28-Apr-04	23-Jul-04	9-Dec-04	11-Apr-05	10-Oct-05	10-Oct-05	5-Apr-06	27-Sep-06	25-Apr-07	4-Oct-07
Comments	GW 1						DUP				
Volatile Organic Compounds (VOCs) (µg/L)											
Tetrachloroethene	5	0.62	1.5	1.3	1.1	1.1	1.2	2.2	1.6	1.0	0.58
Trichloroethene	5	**18**	**24**	**16**	**23**	**30**	**30**	**56**	**9.8**	**14**	**9.3**
cis-1,2-Dichloroethene	70	1.3	3.3	2.5	3.7	5.4	5.3	5.2	1.1	2.0	1.0
1,1,1-Trichloroethane	200	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethene	7	0.52	0.82	0.54	0.75	1.4	1.3	0.99	-	-	-
1,1-Dichloroethane	70	-	-	-	-	-	-	-	-	-	-
Chlorobenzene	100	-	-	-	-	-	-	-	-	-	-
Chloroform	5	-	-	-	-	-	-	-	-	-	-
Bromodichloromethane	3	-	-	-	-	-	-	-	-	-	-
Didbromochloromethane	2	-	-	-	-	-	-	-	-	-	-
Metals (mg/L)											
Sodium	NS	25			68	52	52	79	99	120	100

Notes:
- = Analytical result below the method detection limit, (ND).
Blank cells indicate a sample was not analyzed for that compound.
NM = Sample not analyzed due to presence of permanganate.
NM-O = Obstruction in well, no sample collected.
Bold and shaded cells indicate exceedance of MCP standard.
DUP = Field duplicate.
µg/L = Micrograms per liter, (parts per billion [ppb]).
mg/L = Milligrams per liter, (parts per million [ppm]).
NS = No MCP Standard.

Table 6
Summary of Groundwater Analytical Results
Former Raytheon Facility
Wayland, Massachusetts

Sample I.D. Date Sampled Comments	**MCP Std** **Method 1** **GW 1**	**MW-101** **28-Apr-04**	**MW-101** **9-Dec-04**	**MW-101** **11-Apr-05**	**MW-101** **12-Oct-05**	**MW-101** **3-Apr-06**	**MW-101** **25-Sep-06**	**MW-101** **26-Apr-07**	**MW-101** **1-Oct-07**
Volatile Organic Compounds (VOCs) (µg/L)			NM	NM	NM				
Tetrachloroethene	5	-				-	-	-	-
Trichloroethene	5	**9.9**				-	1.4	2.7	1.4
cis-1,2-Dichloroethene	70	-				-	-	-	-
1,1,1-Trichloroethane	200	2.3				-	-	1.8	-
1,1-Dichloroethene	7	-				-	-	-	-
1,1-Dichloroethane	70	-				-	-	-	-
Chlorobenzene	100	-				-	-	-	-
Chloroform	5	-				-	-	-	-
Bromodichloromethane	3	-				-	-	-	-
Didbromochloromethane	2	-				-	-	-	-
Metals (mg/L)									
Sodium	NS	98					160	NM	27

Notes:
- = Analytical result below the method detection limit, (ND).
Blank cells indicate a sample was not analyzed for that compound.
NM = Sample not analyzed due to presence of permanganate.
NM-O = Obstruction in well, no sample collected.
Bold and shaded cells indicate exceedance of MCP standard.
DUP = Field duplicate.
µg/L = Micrograms per liter, (parts per billion [ppb]).
mg/L = Milligrams per liter, (parts per million [ppm]).
NS = No MCP Standard.

Table 6
Summary of Groundwater Analytical Results
Former Raytheon Facility
Wayland, Massachusetts

Sample I.D.	MCP Std	MW-102	MW-102	MW-102	MW-102	MW-102	MW-102	MW-102	MW-102	MW-102
Date Sampled	Method 1	27-Apr-04	27-Apr-04	9-Dec-04	11-Apr-05	12-Oct-05	4-Apr-06	25-Sep-06	26-Apr-07	3-Oct-07
Comments	GW 1		DUP							
Volatile Organic Compounds (VOCs) (µg/L)										
Tetrachloroethene	5	-	-	-	-	-	-	-	-	-
Trichloroethene	5	**240**	**270**	**230**	**240**	**590**	**450**	**79**	**9.5**	2.5
cis-1,2-Dichloroethene	70	6.2	6.6	3.4	3.6	13	6.6	1.2	-	-
1,1,1-Trichloroethane	200	-	-	-	-	-	-	-	-	-
1,1-Dichloroethene	7	-	-	-	-	**7.3**	-	-	-	-
1,1-Dichloroethane	70	-	-	-	-	-	-	1.8	1.9	1.5
Chlorobenzene	100	-	-	-	-	-	-	-	-	-
Chloroform	5	-	-	-	-	-	-	-	-	1.7
Bromodichloromethane	3	-	-	-	-	-	-	-	-	-
Didbromochloromethane	2	-	-	-	-	-	-	-	-	-
Metals (mg/L)										
Sodium	NS	66	66			92	90	130	NM	NM

Notes:
- = Analytical result below the method detection limit, (ND).
Blank cells indicate a sample was not analyzed for that compound.
NM = Sample not analyzed due to presence of permanganate.
NM-O = Obstruction in well, no sample collected.
Bold and shaded cells indicate exceedance of MCP standard.
DUP = Field duplicate.
µg/L = Micrograms per liter, (parts per billion [ppb]).
mg/L = Milligrams per liter, (parts per million [ppm]).
NS = No MCP Standard.

Table 6
Summary of Groundwater Analytical Results
Former Raytheon Facility
Wayland, Massachusetts

Sample I.D. Date Sampled Comments	**MCP Std** **Method 1** **GW 1**	**MW-103** **27-Apr-04**	**MW-103** **9-Dec-04**	**MW-103** **13-Apr-05**	**MW-103** **11-Oct-05**	**MW-103** **4-Apr-06**	**MW-103** **25-Sep-06**	**MW-103** **26-Apr-07**	**MW-103** **3-Oct-07**
Volatile Organic Compounds (VOCs) (µg/L)									
Tetrachloroethene	5	0.56	0.50	-	-	-	-	-	-
Trichloroethene	5	2.2	2.0	1.0	1.4	1.2	1.3	0.79	0.81
cis-1,2-Dichloroethene	70	-	-	-	-	-	-	-	-
1,1,1-Trichloroethane	200	-	-	-	-	-	-	-	-
1,1-Dichloroethene	7	-	-	-	-	-	-	-	-
1,1-Dichloroethane	70	-	-	-	-	-	-	-	-
Chlorobenzene	100	-	-	-	-	-	-	-	-
Chloroform	5	-	-	-	-	-	-	-	-
Bromodichloromethane	3	-	-	-	-	-	-	-	-
Didbromochloromethane	2	-	-	-	-	-	-	-	-
Metals (mg/L)									
Sodium	NS	180	230	240	220	210	140	100	100

Notes:
- = Analytical result below the method detection limit, (ND).
Blank cells indicate a sample was not analyzed for that compound.
NM = Sample not analyzed due to presence of permanganate.
NM-O = Obstruction in well, no sample collected.
Bold and shaded cells indicate exceedance of MCP standard.
DUP = Field duplicate.
µg/L = Micrograms per liter, (parts per billion [ppb]).
mg/L = Milligrams per liter, (parts per million [ppm]).
NS = No MCP Standard.

Table 6
Summary of Groundwater Analytical Results
Former Raytheon Facility
Wayland, Massachusetts

Sample I.D.	MCP Std	MW-104	MW-104	MW-104	MW-104	MW-104	MW-104	MW-104	MW-104
Date Sampled	Method 1	28-Apr-04	9-Dec-04	13-Apr-05	12-Oct-05	4-Apr-06	28-Sep-06	25-Apr-07	4-Oct-07
Comments	GW 1								
Volatile Organic Compounds (VOCs) (µg/L)									
Tetrachloroethene	5	3.2	-	1.3	-	2.0	2.8	1.6	1.2
Trichloroethene	5	**110**	**-**	**15**	0.61	**23**	**38**	**17**	**16**
cis-1,2-Dichloroethene	70	-	-	-	-	-	-	-	-
1,1,1-Trichloroethane	200	-	-	-	-	-	-	-	-
1,1-Dichloroethene	7	-	-	-	-	-	-	-	-
1,1-Dichloroethane	70	-	-	-	-	-	-	-	-
Chlorobenzene	100	-	-	-	-	-	-	-	-
Chloroform	5	-	-	-	-	-	-	-	-
Bromodichloromethane	3	-	-	-	-	-	-	-	-
Didbromochloromethane	2	-	-	-	-	-	-	-	-
Metals (mg/L)									
Sodium	NS	150					120	56	NM

Notes:
- = Analytical result below the method detection limit, (ND).
Blank cells indicate a sample was not analyzed for that compound.
NM = Sample not analyzed due to presence of permanganate.
NM-O = Obstruction in well, no sample collected.
Bold and shaded cells indicate exceedance of MCP standard.
DUP = Field duplicate.
µg/L = Micrograms per liter, (parts per billion [ppb]).
mg/L = Milligrams per liter, (parts per million [ppm]).
NS = No MCP Standard.

Table 6
Summary of Groundwater Analytical Results
Former Raytheon Facility
Wayland, Massachusetts

Sample I.D.	MCP Std	MW-105	MW-105	MW-105	MW-105	MW-105	MW-105	MW-105	MW-105	MW-105
Date Sampled	Method 1	27-Apr-04	9-Dec-04	13-Apr-05	11-Oct-05	11-Oct-05	4-Apr-06	28-Sep-06	24-Apr-07	3-Oct-07
Comments	GW 1					DUP				
Volatile Organic Compounds (VOCs) (µg/L)			NM							
Tetrachloroethene	5	2.0		-	-	-	1.2	-	1.0	-
Trichloroethene	5	**43**		**-**	**-**	**-**	**15**	0.86	**7.1**	2.4
cis-1,2-Dichloroethene	70	-		-	-	-	-	1.8	1.6	2.7
1,1,1-Trichloroethane	200	-		-	-	-	-	-	-	-
1,1-Dichloroethene	7	-		-	-	-	-	-	-	-
1,1-Dichloroethane	70	-		-	-	-	-	-	-	-
Chlorobenzene	100	-		-	-	-	-	-	-	-
Chloroform	5	-		-	-	-	-	-	0.84	-
Bromodichloromethane	3	-		-	-	-	-	-	-	-
Didbromochloromethane	2	-		-	-	-	-	-	-	-
Metals (mg/L)										
Sodium	NS	300						340	NM	NM

Notes:
- = Analytical result below the method detection limit, (ND).
Blank cells indicate a sample was not analyzed for that compound.
NM = Sample not analyzed due to presence of permanganate.
NM-O = Obstruction in well, no sample collected.
Bold and shaded cells indicate exceedance of MCP standard.
DUP = Field duplicate.
µg/L = Micrograms per liter, (parts per billion [ppb]).
mg/L = Milligrams per liter, (parts per million [ppm]).
NS = No MCP Standard.

Table 6
Summary of Groundwater Analytical Results
Former Raytheon Facility
Wayland, Massachusetts

Sample I.D. Date Sampled Comments	**MCP Std** **Method 1** **GW 1**	**MW-105M** **27-Apr-04**	**MW-105M** **14-Apr-05**	**MW-105M** **11-Oct-05**	**MW-105M** **4-Apr-06**	**MW-105M** **28-Sep-06**	**MW-105M** **24-Apr-07**	**MW-105M** **3-Oct-07**
Volatile Organic Compounds (VOCs) (µg/L)								
Tetrachloroethene	5	0.80	-	-	0.50	-	-	-
Trichloroethene	5	**13**	**-**	0.83	3.4	3.2	2.9	1.5
cis-1,2-Dichloroethene	70	0.70	-	1.5	1.9	2.1	1.3	1.5
1,1,1-Trichloroethane	200	-	-	-	-	-	-	-
1,1-Dichloroethene	7	-	-	-	-	-	-	-
1,1-Dichloroethane	70	-	-	-	-	-	-	-
Chlorobenzene	100	-	-	-	-	-	-	-
Chloroform	5	-	-	-	-	-	1.8	0.90
Bromodichloromethane	3	-	-	-	-	-	0.60	-
Didbromochloromethane	2	-	-	-	-	-	-	-
Metals (mg/L)								
Sodium	NS					300	190	NM

Notes:
- = Analytical result below the method detection limit, (ND).
Blank cells indicate a sample was not analyzed for that compound.
NM = Sample not analyzed due to presence of permanganate.
NM-O = Obstruction in well, no sample collected.
Bold and shaded cells indicate exceedance of MCP standard.
DUP = Field duplicate.
µg/L = Micrograms per liter, (parts per billion [ppb]).
mg/L = Milligrams per liter, (parts per million [ppm]).
NS = No MCP Standard.

Table 6
Summary of Groundwater Analytical Results
Former Raytheon Facility
Wayland, Massachusetts

Sample I.D.	MCP Std	MW-106	MW-106	MW-106	MW-106	MW-106	MW-106	MW-106	MW-106
Date Sampled	Method 1	27-Apr-04	8-Dec-04	13-Apr-05	12-Oct-05	5-Apr-06	27-Sep-06	25-Apr-07	4-Oct-07
Comments	GW 1								
Volatile Organic Compounds (VOCs) (µg/L)									
Tetrachloroethene	5	2.6	-	3.5	-	2.3	1.6	2.0	-
Trichloroethene	5	**40**	**-**	**36**	3.2	**25**	**14**	**20**	3.2
cis-1,2-Dichloroethene	70	-	-	-	1.2	-	-	-	-
1,1,1-Trichloroethane	200	-	-	-	-	-	-	-	-
1,1-Dichloroethene	7	-	-	-	-	-	-	-	-
1,1-Dichloroethane	70	-	-	-	-	-	-	-	-
Chlorobenzene	100	-	-	-	-	-	-	-	-
Chloroform	5	-	-	-	-	-	-	1.5	-
Bromodichloromethane	3	-	-	-	-	-	-	0.58	-
Didbromochloromethane	2	-	-	-	-	-	-	-	-
Metals (mg/L)									
Sodium	NS					130	130	73	NM

Notes:
- = Analytical result below the method detection limit, (ND).
Blank cells indicate a sample was not analyzed for that compound.
NM = Sample not analyzed due to presence of permanganate.
NM-O = Obstruction in well, no sample collected.
Bold and shaded cells indicate exceedance of MCP standard.
DUP = Field duplicate.
µg/L = Micrograms per liter, (parts per billion [ppb]).
mg/L = Milligrams per liter, (parts per million [ppm]).
NS = No MCP Standard.

Table 6
Summary of Groundwater Analytical Results
Former Raytheon Facility
Wayland, Massachusetts

Sample I.D.	MCP Std	MW-106M	MW-106M	MW-106M	MW-106M	MW-106M	MW-106M	MW-106M	MW-106M	MW-106M
Date Sampled	Method 1	27-Apr-04	8-Dec-04	8-Dec-04	13-Apr-05	11-Oct-05	5-Apr-06	27-Sep-06	25-Apr-07	4-Oct-07
Comments	GW 1			DUP						
Volatile Organic Compounds (VOCs) (µg/L)					NM					
Tetrachloroethene	5	0.94	-	-		-	1.1	1.1	1.3	0.59
Trichloroethene	5	**5.7**	**-**	**-**		3.4	**11**	**11**	**11**	**5.0**
cis-1,2-Dichloroethene	70	-	-	-		-	1.4	2.1	0.76	0.80
1,1,1-Trichloroethane	200	-	-	-		-	-	-	-	-
1,1-Dichloroethene	7	-	-	-		-	-	-	-	-
1,1-Dichloroethane	70	-	-	-		-	-	-	-	-
Chlorobenzene	100	-	-	-		-	-	-	-	-
Chloroform	5	-	-	-		-	-	-	1.5	-
Bromodichloromethane	3	-	-	-		-	-	-	0.60	-
Didbromochloromethane	2	-	-	-		-	-	-	-	-
Metals (mg/L)										
Sodium	NS							260	170	190

Notes:
- = Analytical result below the method detection limit, (ND).
Blank cells indicate a sample was not analyzed for that compound.
NM = Sample not analyzed due to presence of permanganate.
NM-O = Obstruction in well, no sample collected.
Bold and shaded cells indicate exceedance of MCP standard.
DUP = Field duplicate.
µg/L = Micrograms per liter, (parts per billion [ppb]).
mg/L = Milligrams per liter, (parts per million [ppm]).
NS = No MCP Standard.

Table 6
Summary of Groundwater Analytical Results
Former Raytheon Facility
Wayland, Massachusetts

Sample I.D.	MCP Std	MW-107	MW-107	MW-107	MW-107	MW-107	MW-107	MW-107	MW-107	MW-107
Date Sampled	Method 1	28-Apr-04	7-Dec-04	12-Apr-05	12-Oct-05	6-Apr-06	27-Sep-06	26-Apr-07	2-Oct-07	2-Oct-07
Comments	GW 1									DUP
Volatile Organic Compounds (VOCs) (µg/L)										
Tetrachloroethene	5	-	-	-	-	-	-	-	-	-
Trichloroethene	5	**73**	**74**	**66**	**47**	**83**	**61**	**71**	**57**	**66**
cis-1,2-Dichloroethene	70	3.4	8.2	11	11	9.8	7.1	6.8	4.6	5.1
1,1,1-Trichloroethane	200	-	-	-	-	-	-	-	-	-
1,1-Dichloroethene	7	-	-	-	-	0.58	-	0.59	-	-
1,1-Dichloroethane	70	-	-	-	-	-	-	-	-	-
Chlorobenzene	100	-	-	-	-	-	-	-	-	-
Chloroform	5	-	-	-	-	-	-	-	-	-
Bromodichloromethane	3	-	-	-	-	-	-	-	-	-
Didbromochloromethane	2	-	-	-	-	-	-	-	-	-
Metals (mg/L)										
Sodium	NS	40		64	65	58	46	NM	NM	NM

Notes:
- = Analytical result below the method detection limit, (ND).
Blank cells indicate a sample was not analyzed for that compound.
NM = Sample not analyzed due to presence of permanganate.
NM-O = Obstruction in well, no sample collected.
Bold and shaded cells indicate exceedance of MCP standard.
DUP = Field duplicate.
µg/L = Micrograms per liter, (parts per billion [ppb]).
mg/L = Milligrams per liter, (parts per million [ppm]).
NS = No MCP Standard.

Table 6
Summary of Groundwater Analytical Results
Former Raytheon Facility
Wayland, Massachusetts

Sample I.D.	MCP Std	MW-109	MW-109	MW-109	MW-109	MW-109	MW-109	MW-109	MW-109	MW-109	MW-109
Date Sampled	Method 1	28-Apr-04	7-Dec-04	12-Apr-05	12-Oct-05	12-Oct-05	4-Apr-06	27-Sep-06	26-Apr-07	26-Apr-07	2-Oct-07
Comments	GW 1					DUP				DUP	
Volatile Organic Compounds (VOCs) (µg/L)											
Tetrachloroethene	5	-	-	-	-	-	-	-	-	-	-
Trichloroethene	5	2.0	**41**	**34**	**37**	**34**	**33**	**28**	**16**	**17**	**13**
cis-1,2-Dichloroethene	70	-	4.8	4.3	5.9	5.4	4.7	5.0	3.1	3.2	2.5
1,1,1-Trichloroethane	200	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethene	7	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethane	70	-	-	-	-	-	-	-	-	-	-
Chlorobenzene	100	-	-	-	-	-	-	-	-	-	-
Chloroform	5	-	-	-	-	-	-	-	-	-	-
Bromodichloromethane	3	-	-	-	-	-	-	-	-	-	-
Didbromochloromethane	2	-	-	-	-	-	-	-	-	-	-
Metals (mg/L)											
Sodium	NS	-	15	21	16	16	18	16	15		15

Notes:
- = Analytical result below the method detection limit, (ND).
Blank cells indicate a sample was not analyzed for that compound.
NM = Sample not analyzed due to presence of permanganate.
NM-O = Obstruction in well, no sample collected.
Bold and shaded cells indicate exceedance of MCP standard.
DUP = Field duplicate.
µg/L = Micrograms per liter, (parts per billion [ppb]).
mg/L = Milligrams per liter, (parts per million [ppm]).
NS = No MCP Standard.

Table 6
Summary of Groundwater Analytical Results
Former Raytheon Facility
Wayland, Massachusetts

Sample I.D.	MCP Std	MW-111	MW-111	MW-111	MW-111	MW-111	MW-111	MW-111	MW-111
Date Sampled	Method 1	28-Apr-04	7-Dec-04	12-Apr-05	11-Oct-05	4-Apr-06	27-Sep-06	26-Apr-07	2-Oct-07
Comments	GW 1								
Volatile Organic Compounds (VOCs) (µg/L)									
Tetrachloroethene	5	-	-	-	-	-	-	-	0.77
Trichloroethene	5	**26**	**18**	**860**	**15**	**100**	**40**	**240**	**27**
cis-1,2-Dichloroethene	70	0.87	-	4.9	0.68	0.68	-	1.6	7.1
1,1,1-Trichloroethane	200	5.2	4.6	**280**	1.7	25	8.4	77	-
1,1-Dichloroethene	7	-	-	**32**	-	0.94	-	2.6	-
1,1-Dichloroethane	70	-	-	3.3	-	1.3	0.80	1.4	-
Chlorobenzene	100	-	-	-	-	-	-	-	-
Chloroform	5	-	-	-	-	-	-	-	-
Bromodichloromethane	3	-	-	-	-	-	-	-	-
Didbromochloromethane	2	-	-	-	-	-	-	-	-
Metals (mg/L)									
Sodium	NS	32	38	53	21	65	46	53	27

Notes:
- = Analytical result below the method detection limit, (ND).
Blank cells indicate a sample was not analyzed for that compound.
NM = Sample not analyzed due to presence of permanganate.
NM-O = Obstruction in well, no sample collected.
Bold and shaded cells indicate exceedance of MCP standard.
DUP = Field duplicate.
µg/L = Micrograms per liter, (parts per billion [ppb]).
mg/L = Milligrams per liter, (parts per million [ppm]).
NS = No MCP Standard.

Table 6
Summary of Groundwater Analytical Results
Former Raytheon Facility
Wayland, Massachusetts

Sample I.D.	MCP Std	MW-113	MW-113	MW-113	MW-113	MW-113	MW-113	MW-113	MW-113	MW-113
Date Sampled	Method 1	29-Apr-04	7-Dec-04	12-Apr-05	11-Oct-05	3-Apr-06	27-Sep-06	26-Apr-07	2-Oct-07	2-Oct-07
Comments	GW 1									DUP
Volatile Organic Compounds (VOCs) (µg/L)										
Tetrachloroethene	5	-	-	-	-	-	-	-	-	-
Trichloroethene	5	3.2	**12**	**6.4**	**35**	**120**	**41**	**21**	**14**	**10**
cis-1,2-Dichloroethene	70	-	0.98	-	1.4	0.81	1.0	1.2	1.2	1.2
1,1,1-Trichloroethane	200	-	0.51	2.3	2.5	32	6.1	2.6	-	-
1,1-Dichloroethene	7	-	-	-	0.91	1.5	-	-	-	-
1,1-Dichloroethane	70	-	-	-	2.6	0.76	0.79	-	-	-
Chlorobenzene	100	-	-	-	-	-	-	-	-	-
Chloroform	5	-	-	-	-	-	-	-	-	-
Bromodichloromethane	3	-	-	-	-	-	-	-	-	-
Didbromochloromethane	2	-	-	-	-	-	-	-	-	-
Metals (mg/L)										
Sodium	NS	69	39	100	22	78	34	38	29	30

Notes:
- = Analytical result below the method detection limit, (ND).
Blank cells indicate a sample was not analyzed for that compound.
NM = Sample not analyzed due to presence of permanganate.
NM-O = Obstruction in well, no sample collected.
Bold and shaded cells indicate exceedance of MCP standard.
DUP = Field duplicate.
µg/L = Micrograms per liter, (parts per billion [ppb]).
mg/L = Milligrams per liter, (parts per million [ppm]).
NS = No MCP Standard.

Table 6
Summary of Groundwater Analytical Results
Former Raytheon Facility
Wayland, Massachusetts

Sample I.D.	MCP Std	MW-115	MW-115	MW-115	MW-115	MW-115	MW-115	MW-115	MW-115
Date Sampled	Method 1	29-Apr-04	8-Dec-04	12-Apr-05	12-Oct-05	4-Apr-06	27-Sep-06	26-Apr-07	2-Oct-07
Comments	GW 1								
Volatile Organic Compounds (VOCs) (µg/L)									
Tetrachloroethene	5	-	-	-	-	-	-	-	-
Trichloroethene	5	**17**	**14**	**270**	**34**	**220**	**120**	**230**	**21**
cis-1,2-Dichloroethene	70	1.4	0.93	1.3	0.95	1.2	-	5.9	1.0
1,1,1-Trichloroethane	200	-	16	190	7.4	81	31	72	3.4
1,1-Dichloroethene	7	-	-	**7.2**	-	2.6	1.2	2.6	-
1,1-Dichloroethane	70	-	-	2.5	-	1.6	-	-	-
Chlorobenzene	100	-	-	-	-	-	-	-	-
Chloroform	5	-	-	-	-	-	-	-	-
Bromodichloromethane	3	-	-	-	-	-	-	-	-
Didbromochloromethane	2	-	-	-	-	-	-	-	-
Metals (mg/L)									
Sodium	NS	28	39		51	77	58	59	56

Notes:
- = Analytical result below the method detection limit, (ND).
Blank cells indicate a sample was not analyzed for that compound.
NM = Sample not analyzed due to presence of permanganate.
NM-O = Obstruction in well, no sample collected.
Bold and shaded cells indicate exceedance of MCP standard.
DUP = Field duplicate.
µg/L = Micrograms per liter, (parts per billion [ppb]).
mg/L = Milligrams per liter, (parts per million [ppm]).
NS = No MCP Standard.

Table 6
Summary of Groundwater Analytical Results
Former Raytheon Facility
Wayland, Massachusetts

Sample I.D.	MCP Std	MW-117	MW-117	MW-117	MW-117	MW-117	MW-117
Date Sampled	Method 1	29-Apr-04	9-Dec-04	14-Apr-05	14-Apr-05	28-Sep-06	26-Apr-07
Comments	GW 1				DUP		
Volatile Organic Compounds (VOCs) (µg/L)							
Tetrachloroethene	5	-	1.0	1.1	1.1	1.1	0.87
Trichloroethene	5	3.4	**11**	**10**	**10**	**9.6**	**6.1**
cis-1,2-Dichloroethene	70	-	1.0	0.74	0.85	0.65	-
1,1,1-Trichloroethane	200	-	-	-	-	-	-
1,1-Dichloroethene	7	-	-	-	-	-	-
1,1-Dichloroethane	70	-	-	-	-	-	-
Chlorobenzene	100	-	-	-	-	-	-
Chloroform	5	4.2	2.8	2.6	2.6	-	0.92
Bromodichloromethane	3	-	-	-	-	-	-
Didbromochloromethane	2	-	-	-	-	-	-
Metals (mg/L)							
Sodium	NS	72	93	94	94	98	89

Notes:
- = Analytical result below the method detection limit, (ND).
Blank cells indicate a sample was not analyzed for that compound.
NM = Sample not analyzed due to presence of permanganate.
NM-O = Obstruction in well, no sample collected.
Bold and shaded cells indicate exceedance of MCP standard.
DUP = Field duplicate.
µg/L = Micrograms per liter, (parts per billion [ppb]).
mg/L = Milligrams per liter, (parts per million [ppm]).
NS = No MCP Standard.

Table 6
Summary of Groundwater Analytical Results
Former Raytheon Facility
Wayland, Massachusetts

Sample I.D.	MCP Std	MW-118	MW-118	MW-118	MW-118	MW-118	MW-118	MW-118	MW-118	MW-118	MW-118
Date Sampled	Method 1	29-Apr-04	7-Dec-04	14-Apr-05	13-Oct-05	13-Oct-05	3-Apr-06	28-Sep-06	28-Sep-06	26-Apr-07	3-Oct-07
Comments	GW 1					DUP			DUP		
Volatile Organic Compounds (VOCs) (µg/L)											
Tetrachloroethene	5	1.5	-	-	-	-	1.0	0.81	1.1	-	-
Trichloroethene	5	**150**	**120**	**80**	**55**	**53**	**65**	**51**	**62**	**5.0**	**31**
cis-1,2-Dichloroethene	70	1.7	-	-		0.61	0.50	-	0.56	-	-
1,1,1-Trichloroethane	200	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethene	7	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethane	70	-	-	-	-	-	-	-	-	-	-
Chlorobenzene	100	-	-	-	-	-	-	-	-	-	-
Chloroform	5	-	-	-	-	-	-	-	-	-	-
Bromodichloromethane	3	-	-	-	-	-	-	-	-	-	-
Didbromochloromethane	2	-	-	-	-	-	-	-	-	-	-
Metals (mg/L)											
Sodium	NS	99	120					120	120	NM	NM

Notes:
- = Analytical result below the method detection limit, (ND).
Blank cells indicate a sample was not analyzed for that compound.
NM = Sample not analyzed due to presence of permanganate.
NM-O = Obstruction in well, no sample collected.
Bold and shaded cells indicate exceedance of MCP standard.
DUP = Field duplicate.
µg/L = Micrograms per liter, (parts per billion [ppb]).
mg/L = Milligrams per liter, (parts per million [ppm]).
NS = No MCP Standard.

Table 6
Summary of Groundwater Analytical Results
Former Raytheon Facility
Wayland, Massachusetts

Sample I.D. Date Sampled Comments	**MCP Std** **Method 1** **GW 1**	**MW-201S** **28-Apr-04**	**MW-201S** **20-Jul-04**	**MW-201S** **6-Dec-04**	**MW-201S** **13-Apr-05**	**MW-201S** **12-Oct-05**	**MW-201S** **4-Apr-06**	**MW-201S** **25-Sep-06**	**MW-201S** **23-Apr-07**	**MW-201S** **2-Oct-07**
Volatile Organic Compounds (VOCs) (µg/L)			NM			NM				
Tetrachloroethene	5	3.6		0.88	1.0		0.78	0.69	1.5	-
Trichloroethene	5	**22**		**5.2**	**7.4**		**11**	3.6	**12**	0.62
cis-1,2-Dichloroethene	70	-		-	-		-	-	0.85	-
1,1,1-Trichloroethane	200	-		-	-		-	-	-	-
1,1-Dichloroethene	7	-		-	-		-	-	-	-
1,1-Dichloroethane	70	-		-	-		-	-	-	-
Chlorobenzene	100	-		-	-		-	-	-	-
Chloroform	5	-		-	-		-	-	-	-
Bromodichloromethane	3	-		-	-		-	-	-	-
Didbromochloromethane	2	-		-	-		-	-	-	-
Metals (mg/L)										
Sodium	NS	73						64	NM	NM

Notes:
- = Analytical result below the method detection limit, (ND).
Blank cells indicate a sample was not analyzed for that compound.
NM = Sample not analyzed due to presence of permanganate.
NM-O = Obstruction in well, no sample collected.
Bold and shaded cells indicate exceedance of MCP standard.
DUP = Field duplicate.
µg/L = Micrograms per liter, (parts per billion [ppb]).
mg/L = Milligrams per liter, (parts per million [ppm]).
NS = No MCP Standard.

Table 6
Summary of Groundwater Analytical Results
Former Raytheon Facility
Wayland, Massachusetts

Sample I.D. Date Sampled Comments	**MCP Std** **Method 1** **GW 1**	**MW-201M** **28-Apr-04**	**MW-201M** **20-Jul-04**	**MW-201M** **8-Dec-04**	**MW-201M** **13-Apr-05**	**MW-201M** **10-Oct-05**	**MW-201M** **4-Apr-06**	**MW-201M** **25-Sep-06**	**MW-201M** **23-Apr-07**	**MW-201M** **1-Oct-07**
Volatile Organic Compounds (VOCs) (µg/L)			NM	NM						
Tetrachloroethene	5	-			-	-	-	-	-	-
Trichloroethene	5	**28**			**100**	**150**	**270**	**170**	**84**	**49**
cis-1,2-Dichloroethene	70	2.7			6.9	12	12	11	17	18
1,1,1-Trichloroethane	200	-			-	-	-	-	-	-
1,1-Dichloroethene	7	-			-	3.6	2.8	3.0	2.6	-
1,1-Dichloroethane	70	-			-	-	-	-	1.4	1.5
Chlorobenzene	100	-			-	-	-	-	-	-
Chloroform	5	-			-	-	-	-	-	-
Bromodichloromethane	3	-			-	-	-	-	-	-
Didbromochloromethane	2	-			-	-	-	-	-	-
Metals (mg/L)										
Sodium	NS	22			110	58	56	46	NM	NM

Notes:
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NM = Sample not analyzed due to presence of permanganate.
NM-O = Obstruction in well, no sample collected.
Bold and shaded cells indicate exceedance of MCP standard.
DUP = Field duplicate.
µg/L = Micrograms per liter, (parts per billion [ppb]).
mg/L = Milligrams per liter, (parts per million [ppm]).
NS = No MCP Standard.

Table 6
Summary of Groundwater Analytical Results
Former Raytheon Facility
Wayland, Massachusetts

Sample I.D. Date Sampled Comments	**MCP Std** **Method 1** **GW 1**	**MW-201D** **28-Apr-04**	**MW-201D** **9-Dec-04**	**MW-201D** **13-Apr-05**	**MW-201D** **10-Oct-05**	**MW-201D** **4-Apr-06**	**MW-201D** **25-Sep-06**	**MW-201D** **23-Apr-07**	**MW-201D** **1-Oct-07**
Volatile Organic Compounds (VOCs) (µg/L)									
Tetrachloroethene	5	2.6	-	-	-	-	-	1.3	-
Trichloroethene	5	**64**	**7.1**	2.4	-	1.6	2.5	**26**	3.4
cis-1,2-Dichloroethene	70	8.1	-	-	-	-	-	2.0	-
1,1,1-Trichloroethane	200	-	-	-	-	-	-	-	-
1,1-Dichloroethene	7	-	-	-	-	-	-	-	-
1,1-Dichloroethane	70	-	-	-	-	-	-	-	-
Chlorobenzene	100	-	-	-	-	-	-	-	-
Chloroform	5	-	-	-	-	-	-	-	-
Bromodichloromethane	3	-	-	-	-	-	-	-	-
Didbromochloromethane	2	-	-	-	-	-	-	-	-
Metals (mg/L)									
Sodium	NS	39	47	180	140	110	92	NM	47

Notes:
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NM = Sample not analyzed due to presence of permanganate.
NM-O = Obstruction in well, no sample collected.
Bold and shaded cells indicate exceedance of MCP standard.
DUP = Field duplicate.
µg/L = Micrograms per liter, (parts per billion [ppb]).
mg/L = Milligrams per liter, (parts per million [ppm]).
NS = No MCP Standard.

Table 6
Summary of Groundwater Analytical Results
Former Raytheon Facility
Wayland, Massachusetts

Sample I.D. Date Sampled Comments	**MCP Std** **Method 1** **GW 1**	**MW-202S** **28-Apr-04**	**MW-202S** **23-Jul-04**	**MW-202S** **7-Dec-04**	**MW-202S** **12-Apr-05**	**MW-202S** **11-Oct-05**	**MW-202S** **4-Apr-06**	**MW-202S** **25-Sep-06**	**MW-202S** **25-Apr-07**	**MW-202S** **2-Oct-07**
Volatile Organic Compounds (VOCs) (µg/L)										
Tetrachloroethene	5	1.4	-	-	1.7	-	-	-	1.4	-
Trichloroethene	5	2.7	0.97	-	2.4	-	0.75	-	1.5	-
cis-1,2-Dichloroethene	70	-	-	-	-	-	-	-	-	-
1,1,1-Trichloroethane	200	-	-	-	-	-	-	-	-	-
1,1-Dichloroethene	7	-	-	-	-	-	-	-	-	-
1,1-Dichloroethane	70	-	-	-	-	-	-	-	-	-
Chlorobenzene	100	-	-	-	-	-	-	-	-	-
Chloroform	5	-	-	-	-	-	-	-	-	-
Bromodichloromethane	3	-	-	-	-	-	-	-	-	-
Didbromochloromethane	2	-	-	-	-	-	-	-	-	-
Metals (mg/L)										
Sodium	NS	140			160	56	15	32	79	44

Notes:
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NM-O = Obstruction in well, no sample collected.
Bold and shaded cells indicate exceedance of MCP standard.
DUP = Field duplicate.
µg/L = Micrograms per liter, (parts per billion [ppb]).
mg/L = Milligrams per liter, (parts per million [ppm]).
NS = No MCP Standard.

Table 6
Summary of Groundwater Analytical Results
Former Raytheon Facility
Wayland, Massachusetts

Sample I.D.	MCP Std	MW-202M	MW-202M	MW-202M	MW-202M	MW-202M	MW-202M	MW-202M	MW-202M	MW-202M	MW-202M	MW-202M
Date Sampled	Method 1	28-Apr-04	28-Apr-04	23-Jul-04	10-Dec-04	12-Apr-05	12-Apr-05	11-Oct-05	4-Apr-06	25-Sep-06	25-Apr-07	3-Oct-07
Comments	GW 1		DUP				DUP					
Volatile Organic Compounds (VOCs) (µg/L)												
Tetrachloroethene	5	-	-	-	-	-	-	-	-	-	-	-
Trichloroethene	5	**59**	**63**	**70**	**37**	**61**	**63**	**31**	**100**	**53**	**120**	**50**
cis-1,2-Dichloroethene	70	-	-	-	-	-	-	-	-	-	-	-
1,1,1-Trichloroethane	200	13	13	19	9.8	15	16	15	30	16	45	14
1,1-Dichloroethene	7	1.3	1.4	2.4	-	-	2.1	1.3	1.6	1.7	2.5	-
1,1-Dichloroethane	70	-	-	-	-	-	-	-	-	-	0.93	-
Chlorobenzene	100	-	-	-	-	-	-	-	-	-	-	-
Chloroform	5	-	-	-	-	-	-	-	-	-	-	-
Bromodichloromethane	3	-	-	-	-	-	-	-	-	-	-	-
Didbromochloromethane	2	-	-	-	-	-	-	-	-	-	-	-
Metals (mg/L)												
Sodium	NS	20	20			24	24	23	28	18	18	17

Notes:
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NM = Sample not analyzed due to presence of permanganate.
NM-O = Obstruction in well, no sample collected.
Bold and shaded cells indicate exceedance of MCP standard.
DUP = Field duplicate.
µg/L = Micrograms per liter, (parts per billion [ppb]).
mg/L = Milligrams per liter, (parts per million [ppm]).
NS = No MCP Standard.

Table 6
Summary of Groundwater Analytical Results
Former Raytheon Facility
Wayland, Massachusetts

Sample I.D. Date Sampled Comments	**MCP Std** **Method 1** **GW 1**	**MW-203S** **27-Apr-04**	**MW-203S** **22-Jul-04**	**MW-203S** **8-Dec-04**	**MW-203S** **11-Apr-05**	**MW-203S** **10-Oct-05**	**MW-203S** **4-Apr-06**	**MW-203S** **26-Sep-06**	**MW-203S** **24-Apr-07**	**MW-203S** **2-Oct-07**
Volatile Organic Compounds (VOCs) (µg/L)										
Tetrachloroethene	5	2.4	**21**	**13**	**5.9**	**8.1**	**8.2**	**8.2**	0.90	**5.4**
Trichloroethene	5	0.68	**10**	2.8	2.3	1.2	3.4	1.9	-	-
cis-1,2-Dichloroethene	70	-	-	-	-	-	-	-	-	-
1,1,1-Trichloroethane	200	-	-	-	-	-	-	-	-	-
1,1-Dichloroethene	7	-	-	-	-	-	-	-	-	-
1,1-Dichloroethane	70	-	-	-	-	-	-	-	-	-
Chlorobenzene	100	-	-	-	-	-	-	-	-	-
Chloroform	5	-	-	-	-	-	-	-	-	-
Bromodichloromethane	3	-	-	-	-	-	-	-	-	-
Didbromochloromethane	2	-	-	-	-	-	-	-	-	-
Metals (mg/L)										
Sodium	NS	61			77	120	100	60	42	52

Notes:
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DUP = Field duplicate.
µg/L = Micrograms per liter, (parts per billion [ppb]).
mg/L = Milligrams per liter, (parts per million [ppm]).
NS = No MCP Standard.

Table 6
Summary of Groundwater Analytical Results
Former Raytheon Facility
Wayland, Massachusetts

Sample I.D.	MCP Std	MW-203M	MW-203M	MW-203M	MW-203M	MW-203M	MW-203M	MW-203M	MW-203M	MW-203M	MW-203M
Date Sampled	Method 1	27-Apr-04	27-Apr-04	22-Jul-04	7-Dec-04	11-Apr-05	10-Oct-05	4-Apr-06	27-Sep-06	24-Apr-07	2-Oct-07
Comments	GW 1		DUP								
Volatile Organic Compounds (VOCs) (µg/L)											
Tetrachloroethene	5	0.59	0.60	0.65	2.4	0.54	2.2	0.66	0.87	-	-
Trichloroethene	5	**130**	**150**	**14**	**12**	**93**	3.8	1.8	1.6	0.56	4.6
cis-1,2-Dichloroethene	70	-	-	-	-	-	-	-	-	-	-
1,1,1-Trichloroethane	200	37	36	3.3	2.6	25	1.6	0.60	0.59	25	2.7
1,1-Dichloroethene	7	2.2	2.2	-	-	1.7	-	-	-	-	-
1,1-Dichloroethane	70	0.75	-	-	-	1.0	-	-	-	-	-
Chlorobenzene	100	-	-	-	-	-	-	-	-	-	-
Chloroform	5	-	-	-	-	-	-	-	-	-	-
Bromodichloromethane	3	-	-	-	-	-	-	-	-	-	-
Didbromochloromethane	2	-	-	-	-	-	-	-	-	-	-
Metals (mg/L)											
Sodium	NS	67	69			99	180	160	140	NM	97

Notes:
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µg/L = Micrograms per liter, (parts per billion [ppb]).
mg/L = Milligrams per liter, (parts per million [ppm]).
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Table 6
Summary of Groundwater Analytical Results
Former Raytheon Facility
Wayland, Massachusetts

Sample I.D.	MCP Std	MW-203D	MW-203D	MW-203D	MW-203D	MW-203D	MW-203D	MW-203D	MW-203D	MW-203D	MW-203D
Date Sampled	Method 1	27-Apr-04	22-Jul-04	22-Jul-04	7-Dec-04	11-Apr-05	10-Oct-05	4-Apr-06	27-Sep-06	24-Apr-07	1-Oct-07
Comments	GW 1			DUP							
Volatile Organic Compounds (VOCs) (µg/L)											
Tetrachloroethene	5	2.5	1.8	1.9	2.6	3.1	2.8	2.9	2.3	2.8	2.4
Trichloroethene	5	**92**	**75**	**74**	**80**	**80**	**82**	**76**	**80**	**73**	**78**
cis-1,2-Dichloroethene	70	4.6	5.8	5.7	6.0	6.4	7.0	5.6	6.9	7.0	6.6
1,1,1-Trichloroethane	200	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethene	7	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethane	70	-	-	-	-	-	-	-	-	-	-
Chlorobenzene	100	-	-	-	-	-	-	-	-	-	-
Chloroform	5	-	-	-	-	-	-	-	-	-	-
Bromodichloromethane	3	-	-	-	-	-	-	-	-	-	-
Didbromochloromethane	2	-	-	-	-	-	-	-	-	-	-
Metals (mg/L)											
Sodium	NS	53				58	64	73	67	73	84

Notes:
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Table 6
Summary of Groundwater Analytical Results
Former Raytheon Facility
Wayland, Massachusetts

Sample I.D.	MCP Std	MW-204S	MW-204S	MW-204S	MW-204S	MW-204S	MW-204S	MW-204S	MW-204S	MW-204S	MW-204S
Date Sampled	Method 1	27-Apr-04	21-Jul-04	8-Dec-04	13-Apr-05	13-Apr-05	10-Oct-05	4-Apr-06	25-Sep-06	24-Apr-07	1-Oct-07
Comments	GW 1					DUP					
Volatile Organic Compounds (VOCs) (µg/L)											
Tetrachloroethene	5	**8.2**	**16**	**8.7**	**8.2**	**8.4**	**13**	**9.4**	**11**	**8.8**	**14**
Trichloroethene	5	2.0	3.5	2.4	2.0	1.9	1.6	1.1	0.77	3.3	-
cis-1,2-Dichloroethene	70	-	-	-	-	-	-	-	-	-	-
1,1,1-Trichloroethane	200	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethene	7	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethane	70	-	-	-	-	-	-	-	-	-	-
Chlorobenzene	100	-	-	-	-	-	-	-	-	-	-
Chloroform	5	-	-	1.0	-	-	-	-	-	-	-
Bromodichloromethane	3	-	-	-	-	-	-	-	-	-	-
Didbromochloromethane	2	-	-	-	-	-	-	-	-	-	-
Metals (mg/L)											
Sodium	NS	62					36	41	28	30	24

Notes:
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µg/L = Micrograms per liter, (parts per billion [ppb]).
mg/L = Milligrams per liter, (parts per million [ppm]).
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Table 6
Summary of Groundwater Analytical Results
Former Raytheon Facility
Wayland, Massachusetts

Sample I.D. Date Sampled Comments	**MCP Std** **Method 1** **GW 1**	**MW-204M** **27-Apr-04**	**MW-204M** **21-Jul-04**	**MW-204M** **8-Dec-04**	**MW-204M** **13-Apr-05**	**MW-204M** **10-Oct-05**	**MW-204M** **4-Apr-06**	**MW-204M** **25-Sep-06**	**MW-204M** **24-Apr-07**	**MW-204M** **2-Oct-07**
Volatile Organic Compounds (VOCs) (µg/L)										
Tetrachloroethene	5	-	-	-	-	-	-	-	-	-
Trichloroethene	5	**130**	**170**	**160**	**150**	**76**	**74**	**56**	**77**	**45**
cis-1,2-Dichloroethene	70	-	-	-	-	-	-	-	-	-
1,1,1-Trichloroethane	200	21	49	34	28	27	26	16	22	12
1,1-Dichloroethene	7	3.5	4.0	3.6	5.9	5.3	2.1	2.4	4.0	1.9
1,1-Dichloroethane	70	-	-	-	-	-	2.0	-	0.96	-
Chlorobenzene	100	-	-	-	-	-	-	-	-	-
Chloroform	5	-	-	-	-	-	-	-	-	-
Bromodichloromethane	3	-	-	-	-	-	-	-	-	-
Didbromochloromethane	2	-	-	-	-	-	-	-	-	-
Metals (mg/L)										
Sodium	NS	30			32	26	35	31	40	34

Notes:
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NM = Sample not analyzed due to presence of permanganate.
NM-O = Obstruction in well, no sample collected.
Bold and shaded cells indicate exceedance of MCP standard.
DUP = Field duplicate.
µg/L = Micrograms per liter, (parts per billion [ppb]).
mg/L = Milligrams per liter, (parts per million [ppm]).
NS = No MCP Standard.

Table 6
Summary of Groundwater Analytical Results
Former Raytheon Facility
Wayland, Massachusetts

Sample I.D.	MCP Std	MW-204D	MW-204D	MW-204D	MW-204D	MW-204D	MW-204D	MW-204D	MW-204D	MW-204D	MW-204D	MW-204D	MW-204D
Date Sampled	Method 1	28-Apr-04	21-Jul-04	8-Dec-04	13-Apr-05	10-Oct-05	5-Apr-06	5-Apr-06	25-Sep-06	24-Apr-07	24-Apr-07	2-Oct-07	2-Oct-07
Comments	GW 1							DUP			DUP		DUP
Volatile Organic Compounds (VOCs) (µg/L)													
Tetrachloroethene	5	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethene	5	**30**	**27**	2.5	0.95	**6.2**	**12**	**11**	**9.3**	3.1	3.1	**5.2**	**4.3**
cis-1,2-Dichloroethene	70	1.9	2.7	-	-	6.9	25	25	13	3.2	3.2	16	17
1,1,1-Trichloroethane	200	-	-	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethene	7	-	-	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethane	70	-	-	-	-	-	-	-	-	-	-	-	-
Chlorobenzene	100	-	-	-	-	-	-	-	-	-	-	-	-
Chloroform	5	-	-	-	-	-	-	-	-	-	-	-	-
Bromodichloromethane	3	-	-	-	-	-	-	-	-	-	-	-	-
Didbromochloromethane	2	-	-	-	-	-	-	-	-	-	-	-	-
Metals (mg/L)													
Sodium	NS	30			4.2	66	210	210	63	43		120	120

Notes:
- = Analytical result below the method detection limit, (ND).
Blank cells indicate a sample was not analyzed for that compound.
NM = Sample not analyzed due to presence of permanganate.
NM-O = Obstruction in well, no sample collected.
Bold and shaded cells indicate exceedance of MCP standard.
DUP = Field duplicate.
µg/L = Micrograms per liter, (parts per billion [ppb]).
mg/L = Milligrams per liter, (parts per million [ppm]).
NS = No MCP Standard.

Table 6
Summary of Groundwater Analytical Results
Former Raytheon Facility
Wayland, Massachusetts

Sample I.D.	MCP Std	MW-208S	MW-208S	MW-208S	MW-208S	MW-208S	MW-208S	MW-208S	MW-208S	MW-208S
Date Sampled	**Method 1**	**30-Apr-04**	**22-Jul-04**	**8-Dec-04**	**14-Apr-05**	**12-Oct-05**	**4-Apr-06**	**25-Sep-06**	**25-Apr-07**	**4-Oct-07**
Comments	**GW 1**									
Volatile Organic Compounds (VOCs) (µg/L)										
Tetrachloroethene	5	**7.7**	**6.2**	**8.1**	**5.8**	3.1	**5.0**	**5.4**	**7.0**	3.3
Trichloroethene	5	**5.7**	**6.6**	**6.4**	4.9	3.4	**5.5**	**5.1**	2.1	4.2
cis-1,2-Dichloroethene	70	-	-	-	-	-	-	-	-	-
1,1,1-Trichloroethane	200	-	-	-	-	-	-	-	-	-
1,1-Dichloroethene	7	-	-	-	-	-	-	-	-	-
1,1-Dichloroethane	70	-	-	-	-	-	-	-	-	-
Chlorobenzene	100	-	-	-	-	-	-	-	-	-
Chloroform	5	-	-	-	-	-	-	-	-	-
Bromodichloromethane	3	-	-	-	-	-	-	-	-	-
Didbromochloromethane	2	-	-	-	-	-	-	-	-	-
Metals (mg/L)										
Sodium	NS	81			93	94	78	49	35	46

Notes:
- = Analytical result below the method detection limit, (ND).
Blank cells indicate a sample was not analyzed for that compound.
NM = Sample not analyzed due to presence of permanganate.
NM-O = Obstruction in well, no sample collected.
Bold and shaded cells indicate exceedance of MCP standard.
DUP = Field duplicate.
µg/L = Micrograms per liter, (parts per billion [ppb]).
mg/L = Milligrams per liter, (parts per million [ppm]).
NS = No MCP Standard.

Table 6
Summary of Groundwater Analytical Results
Former Raytheon Facility
Wayland, Massachusetts

Sample I.D.	MCP Std	MW-208M	MW-208M	MW-208M	MW-208M	MW-208M	MW-208M	MW-208M	MW-208M	MW-208M	MW-208M	MW-208M	MW-208M
Date Sampled	Method 1	30-Apr-04	30-Apr-04	23-Jul-04	23-Jul-04	8-Dec-04	14-Apr-05	14-Apr-05	12-Oct-05	4-Apr-06	25-Sep-06	25-Apr-07	3-Oct-07
Comments	GW 1		DUP		DUP			DUP					
Volatile Organic Compounds (VOCs) (µg/L)													
Tetrachloroethene	5	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethene	5	**6.9**	**7.1**	**7.4**	**6.5**	**7.5**	**10**	**9.1**	**8.0**	**6.0**	**9.7**	**12**	**8.3**
cis-1,2-Dichloroethene	70	0.62	0.56	0.81	0.77	0.84	0.92	0.73	0.81	0.50	0.93	1.3	1.0
1,1,1-Trichloroethane	200	-	-	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethene	7	0.54	0.53	0.56	0.53	0.62	0.79	0.73	0.67	-	0.67	1.1	0.59
1,1-Dichloroethane	70	1.4	1.5	1.5	1.4	1.6	1.9	1.8	1.6	1.1	1.7	2.5	1.6
Chlorobenzene	100	-	-	-	-	-	-	-	-	-	-	-	-
Chloroform	5	-	-	-	-	-	-	-	-	-	-	-	-
Bromodichloromethane	3	-	-	-	-	-	-	-	-	-	-	-	-
Didbromochloromethane	2	-	-	-	-	-	-	-	-	-	-	-	-
Metals (mg/L)													
Sodium	NS	84					73	71	64	68	56	NM	NM

Notes:
- = Analytical result below the method detection limit, (ND).
Blank cells indicate a sample was not analyzed for that compound.
NM = Sample not analyzed due to presence of permanganate.
NM-O = Obstruction in well, no sample collected.
Bold and shaded cells indicate exceedance of MCP standard.
DUP = Field duplicate.
µg/L = Micrograms per liter, (parts per billion [ppb]).
mg/L = Milligrams per liter, (parts per million [ppm]).
NS = No MCP Standard.

Table 6
Summary of Groundwater Analytical Results
Former Raytheon Facility
Wayland, Massachusetts

Sample I.D.	MCP Std	MW-209	MW-209	MW-209	MW-209	MW-209	MW-209	MW-209	MW-209	MW-209	MW-209	MW-209
Date Sampled	Method 1	27-Apr-04	13-Apr-05	6-Dec-04	13-Apr-05	13-Apr-05	13-Oct-05	13-Oct-05	5-Apr-06	27-Sep-06	26-Apr-07	4-Oct-07
Comments	GW 1					DUP		DUP				
Volatile Organic Compounds (VOCs) (µg/L)			NM									
Tetrachloroethene	5	-		-	-	-	-	-	-	-	-	-
Trichloroethene	5	1.6		1.8	1.7	1.5	0.97	0.97	1.2	2.0	0.84	-
cis-1,2-Dichloroethene	70	-		-	-	-	-	-	-	-	-	-
1,1,1-Trichloroethane	200	-		-	-	-	-	-	-	-	-	-
1,1-Dichloroethene	7	-		-	-	-	-	-	-	-	-	-
1,1-Dichloroethane	70	-		-	-	-	-	-	-	-	-	-
Chlorobenzene	100	-		-	-	-	-	-	-	-	-	-
Chloroform	5	-		-	-	-	-	-	-	-	-	-
Bromodichloromethane	3	-		-	-	-	-	-	-	-	-	-
Didbromochloromethane	2	-		-	-	-	-	-	-	-	-	-
Metals (mg/L)												
Sodium	NS	94		100	53	52			51	60	33	60

Notes:
- = Analytical result below the method detection limit, (ND).
Blank cells indicate a sample was not analyzed for that compound.
NM = Sample not analyzed due to presence of permanganate.
NM-O = Obstruction in well, no sample collected.
Bold and shaded cells indicate exceedance of MCP standard.
DUP = Field duplicate.
µg/L = Micrograms per liter, (parts per billion [ppb]).
mg/L = Milligrams per liter, (parts per million [ppm]).
NS = No MCP Standard.

Table 6
Summary of Groundwater Analytical Results
Former Raytheon Facility
Wayland, Massachusetts

Sample I.D. Date Sampled Comments	**MCP Std** **Method 1** **GW 1**	**MW-210** **28-Apr-04**	**MW-210** **9-Dec-04**	**MW-210** **13-Apr-05**	**MW-210** **4-Apr-06**	**MW-210** **28-Sep-06**	**MW-210** **25-Apr-07**	**MW-210** **26-Apr-07**
Volatile Organic Compounds (VOCs) (µg/L)			NM	NM				
Tetrachloroethene	5	1.3			1.1	1.5	1.5	1.3
Trichloroethene	5	**45**			**10**	**17**	**16**	**11**
cis-1,2-Dichloroethene	70	-			0.85	1.5	1.2	1.2
1,1,1-Trichloroethane	200	-			-	-	-	-
1,1-Dichloroethene	7	-			-	-	-	-
1,1-Dichloroethane	70	-			-	-	-	-
Chlorobenzene	100	-			-	-	-	-
Chloroform	5	-			-	-	-	-
Bromodichloromethane	3	-			-	-	-	-
Didbromochloromethane	2	-			-	-	-	-
Metals (mg/L)								
Sodium	NS					250	220	180

Notes:
- = Analytical result below the method detection limit, (ND).
Blank cells indicate a sample was not analyzed for that compound.
NM = Sample not analyzed due to presence of permanganate.
NM-O = Obstruction in well, no sample collected.
Bold and shaded cells indicate exceedance of MCP standard.
DUP = Field duplicate.
µg/L = Micrograms per liter, (parts per billion [ppb]).
mg/L = Milligrams per liter, (parts per million [ppm]).
NS = No MCP Standard.

Table 6
Summary of Groundwater Analytical Results
Former Raytheon Facility
Wayland, Massachusetts

Sample I.D.	MCP Std	MW-211	MW-211	MW-211	MW-211	MW-211	MW-211	MW-211	MW-211	MW-211	MW-211
Date Sampled	Method 1	28-Apr-04	9-Dec-04	13-Apr-05	12-Oct-05	12-Oct-05	4-Apr-06	4-Apr-06	28-Sep-06	25-Apr-07	3-Oct-07
Comments	GW 1					DUP		DUP			
Volatile Organic Compounds (VOCs) (µg/L)											
Tetrachloroethene	5	-	-	-	-	-	-	-	-	-	-
Trichloroethene	5	1.3	-	-	-	-	-	-	-	0.54	-
cis-1,2-Dichloroethene	70	-	-	0.80	-	-	-	-	-	0.91	0.75
1,1,1-Trichloroethane	200	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethene	7	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethane	70	-	-	-	-	-	-	-	-	-	-
Chlorobenzene	100	-	-	-	-	-	-	-	-	-	-
Chloroform	5	-	-	-	-	-	-	-	-	-	2.0
Bromodichloromethane	3	-	-	-	-	-	-	-	-	-	-
Didbromochloromethane	2	-	-	-	-	-	-	-	-	-	-
Metals (mg/L)											
Sodium	NS	52	15	53	17	18	44	45	32	66	68

Notes:
- = Analytical result below the method detection limit, (ND).
Blank cells indicate a sample was not analyzed for that compound.
NM = Sample not analyzed due to presence of permanganate.
NM-O = Obstruction in well, no sample collected.
Bold and shaded cells indicate exceedance of MCP standard.
DUP = Field duplicate.
µg/L = Micrograms per liter, (parts per billion [ppb]).
mg/L = Milligrams per liter, (parts per million [ppm]).
NS = No MCP Standard.

Table 6
Summary of Groundwater Analytical Results
Former Raytheon Facility
Wayland, Massachusetts

Sample I.D.	**MCP Std**	**MW-212**	**MW-212**	**MW-212**	**MW-212**	**MW-212**	**MW-212**	**MW-212**	**MW-212**
Date Sampled	**Method 1**	**28-Apr-04**	**8-Dec-04**	**13-Apr-05**	**13-Oct-05**	**5-Apr-06**	**28-Sep-06**	**24-Apr-07**	**4-Oct-07**
Comments	**GW 1**								
Volatile Organic Compounds (VOCs) (µg/L)									
Tetrachloroethene	5	-	-	-	-	-	-	-	-
Trichloroethene	5	1.5	0.89	1.4	2.4	1.7	2.6	1.5	1.7
cis-1,2-Dichloroethene	70	-	-	-	-	-	-	-	-
1,1,1-Trichloroethane	200	-	-	-	-	-	-	-	-
1,1-Dichloroethene	7	-	-	-	-	-	-	-	-
1,1-Dichloroethane	70	-	-	-	-	-	-	-	-
Chlorobenzene	100	-	-	-	-	-	-	-	-
Chloroform	5	-	-	-	-	-	-	-	-
Bromodichloromethane	3	-	-	-	-	-	-	-	-
Didbromochloromethane	2	-	-	-	-	-	-	-	-
Metals (mg/L)									
Sodium	NS	120	120			68	49	60	180

Notes:
- = Analytical result below the method detection limit, (ND).
Blank cells indicate a sample was not analyzed for that compound.
NM = Sample not analyzed due to presence of permanganate.
NM-O = Obstruction in well, no sample collected.
Bold and shaded cells indicate exceedance of MCP standard.
DUP = Field duplicate.
µg/L = Micrograms per liter, (parts per billion [ppb]).
mg/L = Milligrams per liter, (parts per million [ppm]).
NS = No MCP Standard.

Table 6
Summary of Groundwater Analytical Results
Former Raytheon Facility
Wayland, Massachusetts

Sample I.D.	MCP Std	MW-212M	MW-212M	MW-212M	MW-212M	MW-212M	MW-212M	MW-212M	MW-212M
Date Sampled	Method 1	28-Apr-04	8-Dec-04	13-Apr-05	12-Oct-05	5-Apr-06	27-Sep-06	24-Apr-07	3-Oct-07
Comments	GW 1								
Volatile Organic Compounds (VOCs) (µg/L)									
Tetrachloroethene	5	-	-	-	0.75	0.51	0.69	0.73	0.62
Trichloroethene	5	-	2.7	2.2	2.0	4.1	**6.3**	3.7	4.6
cis-1,2-Dichloroethene	70	-	-	-	2.2	-	-	3.6	-
1,1,1-Trichloroethane	200	-	-	-	-	-	-	-	-
1,1-Dichloroethene	7	-	-	-	-	-	-	-	-
1,1-Dichloroethane	70	-	-	-	-	-	-	-	-
Chlorobenzene	100	-	-	-	-	-	-	1.4	-
Chloroform	5	-	-	-	-	-	-	-	-
Bromodichloromethane	3	-	-	-	-	-	-	-	-
Didbromochloromethane	2	-	-	-	-	-	-	-	-
Metals (mg/L)									
Sodium	NS		320		340		470	150	150

Notes:
- = Analytical result below the method detection limit, (ND).
Blank cells indicate a sample was not analyzed for that compound.
NM = Sample not analyzed due to presence of permanganate.
NM-O = Obstruction in well, no sample collected.
Bold and shaded cells indicate exceedance of MCP standard.
DUP = Field duplicate.
µg/L = Micrograms per liter, (parts per billion [ppb]).
mg/L = Milligrams per liter, (parts per million [ppm]).
NS = No MCP Standard.

Table 6
Summary of Groundwater Analytical Results
Former Raytheon Facility
Wayland, Massachusetts

Sample I.D.	MCP Std	MW-213	MW-213	MW-213	MW-213	MW-213	MW-213	MW-213	MW-213
Date Sampled	Method 1	27-Apr-04	9-Dec-04	13-Apr-05	11-Oct-05	4-Apr-06	25-Sep-06	26-Apr-07	3-Oct-07
Comments	GW 1								
Volatile Organic Compounds (VOCs) (µg/L)						NM			
Tetrachloroethene	5	1.2	-	0.51	0.73		0.51	0.51	-
Trichloroethene	5	**5.1**	1.7	1.8	3.2		1.7	1.3	1.8
cis-1,2-Dichloroethene	70	-	-	-	-		-	-	-
1,1,1-Trichloroethane	200	-	-	-	-		-	-	-
1,1-Dichloroethene	7	-	-	-	-		-	-	-
1,1-Dichloroethane	70	-	-	-	-		-	-	-
Chlorobenzene	100	-	-	-	-		-	-	-
Chloroform	5	-	-	-	-		-	-	-
Bromodichloromethane	3	-	-	-	-		-	-	-
Didbromochloromethane	2	-	-	-	-		-	-	-
Metals (mg/L)									
Sodium	NS	200					180	140	NM

Notes:
- = Analytical result below the method detection limit, (ND).
Blank cells indicate a sample was not analyzed for that compound.
NM = Sample not analyzed due to presence of permanganate.
NM-O = Obstruction in well, no sample collected.
Bold and shaded cells indicate exceedance of MCP standard.
DUP = Field duplicate.
µg/L = Micrograms per liter, (parts per billion [ppb]).
mg/L = Milligrams per liter, (parts per million [ppm]).
NS = No MCP Standard.

Table 6
Summary of Groundwater Analytical Results
Former Raytheon Facility
Wayland, Massachusetts

Sample I.D.	MCP Std	MW-214	MW-214	MW-214	MW-214	MW-214	MW-214	MW-214	MW-214	MW-214
Date Sampled	Method 1	27-Apr-04	9-Dec-04	9-Dec-04	11-Apr-05	12-Oct-05	4-Apr-06	25-Sep-06	26-Apr-07	3-Oct-07
Comments	GW 1			DUP						
Volatile Organic Compounds (VOCs) (µg/L)						NM				
Tetrachloroethene	5	-	-	-	0.62		-	-	0.50	-
Trichloroethene	5	**110**	**52**	**53**	**57**		**66**	**46**	**53**	**31**
cis-1,2-Dichloroethene	70	5.5	2.6	2.7	3.1		3.1	2.8	3.7	2.2
1,1,1-Trichloroethane	200	-	-	-	-		-	-	-	-
1,1-Dichloroethene	7	4.6	0.85	0.99	2.3		2.5	1.9	2.7	1.4
1,1-Dichloroethane	70	-	-	-	-		-	-	-	-
Chlorobenzene	100	-	-	-	-		-	-	-	-
Chloroform	5	-	-	-	-		-	-	-	-
Bromodichloromethane	3	-	-	-	-		-	-	-	-
Didbromochloromethane	2	-	-	-	-		-	-	-	-
Metals (mg/L)										
Sodium	NS	36	45	45	51			35	41	41

Notes:
- = Analytical result below the method detection limit, (ND).
Blank cells indicate a sample was not analyzed for that compound.
NM = Sample not analyzed due to presence of permanganate.
NM-O = Obstruction in well, no sample collected.
Bold and shaded cells indicate exceedance of MCP standard.
DUP = Field duplicate.
µg/L = Micrograms per liter, (parts per billion [ppb]).
mg/L = Milligrams per liter, (parts per million [ppm]).
NS = No MCP Standard.

Table 6
Summary of Groundwater Analytical Results
Former Raytheon Facility
Wayland, Massachusetts

Sample I.D. Date Sampled Comments	**MCP Std** **Method 1** **GW 1**	**MW-403** **28-Apr-04**	**MW-403** **23-Jul-04**	**MW-403** **9-Dec-04**	**MW-403** **11-Apr-05**	**MW-403** **12-Oct-05**	**MW-403** **4-Apr-06**	**MW-403** **28-Sep-06**	**MW-403** **26-Apr-07**	**MW-403** **3-Oct-07**
Volatile Organic Compounds (VOCs) (µg/L)										
Tetrachloroethene	5	**12**	**7.0**	**9.7**	**12**	**9.4**	**7.4**	**10**	**6.3**	**7.2**
Trichloroethene	5	**230**	**220**	**280**	**320**	**340**	**350**	**340**	**190**	**200**
cis-1,2-Dichloroethene	70	14	7.7	10	12	12	9.1	11	8.4	8.5
1,1,1-Trichloroethane	200	-	-	-	-	-	-	-	-	-
1,1-Dichloroethene	7	2.9	-	-	-	-	-	-	-	-
1,1-Dichloroethane	70	-	-	-	-	-	-	-	-	-
Chlorobenzene	100	-	-	-	-	-	-	-	-	-
Chloroform	5	-	-	-	-	-	-	-	-	-
Bromodichloromethane	3	-	-	-	-	-	-	-	-	-
Didbromochloromethane	2	-	-	-	-	-	-	-	-	-
Metals (mg/L)										
Sodium	NS	190		170	200	170	200	180	NM	NM

Notes:
- = Analytical result below the method detection limit, (ND).
Blank cells indicate a sample was not analyzed for that compound.
NM = Sample not analyzed due to presence of permanganate.
NM-O = Obstruction in well, no sample collected.
Bold and shaded cells indicate exceedance of MCP standard.
DUP = Field duplicate.
µg/L = Micrograms per liter, (parts per billion [ppb]).
mg/L = Milligrams per liter, (parts per million [ppm]).
NS = No MCP Standard.

Table 6
Summary of Groundwater Analytical Results
Former Raytheon Facility
Wayland, Massachusetts

Sample I.D.	**MCP Std**	**MW-404**	**MW-404**	**MW-404**	**MW-404**	**MW-404**	**MW-404**	**MW-404**	**MW-404**	**MW-404**
Date Sampled	**Method 1**	**30-Apr-04**	**30-Apr-04**	**7-Dec-04**	**14-Apr-05**	**14-Oct-05**	**3-Apr-06**	**27-Sep-06**	**26-Apr-07**	**3-Oct-07**
Comments	**GW 1**		**DUP**							
Volatile Organic Compounds (VOCs) (µg/L)				NM	NM	NM	NM			
Tetrachloroethene	5	-	-					-	-	-
Trichloroethene	5	**730**	**680**					**-**	1.6	-
cis-1,2-Dichloroethene	70	10	11					-	-	-
1,1,1-Trichloroethane	200	-	-					-	-	-
1,1-Dichloroethene	7	-	2.6					-	-	-
1,1-Dichloroethane	70	-	-					-	0.80	-
Chlorobenzene	100	-	-					-	-	-
Chloroform	5	-	-					-	1.6	0.98
Bromodichloromethane	3	-	-					-	-	-
Didbromochloromethane	2	-	-					-	-	-
Metals (mg/L)										
Sodium	NS	55						440	NM	NM

Notes:
- = Analytical result below the method detection limit, (ND).
Blank cells indicate a sample was not analyzed for that compound.
NM = Sample not analyzed due to presence of permanganate.
NM-O = Obstruction in well, no sample collected.
Bold and shaded cells indicate exceedance of MCP standard.
DUP = Field duplicate.
µg/L = Micrograms per liter, (parts per billion [ppb]).
mg/L = Milligrams per liter, (parts per million [ppm]).
NS = No MCP Standard.

Table 6
Summary of Groundwater Analytical Results
Former Raytheon Facility
Wayland, Massachusetts

Sample I.D.	**MCP Std**	**MW-405S**	**MW-405S**	**MW-405S**	**MW-405S**	**MW-405S**	**MW-405S**	**MW-405S**	**MW-405S**
Date Sampled	**Method 1**	**29-Apr-04**	**8-Dec-04**	**14-Apr-05**	**14-Oct-05**	**3-Apr-06**	**27-Sep-06**	**26-Apr-07**	**3-Oct-07**
Comments	**GW 1**								
Volatile Organic Compounds (VOCs) (µg/L)			NM	NM	NM	NM			
Tetrachloroethene	5	-					-	-	-
Trichloroethene	5	**260**					-	-	-
cis-1,2-Dichloroethene	70	2.7					-	-	-
1,1,1-Trichloroethane	200	-					-	-	-
1,1-Dichloroethene	7	-					-	-	-
1,1-Dichloroethane	70	-					-	-	-
Chlorobenzene	100	-					-	-	-
Chloroform	5	-					-	-	-
Bromodichloromethane	3	-					-	-	-
Didbromochloromethane	2	-					-	-	-
Metals (mg/L)									
Sodium	NS	61					350	NM	NM

Notes:
- = Analytical result below the method detection limit, (ND).
Blank cells indicate a sample was not analyzed for that compound.
NM = Sample not analyzed due to presence of permanganate.
NM-O = Obstruction in well, no sample collected.
Bold and shaded cells indicate exceedance of MCP standard.
DUP = Field duplicate.
µg/L = Micrograms per liter, (parts per billion [ppb]).
mg/L = Milligrams per liter, (parts per million [ppm]).
NS = No MCP Standard.

Figures

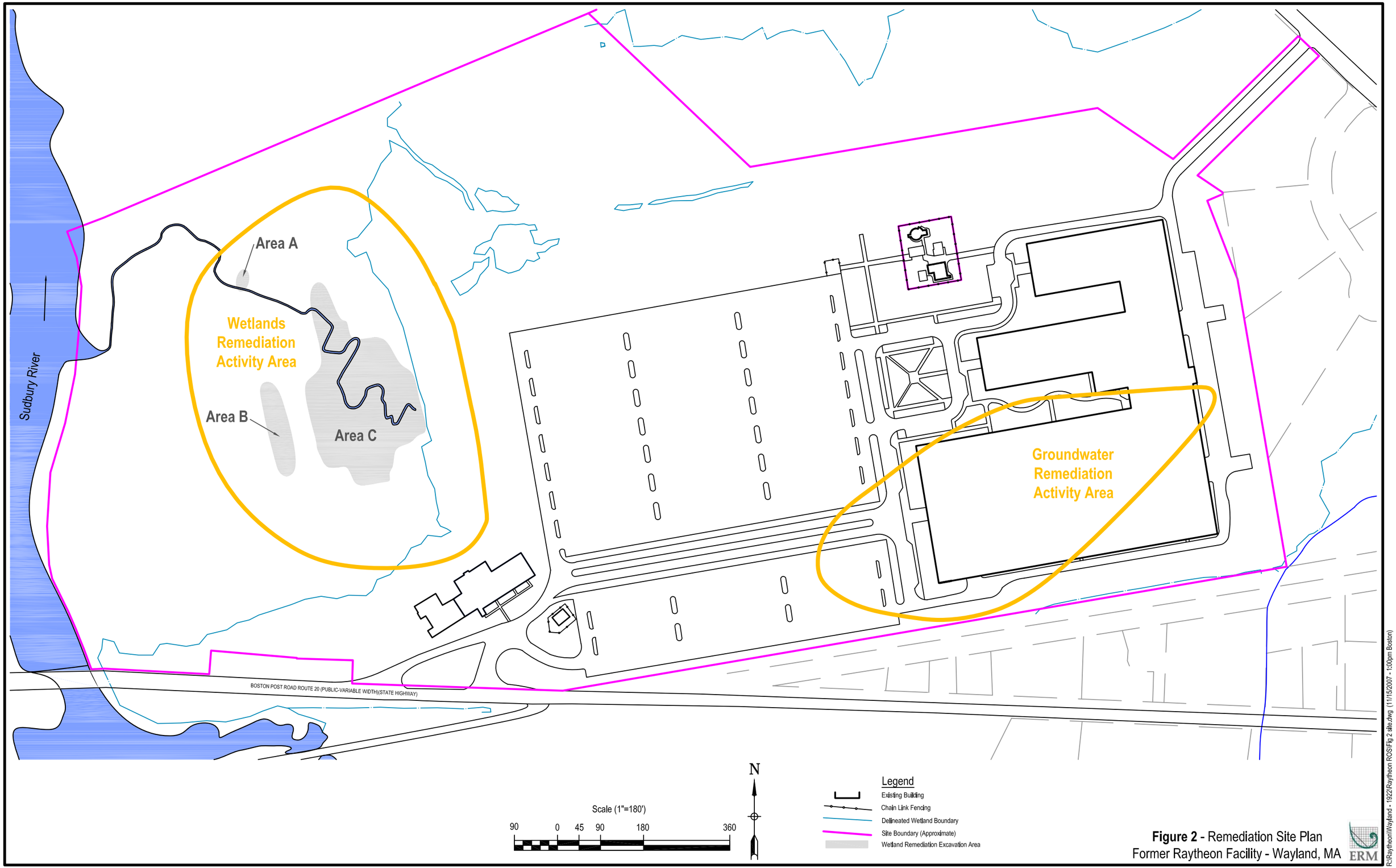


Figure 2 - Remediation Site Plan
Former Raytheon Facility - Wayland, MA

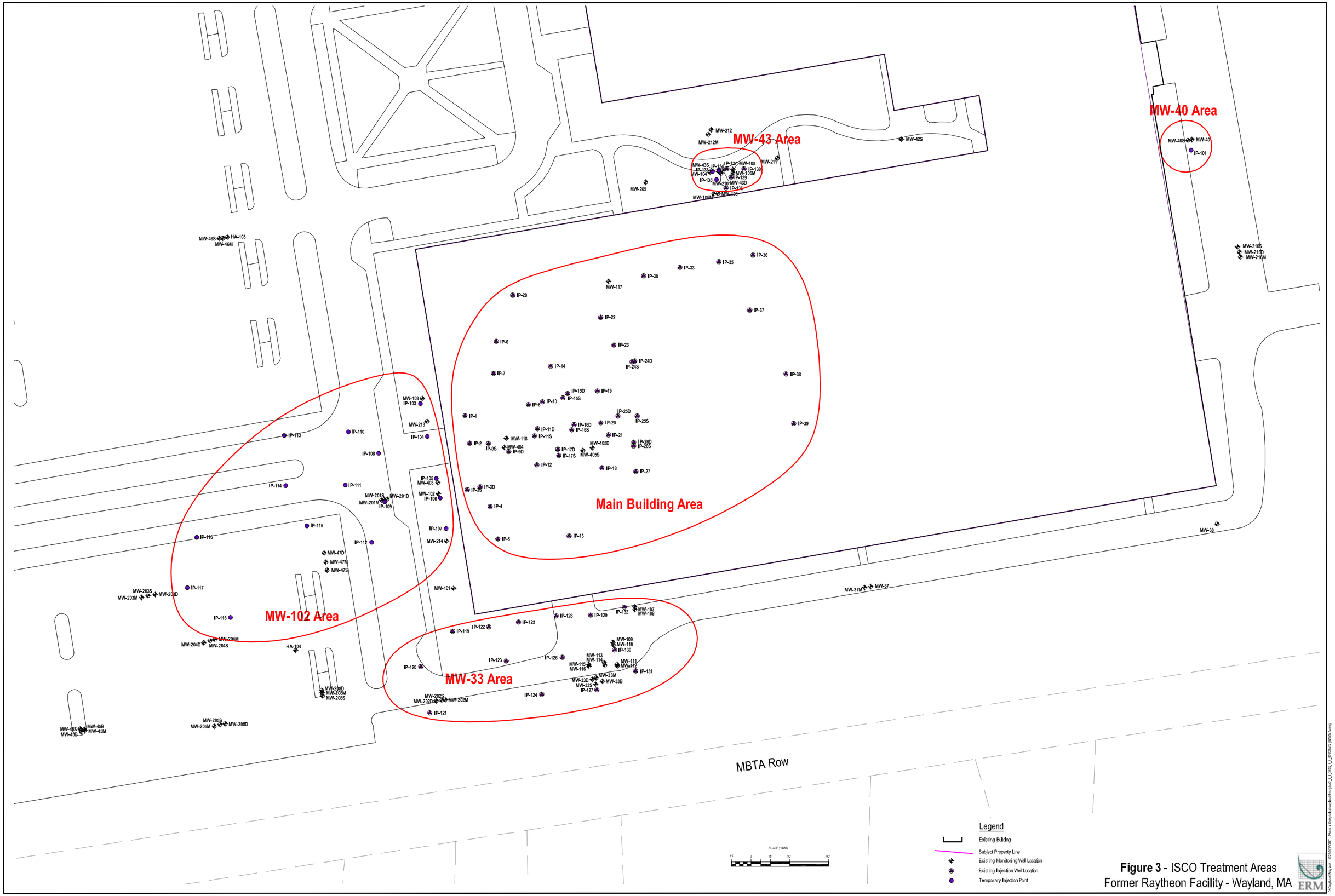


Figure 3 - ISCO Treatment Areas
Former Raytheon Facility - Wayland, MA

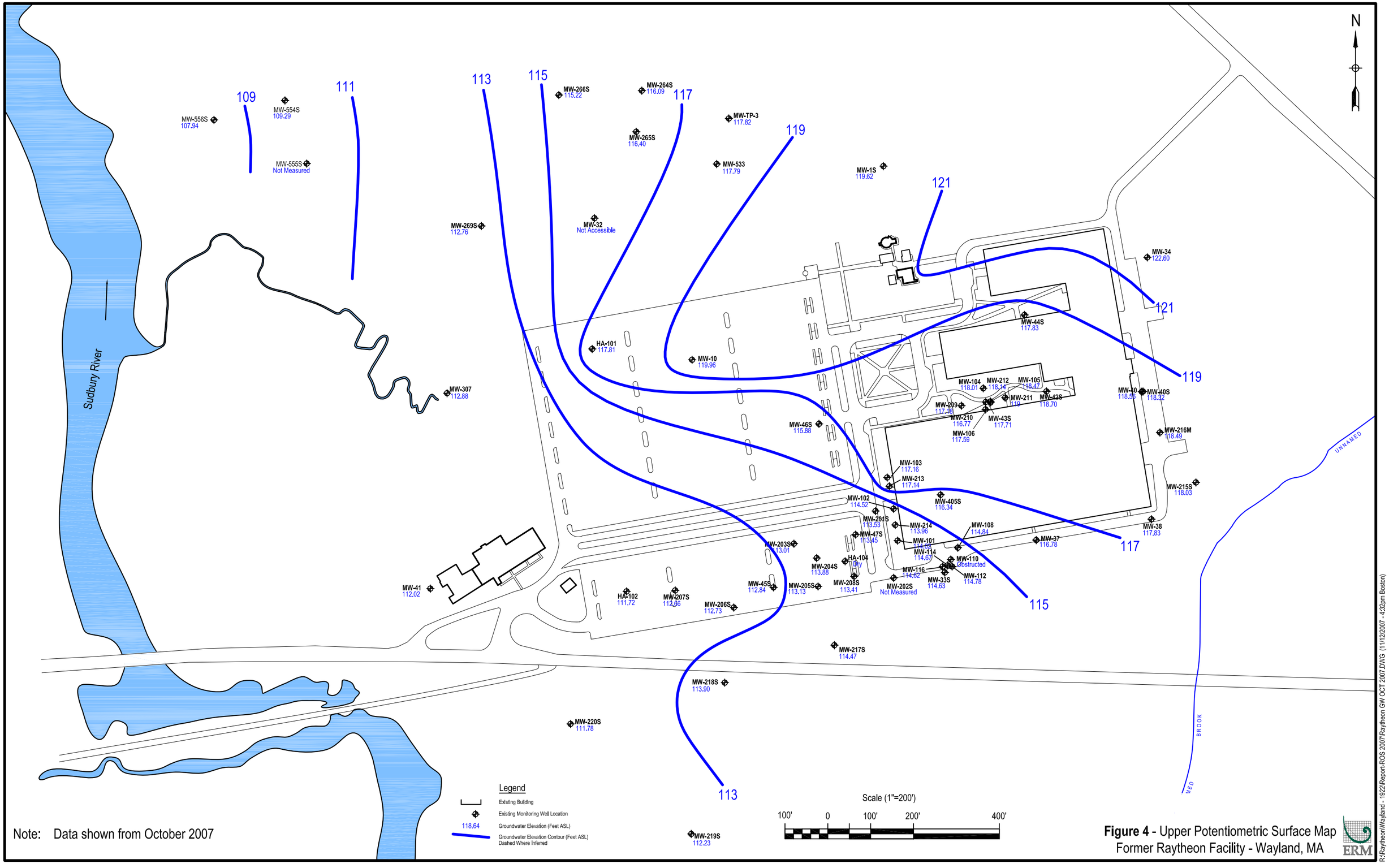
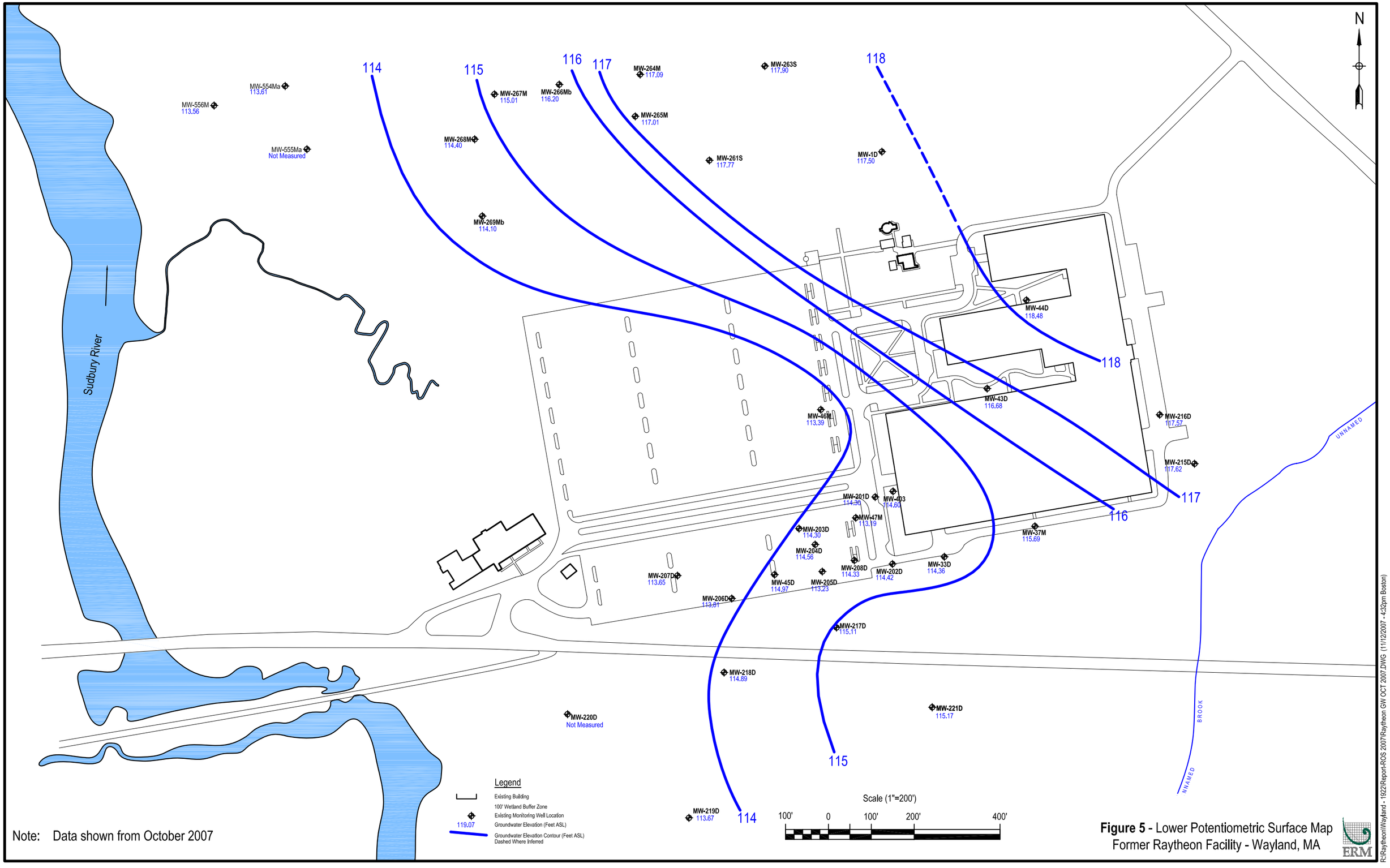


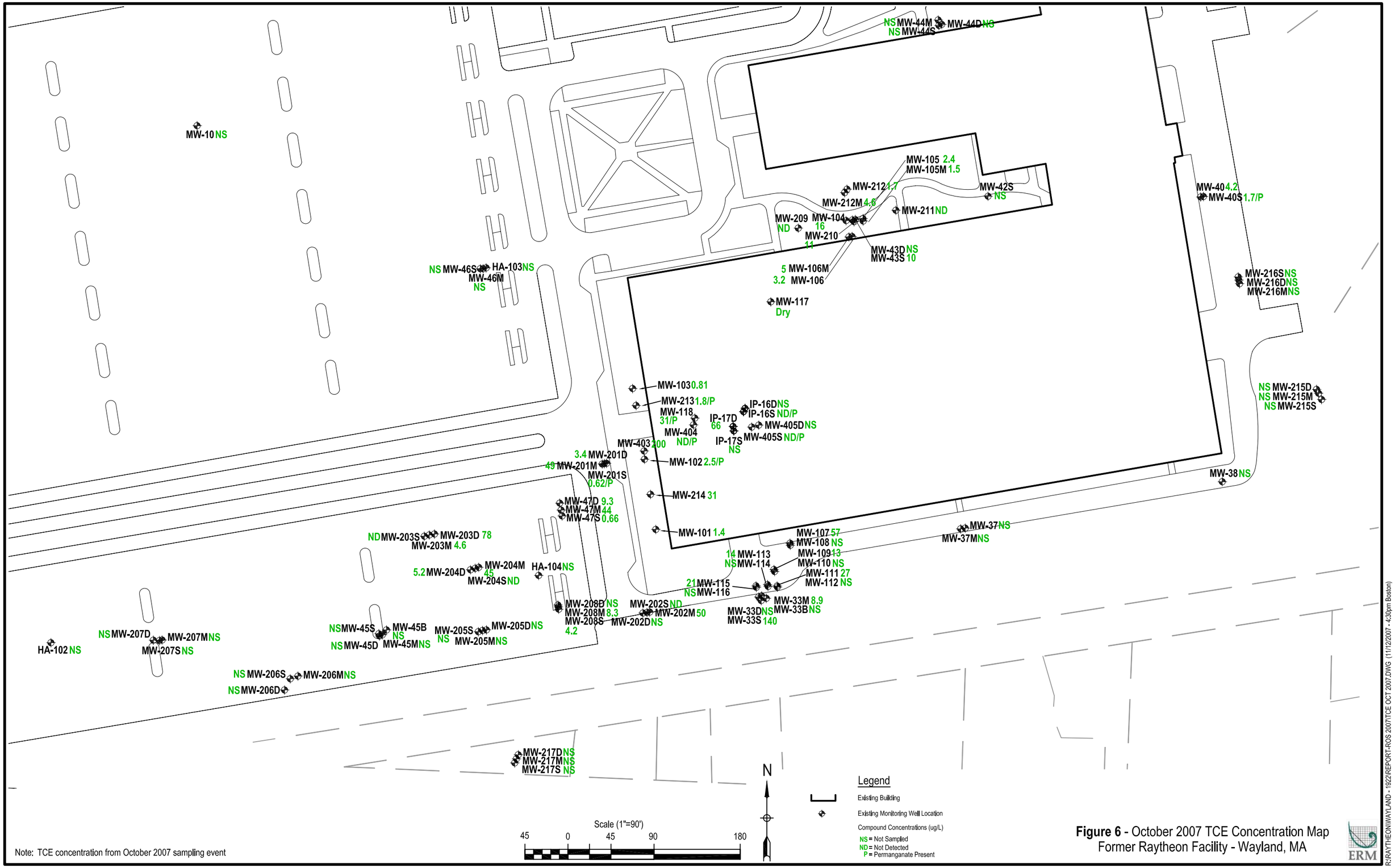
Figure 4 - Upper Potentiometric Surface Map
Former Raytheon Facility - Wayland, MA



Note: Data shown from October 2007

Figure 5 - Lower Potentiometric Surface Map
Former Raytheon Facility - Wayland, MA

R:\Raytheon\Wayland - 1922\Report-RGS 2007\Raytheon GW OCT 2007.DWG (11/12/2007 - 4:32pm Boston)



Note: TCE concentration from October 2007 sampling event

Figure 6 - October 2007 TCE Concentration Map
Former Raytheon Facility - Wayland, MA

Appendix A
BWSC Forms

Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC108

COMPREHENSIVE RESPONSE ACTION TRANSMITTAL FORM & PHASE I COMPLETION STATEMENT

Pursuant to 310 CMR 40.0484 (Subpart D) and 40.0800 (Subpart H)

Release Tracking Number
3 - 13302

A. SITE LOCATION:

1. Site Name: RAYTHEON COMPANY
2. Street Address: 430 BOSTON POST RD
3. City/Town: WAYLAND 4. ZIP Code: 01778-0000
5. UTM Coordinates: a. UTM N: 4692920 b. UTM E: 305006

☑ 6. Check here if a Tier Classification Submittal has been provided to DEP for this disposal site.

☐ a. Tier IA ☑ b. Tier IB ☐ c. Tier IC ☐ d. Tier II

7. If applicable, provide the Permit Number: W045278

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 Response Action Outcome.

☐ b. The requirements of a Class A Response Action Outcome have been met. No additional Operation, Maintenance or Monitoring is necessary to ensure the integrity of the Response Action Outcome. A completed Response Action Outcome Statement and Report (BWSC104) will be submitted to DEP.

☐ c. The requirements of a Class C Response Action Outcome have been met. No additional Operation, Maintenance or Monitoring is necessary to ensure the integrity of the Response Action Outcome. A completed Response Action Outcome Statement and Report (BWSC104) will be submitted to DEP.

☐ d. The requirements of a Class C Response Action Outcome have been met. Further Operation, Maintenance or Monitoring of the remedial action is necessary to ensure that conditions are maintained and that further progress is made toward a Permanent Solution. A completed Response Action Outcome Statement and Report (BWSC104) will be submitted to DEP.

(All sections of this transmittal form must be filled out unless otherwise noted above)

B. THIS FORM IS BEING USED TO (cont.): (check all that apply)

☐ 14. Submit a **Revised Phase IV Completion Statement**, pursuant to 310 CMR 40.0878 and 40.0879.

☐ 15. Submit a **Phase V Status Report**, pursuant to 310 CMR 40.0892.

☑ 16. Submit a **Remedial Monitoring Report**. (This report can only be submitted through eDEP.)

a. Type of Report: (check one) ☐ i. Initial Report ☑ ii. Interim Report ☐ iii. Final Report

b. Frequency of Submittal: (check all that apply)

☐ i. A Remedial Monitoring Report(s) submitted monthly to address an Imminent Hazard.

☐ ii. A Remedial Monitoring Report(s) submitted monthly to address a Condition of Substantial Release Migration.

☑ iii. A Remedial Monitoring Report(s) submitted concurrent with a Status Report.

c. Status of Site: (check one) ☐ i. Phase V ☑ ii. Remedy Operation Status ☐ iii. Class C RAO

d. Number of Remedial Systems and/or Monitoring Programs: 1

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 **Modification of a Remedy Operation Status**, pursuant to 310 CMR 40.0893(5).

☐ 20. Submit a **Termination of a Remedy Operation Status**, pursuant to 310 CMR 40.0893(6).

☐ 21. Submit a **Phase V Completion Statement**, pursuant to 310 CMR 40.0894.

Specify the outcome of Phase V activities: (check one)

☐ a. The requirements of a Class A Response Action Outcome have been met. No additional Operation, Maintenance or Monitoring is necessary to ensure the integrity of the Response Action Outcome. A completed Response Action Outcome Statement (BWSC104) will be submitted to DEP.

☐ b. The requirements of a Class C Response Action Outcome have been met. No additional Operation, Maintenance or Monitoring is necessary to ensure the integrity of the Response Action Outcome. A completed Response Action Outcome Statement and Report (BWSC104) will be submitted to DEP.

☐ c. The requirements of a Class C Response Action Outcome have been met. Further Operation, Maintenance or Monitoring of the remedial action is necessary to ensure that conditions are maintained and/or that further progress is made toward a Permanent Solution. A completed Response Action Outcome Statement and Report (BWSC104) will be submitted to DEP.

☐ 22. Submit a **Revised Phase V Completion Statement**, pursuant to 310 CMR 40.0894.

☐ 23. Submit a **Post-Class C Response Action Outcome Status Report**, pursuant to 310 CMR 40.0898.

(All sections of this transmittal form must be filled out unless otherwise noted above)

Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC108

COMPREHENSIVE RESPONSE ACTION TRANSMITTAL FORM & PHASE I COMPLETION STATEMENT

Release Tracking Number
3 - 13302

Pursuant to 310 CMR 40.0484 (Subpart D) and 40.0800 (Subpart H)

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*** *is being submitted*, the response action(s) that is (are) the subject of this submittal (i) has (have) been developed and implemented in accordance with the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000, (ii) is (are) appropriate and reasonable to accomplish the purposes of such response action(s) as set forth in the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000, and (iii) comply(ies) with the identified provisions of all orders, permits, and approvals identified in this submittal;

> *if Section B indicates that a* ***Phase II Scope of Work*** *or a* ***Phase IV Remedy Implementation Plan*** *is being submitted*, the response action(s) that is (are) the subject of this submittal (i) has (have) been developed in accordance with the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000, (ii) is (are) appropriate and reasonable to accomplish the purposes of such response action(s) as set forth in the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000, and (iii) comply(ies) with the identified provisions of all orders, permits, and approvals identified in this submittal;

> *if Section B indicates that an* ***As-Built Construction Report****,* ***a Remedy Operation Status****,a* ***Phase IV, Phase V or Post-Class C RAO Status Report,*** *a* ***Status Report to Maintain a Remedy Operation Status*** *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) 267-8377
5. Ext.:
6. FAX:
7. Signature: JOHN C DROBINSKI
8. Date: 11/15/2007 (mm/dd/yyyy)
9. LSP Stamp:

Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC108

Release Tracking Number

3 - 13302

COMPREHENSIVE RESPONSE ACTION TRANSMITTAL FORM & PHASE I COMPLETION STATEMENT

Pursuant to 310 CMR 40.0484 (Subpart D) and 40.0800 (Subpart H)

D. PERSON UNDERTAKING RESPONSE ACTIONS:

1. Check all that apply: ☐ a. change in contact name ☐ b. change of address ☐ c. change in the person undertaking response actions

2. Name of Organization: RAYTHEON COMPANY

3. Contact First Name: LOUIS 4. Last Name: BURKHARDT

5. Street: 880 TECHNOLOGY PARK DR MS 2-21 6. Title:

7. City/Town: BILLERICA 8. State: MA 9. ZIP Code: 01821-0000

10. Telephone: (978) 436-8238 11. Ext.: 12. FAX:

E. RELATIONSHIP TO SITE OF PERSON UNDERTAKING RESPONSE ACTIONS:

☑ 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 Modification of a Remedy Operation Status, check here to certify that a statement detailing the compliance history, as per 310 CMR 40.0893(5), for the person making this submittal is attached.

☐ 7. If submitting a Modification of a Remedy Operation Status, check here to certify that written consent of the person who submitted the Remedy Operation Status submittal, as per 310 CMR 40.0893(5), is attached.

☐ 8. Check here if any non-updatable information provided on this form is incorrect, e.g. Site Name. Send corrections to the DEP Regional Office.

☑ 9. Check here to certify that the LSP Opinion containing the material facts, data, and other information is attached.

Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC108

Release Tracking Number
3 - 13302

COMPREHENSIVE RESPONSE ACTION TRANSMITTAL FORM & PHASE I COMPLETION STATEMENT

Pursuant to 310 CMR 40.0484 (Subpart D) and 40.0800 (Subpart H)

G. CERTIFICATION OF PERSON UNDERTAKING RESPONSE ACTIONS:

1. I, **LOUIS 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.

2. By: **LOUIS BURKHARDT** (Signature) 3. Title:

4. For: **RAYTHEON COMPANY** (Name of person or entity recorded in Section D) 5. Date: **11/21/2007** (mm/dd/yyyy)

☐ 6. Check here if the address of the person providing certification is different from address recorded in Section D.

7. Street:

8. City/Town: 9. State: 10. ZIP Code:

11. Telephone: 12. Ext.: 13. FAX:

YOU ARE SUBJECT TO AN ANNUAL COMPLIANCE ASSURANCE FEE OF UP TO $10,000 PER BILLABLE YEAR FOR THIS DISPOSAL SITE. YOU MUST LEGIBLY COMPLETE ALL RELEVANT SECTIONS OF THIS FORM OR DEP MAY RETURN THE DOCUMENT AS INCOMPLETE. IF YOU SUBMIT AN INCOMPLETE FORM, YOU MAY BE PENALIZED FOR MISSING A REQUIRED DEADLINE.

Date Stamp (DEP USE ONLY:)

Received by DEP on

11/21/2007 9:02:12 AM

Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC108A

CRA REMEDIAL MONITORING REPORT

Pursuant to 310 CMR 40.0800 (SUBPART H)

Remedial System or Monitoring Program: 1 of: 1

Release Tracking Number
3 - 13302

A. DESCRIPTION OF ACTIVE REMEDIAL SYSTEM OR ACTIVE REMEDIAL MONITORING PROGRAM:

1. Type of Active Remedial System or Active Remedial Monitoring Program: (check all that apply)

- [ ] a. Active Remedial System: (check all that apply)
  - [ ] i. NAPL Recovery
  - [ ] ii. Soil Vapor Extraction/Bioventing
  - [ ] iii. Vapor-phase Carbon Adsorption
  - [ ] iv. Groundwater Recovery
  - [ ] v. Dual/Multi-phase Extraction
  - [ ] vi. Aqueous-phase Carbon Adsorption
  - [ ] vii. Air Stripping
  - [ ] viii. Sparging/Biosparging
  - [ ] ix. Cat/Thermal Oxidation
  - [ ] x. Other Describe:
- [ ] b. Application of Remedial Additives: (check all that apply)
  - [ ] i. To the Subsurface
  - [ ] ii. To Groundwater (Injection)
  - [ ] iii. To the Surface
- [x] c. Active Remedial Monitoring Program Without the Application of Remedial Additives: (check all that apply; Sections C, D and E are not required; attach supporting information, data, maps and/or sketches needed by checking Section F5)
  - [ ] i. Reactive Wall
  - [ ] ii. Natural Attenuation
  - [x] iii. Other Describe: PERFORMANCE MONITORING

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: 05/01/2007 (mm/dd/yyyy) To: 11/01/2007 (mm/dd/yyyy)

2. Number of monitoring events during the reporting period: (check one)

- [ ] a. System Startup: (if applicable)
  - [ ] i. Days 1, 3, 6, and then weekly thereafter, for the first month.
  - [ ] ii. Other Describe:
- [x] b. Post-system Startup (after first month) or Monitoring Program:
  - [ ] i. Monthly
  - [x] ii. Quarterly
  - [ ] iii. Other Describe:

- [x] 3. Check here to certify that the number of required monitoring events were conducted during the reporting period.

C. EFFLUENT/DISCHARGE REGULATION: (check one to indicate how the effluent/discharge limits were established)

- [ ] 1. NPDES: (check one)
  - [ ] a. Remediation General Permit
  - [ ] b. Individual Permit
  - [ ] c. Emergency Exclusion

  Effective Date of Permit: (mm/dd/yyyy)
- [ ] 2. MCP Performance Standard MCP Citations(s):
- [ ] 3. DEP Approval Letter Date of Letter: (mm/dd/yyyy)
- [x] 4. Other Describe: NO DISCHARGE, NOT APPLICABLE

Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC108A

CRA REMEDIAL MONITORING REPORT

Pursuant to 310 CMR 40.0800 (SUBPART H)

Remedial System or Monitoring Program: 1 of: 1

Release Tracking Number

3 - 13302

D. WASTEWATER TREATMENT PLANT OPERATOR: (check one)

☐ 1. Required due to Remedial Wastewater Treatment Plant in place for more than 30 days.

a. Name: _____ b. Grade: _____

c. License No.: _____ d. License Exp. Date: _____ (mm/dd/yyyy)

☐ 2. Not Required

☑ 3. Not Applicable

E. STATUS OF ACTIVE REMEDIAL SYSTEM OR ACTIVE REMEDIAL MONITORING PROGRAM DURING REPORTING PERIOD: (check all that apply)

☐ 1. The Active Remedial System was functional one or more days during the Reporting Period.

a. Days System was Fully Functional: _____ 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

Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC108A

CRA REMEDIAL MONITORING REPORT

Pursuant to 310 CMR 40.0800 (SUBPART H)

Remedial System or Monitoring Program: 1 of: 1

Release Tracking Number

3 - 13302

E. STATUS OF ACTIVE REMEDIAL SYSTEM OR ACTIVE REMEDIAL MONITORING PROGRAM DURING REPORTING PERIOD: (cont.) (check all that apply)

☐ d. Other additives applied: (total quantity applied at the site for the current reporting period)

Name of Additive	Date	Quantity	Units

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.

Appendix B
Laboratory Analytical Reports

ALPHA WOODS HOLE LABS

ANALYTICAL REPORT

Lab Number:	L0714839
Client:	ERM-New England 399 Boylston Street 6th Floor Boston, MA 02116
ATTN:	Jeremy Picard
Project Name:	RAYTHEON WAYLAND
Project Number:	0061882
Report Date:	10/15/07

Certifications & Approvals: MA (M-MA086), NY NELAC (11148), CT (PH-0574), NH (200305), NJ (MA935), RI (LAO00065), ME (2006012), PA (Registration #68-03671), USDA (Permit #S-72578), US Army Corps of Engineers, Naval FESC.

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: 0061882

Lab Number: L0714839
Report Date: 10/15/07

Alpha Sample ID	Client ID	Sample Location
L0714839-01	MW-208S-20071004-01	WAYLAND, MA

Project Name:	RAYTHEON WAYLAND	**Lab Number:**	L0714839
Project Number:	0061882	**Report Date:**	10/15/07

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, B, C & D is required for "Presumptive Certainty" status		
A	Were all samples received by the laboratory in a condition consistent with those described on their Chain-of-Custody documentation for the data set?	YES
B	Were all QA/QC procedures required for the specified analytical methods(s) included in this report followed, including the requirement to note and discuss in a narrative QC data that did not meet appropriate performance standards or guidelines?	YES
C	Does the analytical data included in this report meet all the requirements for "Presumptive Certainty", as described in section 2.0 of the MADEP document CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	YES
D	VPH and EPH methods only: Was the VPH or EPH method run without significant modifications, as specified in Section 11.3?	N/A

A response to questions E and F is required for "Presumptive Certainty" status		
E	Were all QC performance standards and recommendations for the specified method(s) achieved?	YES
F	Were results for all analyte-list compounds/elements for the specified method(s) reported?	NO

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:** L0714839
Project Number: 0061882 **Report Date:** 10/15/07

Case Narrative

The samples were received in accordance with the chain of custody and no significant deviations were encountered during preparation or analysis unless otherwise noted below.

MCP Related Narratives

Sample Receipt

The samples were Field Filtered for Dissolved Metals only.

Volatile Organics

In reference to question F:

At the client's request, all submitted samples were not analyzed for the full MCP list of compounds specified for the Method.

Metals

In reference to question F:

At the client's request, all submitted samples were not analyzed for the full MCP list of compounds specified for the Method.

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:

Title: Technical Director/Representative Date: 10/15/07

ORGANICS

VOLATILES

Project Name: RAYTHEON WAYLAND **Lab Number:** L0714839

Project Number: 0061882 **Report Date:** 10/15/07

SAMPLE RESULTS

Lab ID:	L0714839-01	Date Collected:	10/04/07 12:10
Client ID:	MW-208S-20071004-01	Date Received:	10/05/07
Sample Location:	WAYLAND, MA	Field Prep:	Field Filtered
Matrix:	Water		
Anaytical Method:	60,8260B		
Analytical Date:	10/14/07 01:37		
Analyst:	RY		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
Methylene chloride	ND		ug/l	5.0	1
1,1-Dichloroethane	ND		ug/l	0.75	1
Chloroform	ND		ug/l	0.75	1
Carbon tetrachloride	ND		ug/l	0.50	1
1,2-Dichloropropane	ND		ug/l	1.8	1
Dibromochloromethane	ND		ug/l	0.50	1
1,1,2-Trichloroethane	ND		ug/l	0.75	1
Tetrachloroethene	3.3		ug/l	0.50	1
Chlorobenzene	ND		ug/l	0.50	1
1,2-Dichloroethane	ND		ug/l	0.50	1
1,1,1-Trichloroethane	ND		ug/l	0.50	1
Bromodichloromethane	ND		ug/l	0.50	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	1
Bromoform	ND		ug/l	2.0	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	1
Chloromethane	ND		ug/l	2.5	1
Vinyl chloride	ND		ug/l	1.0	1
Chloroethane	ND		ug/l	1.0	1
1,1-Dichloroethene	ND		ug/l	0.50	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	1
Trichloroethene	4.2		ug/l	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.5	1
1,3-Dichlorobenzene	ND		ug/l	2.5	1
1,4-Dichlorobenzene	ND		ug/l	2.5	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	1
Dichlorodifluoromethane	ND		ug/l	5.0	1
2,2-Dichloropropane	ND		ug/l	2.5	1
1,2-Dibromoethane	ND		ug/l	2.0	1
1,3-Dichloropropane	ND		ug/l	2.5	1

Project Name: RAYTHEON WAYLAND **Lab Number:** L0714839

Project Number: 0061882 **Report Date:** 10/15/07

SAMPLE RESULTS

Lab ID:	L0714839-01	Date Collected:	10/04/07 12:10
Client ID:	MW-208S-20071004-01	Date Received:	10/05/07
Sample Location:	WAYLAND, MA	Field Prep:	Field Filtered

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	1
o-Chlorotoluene	ND		ug/l	2.5	1
p-Chlorotoluene	ND		ug/l	2.5	1
Hexachlorobutadiene	ND		ug/l	0.60	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	106		70-130

Project Name: RAYTHEON WAYLAND **Lab Number:** L0714839

Project Number: 0061882 **Report Date:** 10/15/07

Method Blank Analysis
Batch Quality Control

Analytical Method: 60,8260B
Analytical Date: 10/13/07 19:13
Analyst: RY

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by MCP 8260B for sample(s): 01 Batch: WG298125-3				
Methylene chloride	ND		ug/l	5.0
1,1-Dichloroethane	ND		ug/l	0.75
Chloroform	ND		ug/l	0.75
Carbon tetrachloride	ND		ug/l	0.50
1,2-Dichloropropane	ND		ug/l	1.8
Dibromochloromethane	ND		ug/l	0.50
1,1,2-Trichloroethane	ND		ug/l	0.75
Tetrachloroethene	ND		ug/l	0.50
Chlorobenzene	ND		ug/l	0.50
Trichlorofluoromethane	ND		ug/l	2.5
1,2-Dichloroethane	ND		ug/l	0.50
1,1,1-Trichloroethane	ND		ug/l	0.50
Bromodichloromethane	ND		ug/l	0.50
trans-1,3-Dichloropropene	ND		ug/l	0.50
cis-1,3-Dichloropropene	ND		ug/l	0.50
1,1-Dichloropropene	ND		ug/l	2.5
Bromoform	ND		ug/l	2.0
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50
Benzene	ND		ug/l	0.50
Toluene	ND		ug/l	0.75
Ethylbenzene	ND		ug/l	0.50
Chloromethane	ND		ug/l	2.5
Bromomethane	ND		ug/l	1.0
Vinyl chloride	ND		ug/l	1.0
Chloroethane	ND		ug/l	1.0
1,1-Dichloroethene	ND		ug/l	0.50
trans-1,2-Dichloroethene	ND		ug/l	0.75
Trichloroethene	ND		ug/l	0.50
1,2-Dichlorobenzene	ND		ug/l	2.5
1,3-Dichlorobenzene	ND		ug/l	2.5
1,4-Dichlorobenzene	ND		ug/l	2.5

Project Name: RAYTHEON WAYLAND **Lab Number:** L0714839

Project Number: 0061882 **Report Date:** 10/15/07

Method Blank Analysis
Batch Quality Control

Analytical Method: 60,8260B
Analytical Date: 10/13/07 19:13
Analyst: RY

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by MCP 8260B for sample(s): 01 Batch: WG298125-3				
Methyl tert butyl ether	ND		ug/l	1.0
p/m-Xylene	ND		ug/l	1.0
o-Xylene	ND		ug/l	1.0
cis-1,2-Dichloroethene	ND		ug/l	0.50
Dibromomethane	ND		ug/l	5.0
1,2,3-Trichloropropane	ND		ug/l	5.0
Styrene	ND		ug/l	1.0
Dichlorodifluoromethane	ND		ug/l	5.0
Acetone	ND		ug/l	5.0
Carbon disulfide	ND		ug/l	5.0
2-Butanone	ND		ug/l	5.0
4-Methyl-2-pentanone	ND		ug/l	5.0
2-Hexanone	ND		ug/l	5.0
Bromochloromethane	ND		ug/l	2.5
Tetrahydrofuran	ND		ug/l	10
2,2-Dichloropropane	ND		ug/l	2.5
1,2-Dibromoethane	ND		ug/l	2.0
1,3-Dichloropropane	ND		ug/l	2.5
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50
Bromobenzene	ND		ug/l	2.5
n-Butylbenzene	ND		ug/l	0.50
sec-Butylbenzene	ND		ug/l	0.50
tert-Butylbenzene	ND		ug/l	2.5
o-Chlorotoluene	ND		ug/l	2.5
p-Chlorotoluene	ND		ug/l	2.5
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5
Hexachlorobutadiene	ND		ug/l	0.60
Isopropylbenzene	ND		ug/l	0.50
p-Isopropyltoluene	ND		ug/l	0.50
Naphthalene	ND		ug/l	2.5
n-Propylbenzene	ND		ug/l	0.50

Project Name: RAYTHEON WAYLAND **Lab Number:** L0714839

Project Number: 0061882 **Report Date:** 10/15/07

Method Blank Analysis
Batch Quality Control

Analytical Method: 60,8260B
Analytical Date: 10/13/07 19:13
Analyst: RY

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by MCP 8260B for sample(s): 01 Batch: WG298125-3				
1,2,3-Trichlorobenzene	ND		ug/l	2.5
1,2,4-Trichlorobenzene	ND		ug/l	2.5
1,3,5-Trimethylbenzene	ND		ug/l	2.5
1,2,4-Trimethylbenzene	ND		ug/l	2.5
Ethyl ether	ND		ug/l	2.5
Isopropyl Ether	ND		ug/l	2.0
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.0
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0
1,4-Dioxane	ND		ug/l	250

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	96		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	94		70-130
Dibromofluoromethane	104		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: RAYTHEON WAYLAND
Project Number: 0061882

Lab Number: L0714839
Report Date: 10/15/07

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B Associated sample(s): 01 Batch: WG298125-1 WG298125-2					
Methylene chloride	103	102	70-130	1	25
1,1-Dichloroethane	89	89	70-130	0	25
Chloroform	92	92	70-130	0	25
Carbon tetrachloride	84	83	70-130	1	25
1,2-Dichloropropane	88	89	70-130	1	25
Dibromochloromethane	82	83	70-130	1	25
1,1,2-Trichloroethane	90	88	70-130	2	25
Tetrachloroethene	89	92	70-130	3	25
Chlorobenzene	90	89	70-130	1	25
Trichlorofluoromethane	99	100	70-130	1	25
1,2-Dichloroethane	86	85	70-130	1	25
1,1,1-Trichloroethane	88	89	70-130	1	25
Bromodichloromethane	88	89	70-130	1	25
trans-1,3-Dichloropropene	82	85	70-130	4	25
cis-1,3-Dichloropropene	86	87	70-130	1	25
1,1-Dichloropropene	90	90	70-130	0	25
Bromoform	93	94	70-130	1	50
1,1,2,2-Tetrachloroethane	107	106	70-130	1	25
Benzene	88	88	70-130	0	25
Toluene	86	87	70-130	1	25
Ethylbenzene	90	89	70-130	1	25

Lab Control Sample Analysis
Batch Quality Control

Project Name: RAYTHEON WAYLAND
Project Number: 0061882

Lab Number: L0714839
Report Date: 10/15/07

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B Associated sample(s): 01 Batch: WG298125-1 WG298125-2					
Chloromethane	102	101	70-130	1	50
Bromomethane	90	93	70-130	3	50
Vinyl chloride	96	96	70-130	0	25
Chloroethane	93	95	70-130	2	25
1,1-Dichloroethene	94	92	70-130	2	25
trans-1,2-Dichloroethene	88	89	70-130	1	25
Trichloroethene	81	81	70-130	0	25
1,2-Dichlorobenzene	90	90	70-130	0	25
1,3-Dichlorobenzene	93	95	70-130	2	25
1,4-Dichlorobenzene	90	90	70-130	0	25
Methyl tert butyl ether	81	81	70-130	0	25
p/m-Xylene	94	93	70-130	1	25
o-Xylene	92	92	70-130	0	25
cis-1,2-Dichloroethene	91	90	70-130	1	25
Dibromomethane	87	88	70-130	1	25
1,2,3-Trichloropropane	101	101	70-130	0	25
Styrene	90	92	70-130	2	25
Dichlorodifluoromethane	120	119	70-130	1	50
Acetone	99	87	70-130	13	50
Carbon disulfide	85	85	70-130	0	25
2-Butanone	88	90	70-130	2	50

Lab Control Sample Analysis
Batch Quality Control

Project Name: RAYTHEON WAYLAND
Project Number: 0061882

Lab Number: L0714839
Report Date: 10/15/07

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B Associated sample(s): 01 Batch: WG298125-1 WG298125-2					
4-Methyl-2-pentanone	87	88	70-130	1	50
2-Hexanone	90	82	70-130	9	50
Bromochloromethane	91	90	70-130	1	25
Tetrahydrofuran	80	86	70-130	7	25
2,2-Dichloropropane	93	93	70-130	0	50
1,2-Dibromoethane	87	86	70-130	1	25
1,3-Dichloropropane	88	87	70-130	1	25
1,1,1,2-Tetrachloroethane	87	84	70-130	4	25
Bromobenzene	91	94	70-130	3	25
n-Butylbenzene	89	89	70-130	0	25
sec-Butylbenzene	90	92	70-130	2	25
tert-Butylbenzene	88	91	70-130	3	25
o-Chlorotoluene	87	90	70-130	3	25
p-Chlorotoluene	91	91	70-130	0	25
1,2-Dibromo-3-chloropropane	104	108	70-130	4	50
Hexachlorobutadiene	84	85	70-130	1	25
Isopropylbenzene	98	96	70-130	2	25
p-Isopropyltoluene	92	94	70-130	2	25
Naphthalene	87	87	70-130	0	25
n-Propylbenzene	90	91	70-130	1	25
1,2,3-Trichlorobenzene	89	92	70-130	3	25

Lab Control Sample Analysis
Batch Quality Control

Project Name: RAYTHEON WAYLAND
Project Number: 0061882
Lab Number: L0714839
Report Date: 10/15/07

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B Associated sample(s): 01 Batch: WG298125-1 WG298125-2					
1,2,4-Trichlorobenzene	88	90	70-130	2	25
1,3,5-Trimethylbenzene	89	91	70-130	2	25
1,2,4-Trimethylbenzene	90	91	70-130	1	25
Ethyl ether	84	82	70-130	2	25
Isopropyl Ether	81	83	70-130	2	25
Ethyl-Tert-Butyl-Ether	81	81	70-130	0	25
Tertiary-Amyl Methyl Ether	80	80	70-130	0	25
1,4-Dioxane	87	97	70-130	11	50

Surrogate	LCS %Recovery	Qualifier	LCSD %Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	98		97		70-130
Toluene-d8	101		96		70-130
4-Bromofluorobenzene	99		95		70-130
Dibromofluoromethane	104		103		70-130

METALS

Project Name:	RAYTHEON WAYLAND	**Lab Number:**	L0714839
Project Number:	0061882	**Report Date:**	10/15/07

SAMPLE RESULTS

Lab ID:	L0714839-01	Date Collected:	10/04/07 12:10
Client ID:	MW-208S-20071004-01	Date Received:	10/05/07
Sample Location:	WAYLAND, MA	Field Prep:	Field Filtered
Matrix:	Water		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals by MCP 6000/7000 series										
Sodium, Dissolved	46		mg/l	2.0	1	10/12/07 14:30	10/12/07 16:53	EPA 3005A	60,6010B	AI

Project Name: RAYTHEON WAYLAND **Lab Number:** L0714839

Project Number: 0061882 **Report Date:** 10/15/07

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Dissolved Metals by MCP 6000/7000 series for sample(s): 01 Batch: WG297904-1									
Sodium, Dissolved	ND		mg/l	2.0	1	10/12/07 14:30	10/12/07 16:39	60,6010B	AI

Prep Information

Digestion Method: EPA 3005A

Lab Control Sample Analysis

Batch Quality Control

Project Name: RAYTHEON WAYLAND

Project Number: 0061882

Lab Number: L0714839

Report Date: 10/15/07

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Dissolved Metals by MCP 6000/7000 series Associated sample(s): 01 Batch: WG297904-2 WG297904-3					
Sodium, Dissolved	95	96	80-120	1	20

Project Name: RAYTHEON WAYLAND
Project Number: 0061882

Lab Number: L0714839
Report Date: 10/15/07

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp	Pres	Seal	Analysis
L0714839-01A	Vial HCl preserved	A	N/A	2C	Y	Absent	MCP-8260-04
L0714839-01B	Vial HCl preserved	A	N/A	2C	Y	Absent	MCP-8260-04
L0714839-01C	Plastic 500ml HNO3 preserved	A	<2	2C	Y	Absent	MCP-NA-6010S

Container Comments

L0714839-01A	Temp Probe
L0714839-01B	Temp Probe
L0714839-01C	Temp Probe

Project Name:	RAYTHEON WAYLAND	**Lab Number:**	L0714839
Project Number:	0061882	**Report Date:**	10/15/07

GLOSSARY

Acronyms

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.

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.

NI - Not Ignitable.

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.

ND - Not detected at the reported detection limit for the sample.

RDL - Reported Detection Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RDL 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.

Terms

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

The following data qualifiers have been identified for use under the CT DEP Reasonable Confidence Protocols.

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.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

J - Estimated value. The analyte was tentatively identified; the quantitation is an estimation. (Tentatively identified compounds only.)

Standard Qualifiers

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

Report Format: Not Specified

Project Name: RAYTHEON WAYLAND **Lab Number:** L0714839
Project Number: 0061882 **Report Date:** 10/15/07

REFERENCES

60 Quality Assurance and Quality Control Requirements and Performance Standards for SW-846 Methods. MADEP BWSC. WSC-CAM-IIA (Revision 4), WSC-CAM-V C (Revision 2), WSC-CAM-IIIA (Revision 5). May 2004.

LIMITATION OF LIABILITIES

Alpha Woods Hole Labs 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 Woods Hole Labs shall be to re-perform the work at it's own expense. In no event shall Alpha Woods Hole Labs 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 Woods Hole Labs.

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.

10150715:33

CHAIN OF CUSTODY

PAGE 1 OF 1

ALPHA WOODS HOLE LABS

WESTBORO, MA TEL: 508-898-9220 FAX: 508-898-9193

RAYNHAM, MA TEL: 508-822-9300 FAX: 508-822-3288

Date Rec'd in Lab: 10/5/07

ALPHA Job #: L0714839

Client Information

Client: ETM

Address: 399 BOYLSTON STREET, 6TH FLOOR BOSTON, MA 02116

Phone: (617) 646-7800

Fax: (617) 267-6447

Email: JEREMY.PICARD@ETM.COM

☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: RAYTHEON, WAYLAND

Project Location: WAYLAND, MA

Project #: Q061882

Project Manager: Jeremy Picard

ALPHA Quote #:

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved!)

Date Due: 10/12/07 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	Criteria
MCP	GW-1

MA MCP PRESUMPTIVE CERTAINTY --- CT REASONABLE CONFIDENCE PROTOCOLS

☒ Yes ☐ No Are MCP Analytical Methods Required?

☐ Yes ☒ No Are CT RCP (Reasonable Confidence Protocols) Required?

Other Project Specific Requirements/Comments/Detection Limits:

ANALYSIS: 8021Cl4 8260 (HCl) DISSOLVED MA

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	8021Cl4	8260 (HCl) DISSOLVED MA	Sample Specific Comments	TOTAL # BOTTLES
14839-01	MW-208S-20071004-01	10/04/07	12:10	GW	MS	2:	1.		3

Container Type	V	P
Preservative	B	C

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT MA MCP or CT RCP?

Relinquished By:	Date/Time	Received By:	Date/Time
[illegible]	10/5/07	Don Banks	10.5.07
Don Banks	10.5.07 1410	Jason MW	10/5/07 14:10

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 Payment Terms. See reverse side.

FORM NO: 01-01 (rev. 10-OCT-05)

ALPHA WOODS HOLE LABS

ANALYTICAL REPORT

Lab Number:	L0714756
Client:	ERM-New England 399 Boylston Street 6th Floor Boston, MA 02116
ATTN:	Jeremy Picard
Project Name:	RAYTHEON WAYLAND
Project Number:	0061882
Report Date:	10/16/07

Certifications & Approvals: MA (M-MA086), NY NELAC (11148), CT (PH-0574), NH (200305), NJ (MA935), RI (LAO00065), ME (2006012), PA (Registration #68-03671), USDA (Permit #S-72578), US Army Corps of Engineers, Naval FESC.

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: 0061882

Lab Number: L0714756
Report Date: 10/16/07

Alpha Sample ID	Client ID	Sample Location
L0714756-01	MW-212M-20071003-01	WAYLAND, MA
L0714756-02	IP-17D-20071003-01	WAYLAND, MA
L0714756-03	IP-16S-20071003-01	WAYLAND, MA
L0714756-04	MW-405S-20071003-01	WAYLAND, MA
L0714756-05	MW-47S-20071003-01	WAYLAND, MA
L0714756-06	DUP-004-20071003-01	WAYLAND, MA
L0714756-07	MW-102-20071003-01	WAYLAND, MA
L0714756-08	MW-403-20071003-01	WAYLAND, MA
L0714756-09	MW-33M-20071003-01	WAYLAND, MA

Project Name:	RAYTHEON WAYLAND	**Lab Number:**	L0714756
Project Number:	0061882	**Report Date:**	10/16/07

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, B, C & D is required for "Presumptive Certainty" status		
A	Were all samples received by the laboratory in a condition consistent with those described on their Chain-of-Custody documentation for the data set?	YES
B	Were all QA/QC procedures required for the specified analytical methods(s) included in this report followed, including the requirement to note and discuss in a narrative QC data that did not meet appropriate performance standards or guidelines?	YES
C	Does the analytical data included in this report meet all the requirements for "Presumptive Certainty", as described in section 2.0 of the MADEP document CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	YES
D	VPH and EPH methods only: Was the VPH or EPH method run without significant modifications, as specified in Section 11.3?	N/A

A response to questions E and F is required for "Presumptive Certainty" status		
E	Were all QC performance standards and recommendations for the specified method(s) achieved?	NO
F	Were results for all analyte-list compounds/elements for the specified method(s) reported?	NO

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:** L0714756
Project Number: 0061882 **Report Date:** 10/16/07

Case Narrative

The samples were received in accordance with the chain of custody and no significant deviations were encountered during preparation or analysis unless otherwise noted below.

MCP Related Narratives

Sample Receipt

The samples were Field Filtered for Dissolved Metals only.

Volatile Organics

L0714756-06 was re-analyzed due to over diltuion on the initial analysis. The results of the re-analysis are reported.

L0714756-06R was processed against a curve that utilized a quadratic fit for 1,4-Dioxane.

L0714756-07 has elevated detection limits due to the dilutions required by the elevated concentrations of non-target compounds in the sample.

L0714756-08 has elevated detection limits due to the dilutions required by the elevated concentrations of target compounds in the sample.

In reference to question E:

The WG298154-2 LCSD % recoveries for Dichlorodifluoromethane and Chloromethane are below the individual acceptance criteria for the compounds, but within the overall method allowances. Both are difficult analytes.

In reference to question F:

At the client's request, all submitted samples were not analyzed for the full MCP list of compounds specified for the Method.

Metals

In reference to question F:

At the client's request, all submitted samples were not analyzed for the full MCP list of compounds specified for the Method.

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: Michelle M. Morris

Title: Technical Director/Representative Date: 10/16/07

ORGANICS

VOLATILES

Project Name: RAYTHEON WAYLAND **Lab Number:** L0714756

Project Number: 0061882 **Report Date:** 10/16/07

SAMPLE RESULTS

Lab ID:	L0714756-01	Date Collected:	10/03/07 10:30
Client ID:	MW-212M-20071003-01	Date Received:	10/04/07
Sample Location:	WAYLAND, MA	Field Prep:	Field Filtered
Matrix:	Water		
Anaytical Method:	60,8260B		
Analytical Date:	10/13/07 19:51		
Analyst:	RY		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
Methylene chloride	ND		ug/l	5.0	1
1,1-Dichloroethane	ND		ug/l	0.75	1
Chloroform	ND		ug/l	0.75	1
Carbon tetrachloride	ND		ug/l	0.50	1
1,2-Dichloropropane	ND		ug/l	1.8	1
Dibromochloromethane	ND		ug/l	0.50	1
1,1,2-Trichloroethane	ND		ug/l	0.75	1
Tetrachloroethene	0.62		ug/l	0.50	1
Chlorobenzene	ND		ug/l	0.50	1
1,2-Dichloroethane	ND		ug/l	0.50	1
1,1,1-Trichloroethane	ND		ug/l	0.50	1
Bromodichloromethane	ND		ug/l	0.50	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	1
Bromoform	ND		ug/l	2.0	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	1
Chloromethane	ND		ug/l	2.5	1
Vinyl chloride	ND		ug/l	1.0	1
Chloroethane	ND		ug/l	1.0	1
1,1-Dichloroethene	ND		ug/l	0.50	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	1
Trichloroethene	4.6		ug/l	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.5	1
1,3-Dichlorobenzene	ND		ug/l	2.5	1
1,4-Dichlorobenzene	ND		ug/l	2.5	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	1
Dichlorodifluoromethane	ND		ug/l	5.0	1
2,2-Dichloropropane	ND		ug/l	2.5	1
1,2-Dibromoethane	ND		ug/l	2.0	1
1,3-Dichloropropane	ND		ug/l	2.5	1

Project Name: RAYTHEON WAYLAND **Lab Number:** L0714756

Project Number: 0061882 **Report Date:** 10/16/07

SAMPLE RESULTS

Lab ID:	L0714756-01	Date Collected:	10/03/07 10:30
Client ID:	MW-212M-20071003-01	Date Received:	10/04/07
Sample Location:	WAYLAND, MA	Field Prep:	Field Filtered

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	1
o-Chlorotoluene	ND		ug/l	2.5	1
p-Chlorotoluene	ND		ug/l	2.5	1
Hexachlorobutadiene	ND		ug/l	0.60	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	104		70-130

Project Name: RAYTHEON WAYLAND **Lab Number:** L0714756

Project Number: 0061882 **Report Date:** 10/16/07

SAMPLE RESULTS

Lab ID:	L0714756-02	Date Collected:	10/03/07 13:00
Client ID:	IP-17D-20071003-01	Date Received:	10/04/07
Sample Location:	WAYLAND, MA	Field Prep:	None
Matrix:	Water		
Anaytical Method:	60,8260B		
Analytical Date:	10/13/07 20:30		
Analyst:	RY		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
Methylene chloride	ND		ug/l	5.0	1
1,1-Dichloroethane	ND		ug/l	0.75	1
Chloroform	1.2		ug/l	0.75	1
Carbon tetrachloride	ND		ug/l	0.50	1
1,2-Dichloropropane	ND		ug/l	1.8	1
Dibromochloromethane	ND		ug/l	0.50	1
1,1,2-Trichloroethane	ND		ug/l	0.75	1
Tetrachloroethene	ND		ug/l	0.50	1
Chlorobenzene	ND		ug/l	0.50	1
1,2-Dichloroethane	ND		ug/l	0.50	1
1,1,1-Trichloroethane	ND		ug/l	0.50	1
Bromodichloromethane	ND		ug/l	0.50	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	1
Bromoform	ND		ug/l	2.0	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	1
Chloromethane	ND		ug/l	2.5	1
Vinyl chloride	ND		ug/l	1.0	1
Chloroethane	ND		ug/l	1.0	1
1,1-Dichloroethene	ND		ug/l	0.50	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	1
Trichloroethene	66		ug/l	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.5	1
1,3-Dichlorobenzene	ND		ug/l	2.5	1
1,4-Dichlorobenzene	ND		ug/l	2.5	1
cis-1,2-Dichloroethene	1.3		ug/l	0.50	1
Dichlorodifluoromethane	ND		ug/l	5.0	1
2,2-Dichloropropane	ND		ug/l	2.5	1
1,2-Dibromoethane	ND		ug/l	2.0	1
1,3-Dichloropropane	ND		ug/l	2.5	1

Project Name: RAYTHEON WAYLAND **Lab Number:** L0714756

Project Number: 0061882 **Report Date:** 10/16/07

SAMPLE RESULTS

Lab ID:	L0714756-02	Date Collected:	10/03/07 13:00
Client ID:	IP-17D-20071003-01	Date Received:	10/04/07
Sample Location:	WAYLAND, MA	Field Prep:	None

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	1
o-Chlorotoluene	ND		ug/l	2.5	1
p-Chlorotoluene	ND		ug/l	2.5	1
Hexachlorobutadiene	ND		ug/l	0.60	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	102		70-130

Project Name: RAYTHEON WAYLAND **Lab Number:** L0714756

Project Number: 0061882 **Report Date:** 10/16/07

SAMPLE RESULTS

Lab ID:	L0714756-03	Date Collected:	10/03/07 13:40
Client ID:	IP-16S-20071003-01	Date Received:	10/04/07
Sample Location:	WAYLAND, MA	Field Prep:	None
Matrix:	Water		
Anaytical Method:	60,8260B		
Analytical Date:	10/13/07 21:09		
Analyst:	RY		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
Methylene chloride	ND		ug/l	5.0	1
1,1-Dichloroethane	ND		ug/l	0.75	1
Chloroform	0.82		ug/l	0.75	1
Carbon tetrachloride	ND		ug/l	0.50	1
1,2-Dichloropropane	ND		ug/l	1.8	1
Dibromochloromethane	ND		ug/l	0.50	1
1,1,2-Trichloroethane	ND		ug/l	0.75	1
Tetrachloroethene	ND		ug/l	0.50	1
Chlorobenzene	ND		ug/l	0.50	1
1,2-Dichloroethane	ND		ug/l	0.50	1
1,1,1-Trichloroethane	ND		ug/l	0.50	1
Bromodichloromethane	ND		ug/l	0.50	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	1
Bromoform	ND		ug/l	2.0	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	1
Chloromethane	ND		ug/l	2.5	1
Vinyl chloride	ND		ug/l	1.0	1
Chloroethane	ND		ug/l	1.0	1
1,1-Dichloroethene	ND		ug/l	0.50	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	1
Trichloroethene	ND		ug/l	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.5	1
1,3-Dichlorobenzene	ND		ug/l	2.5	1
1,4-Dichlorobenzene	ND		ug/l	2.5	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	1
Dichlorodifluoromethane	ND		ug/l	5.0	1
2,2-Dichloropropane	ND		ug/l	2.5	1
1,2-Dibromoethane	ND		ug/l	2.0	1
1,3-Dichloropropane	ND		ug/l	2.5	1

Project Name: RAYTHEON WAYLAND **Lab Number:** L0714756

Project Number: 0061882 **Report Date:** 10/16/07

SAMPLE RESULTS

Lab ID:	L0714756-03	Date Collected:	10/03/07 13:40
Client ID:	IP-16S-20071003-01	Date Received:	10/04/07
Sample Location:	WAYLAND, MA	Field Prep:	None

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	1
o-Chlorotoluene	ND		ug/l	2.5	1
p-Chlorotoluene	ND		ug/l	2.5	1
Hexachlorobutadiene	ND		ug/l	0.60	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	104		70-130

Project Name: RAYTHEON WAYLAND **Lab Number:** L0714756

Project Number: 0061882 **Report Date:** 10/16/07

SAMPLE RESULTS

Lab ID:	L0714756-04	Date Collected:	10/03/07 14:15
Client ID:	MW-405S-20071003-01	Date Received:	10/04/07
Sample Location:	WAYLAND, MA	Field Prep:	None
Matrix:	Water		
Anaytical Method:	60,8260B		
Analytical Date:	10/13/07 21:47		
Analyst:	RY		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
Methylene chloride	ND		ug/l	5.0	1
1,1-Dichloroethane	ND		ug/l	0.75	1
Chloroform	ND		ug/l	0.75	1
Carbon tetrachloride	ND		ug/l	0.50	1
1,2-Dichloropropane	ND		ug/l	1.8	1
Dibromochloromethane	ND		ug/l	0.50	1
1,1,2-Trichloroethane	ND		ug/l	0.75	1
Tetrachloroethene	ND		ug/l	0.50	1
Chlorobenzene	ND		ug/l	0.50	1
1,2-Dichloroethane	ND		ug/l	0.50	1
1,1,1-Trichloroethane	ND		ug/l	0.50	1
Bromodichloromethane	ND		ug/l	0.50	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	1
Bromoform	ND		ug/l	2.0	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	1
Chloromethane	ND		ug/l	2.5	1
Vinyl chloride	ND		ug/l	1.0	1
Chloroethane	ND		ug/l	1.0	1
1,1-Dichloroethene	ND		ug/l	0.50	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	1
Trichloroethene	ND		ug/l	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.5	1
1,3-Dichlorobenzene	ND		ug/l	2.5	1
1,4-Dichlorobenzene	ND		ug/l	2.5	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	1
Dichlorodifluoromethane	ND		ug/l	5.0	1
2,2-Dichloropropane	ND		ug/l	2.5	1
1,2-Dibromoethane	ND		ug/l	2.0	1
1,3-Dichloropropane	ND		ug/l	2.5	1

Project Name: RAYTHEON WAYLAND **Lab Number:** L0714756

Project Number: 0061882 **Report Date:** 10/16/07

SAMPLE RESULTS

Lab ID:	L0714756-04	Date Collected:	10/03/07 14:15
Client ID:	MW-405S-20071003-01	Date Received:	10/04/07
Sample Location:	WAYLAND, MA	Field Prep:	None

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	1
o-Chlorotoluene	ND		ug/l	2.5	1
p-Chlorotoluene	ND		ug/l	2.5	1
Hexachlorobutadiene	ND		ug/l	0.60	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	94		70-130
Dibromofluoromethane	105		70-130

Project Name: RAYTHEON WAYLAND **Lab Number:** L0714756

Project Number: 0061882 **Report Date:** 10/16/07

SAMPLE RESULTS

Lab ID:	L0714756-05	Date Collected:	10/03/07 16:05
Client ID:	MW-47S-20071003-01	Date Received:	10/04/07
Sample Location:	WAYLAND, MA	Field Prep:	Field Filtered
Matrix:	Water		
Anaytical Method:	60,8260B		
Analytical Date:	10/13/07 22:26		
Analyst:	RY		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
Methylene chloride	ND		ug/l	5.0	1
1,1-Dichloroethane	ND		ug/l	0.75	1
Chloroform	ND		ug/l	0.75	1
Carbon tetrachloride	ND		ug/l	0.50	1
1,2-Dichloropropane	ND		ug/l	1.8	1
Dibromochloromethane	ND		ug/l	0.50	1
1,1,2-Trichloroethane	ND		ug/l	0.75	1
Tetrachloroethene	ND		ug/l	0.50	1
Chlorobenzene	ND		ug/l	0.50	1
1,2-Dichloroethane	ND		ug/l	0.50	1
1,1,1-Trichloroethane	ND		ug/l	0.50	1
Bromodichloromethane	ND		ug/l	0.50	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	1
Bromoform	ND		ug/l	2.0	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	1
Chloromethane	ND		ug/l	2.5	1
Vinyl chloride	ND		ug/l	1.0	1
Chloroethane	ND		ug/l	1.0	1
1,1-Dichloroethene	ND		ug/l	0.50	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	1
Trichloroethene	0.66		ug/l	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.5	1
1,3-Dichlorobenzene	ND		ug/l	2.5	1
1,4-Dichlorobenzene	ND		ug/l	2.5	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	1
Dichlorodifluoromethane	ND		ug/l	5.0	1
2,2-Dichloropropane	ND		ug/l	2.5	1
1,2-Dibromoethane	ND		ug/l	2.0	1
1,3-Dichloropropane	ND		ug/l	2.5	1

Project Name: RAYTHEON WAYLAND **Lab Number:** L0714756

Project Number: 0061882 **Report Date:** 10/16/07

SAMPLE RESULTS

Lab ID:	L0714756-05	Date Collected:	10/03/07 16:05
Client ID:	MW-47S-20071003-01	Date Received:	10/04/07
Sample Location:	WAYLAND, MA	Field Prep:	Field Filtered

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	1
o-Chlorotoluene	ND		ug/l	2.5	1
p-Chlorotoluene	ND		ug/l	2.5	1
Hexachlorobutadiene	ND		ug/l	0.60	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	98		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	95		70-130
Dibromofluoromethane	103		70-130

Project Name: RAYTHEON WAYLAND **Lab Number:** L0714756

Project Number: 0061882 **Report Date:** 10/16/07

SAMPLE RESULTS

Lab ID:	L0714756-06 R	Date Collected:	10/03/07 00:00
Client ID:	DUP-004-20071003-01	Date Received:	10/04/07
Sample Location:	WAYLAND, MA	Field Prep:	Field Filtered
Matrix:	Water		
Anaytical Method:	60,8260B		
Analytical Date:	10/15/07 14:09		
Analyst:	BS		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
Methylene chloride	ND		ug/l	5.0	1
1,1-Dichloroethane	ND		ug/l	0.75	1
Chloroform	ND		ug/l	0.75	1
Carbon tetrachloride	ND		ug/l	0.50	1
1,2-Dichloropropane	ND		ug/l	1.8	1
Dibromochloromethane	ND		ug/l	0.50	1
1,1,2-Trichloroethane	ND		ug/l	0.75	1
Tetrachloroethene	ND		ug/l	0.50	1
Chlorobenzene	ND		ug/l	0.50	1
1,2-Dichloroethane	ND		ug/l	0.50	1
1,1,1-Trichloroethane	ND		ug/l	0.50	1
Bromodichloromethane	ND		ug/l	0.50	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	1
Bromoform	ND		ug/l	2.0	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	1
Chloromethane	ND		ug/l	2.5	1
Vinyl chloride	ND		ug/l	1.0	1
Chloroethane	ND		ug/l	1.0	1
1,1-Dichloroethene	ND		ug/l	0.50	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	1
Trichloroethene	0.53		ug/l	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.5	1
1,3-Dichlorobenzene	ND		ug/l	2.5	1
1,4-Dichlorobenzene	ND		ug/l	2.5	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	1
Dichlorodifluoromethane	ND		ug/l	5.0	1
2,2-Dichloropropane	ND		ug/l	2.5	1
1,2-Dibromoethane	ND		ug/l	2.0	1
1,3-Dichloropropane	ND		ug/l	2.5	1

Project Name: RAYTHEON WAYLAND **Lab Number:** L0714756

Project Number: 0061882 **Report Date:** 10/16/07

SAMPLE RESULTS

Lab ID:	L0714756-06 R	Date Collected:	10/03/07 00:00
Client ID:	DUP-004-20071003-01	Date Received:	10/04/07
Sample Location:	WAYLAND, MA	Field Prep:	Field Filtered

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	1
o-Chlorotoluene	ND		ug/l	2.5	1
p-Chlorotoluene	ND		ug/l	2.5	1
Hexachlorobutadiene	ND		ug/l	0.60	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	113		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	105		70-130
Dibromofluoromethane	106		70-130

Project Name: RAYTHEON WAYLAND **Lab Number:** L0714756

Project Number: 0061882 **Report Date:** 10/16/07

SAMPLE RESULTS

Lab ID:	L0714756-07	Date Collected:	10/03/07 10:35
Client ID:	MW-102-20071003-01	Date Received:	10/04/07
Sample Location:	WAYLAND, MA	Field Prep:	None
Matrix:	Water		
Anaytical Method:	60,8260B		
Analytical Date:	10/13/07 23:42		
Analyst:	RY		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
Methylene chloride	ND		ug/l	10	2
1,1-Dichloroethane	1.5		ug/l	1.5	2
Chloroform	1.7		ug/l	1.5	2
Carbon tetrachloride	ND		ug/l	1.0	2
1,2-Dichloropropane	ND		ug/l	3.5	2
Dibromochloromethane	ND		ug/l	1.0	2
1,1,2-Trichloroethane	ND		ug/l	1.5	2
Tetrachloroethene	ND		ug/l	1.0	2
Chlorobenzene	ND		ug/l	1.0	2
1,2-Dichloroethane	ND		ug/l	1.0	2
1,1,1-Trichloroethane	ND		ug/l	1.0	2
Bromodichloromethane	ND		ug/l	1.0	2
trans-1,3-Dichloropropene	ND		ug/l	1.0	2
cis-1,3-Dichloropropene	ND		ug/l	1.0	2
Bromoform	ND		ug/l	4.0	2
1,1,2,2-Tetrachloroethane	ND		ug/l	1.0	2
Chloromethane	ND		ug/l	5.0	2
Vinyl chloride	ND		ug/l	2.0	2
Chloroethane	ND		ug/l	2.0	2
1,1-Dichloroethene	ND		ug/l	1.0	2
trans-1,2-Dichloroethene	ND		ug/l	1.5	2
Trichloroethene	2.5		ug/l	1.0	2
1,2-Dichlorobenzene	ND		ug/l	5.0	2
1,3-Dichlorobenzene	ND		ug/l	5.0	2
1,4-Dichlorobenzene	ND		ug/l	5.0	2
cis-1,2-Dichloroethene	ND		ug/l	1.0	2
Dichlorodifluoromethane	ND		ug/l	10	2
2,2-Dichloropropane	ND		ug/l	5.0	2
1,2-Dibromoethane	ND		ug/l	4.0	2
1,3-Dichloropropane	ND		ug/l	5.0	2

Project Name: RAYTHEON WAYLAND **Lab Number:** L0714756

Project Number: 0061882 **Report Date:** 10/16/07

SAMPLE RESULTS

Lab ID:	L0714756-07	Date Collected:	10/03/07 10:35
Client ID:	MW-102-20071003-01	Date Received:	10/04/07
Sample Location:	WAYLAND, MA	Field Prep:	None

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	2
o-Chlorotoluene	ND		ug/l	5.0	2
p-Chlorotoluene	ND		ug/l	5.0	2
Hexachlorobutadiene	ND		ug/l	1.2	2
1,2,4-Trichlorobenzene	ND		ug/l	5.0	2

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	105		70-130

Project Name: RAYTHEON WAYLAND **Lab Number:** L0714756

Project Number: 0061882 **Report Date:** 10/16/07

SAMPLE RESULTS

Lab ID:	L0714756-08	Date Collected:	10/03/07 10:15
Client ID:	MW-403-20071003-01	Date Received:	10/04/07
Sample Location:	WAYLAND, MA	Field Prep:	None
Matrix:	Water		
Anaytical Method:	60,8260B		
Analytical Date:	10/14/07 00:20		
Analyst:	RY		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
Methylene chloride	ND		ug/l	25	5
1,1-Dichloroethane	ND		ug/l	3.8	5
Chloroform	ND		ug/l	3.8	5
Carbon tetrachloride	ND		ug/l	2.5	5
1,2-Dichloropropane	ND		ug/l	8.8	5
Dibromochloromethane	ND		ug/l	2.5	5
1,1,2-Trichloroethane	ND		ug/l	3.8	5
Tetrachloroethene	7.2		ug/l	2.5	5
Chlorobenzene	ND		ug/l	2.5	5
1,2-Dichloroethane	ND		ug/l	2.5	5
1,1,1-Trichloroethane	ND		ug/l	2.5	5
Bromodichloromethane	ND		ug/l	2.5	5
trans-1,3-Dichloropropene	ND		ug/l	2.5	5
cis-1,3-Dichloropropene	ND		ug/l	2.5	5
Bromoform	ND		ug/l	10	5
1,1,2,2-Tetrachloroethane	ND		ug/l	2.5	5
Chloromethane	ND		ug/l	12	5
Vinyl chloride	ND		ug/l	5.0	5
Chloroethane	ND		ug/l	5.0	5
1,1-Dichloroethene	ND		ug/l	2.5	5
trans-1,2-Dichloroethene	ND		ug/l	3.8	5
Trichloroethene	200		ug/l	2.5	5
1,2-Dichlorobenzene	ND		ug/l	12	5
1,3-Dichlorobenzene	ND		ug/l	12	5
1,4-Dichlorobenzene	ND		ug/l	12	5
cis-1,2-Dichloroethene	8.5		ug/l	2.5	5
Dichlorodifluoromethane	ND		ug/l	25	5
2,2-Dichloropropane	ND		ug/l	12	5
1,2-Dibromoethane	ND		ug/l	10	5
1,3-Dichloropropane	ND		ug/l	12	5

Project Name: RAYTHEON WAYLAND **Lab Number:** L0714756

Project Number: 0061882 **Report Date:** 10/16/07

SAMPLE RESULTS

Lab ID:	L0714756-08	Date Collected:	10/03/07 10:15
Client ID:	MW-403-20071003-01	Date Received:	10/04/07
Sample Location:	WAYLAND, MA	Field Prep:	None

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	5
o-Chlorotoluene	ND		ug/l	12	5
p-Chlorotoluene	ND		ug/l	12	5
Hexachlorobutadiene	ND		ug/l	3.0	5
1,2,4-Trichlorobenzene	ND		ug/l	12	5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	103		70-130

Project Name: RAYTHEON WAYLAND **Lab Number:** L0714756

Project Number: 0061882 **Report Date:** 10/16/07

SAMPLE RESULTS

Lab ID:	L0714756-09	Date Collected:	10/03/07 09:20
Client ID:	MW-33M-20071003-01	Date Received:	10/04/07
Sample Location:	WAYLAND, MA	Field Prep:	Field Filtered
Matrix:	Water		
Anaytical Method:	60,8260B		
Analytical Date:	10/14/07 00:59		
Analyst:	RY		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
Methylene chloride	ND		ug/l	5.0	1
1,1-Dichloroethane	ND		ug/l	0.75	1
Chloroform	ND		ug/l	0.75	1
Carbon tetrachloride	ND		ug/l	0.50	1
1,2-Dichloropropane	ND		ug/l	1.8	1
Dibromochloromethane	ND		ug/l	0.50	1
1,1,2-Trichloroethane	ND		ug/l	0.75	1
Tetrachloroethene	ND		ug/l	0.50	1
Chlorobenzene	ND		ug/l	0.50	1
1,2-Dichloroethane	ND		ug/l	0.50	1
1,1,1-Trichloroethane	ND		ug/l	0.50	1
Bromodichloromethane	ND		ug/l	0.50	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	1
Bromoform	ND		ug/l	2.0	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	1
Chloromethane	ND		ug/l	2.5	1
Vinyl chloride	ND		ug/l	1.0	1
Chloroethane	ND		ug/l	1.0	1
1,1-Dichloroethene	ND		ug/l	0.50	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	1
Trichloroethene	8.9		ug/l	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.5	1
1,3-Dichlorobenzene	ND		ug/l	2.5	1
1,4-Dichlorobenzene	ND		ug/l	2.5	1
cis-1,2-Dichloroethene	2.5		ug/l	0.50	1
Dichlorodifluoromethane	ND		ug/l	5.0	1
2,2-Dichloropropane	ND		ug/l	2.5	1
1,2-Dibromoethane	ND		ug/l	2.0	1
1,3-Dichloropropane	ND		ug/l	2.5	1

Project Name: RAYTHEON WAYLAND **Lab Number:** L0714756

Project Number: 0061882 **Report Date:** 10/16/07

SAMPLE RESULTS

Lab ID:	L0714756-09	Date Collected:	10/03/07 09:20
Client ID:	MW-33M-20071003-01	Date Received:	10/04/07
Sample Location:	WAYLAND, MA	Field Prep:	Field Filtered

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	1
o-Chlorotoluene	ND		ug/l	2.5	1
p-Chlorotoluene	ND		ug/l	2.5	1
Hexachlorobutadiene	ND		ug/l	0.60	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	97		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	103		70-130

Project Name: RAYTHEON WAYLAND **Lab Number:** L0714756

Project Number: 0061882 **Report Date:** 10/16/07

Method Blank Analysis
Batch Quality Control

Analytical Method: 60,8260B
Analytical Date: 10/13/07 19:13
Analyst: RY

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by MCP 8260B for sample(s): 01-05,07-09 Batch: WG298125-3				
Methylene chloride	ND		ug/l	5.0
1,1-Dichloroethane	ND		ug/l	0.75
Chloroform	ND		ug/l	0.75
Carbon tetrachloride	ND		ug/l	0.50
1,2-Dichloropropane	ND		ug/l	1.8
Dibromochloromethane	ND		ug/l	0.50
1,1,2-Trichloroethane	ND		ug/l	0.75
Tetrachloroethene	ND		ug/l	0.50
Chlorobenzene	ND		ug/l	0.50
Trichlorofluoromethane	ND		ug/l	2.5
1,2-Dichloroethane	ND		ug/l	0.50
1,1,1-Trichloroethane	ND		ug/l	0.50
Bromodichloromethane	ND		ug/l	0.50
trans-1,3-Dichloropropene	ND		ug/l	0.50
cis-1,3-Dichloropropene	ND		ug/l	0.50
1,1-Dichloropropene	ND		ug/l	2.5
Bromoform	ND		ug/l	2.0
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50
Benzene	ND		ug/l	0.50
Toluene	ND		ug/l	0.75
Ethylbenzene	ND		ug/l	0.50
Chloromethane	ND		ug/l	2.5
Bromomethane	ND		ug/l	1.0
Vinyl chloride	ND		ug/l	1.0
Chloroethane	ND		ug/l	1.0
1,1-Dichloroethene	ND		ug/l	0.50
trans-1,2-Dichloroethene	ND		ug/l	0.75
Trichloroethene	ND		ug/l	0.50
1,2-Dichlorobenzene	ND		ug/l	2.5
1,3-Dichlorobenzene	ND		ug/l	2.5
1,4-Dichlorobenzene	ND		ug/l	2.5

Project Name: RAYTHEON WAYLAND **Lab Number:** L0714756

Project Number: 0061882 **Report Date:** 10/16/07

Method Blank Analysis
Batch Quality Control

Analytical Method: 60,8260B
Analytical Date: 10/13/07 19:13
Analyst: RY

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by MCP 8260B for sample(s): 01-05,07-09 Batch: WG298125-3				
Methyl tert butyl ether	ND		ug/l	1.0
p/m-Xylene	ND		ug/l	1.0
o-Xylene	ND		ug/l	1.0
cis-1,2-Dichloroethene	ND		ug/l	0.50
Dibromomethane	ND		ug/l	5.0
1,2,3-Trichloropropane	ND		ug/l	5.0
Styrene	ND		ug/l	1.0
Dichlorodifluoromethane	ND		ug/l	5.0
Acetone	ND		ug/l	5.0
Carbon disulfide	ND		ug/l	5.0
2-Butanone	ND		ug/l	5.0
4-Methyl-2-pentanone	ND		ug/l	5.0
2-Hexanone	ND		ug/l	5.0
Bromochloromethane	ND		ug/l	2.5
Tetrahydrofuran	ND		ug/l	10
2,2-Dichloropropane	ND		ug/l	2.5
1,2-Dibromoethane	ND		ug/l	2.0
1,3-Dichloropropane	ND		ug/l	2.5
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50
Bromobenzene	ND		ug/l	2.5
n-Butylbenzene	ND		ug/l	0.50
sec-Butylbenzene	ND		ug/l	0.50
tert-Butylbenzene	ND		ug/l	2.5
o-Chlorotoluene	ND		ug/l	2.5
p-Chlorotoluene	ND		ug/l	2.5
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5
Hexachlorobutadiene	ND		ug/l	0.60
Isopropylbenzene	ND		ug/l	0.50
p-Isopropyltoluene	ND		ug/l	0.50
Naphthalene	ND		ug/l	2.5
n-Propylbenzene	ND		ug/l	0.50

Project Name: RAYTHEON WAYLAND **Lab Number:** L0714756

Project Number: 0061882 **Report Date:** 10/16/07

Method Blank Analysis
Batch Quality Control

Analytical Method: 60,8260B
Analytical Date: 10/13/07 19:13
Analyst: RY

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by MCP 8260B for sample(s): 01-05,07-09 Batch: WG298125-3				
1,2,3-Trichlorobenzene	ND		ug/l	2.5
1,2,4-Trichlorobenzene	ND		ug/l	2.5
1,3,5-Trimethylbenzene	ND		ug/l	2.5
1,2,4-Trimethylbenzene	ND		ug/l	2.5
Ethyl ether	ND		ug/l	2.5
Isopropyl Ether	ND		ug/l	2.0
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.0
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0
1,4-Dioxane	ND		ug/l	250

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	96		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	94		70-130
Dibromofluoromethane	104		70-130

Project Name: RAYTHEON WAYLAND **Lab Number:** L0714756

Project Number: 0061882 **Report Date:** 10/16/07

Method Blank Analysis
Batch Quality Control

Analytical Method: 60,8260B
Analytical Date: 10/15/07 12:51
Analyst: BS

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by MCP 8260B for sample(s): 06 Batch: WG298154-3				
Methylene chloride	ND		ug/l	5.0
1,1-Dichloroethane	ND		ug/l	0.75
Chloroform	ND		ug/l	0.75
Carbon tetrachloride	ND		ug/l	0.50
1,2-Dichloropropane	ND		ug/l	1.8
Dibromochloromethane	ND		ug/l	0.50
1,1,2-Trichloroethane	ND		ug/l	0.75
Tetrachloroethene	ND		ug/l	0.50
Chlorobenzene	ND		ug/l	0.50
Trichlorofluoromethane	ND		ug/l	2.5
1,2-Dichloroethane	ND		ug/l	0.50
1,1,1-Trichloroethane	ND		ug/l	0.50
Bromodichloromethane	ND		ug/l	0.50
trans-1,3-Dichloropropene	ND		ug/l	0.50
cis-1,3-Dichloropropene	ND		ug/l	0.50
1,1-Dichloropropene	ND		ug/l	2.5
Bromoform	ND		ug/l	2.0
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50
Benzene	ND		ug/l	0.50
Toluene	ND		ug/l	0.75
Ethylbenzene	ND		ug/l	0.50
Chloromethane	ND		ug/l	2.5
Bromomethane	ND		ug/l	1.0
Vinyl chloride	ND		ug/l	1.0
Chloroethane	ND		ug/l	1.0
1,1-Dichloroethene	ND		ug/l	0.50
trans-1,2-Dichloroethene	ND		ug/l	0.75
Trichloroethene	ND		ug/l	0.50
1,2-Dichlorobenzene	ND		ug/l	2.5
1,3-Dichlorobenzene	ND		ug/l	2.5
1,4-Dichlorobenzene	ND		ug/l	2.5

Project Name: RAYTHEON WAYLAND **Lab Number:** L0714756

Project Number: 0061882 **Report Date:** 10/16/07

Method Blank Analysis
Batch Quality Control

Analytical Method: 60,8260B
Analytical Date: 10/15/07 12:51
Analyst: BS

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by MCP 8260B for sample(s): 06 Batch: WG298154-3				
Methyl tert butyl ether	ND		ug/l	1.0
p/m-Xylene	ND		ug/l	1.0
o-Xylene	ND		ug/l	1.0
cis-1,2-Dichloroethene	ND		ug/l	0.50
Dibromomethane	ND		ug/l	5.0
1,2,3-Trichloropropane	ND		ug/l	5.0
Styrene	ND		ug/l	1.0
Dichlorodifluoromethane	ND		ug/l	5.0
Acetone	ND		ug/l	5.0
Carbon disulfide	ND		ug/l	5.0
2-Butanone	ND		ug/l	5.0
4-Methyl-2-pentanone	ND		ug/l	5.0
2-Hexanone	ND		ug/l	5.0
Bromochloromethane	ND		ug/l	2.5
Tetrahydrofuran	ND		ug/l	10
2,2-Dichloropropane	ND		ug/l	2.5
1,2-Dibromoethane	ND		ug/l	2.0
1,3-Dichloropropane	ND		ug/l	2.5
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50
Bromobenzene	ND		ug/l	2.5
n-Butylbenzene	ND		ug/l	0.50
sec-Butylbenzene	ND		ug/l	0.50
tert-Butylbenzene	ND		ug/l	2.5
o-Chlorotoluene	ND		ug/l	2.5
p-Chlorotoluene	ND		ug/l	2.5
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5
Hexachlorobutadiene	ND		ug/l	0.60
Isopropylbenzene	ND		ug/l	0.50
p-Isopropyltoluene	ND		ug/l	0.50
Naphthalene	ND		ug/l	2.5
n-Propylbenzene	ND		ug/l	0.50

Project Name: RAYTHEON WAYLAND **Lab Number:** L0714756

Project Number: 0061882 **Report Date:** 10/16/07

Method Blank Analysis
Batch Quality Control

Analytical Method: 60,8260B
Analytical Date: 10/15/07 12:51
Analyst: BS

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by MCP 8260B for sample(s): 06 Batch: WG298154-3				
1,2,3-Trichlorobenzene	ND		ug/l	2.5
1,2,4-Trichlorobenzene	ND		ug/l	2.5
1,3,5-Trimethylbenzene	ND		ug/l	2.5
1,2,4-Trimethylbenzene	ND		ug/l	2.5
Ethyl ether	ND		ug/l	2.5
Isopropyl Ether	ND		ug/l	2.0
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.0
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0
1,4-Dioxane	ND		ug/l	250

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	113		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	106		70-130
Dibromofluoromethane	107		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: RAYTHEON WAYLAND
Project Number: 0061882

Lab Number: L0714756
Report Date: 10/16/07

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B Associated sample(s): 01-05,07-09 Batch: WG298125-1 WG298125-2					
Methylene chloride	103	102	70-130	1	25
1,1-Dichloroethane	89	89	70-130	0	25
Chloroform	92	92	70-130	0	25
Carbon tetrachloride	84	83	70-130	1	25
1,2-Dichloropropane	88	89	70-130	1	25
Dibromochloromethane	82	83	70-130	1	25
1,1,2-Trichloroethane	90	88	70-130	2	25
Tetrachloroethene	89	92	70-130	3	25
Chlorobenzene	90	89	70-130	1	25
Trichlorofluoromethane	99	100	70-130	1	25
1,2-Dichloroethane	86	85	70-130	1	25
1,1,1-Trichloroethane	88	89	70-130	1	25
Bromodichloromethane	88	89	70-130	1	25
trans-1,3-Dichloropropene	82	85	70-130	4	25
cis-1,3-Dichloropropene	86	87	70-130	1	25
1,1-Dichloropropene	90	90	70-130	0	25
Bromoform	93	94	70-130	1	50
1,1,2,2-Tetrachloroethane	107	106	70-130	1	25
Benzene	88	88	70-130	0	25
Toluene	86	87	70-130	1	25
Ethylbenzene	90	89	70-130	1	25

Lab Control Sample Analysis
Batch Quality Control

Project Name: RAYTHEON WAYLAND
Project Number: 0061882

Lab Number: L0714756
Report Date: 10/16/07

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B Associated sample(s): 01-05,07-09 Batch: WG298125-1 WG298125-2					
Chloromethane	102	101	70-130	1	50
Bromomethane	90	93	70-130	3	50
Vinyl chloride	96	96	70-130	0	25
Chloroethane	93	95	70-130	2	25
1,1-Dichloroethene	94	92	70-130	2	25
trans-1,2-Dichloroethene	88	89	70-130	1	25
Trichloroethene	81	81	70-130	0	25
1,2-Dichlorobenzene	90	90	70-130	0	25
1,3-Dichlorobenzene	93	95	70-130	2	25
1,4-Dichlorobenzene	90	90	70-130	0	25
Methyl tert butyl ether	81	81	70-130	0	25
p/m-Xylene	94	93	70-130	1	25
o-Xylene	92	92	70-130	0	25
cis-1,2-Dichloroethene	91	90	70-130	1	25
Dibromomethane	87	88	70-130	1	25
1,2,3-Trichloropropane	101	101	70-130	0	25
Styrene	90	92	70-130	2	25
Dichlorodifluoromethane	120	119	70-130	1	50
Acetone	99	87	70-130	13	50
Carbon disulfide	85	85	70-130	0	25
2-Butanone	88	90	70-130	2	50

Lab Control Sample Analysis
Batch Quality Control

Project Name: RAYTHEON WAYLAND
Project Number: 0061882

Lab Number: L0714756
Report Date: 10/16/07

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B Associated sample(s): 01-05,07-09 Batch: WG298125-1 WG298125-2					
4-Methyl-2-pentanone	87	88	70-130	1	50
2-Hexanone	90	82	70-130	9	50
Bromochloromethane	91	90	70-130	1	25
Tetrahydrofuran	80	86	70-130	7	25
2,2-Dichloropropane	93	93	70-130	0	50
1,2-Dibromoethane	87	86	70-130	1	25
1,3-Dichloropropane	88	87	70-130	1	25
1,1,1,2-Tetrachloroethane	87	84	70-130	4	25
Bromobenzene	91	94	70-130	3	25
n-Butylbenzene	89	89	70-130	0	25
sec-Butylbenzene	90	92	70-130	2	25
tert-Butylbenzene	88	91	70-130	3	25
o-Chlorotoluene	87	90	70-130	3	25
p-Chlorotoluene	91	91	70-130	0	25
1,2-Dibromo-3-chloropropane	104	108	70-130	4	50
Hexachlorobutadiene	84	85	70-130	1	25
Isopropylbenzene	98	96	70-130	2	25
p-Isopropyltoluene	92	94	70-130	2	25
Naphthalene	87	87	70-130	0	25
n-Propylbenzene	90	91	70-130	1	25
1,2,3-Trichlorobenzene	89	92	70-130	3	25

Lab Control Sample Analysis
Batch Quality Control

Project Name: RAYTHEON WAYLAND
Project Number: 0061882
Lab Number: L0714756
Report Date: 10/16/07

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B Associated sample(s): 01-05,07-09 Batch: WG298125-1 WG298125-2					
1,2,4-Trichlorobenzene	88	90	70-130	2	25
1,3,5-Trimethylbenzene	89	91	70-130	2	25
1,2,4-Trimethylbenzene	90	91	70-130	1	25
Ethyl ether	84	82	70-130	2	25
Isopropyl Ether	81	83	70-130	2	25
Ethyl-Tert-Butyl-Ether	81	81	70-130	0	25
Tertiary-Amyl Methyl Ether	80	80	70-130	0	25
1,4-Dioxane	87	97	70-130	11	50

Surrogate	LCS %Recovery	Qualifier	LCSD %Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	98		97		70-130
Toluene-d8	101		96		70-130
4-Bromofluorobenzene	99		95		70-130
Dibromofluoromethane	104		103		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: RAYTHEON WAYLAND
Project Number: 0061882

Lab Number: L0714756
Report Date: 10/16/07

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B Associated sample(s): 06 Batch: WG298154-1 WG298154-2					
Methylene chloride	90	87	70-130	3	25
1,1-Dichloroethane	94	90	70-130	4	25
Chloroform	98	93	70-130	5	25
Carbon tetrachloride	116	108	70-130	7	25
1,2-Dichloropropane	92	89	70-130	3	25
Dibromochloromethane	102	98	70-130	4	25
1,1,2-Trichloroethane	90	91	70-130	1	25
Tetrachloroethene	109	103	70-130	6	25
Chlorobenzene	98	94	70-130	4	25
Trichlorofluoromethane	122	111	70-130	9	25
1,2-Dichloroethane	108	103	70-130	5	25
1,1,1-Trichloroethane	112	104	70-130	7	25
Bromodichloromethane	103	99	70-130	4	25
trans-1,3-Dichloropropene	98	93	70-130	5	25
cis-1,3-Dichloropropene	98	94	70-130	4	25
1,1-Dichloropropene	99	93	70-130	6	25
Bromoform	107	102	70-130	5	50
1,1,2,2-Tetrachloroethane	88	86	70-130	2	25
Benzene	95	89	70-130	7	25
Toluene	96	90	70-130	6	25
Ethylbenzene	100	95	70-130	5	25

Lab Control Sample Analysis
Batch Quality Control

Project Name: RAYTHEON WAYLAND
Project Number: 0061882

Lab Number: L0714756
Report Date: 10/16/07

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B Associated sample(s): 06 Batch: WG298154-1 WG298154-2					
Chloromethane	72	**68**	70-130	6	50
Bromomethane	78	79	70-130	1	50
Vinyl chloride	80	76	70-130	5	25
Chloroethane	102	93	70-130	9	25
1,1-Dichloroethene	101	96	70-130	5	25
trans-1,2-Dichloroethene	94	90	70-130	4	25
Trichloroethene	102	97	70-130	5	25
1,2-Dichlorobenzene	99	93	70-130	6	25
1,3-Dichlorobenzene	102	96	70-130	6	25
1,4-Dichlorobenzene	100	95	70-130	5	25
Methyl tert butyl ether	95	95	70-130	0	25
p/m-Xylene	102	97	70-130	5	25
o-Xylene	105	100	70-130	5	25
cis-1,2-Dichloroethene	95	91	70-130	4	25
Dibromomethane	103	102	70-130	1	25
1,2,3-Trichloropropane	102	97	70-130	5	25
Styrene	106	100	70-130	6	25
Dichlorodifluoromethane	74	**67**	70-130	10	50
Acetone	110	114	70-130	4	50
Carbon disulfide	100	92	70-130	8	25
2-Butanone	98	100	70-130	2	50

Lab Control Sample Analysis
Batch Quality Control

Project Name: RAYTHEON WAYLAND
Project Number: 0061882

Lab Number: L0714756
Report Date: 10/16/07

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B Associated sample(s): 06 Batch: WG298154-1 WG298154-2					
4-Methyl-2-pentanone	91	92	70-130	1	50
2-Hexanone	89	94	70-130	5	50
Bromochloromethane	99	97	70-130	2	25
Tetrahydrofuran	94	87	70-130	8	25
2,2-Dichloropropane	116	109	70-130	6	50
1,2-Dibromoethane	95	95	70-130	0	25
1,3-Dichloropropane	94	89	70-130	5	25
1,1,1,2-Tetrachloroethane	106	101	70-130	5	25
Bromobenzene	100	94	70-130	6	25
n-Butylbenzene	103	96	70-130	7	25
sec-Butylbenzene	106	97	70-130	9	25
tert-Butylbenzene	106	97	70-130	9	25
o-Chlorotoluene	98	92	70-130	6	25
p-Chlorotoluene	99	91	70-130	8	25
1,2-Dibromo-3-chloropropane	88	86	70-130	2	50
Hexachlorobutadiene	89	83	70-130	7	25
Isopropylbenzene	115	107	70-130	7	25
p-Isopropyltoluene	109	101	70-130	8	25
Naphthalene	79	80	70-130	1	25
n-Propylbenzene	102	96	70-130	6	25
1,2,3-Trichlorobenzene	87	86	70-130	1	25

Lab Control Sample Analysis
Batch Quality Control

Project Name: RAYTHEON WAYLAND
Project Number: 0061882
Lab Number: L0714756
Report Date: 10/16/07

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B Associated sample(s): 06 Batch: WG298154-1 WG298154-2					
1,2,4-Trichlorobenzene	90	87	70-130	3	25
1,3,5-Trimethylbenzene	104	96	70-130	8	25
1,2,4-Trimethylbenzene	105	97	70-130	8	25
Ethyl ether	98	99	70-130	1	25
Isopropyl Ether	90	88	70-130	2	25
Ethyl-Tert-Butyl-Ether	92	81	70-130	13	25
Tertiary-Amyl Methyl Ether	95	93	70-130	2	25
1,4-Dioxane	111	120	70-130	8	50

Surrogate	LCS %Recovery	Qualifier	LCSD %Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	110		110		70-130
Toluene-d8	98		97		70-130
4-Bromofluorobenzene	97		96		70-130
Dibromofluoromethane	107		104		70-130

Matrix Spike Analysis
Batch Quality Control

Project Name: RAYTHEON WAYLAND
Project Number: 0061882

Lab Number: L0714756
Report Date: 10/16/07

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B Associated sample(s): 01-05,07-09 QC Batch ID: WG298125-4 WG298125-5 QC Sample: L0714756-01 Client ID: MW-212M-20071003-01									
Methylene chloride	ND	10	9.7	97	9.6	96	70-130	1	30
1,1-Dichloroethane	ND	10	10	101	9.9	99	70-130	2	30
Chloroform	ND	10	11	107	11	107	70-130	0	30
Carbon tetrachloride	ND	10	12	120	12	124	70-130	3	30
1,2-Dichloropropane	ND	10	10	100	10	101	70-130	1	30
Dibromochloromethane	ND	10	10	101	9.6	96	70-130	5	30
1,1,2-Trichloroethane	ND	10	9.4	94	8.9	89	70-130	5	30
Tetrachloroethene	0.62	10	11	107	11	104	70-130	3	30
Chlorobenzene	ND	10	10	103	9.8	98	70-130	5	30
1,2-Dichloroethane	ND	10	12	117	12	115	70-130	2	30
1,1,1-Trichloroethane	ND	10	12	120	12	118	70-130	2	30
Bromodichloromethane	ND	10	11	109	11	112	70-130	3	30
trans-1,3-Dichloropropene	ND	10	9.0	90	8.8	88	70-130	2	30
cis-1,3-Dichloropropene	ND	10	9.9	99	10	100	70-130	1	30
Bromoform	ND	10	9.7	97	9.9	99	70-130	2	30
1,1,2,2-Tetrachloroethane	ND	10	8.4	84	8.7	87	70-130	4	30
Chloromethane	ND	10	9.1	91	9.5	95	70-130	4	30
Vinyl chloride	ND	10	9.7	97	9.8	98	70-130	1	30
Chloroethane	ND	10	12	119	12	118	70-130	1	30
1,1-Dichloroethene	ND	10	11	111	11	109	70-130	2	30
trans-1,2-Dichloroethene	ND	10	10	102	10	100	70-130	2	30

Matrix Spike Analysis
Batch Quality Control

Project Name: RAYTHEON WAYLAND
Project Number: 0061882

Lab Number: L0714756
Report Date: 10/16/07

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B Associated sample(s): 01-05,07-09 QC Batch ID: WG298125-4 WG298125-5 QC Sample: L0714756-01 Client ID: MW-212M-20071003-01									
Trichloroethene	4.6	10	16	118	16	115	70-130	3	30
1,2-Dichlorobenzene	ND	10	9.8	98	9.9	99	70-130	1	30
1,3-Dichlorobenzene	ND	10	9.9	99	10	101	70-130	2	30
1,4-Dichlorobenzene	ND	10	10	101	10	100	70-130	1	30
cis-1,2-Dichloroethene	ND	10	11	107	11	107	70-130	0	30
Dichlorodifluoromethane	ND	10	11	110	12	119	70-130	8	30
2,2-Dichloropropane	ND	10	10	104	10	105	70-130	1	30
1,2-Dibromoethane	ND	10	9.5	95	9.5	95	70-130	0	30
1,3-Dichloropropane	ND	10	9.3	93	8.9	89	70-130	4	30
1,1,1,2-Tetrachloroethane	ND	10	11	110	10	104	70-130	6	30
o-Chlorotoluene	ND	10	9.4	94	9.4	94	70-130	0	30
p-Chlorotoluene	ND	10	9.5	95	9.4	94	70-130	1	30
Hexachlorobutadiene	ND	10	8.2	82	8.2	82	70-130	0	30
1,2,4-Trichlorobenzene	ND	10	8.8	88	9.0	90	70-130	2	30

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	110		110		70-130
4-Bromofluorobenzene	92		96		70-130
Dibromofluoromethane	108		111		70-130
Toluene-d8	92		91		70-130

METALS

Project Name:	RAYTHEON WAYLAND	**Lab Number:**	L0714756
Project Number:	0061882	**Report Date:**	10/16/07

SAMPLE RESULTS

Lab ID:	L0714756-01	Date Collected:	10/03/07 10:30
Client ID:	MW-212M-20071003-01	Date Received:	10/04/07
Sample Location:	WAYLAND, MA	Field Prep:	Field Filtered
Matrix:	Water		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals by MCP 6000/7000 series										
Sodium, Dissolved	150		mg/l	2.0	1	10/08/07 16:30	10/09/07 19:00	EPA 3005A	60,6010B	AI

Project Name:	RAYTHEON WAYLAND	**Lab Number:**	L0714756
Project Number:	0061882	**Report Date:**	10/16/07

SAMPLE RESULTS

Lab ID:	L0714756-05	Date Collected:	10/03/07 16:05
Client ID:	MW-47S-20071003-01	Date Received:	10/04/07
Sample Location:	WAYLAND, MA	Field Prep:	Field Filtered
Matrix:	Water		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals by MCP 6000/7000 series										
Sodium, Dissolved	32		mg/l	2.0	1	10/08/07 16:30	10/09/07 19:18	EPA 3005A	60,6010B	AI

Project Name:	RAYTHEON WAYLAND	**Lab Number:**	L0714756
Project Number:	0061882	**Report Date:**	10/16/07

SAMPLE RESULTS

Lab ID:	L0714756-06	Date Collected:	10/03/07 00:00
Client ID:	DUP-004-20071003-01	Date Received:	10/04/07
Sample Location:	WAYLAND, MA	Field Prep:	Field Filtered
Matrix:	Water		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals by MCP 6000/7000 series										
Sodium, Dissolved	34		mg/l	2.0	1	10/08/07 16:30	10/09/07 19:45	EPA 3005A	60,6010B	AI

Project Name:	RAYTHEON WAYLAND	**Lab Number:**	L0714756
Project Number:	0061882	**Report Date:**	10/16/07

SAMPLE RESULTS

Lab ID:	L0714756-09	Date Collected:	10/03/07 09:20
Client ID:	MW-33M-20071003-01	Date Received:	10/04/07
Sample Location:	WAYLAND, MA	Field Prep:	Field Filtered
Matrix:	Water		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals by MCP 6000/7000 series										
Sodium, Dissolved	14		mg/l	2.0	1	10/08/07 16:30	10/09/07 19:49	EPA 3005A	60,6010B	AI

Project Name: RAYTHEON WAYLAND **Lab Number:** L0714756

Project Number: 0061882 **Report Date:** 10/16/07

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Dissolved Metals by MCP 6000/7000 series for sample(s): 01,05-06,09 Batch: WG297219-3									
Sodium, Dissolved	ND		mg/l	2.0	1	10/08/07 16:30	10/09/07 18:43	60,6010B	AI

Prep Information

Digestion Method: EPA 3005A

Lab Control Sample Analysis

Batch Quality Control

Project Name: RAYTHEON WAYLAND

Project Number: 0061882

Lab Number: L0714756

Report Date: 10/16/07

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Dissolved Metals by MCP 6000/7000 series Associated sample(s): 01,05-06,09 Batch: WG297219-4 WG297219-5					
Sodium, Dissolved	97	96	80-120	1	20

Matrix Spike Analysis
Batch Quality Control

Project Name: RAYTHEON WAYLAND
Project Number: 0061882

Lab Number: L0714756
Report Date: 10/16/07

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Dissolved Metals by MCP 6000/7000 series Associated sample(s): 01,05-06,09 QC Batch ID: WG297219-1 WG297219-2 QC Sample: L0714756-01 Client ID: MW-212M-20071003-01									
Sodium, Dissolved	150	10	160	100	160	100	75-125	0	20

Project Name: RAYTHEON WAYLAND
Project Number: 0061882

Lab Number: L0714756
Report Date: 10/16/07

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp	Pres	Seal	Analysis
L0714756-01A	Vial HCl preserved	A	N/A	2.4C	Y	Absent	MCP-8260-04
L0714756-01B	Vial HCl preserved	A	N/A	2.4C	Y	Absent	MCP-8260-04
L0714756-01C	Vial HCl preserved	A	N/A	2.4C	Y	Absent	MCP-8260-04
L0714756-01D	Vial HCl preserved	A	N/A	2.4C	Y	Absent	MCP-8260-04
L0714756-01E	Vial HCl preserved	A	N/A	2.4C	Y	Absent	MCP-8260-04
L0714756-01F	Vial HCl preserved	A	N/A	2.4C	Y	Absent	MCP-8260-04
L0714756-01G	Plastic 500ml HNO3 preserved	A	<2	2.4C	Y	Absent	MCP-NA-6010S
L0714756-01H	Plastic 500ml HNO3 preserved	A	<2	2.4C	Y	Absent	MCP-NA-6010S
L0714756-01I	Plastic 500ml HNO3 preserved	A	<2	2.4C	Y	Absent	MCP-NA-6010S
L0714756-02A	Vial Na2S2O3 preserved	A	N/A	2.4C	Y	Absent	MCP-8260-04
L0714756-02B	Vial Na2S2O3 preserved	A	N/A	2.4C	Y	Absent	MCP-8260-04
L0714756-03A	Vial Na2S2O3 preserved	A	N/A	2.4C	Y	Absent	MCP-8260-04
L0714756-03B	Vial Na2S2O3 preserved	A	N/A	2.4C	Y	Absent	MCP-8260-04
L0714756-04A	Vial Na2S2O3 preserved	A	N/A	2.4C	Y	Absent	MCP-8260-04
L0714756-04B	Vial Na2S2O3 preserved	A	N/A	2.4C	Y	Absent	MCP-8260-04
L0714756-05A	Vial HCl preserved	A	N/A	2.4C	Y	Absent	MCP-8260-04
L0714756-05B	Vial HCl preserved	A	N/A	2.4C	Y	Absent	MCP-8260-04
L0714756-05C	Plastic 500ml HNO3 preserved	A	<2	2.4C	Y	Absent	MCP-NA-6010S
L0714756-06A	Vial HCl preserved	A	N/A	2.4C	Y	Absent	MCP-8260-04
L0714756-06B	Vial HCl preserved	A	N/A	2.4C	Y	Absent	MCP-8260-04
L0714756-06C	Plastic 500ml HNO3 preserved	A	<2	2.4C	Y	Absent	MCP-NA-6010S
L0714756-07A	Vial Na2S2O3 preserved	A	N/A	2.4C	Y	Absent	MCP-8260-04
L0714756-07B	Vial Na2S2O3 preserved	A	N/A	2.4C	Y	Absent	MCP-8260-04
L0714756-08A	Vial Na2S2O3 preserved	A	N/A	2.4C	Y	Absent	MCP-8260-04
L0714756-08B	Vial Na2S2O3 preserved	A	N/A	2.4C	Y	Absent	MCP-8260-04
L0714756-09A	Vial HCl preserved	A	N/A	2.4C	Y	Absent	MCP-8260-04
L0714756-09B	Vial HCl preserved	A	N/A	2.4C	Y	Absent	MCP-8260-04
L0714756-09C	Plastic 500ml HNO3 preserved	A	<2	2.4C	Y	Absent	MCP-NA-6010S

Project Name:	RAYTHEON WAYLAND	**Lab Number:**	L0714756
Project Number:	0061882	**Report Date:**	10/16/07

GLOSSARY

Acronyms

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.

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.

NI - Not Ignitable.

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.

ND - Not detected at the reported detection limit for the sample.

RDL - Reported Detection Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RDL 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.

Terms

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

The following data qualifiers have been identified for use under the CT DEP Reasonable Confidence Protocols.

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.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

J - Estimated value. The analyte was tentatively identified; the quantitation is an estimation. (Tentatively identified compounds only.)

Standard Qualifiers

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

Project Name:	RAYTHEON WAYLAND	**Lab Number:**	L0714756
Project Number:	0061882	**Report Date:**	10/16/07

REFERENCES

60 Quality Assurance and Quality Control Requirements and Performance Standards for SW-846 Methods. MADEP BWSC. WSC-CAM-IIA (Revision 4), WSC-CAM-V C (Revision 2), WSC-CAM-IIIA (Revision 5). May 2004.

LIMITATION OF LIABILITIES

Alpha Woods Hole Labs 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 Woods Hole Labs shall be to re-perform the work at it's own expense. In no event shall Alpha Woods Hole Labs 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 Woods Hole Labs.

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.

CHAIN OF CUSTODY

PAGE 1 OF 1

ALPHA WOODS HOLE LABS

WESTBORO, MA TEL: 508-898-9220 FAX: 508-898-9193

RAYNHAM, MA TEL: 508-822-9300 FAX: 508-822-3288

Date Rec'd in Lab: 10/4/07

ALPHA Job #: L0714756

F

10160711:37

Client Information

Client: ERM

Address: 399 Boylston St 6th Floor Boston MA 02116

Phone: 617 646-7800

Fax: 617 267 6446

Email: jeremypicard@erm.com

☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: Raytheon Wayland

Project Location: Wayland MA

Project #: 0061882

Project Manager: J. Picard

ALPHA Quote #:

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved!)

Date Due: 10/11/07 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	Criteria
MCP	GW-1

MA MCP PRESUMPTIVE CERTAINTY --- CT REASONABLE CONFIDENCE PROTOCOLS

☒ Yes ☐ No Are MCP Analytical Methods Required?

☐ Yes ☒ No Are CT RCP (Reasonable Confidence Protocols) Required?

Other Project Specific Requirements/Comments/Detection Limits:

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	8021 cl by 8260	DISS NO3	8021 cl by 8260	Sample Specific Comments	TOTAL # BOTTLES
14756-01	MW-212M-20071003-01	10/3/07	10:30	GW	LR	6	3		MS/MSD	9
-02	~~MW-170~~ IP-170-20071003-01	10/3/07	13:00	GW	LR			2		2
-03	IP-165-20071003-01	10/3/07	13:40	GW	LR			2		2
-04	MW-405S-20071003-01	10/3/07	14:15	GW	LR			2		2
-05	MW-47S-20071003-01	10/3/07	16:05	GW	HEA	2	1			3
-06	DUP-004-20071003-01	10/3/07	24:00	GW	HEA	2	1			3
-07	MW-102-20071003-01	10/3/07	10:35	GW	HEA			2		2
-08	MW-403-20071003-01	10/3/07	10:15	GW	HEA			2		2
-09	MW-33M-20071003-01	10/3/07	09:20	GW	HEA	2	1			3

Container Type	V	P	V													
Preservative	B	C	H													

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT MA MCP *or* CT RCP?

Relinquished By:	Date/Time	Received By:	Date/Time
[signature]	10/4/07 11:25	Don Bourke	10/4/07 1127
Don Bourke	10/4/07 17:45	from MW	10/4/07 17:45

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 Payment Terms. See reverse side.

FORM NO: 01-01 (rev. 10-OCT-05)

ALPHA WOODS HOLE LABS

ANALYTICAL REPORT

Lab Number:	L0714754
Client:	ERM-New England 399 Boylston Street 6th Floor Boston, MA 02116
ATTN:	Jeremy Picard
Project Name:	RAYTHEON WAYLAND
Project Number:	0061882
Report Date:	10/14/07

Certifications & Approvals: MA (M-MA086), NY NELAC (11148), CT (PH-0574), NH (200305), NJ (MA935), RI (LAO00065), ME (2006012), PA (Registration #68-03671), USDA (Permit #S-72578), US Army Corps of Engineers, Naval FESC.

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: 0061882

Lab Number: L0714754
Report Date: 10/14/07

Alpha Sample ID	Client ID	Sample Location
L0714754-01	MW-210-20071003-01	WAYLAND, MA
L0714754-02	MW-105-20071003-01	WAYLAND, MA
L0714754-03	MW-105M-20071003-01	WAYLAND, MA
L0714754-04	MW-211-20071003-01	WAYLAND, MA
L0714754-05	TB-001-20071003-01	WAYLAND, MA

Project Name:	RAYTHEON WAYLAND	**Lab Number:**	L0714754
Project Number:	0061882	**Report Date:**	10/14/07

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, B, C & D is required for "Presumptive Certainty" status		
A	Were all samples received by the laboratory in a condition consistent with those described on their Chain-of-Custody documentation for the data set?	YES
B	Were all QA/QC procedures required for the specified analytical methods(s) included in this report followed, including the requirement to note and discuss in a narrative QC data that did not meet appropriate performance standards or guidelines?	YES
C	Does the analytical data included in this report meet all the requirements for "Presumptive Certainty", as described in section 2.0 of the MADEP document CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	YES
D	VPH and EPH methods only: Was the VPH or EPH method run without significant modifications, as specified in Section 11.3?	N/A

A response to questions E and F is required for "Presumptive Certainty" status		
E	Were all QC performance standards and recommendations for the specified method(s) achieved?	NO
F	Were results for all analyte-list compounds/elements for the specified method(s) reported?	NO

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:** L0714754
Project Number: 0061882 **Report Date:** 10/14/07

Case Narrative

The samples were received in accordance with the chain of custody and no significant deviations were encountered during preparation or analysis unless otherwise noted below.

MCP Related Narratives

Sample Receipt

The samples were Field Filtered for Dissolved Metals only.

Volatile Organics

In reference to question E:

The WG297898-4/5 LCSD % recovery for Dichlorodifluoromethane, a difficult analyte, is below the individual acceptance criteria for the compound, but within the overall method allowances.

In reference to question F:

At the client's request, all submitted samples were not analyzed for the full MCP list of compounds specified for the Method.

Metals

In reference to question F:

At the client's request, all submitted samples were not analyzed for the full MCP list of compounds specified for the Method.

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: Michelle M. Morris

Title: Technical Director/Representative Date: 10/14/07

ORGANICS

VOLATILES

Project Name: RAYTHEON WAYLAND **Lab Number:** L0714754

Project Number: 0061882 **Report Date:** 10/14/07

SAMPLE RESULTS

Lab ID:	L0714754-01	Date Collected:	10/03/07 14:00
Client ID:	MW-210-20071003-01	Date Received:	10/04/07
Sample Location:	WAYLAND, MA	Field Prep:	Field Filtered
Matrix:	Water		
Anaytical Method:	60,8260B		
Analytical Date:	10/12/07 14:22		
Analyst:	BS		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
Methylene chloride	ND		ug/l	5.0	1
1,1-Dichloroethane	ND		ug/l	0.75	1
Chloroform	ND		ug/l	0.75	1
Carbon tetrachloride	ND		ug/l	0.50	1
1,2-Dichloropropane	ND		ug/l	1.8	1
Dibromochloromethane	ND		ug/l	0.50	1
1,1,2-Trichloroethane	ND		ug/l	0.75	1
Tetrachloroethene	1.3		ug/l	0.50	1
Chlorobenzene	ND		ug/l	0.50	1
1,2-Dichloroethane	ND		ug/l	0.50	1
1,1,1-Trichloroethane	ND		ug/l	0.50	1
Bromodichloromethane	ND		ug/l	0.50	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	1
Bromoform	ND		ug/l	2.0	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	1
Chloromethane	ND		ug/l	2.5	1
Vinyl chloride	ND		ug/l	1.0	1
Chloroethane	ND		ug/l	1.0	1
1,1-Dichloroethene	ND		ug/l	0.50	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	1
Trichloroethene	11		ug/l	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.5	1
1,3-Dichlorobenzene	ND		ug/l	2.5	1
1,4-Dichlorobenzene	ND		ug/l	2.5	1
cis-1,2-Dichloroethene	1.2		ug/l	0.50	1
Dichlorodifluoromethane	ND		ug/l	5.0	1
2,2-Dichloropropane	ND		ug/l	2.5	1
1,2-Dibromoethane	ND		ug/l	2.0	1
1,3-Dichloropropane	ND		ug/l	2.5	1

Project Name: RAYTHEON WAYLAND **Lab Number:** L0714754

Project Number: 0061882 **Report Date:** 10/14/07

SAMPLE RESULTS

Lab ID:	L0714754-01	Date Collected:	10/03/07 14:00
Client ID:	MW-210-20071003-01	Date Received:	10/04/07
Sample Location:	WAYLAND, MA	Field Prep:	Field Filtered

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	1
o-Chlorotoluene	ND		ug/l	2.5	1
p-Chlorotoluene	ND		ug/l	2.5	1
Hexachlorobutadiene	ND		ug/l	0.60	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	94		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	95		70-130

Project Name: RAYTHEON WAYLAND **Lab Number:** L0714754

Project Number: 0061882 **Report Date:** 10/14/07

SAMPLE RESULTS

Lab ID:	L0714754-02	Date Collected:	10/03/07 15:10
Client ID:	MW-105-20071003-01	Date Received:	10/04/07
Sample Location:	WAYLAND, MA	Field Prep:	None
Matrix:	Water		
Anaytical Method:	60,8260B		
Analytical Date:	10/12/07 15:01		
Analyst:	BS		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
Methylene chloride	ND		ug/l	5.0	1
1,1-Dichloroethane	ND		ug/l	0.75	1
Chloroform	ND		ug/l	0.75	1
Carbon tetrachloride	ND		ug/l	0.50	1
1,2-Dichloropropane	ND		ug/l	1.8	1
Dibromochloromethane	ND		ug/l	0.50	1
1,1,2-Trichloroethane	ND		ug/l	0.75	1
Tetrachloroethene	ND		ug/l	0.50	1
Chlorobenzene	ND		ug/l	0.50	1
1,2-Dichloroethane	ND		ug/l	0.50	1
1,1,1-Trichloroethane	ND		ug/l	0.50	1
Bromodichloromethane	ND		ug/l	0.50	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	1
Bromoform	ND		ug/l	2.0	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	1
Chloromethane	ND		ug/l	2.5	1
Vinyl chloride	ND		ug/l	1.0	1
Chloroethane	ND		ug/l	1.0	1
1,1-Dichloroethene	ND		ug/l	0.50	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	1
Trichloroethene	2.4		ug/l	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.5	1
1,3-Dichlorobenzene	ND		ug/l	2.5	1
1,4-Dichlorobenzene	ND		ug/l	2.5	1
cis-1,2-Dichloroethene	2.7		ug/l	0.50	1
Dichlorodifluoromethane	ND		ug/l	5.0	1
2,2-Dichloropropane	ND		ug/l	2.5	1
1,2-Dibromoethane	ND		ug/l	2.0	1
1,3-Dichloropropane	ND		ug/l	2.5	1

Project Name: RAYTHEON WAYLAND **Lab Number:** L0714754

Project Number: 0061882 **Report Date:** 10/14/07

SAMPLE RESULTS

Lab ID:	L0714754-02	Date Collected:	10/03/07 15:10
Client ID:	MW-105-20071003-01	Date Received:	10/04/07
Sample Location:	WAYLAND, MA	Field Prep:	None

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	1
o-Chlorotoluene	ND		ug/l	2.5	1
p-Chlorotoluene	ND		ug/l	2.5	1
Hexachlorobutadiene	ND		ug/l	0.60	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	95		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	99		70-130

Project Name: RAYTHEON WAYLAND **Lab Number:** L0714754

Project Number: 0061882 **Report Date:** 10/14/07

SAMPLE RESULTS

Lab ID:	L0714754-03	Date Collected:	10/03/07 15:40
Client ID:	MW-105M-20071003-01	Date Received:	10/04/07
Sample Location:	WAYLAND, MA	Field Prep:	None
Matrix:	Water		
Anaytical Method:	60,8260B		
Analytical Date:	10/12/07 15:40		
Analyst:	BS		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
Methylene chloride	ND		ug/l	5.0	1
1,1-Dichloroethane	ND		ug/l	0.75	1
Chloroform	0.90		ug/l	0.75	1
Carbon tetrachloride	ND		ug/l	0.50	1
1,2-Dichloropropane	ND		ug/l	1.8	1
Dibromochloromethane	ND		ug/l	0.50	1
1,1,2-Trichloroethane	ND		ug/l	0.75	1
Tetrachloroethene	ND		ug/l	0.50	1
Chlorobenzene	ND		ug/l	0.50	1
1,2-Dichloroethane	ND		ug/l	0.50	1
1,1,1-Trichloroethane	ND		ug/l	0.50	1
Bromodichloromethane	ND		ug/l	0.50	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	1
Bromoform	ND		ug/l	2.0	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	1
Chloromethane	ND		ug/l	2.5	1
Vinyl chloride	ND		ug/l	1.0	1
Chloroethane	ND		ug/l	1.0	1
1,1-Dichloroethene	ND		ug/l	0.50	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	1
Trichloroethene	1.5		ug/l	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.5	1
1,3-Dichlorobenzene	ND		ug/l	2.5	1
1,4-Dichlorobenzene	ND		ug/l	2.5	1
cis-1,2-Dichloroethene	1.5		ug/l	0.50	1
Dichlorodifluoromethane	ND		ug/l	5.0	1
2,2-Dichloropropane	ND		ug/l	2.5	1
1,2-Dibromoethane	ND		ug/l	2.0	1
1,3-Dichloropropane	ND		ug/l	2.5	1

Project Name: RAYTHEON WAYLAND **Lab Number:** L0714754

Project Number: 0061882 **Report Date:** 10/14/07

SAMPLE RESULTS

Lab ID:	L0714754-03	Date Collected:	10/03/07 15:40
Client ID:	MW-105M-20071003-01	Date Received:	10/04/07
Sample Location:	WAYLAND, MA	Field Prep:	None

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	1
o-Chlorotoluene	ND		ug/l	2.5	1
p-Chlorotoluene	ND		ug/l	2.5	1
Hexachlorobutadiene	ND		ug/l	0.60	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	97		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	102		70-130

Project Name: RAYTHEON WAYLAND **Lab Number:** L0714754

Project Number: 0061882 **Report Date:** 10/14/07

SAMPLE RESULTS

Lab ID:	L0714754-04	Date Collected:	10/03/07 14:40
Client ID:	MW-211-20071003-01	Date Received:	10/04/07
Sample Location:	WAYLAND, MA	Field Prep:	Field Filtered
Matrix:	Water		
Anaytical Method:	60,8260B		
Analytical Date:	10/12/07 16:19		
Analyst:	BS		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
Methylene chloride	ND		ug/l	5.0	1
1,1-Dichloroethane	ND		ug/l	0.75	1
Chloroform	2.0		ug/l	0.75	1
Carbon tetrachloride	ND		ug/l	0.50	1
1,2-Dichloropropane	ND		ug/l	1.8	1
Dibromochloromethane	ND		ug/l	0.50	1
1,1,2-Trichloroethane	ND		ug/l	0.75	1
Tetrachloroethene	ND		ug/l	0.50	1
Chlorobenzene	ND		ug/l	0.50	1
1,2-Dichloroethane	ND		ug/l	0.50	1
1,1,1-Trichloroethane	ND		ug/l	0.50	1
Bromodichloromethane	ND		ug/l	0.50	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	1
Bromoform	ND		ug/l	2.0	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	1
Chloromethane	ND		ug/l	2.5	1
Vinyl chloride	ND		ug/l	1.0	1
Chloroethane	ND		ug/l	1.0	1
1,1-Dichloroethene	ND		ug/l	0.50	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	1
Trichloroethene	ND		ug/l	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.5	1
1,3-Dichlorobenzene	ND		ug/l	2.5	1
1,4-Dichlorobenzene	ND		ug/l	2.5	1
cis-1,2-Dichloroethene	0.75		ug/l	0.50	1
Dichlorodifluoromethane	ND		ug/l	5.0	1
2,2-Dichloropropane	ND		ug/l	2.5	1
1,2-Dibromoethane	ND		ug/l	2.0	1
1,3-Dichloropropane	ND		ug/l	2.5	1

Project Name: RAYTHEON WAYLAND **Lab Number:** L0714754

Project Number: 0061882 **Report Date:** 10/14/07

SAMPLE RESULTS

Lab ID:	L0714754-04	Date Collected:	10/03/07 14:40
Client ID:	MW-211-20071003-01	Date Received:	10/04/07
Sample Location:	WAYLAND, MA	Field Prep:	Field Filtered

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	1
o-Chlorotoluene	ND		ug/l	2.5	1
p-Chlorotoluene	ND		ug/l	2.5	1
Hexachlorobutadiene	ND		ug/l	0.60	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	96		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	102		70-130

Project Name: RAYTHEON WAYLAND **Lab Number:** L0714754

Project Number: 0061882 **Report Date:** 10/14/07

SAMPLE RESULTS

Lab ID:	L0714754-05	Date Collected:	09/28/07 13:10
Client ID:	TB-001-20071003-01	Date Received:	10/04/07
Sample Location:	WAYLAND, MA	Field Prep:	Not Specified
Matrix:	Water		
Anaytical Method:	60,8260B		
Analytical Date:	10/12/07 16:58		
Analyst:	BS		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
Methylene chloride	ND		ug/l	5.0	1
1,1-Dichloroethane	ND		ug/l	0.75	1
Chloroform	ND		ug/l	0.75	1
Carbon tetrachloride	ND		ug/l	0.50	1
1,2-Dichloropropane	ND		ug/l	1.8	1
Dibromochloromethane	ND		ug/l	0.50	1
1,1,2-Trichloroethane	ND		ug/l	0.75	1
Tetrachloroethene	ND		ug/l	0.50	1
Chlorobenzene	ND		ug/l	0.50	1
1,2-Dichloroethane	ND		ug/l	0.50	1
1,1,1-Trichloroethane	ND		ug/l	0.50	1
Bromodichloromethane	ND		ug/l	0.50	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	1
Bromoform	ND		ug/l	2.0	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	1
Chloromethane	ND		ug/l	2.5	1
Vinyl chloride	ND		ug/l	1.0	1
Chloroethane	ND		ug/l	1.0	1
1,1-Dichloroethene	ND		ug/l	0.50	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	1
Trichloroethene	ND		ug/l	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.5	1
1,3-Dichlorobenzene	ND		ug/l	2.5	1
1,4-Dichlorobenzene	ND		ug/l	2.5	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	1
Dichlorodifluoromethane	ND		ug/l	5.0	1
2,2-Dichloropropane	ND		ug/l	2.5	1
1,2-Dibromoethane	ND		ug/l	2.0	1
1,3-Dichloropropane	ND		ug/l	2.5	1

Project Name: RAYTHEON WAYLAND **Lab Number:** L0714754

Project Number: 0061882 **Report Date:** 10/14/07

SAMPLE RESULTS

Lab ID:	L0714754-05	Date Collected:	09/28/07 13:10
Client ID:	TB-001-20071003-01	Date Received:	10/04/07
Sample Location:	WAYLAND, MA	Field Prep:	Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	1
o-Chlorotoluene	ND		ug/l	2.5	1
p-Chlorotoluene	ND		ug/l	2.5	1
Hexachlorobutadiene	ND		ug/l	0.60	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	96		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	102		70-130

Project Name: RAYTHEON WAYLAND **Lab Number:** L0714754

Project Number: 0061882 **Report Date:** 10/14/07

Method Blank Analysis
Batch Quality Control

Analytical Method: 60,8260B
Analytical Date: 10/12/07 11:07
Analyst: BS

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by MCP 8260B for sample(s): 01-05 Batch: WG297898-6				
Methylene chloride	ND		ug/l	5.0
1,1-Dichloroethane	ND		ug/l	0.75
Chloroform	ND		ug/l	0.75
Carbon tetrachloride	ND		ug/l	0.50
1,2-Dichloropropane	ND		ug/l	1.8
Dibromochloromethane	ND		ug/l	0.50
1,1,2-Trichloroethane	ND		ug/l	0.75
Tetrachloroethene	ND		ug/l	0.50
Chlorobenzene	ND		ug/l	0.50
Trichlorofluoromethane	ND		ug/l	2.5
1,2-Dichloroethane	ND		ug/l	0.50
1,1,1-Trichloroethane	ND		ug/l	0.50
Bromodichloromethane	ND		ug/l	0.50
trans-1,3-Dichloropropene	ND		ug/l	0.50
cis-1,3-Dichloropropene	ND		ug/l	0.50
1,1-Dichloropropene	ND		ug/l	2.5
Bromoform	ND		ug/l	2.0
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50
Benzene	ND		ug/l	0.50
Toluene	ND		ug/l	0.75
Ethylbenzene	ND		ug/l	0.50
Chloromethane	ND		ug/l	2.5
Bromomethane	ND		ug/l	1.0
Vinyl chloride	ND		ug/l	1.0
Chloroethane	ND		ug/l	1.0
1,1-Dichloroethene	ND		ug/l	0.50
trans-1,2-Dichloroethene	ND		ug/l	0.75
Trichloroethene	ND		ug/l	0.50
1,2-Dichlorobenzene	ND		ug/l	2.5
1,3-Dichlorobenzene	ND		ug/l	2.5
1,4-Dichlorobenzene	ND		ug/l	2.5

Project Name: RAYTHEON WAYLAND **Lab Number:** L0714754

Project Number: 0061882 **Report Date:** 10/14/07

Method Blank Analysis
Batch Quality Control

Analytical Method: 60,8260B
Analytical Date: 10/12/07 11:07
Analyst: BS

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by MCP 8260B for sample(s): 01-05 Batch: WG297898-6				
Methyl tert butyl ether	ND		ug/l	1.0
p/m-Xylene	ND		ug/l	1.0
o-Xylene	ND		ug/l	1.0
cis-1,2-Dichloroethene	ND		ug/l	0.50
Dibromomethane	ND		ug/l	5.0
1,2,3-Trichloropropane	ND		ug/l	5.0
Styrene	ND		ug/l	1.0
Dichlorodifluoromethane	ND		ug/l	5.0
Acetone	ND		ug/l	5.0
Carbon disulfide	ND		ug/l	5.0
2-Butanone	ND		ug/l	5.0
4-Methyl-2-pentanone	ND		ug/l	5.0
2-Hexanone	ND		ug/l	5.0
Bromochloromethane	ND		ug/l	2.5
Tetrahydrofuran	ND		ug/l	10
2,2-Dichloropropane	ND		ug/l	2.5
1,2-Dibromoethane	ND		ug/l	2.0
1,3-Dichloropropane	ND		ug/l	2.5
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50
Bromobenzene	ND		ug/l	2.5
n-Butylbenzene	ND		ug/l	0.50
sec-Butylbenzene	ND		ug/l	0.50
tert-Butylbenzene	ND		ug/l	2.5
o-Chlorotoluene	ND		ug/l	2.5
p-Chlorotoluene	ND		ug/l	2.5
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5
Hexachlorobutadiene	ND		ug/l	0.60
Isopropylbenzene	ND		ug/l	0.50
p-Isopropyltoluene	ND		ug/l	0.50
Naphthalene	ND		ug/l	2.5
n-Propylbenzene	ND		ug/l	0.50

Project Name: RAYTHEON WAYLAND **Lab Number:** L0714754

Project Number: 0061882 **Report Date:** 10/14/07

Method Blank Analysis
Batch Quality Control

Analytical Method: 60,8260B
Analytical Date: 10/12/07 11:07
Analyst: BS

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by MCP 8260B for sample(s): 01-05 Batch: WG297898-6				
1,2,3-Trichlorobenzene	ND		ug/l	2.5
1,2,4-Trichlorobenzene	ND		ug/l	2.5
1,3,5-Trimethylbenzene	ND		ug/l	2.5
1,2,4-Trimethylbenzene	ND		ug/l	2.5
Ethyl ether	ND		ug/l	2.5
Isopropyl Ether	ND		ug/l	2.0
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.0
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0
1,4-Dioxane	ND		ug/l	250

Tentatively Identified Compounds

No Tentatively Identified Compounds	ND	ug/l

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	97		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	101		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: RAYTHEON WAYLAND
Project Number: 0061882

Lab Number: L0714754
Report Date: 10/14/07

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B Associated sample(s): 01-05 Batch: WG297898-4 WG297898-5					
Methylene chloride	100	107	70-130	7	25
1,1-Dichloroethane	101	92	70-130	9	25
Chloroform	101	94	70-130	7	25
Carbon tetrachloride	108	96	70-130	12	25
1,2-Dichloropropane	99	95	70-130	4	25
Dibromochloromethane	99	93	70-130	6	25
1,1,2-Trichloroethane	99	97	70-130	2	25
Tetrachloroethene	109	97	70-130	12	25
Chlorobenzene	102	94	70-130	8	25
Trichlorofluoromethane	103	90	70-130	13	25
1,2-Dichloroethane	95	95	70-130	0	25
1,1,1-Trichloroethane	102	92	70-130	10	25
Bromodichloromethane	98	97	70-130	1	25
trans-1,3-Dichloropropene	100	97	70-130	3	25
cis-1,3-Dichloropropene	102	97	70-130	5	25
1,1-Dichloropropene	108	93	70-130	15	25
Bromoform	107	107	70-130	0	50
1,1,2,2-Tetrachloroethane	106	107	70-130	1	25
Benzene	102	94	70-130	8	25
Toluene	103	94	70-130	9	25
Ethylbenzene	105	95	70-130	10	25

Lab Control Sample Analysis
Batch Quality Control

Project Name: RAYTHEON WAYLAND
Project Number: 0061882

Lab Number: L0714754
Report Date: 10/14/07

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B Associated sample(s): 01-05 Batch: WG297898-4 WG297898-5					
Chloromethane	98	83	70-130	17	50
Bromomethane	103	93	70-130	10	50
Vinyl chloride	98	82	70-130	18	25
Chloroethane	102	89	70-130	14	25
1,1-Dichloroethene	105	92	70-130	13	25
trans-1,2-Dichloroethene	109	95	70-130	14	25
Trichloroethene	100	88	70-130	13	25
1,2-Dichlorobenzene	98	94	70-130	4	25
1,3-Dichlorobenzene	106	96	70-130	10	25
1,4-Dichlorobenzene	102	95	70-130	7	25
Methyl tert butyl ether	96	94	70-130	2	25
p/m-Xylene	109	99	70-130	10	25
o-Xylene	108	100	70-130	8	25
cis-1,2-Dichloroethene	105	98	70-130	7	25
Dibromomethane	99	97	70-130	2	25
1,2,3-Trichloropropane	103	106	70-130	3	25
Styrene	108	101	70-130	7	25
Dichlorodifluoromethane	78	**69**	70-130	12	50
Acetone	90	89	70-130	1	50
Carbon disulfide	96	81	70-130	17	25
2-Butanone	93	94	70-130	1	50

Lab Control Sample Analysis
Batch Quality Control

Project Name: RAYTHEON WAYLAND
Project Number: 0061882

Lab Number: L0714754
Report Date: 10/14/07

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B Associated sample(s): 01-05 Batch: WG297898-4 WG297898-5					
4-Methyl-2-pentanone	97	107	70-130	10	50
2-Hexanone	98	100	70-130	2	50
Bromochloromethane	101	98	70-130	3	25
Tetrahydrofuran	96	96	70-130	0	25
2,2-Dichloropropane	109	99	70-130	10	50
1,2-Dibromoethane	98	98	70-130	0	25
1,3-Dichloropropane	98	96	70-130	2	25
1,1,1,2-Tetrachloroethane	101	95	70-130	6	25
Bromobenzene	101	95	70-130	6	25
n-Butylbenzene	110	96	70-130	14	25
sec-Butylbenzene	111	96	70-130	14	25
tert-Butylbenzene	107	96	70-130	11	25
o-Chlorotoluene	101	94	70-130	7	25
p-Chlorotoluene	106	97	70-130	9	25
1,2-Dibromo-3-chloropropane	109	112	70-130	3	50
Hexachlorobutadiene	104	97	70-130	7	25
Isopropylbenzene	114	102	70-130	11	25
p-Isopropyltoluene	112	99	70-130	12	25
Naphthalene	98	97	70-130	1	25
n-Propylbenzene	108	96	70-130	12	25
1,2,3-Trichlorobenzene	98	98	70-130	0	25

Lab Control Sample Analysis
Batch Quality Control

Project Name: RAYTHEON WAYLAND
Project Number: 0061882
Lab Number: L0714754
Report Date: 10/14/07

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B Associated sample(s): 01-05 Batch: WG297898-4 WG297898-5					
1,2,4-Trichlorobenzene	102	98	70-130	4	25
1,3,5-Trimethylbenzene	104	94	70-130	10	25
1,2,4-Trimethylbenzene	103	96	70-130	7	25
Ethyl ether	93	91	70-130	2	25
Isopropyl Ether	93	91	70-130	2	25
Ethyl-Tert-Butyl-Ether	97	96	70-130	1	25
Tertiary-Amyl Methyl Ether	96	97	70-130	1	25
1,4-Dioxane	127	118	70-130	7	50

Surrogate	LCS %Recovery	Qualifier	LCSD %Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	94		98		70-130
Toluene-d8	101		101		70-130
4-Bromofluorobenzene	100		99		70-130
Dibromofluoromethane	96		100		70-130

METALS

Project Name:	RAYTHEON WAYLAND	**Lab Number:**	L0714754
Project Number:	0061882	**Report Date:**	10/14/07

SAMPLE RESULTS

Lab ID:	L0714754-01	Date Collected:	10/03/07 14:00
Client ID:	MW-210-20071003-01	Date Received:	10/04/07
Sample Location:	WAYLAND, MA	Field Prep:	Field Filtered
Matrix:	Water		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals by MCP 6000/7000 series										
Sodium, Dissolved	180		mg/l	2.0	1	10/08/07 16:30	10/09/07 18:05	EPA 3005A	60,6010B	AI

Project Name:	RAYTHEON WAYLAND	**Lab Number:**	L0714754
Project Number:	0061882	**Report Date:**	10/14/07

SAMPLE RESULTS

Lab ID:	L0714754-04	Date Collected:	10/03/07 14:40
Client ID:	MW-211-20071003-01	Date Received:	10/04/07
Sample Location:	WAYLAND, MA	Field Prep:	Field Filtered
Matrix:	Water		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals by MCP 6000/7000 series										
Sodium, Dissolved	68		mg/l	2.0	1	10/08/07 16:30	10/09/07 18:32	EPA 3005A	60,6010B	AI

Project Name: RAYTHEON WAYLAND **Lab Number:** L0714754

Project Number: 0061882 **Report Date:** 10/14/07

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Dissolved Metals by MCP 6000/7000 series for sample(s): 01,04 Batch: WG297218-1									
Sodium, Dissolved	ND		mg/l	2.0	1	10/08/07 16:30	10/09/07 16:25	60,6010B	AI

Prep Information

Digestion Method: EPA 3005A

Lab Control Sample Analysis

Batch Quality Control

Project Name: RAYTHEON WAYLAND

Project Number: 0061882

Lab Number: L0714754

Report Date: 10/14/07

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Dissolved Metals by MCP 6000/7000 series Associated sample(s): 01,04 Batch: WG297218-2 WG297218-3					
Sodium, Dissolved	96	95	80-120	1	20

Project Name: RAYTHEON WAYLAND
Project Number: 0061882

Lab Number: L0714754
Report Date: 10/14/07

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp	Pres	Seal	Analysis
L0714754-01A	Vial HCl preserved	A	N/A	2.4C	Y	Absent	MCP-8260-04
L0714754-01B	Vial HCl preserved	A	N/A	2.4C	Y	Absent	MCP-8260-04
L0714754-01C	Plastic 500ml HNO3 preserved	A	<2	2.4C	Y	Absent	MCP-NA-6010S
L0714754-02A	Vial Na2S2O3 preserved	A	N/A	2.4C	Y	Absent	MCP-8260-04
L0714754-02B	Vial Na2S2O3 preserved	A	N/A	2.4C	Y	Absent	MCP-8260-04
L0714754-03A	Vial Na2S2O3 preserved	A	N/A	2.4C	Y	Absent	MCP-8260-04
L0714754-03B	Vial Na2S2O3 preserved	A	N/A	2.4C	Y	Absent	MCP-8260-04
L0714754-04A	Vial HCl preserved	A	N/A	2.4C	Y	Absent	MCP-8260-04
L0714754-04B	Vial HCl preserved	A	N/A	2.4C	Y	Absent	MCP-8260-04
L0714754-04C	Plastic 500ml HNO3 preserved	A	<2	2.4C	Y	Absent	MCP-NA-6010S
L0714754-05A	Vial HCl preserved	A	N/A	2.4C	Y	Absent	MCP-8260-04
L0714754-05B	Vial HCl preserved	A	N/A	2.4C	Y	Absent	-

Project Name:	RAYTHEON WAYLAND	**Lab Number:**	L0714754
Project Number:	0061882	**Report Date:**	10/14/07

GLOSSARY

Acronyms

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.

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.

NI - Not Ignitable.

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.

ND - Not detected at the reported detection limit for the sample.

RDL - Reported Detection Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RDL 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.

Terms

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

The following data qualifiers have been identified for use under the CT DEP Reasonable Confidence Protocols.

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.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

J - Estimated value. The analyte was tentatively identified; the quantitation is an estimation. (Tentatively identified compounds only.)

Standard Qualifiers

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

Report Format: Not Specified

Project Name: RAYTHEON WAYLAND **Lab Number:** L0714754
Project Number: 0061882 **Report Date:** 10/14/07

REFERENCES

60 Quality Assurance and Quality Control Requirements and Performance Standards for SW-846 Methods. MADEP BWSC. WSC-CAM-IIA (Revision 4), WSC-CAM-V C (Revision 2), WSC-CAM-IIIA (Revision 5). May 2004.

LIMITATION OF LIABILITIES

Alpha Woods Hole Labs 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 Woods Hole Labs shall be to re-perform the work at it's own expense. In no event shall Alpha Woods Hole Labs 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 Woods Hole Labs.

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.

CHAIN OF CUSTODY

PAGE 1 OF 1

Date Rec'd in Lab: 10/4/07

ALPHA Job #: L0714754

ALPHA LABS
WESTBORO, MA TEL: 508-898-9220 FAX: 508-898-9193
RAYNHAM, MA TEL: 508-822-9300 FAX: 508-822-3288

Client Information

Client: ERM
Address: 399 BOYLSTON ST
BOSTON, MA 02116
Phone: 617-646-7800
Fax: 617-267-6447
Email: JEREMY.PICARD@ERM.COM
☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: RAYTHEON, WAYLAND
Project Location: WAYLAND, MA
Project #: 0001882
Project Manager: JEREMY PICARD
ALPHA Quote #:

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved!)
Date Due: 10/11/07 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	Criteria
MCP	GW-1

MA MCP PRESUMPTIVE CERTAINTY --- CT REASONABLE CONFIDENCE PROTOCOLS

☒ Yes ☐ No Are MCP Analytical Methods Required?
☐ Yes ☒ No Are CT RCP (Reasonable Confidence Protocols) Required?

Other Project Specific Requirements/Comments/Detection Limits:

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	8021C (HCL)	DISS NA 8021C (thiosulfate)	Sample Specific Comments	Total # Bottles
14754-01	MW-210-20071003-01	10/3/07	14:00	GW	JM	2	1		3
-02	MW-105-20071003-01	10/3/07	1510	GW	JA		2		2
-03	MW-105M-20071003-01	10/3/07	1540	GW	JA		2		2
-04	MW-211-20071003-01	10/3/07	1440	GW	JA	2	1		3
-05	TB-001-20071003-01	9/28/07	13:10	GW	SLR	1			1

Container Type	V	P	V
Preservative	B	C	A

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT MA MCP or CT RCP?

Relinquished By:	Date/Time	Received By:	Date/Time
Don Bauhe	10/4/07 11:25	Don Bauhe	10/4/07 1127
Don Bauhe	10/4/07 17:45	Jason MW	10/4/07 17:45

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 Payment Terms. See reverse side.

FORM NO: 01-01 (rev. 10-OCT-05)

10140721:23

ANALYTICAL REPORT

Lab Number:	L0714751
Client:	ERM-New England 399 Boylston Street 6th Floor Boston, MA 02116
ATTN:	Jeremy Picard
Project Name:	RAYTHEON WAYLAND
Project Number:	0061882
Report Date:	10/14/07

Certifications & Approvals: MA (M-MA086), NY NELAC (11148), CT (PH-0574), NH (200305), NJ (MA935), RI (LAO00065), ME (2006012), PA (Registration #68-03671), USDA (Permit #S-72578), US Army Corps of Engineers, Naval FESC.

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: 0061882

Lab Number: L0714751
Report Date: 10/14/07

Alpha Sample ID	Client ID	Sample Location
L0714751-01	MW-208M-20071003-01	WAYLAND, MA
L0714751-02	MW-202M-20071003-01	WAYLAND, MA

Project Name:	RAYTHEON WAYLAND	**Lab Number:**	L0714751
Project Number:	0061882	**Report Date:**	10/14/07

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, B, C & D is required for "Presumptive Certainty" status		
A	Were all samples received by the laboratory in a condition consistent with those described on their Chain-of-Custody documentation for the data set?	YES
B	Were all QA/QC procedures required for the specified analytical methods(s) included in this report followed, including the requirement to note and discuss in a narrative QC data that did not meet appropriate performance standards or guidelines?	YES
C	Does the analytical data included in this report meet all the requirements for "Presumptive Certainty", as described in section 2.0 of the MADEP document CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	YES
D	VPH and EPH methods only: Was the VPH or EPH method run without significant modifications, as specified in Section 11.3?	N/A

A response to questions E and F is required for "Presumptive Certainty" status		
E	Were all QC performance standards and recommendations for the specified method(s) achieved?	NO
F	Were results for all analyte-list compounds/elements for the specified method(s) reported?	NO

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:** L0714751
Project Number: 0061882 **Report Date:** 10/14/07

Case Narrative

The samples were received in accordance with the chain of custody and no significant deviations were encountered during preparation or analysis unless otherwise noted below.

MCP Related Narratives

Sample Receipt

The samples were Field Filtered for Dissolved Metals only.

Volatile Organics

L0714751-02 has elevated detection limits due to the dilution required by the elevated concentrations of target compounds in the sample.

In reference to question E:

The WG298006-4 LCSD % recovery for Dichlorodifluoromethane, a difficult analyte, is below the individual acceptance criteria for the compound, but within the overall method allowances.

In reference to question F:

At the client's request, all submitted samples were not analyzed for the full MCP list of compounds specified for the Method.

Metals

In reference to question F:

At the client's request, all submitted samples were not analyzed for the full MCP list of compounds specified for the Method.

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: Michelle M. Morris

Title: Technical Director/Representative Date: 10/14/07

ORGANICS

VOLATILES

Project Name: RAYTHEON WAYLAND **Lab Number:** L0714751

Project Number: 0061882 **Report Date:** 10/14/07

SAMPLE RESULTS

Lab ID:	L0714751-01	Date Collected:	10/03/07 15:25
Client ID:	MW-208M-20071003-01	Date Received:	10/04/07
Sample Location:	WAYLAND, MA	Field Prep:	None
Matrix:	Water		
Anaytical Method:	60,8260B		
Analytical Date:	10/12/07 17:37		
Analyst:	BS		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
Methylene chloride	ND		ug/l	5.0	1
1,1-Dichloroethane	1.6		ug/l	0.75	1
Chloroform	ND		ug/l	0.75	1
Carbon tetrachloride	ND		ug/l	0.50	1
1,2-Dichloropropane	ND		ug/l	1.8	1
Dibromochloromethane	ND		ug/l	0.50	1
1,1,2-Trichloroethane	ND		ug/l	0.75	1
Tetrachloroethene	ND		ug/l	0.50	1
Chlorobenzene	ND		ug/l	0.50	1
1,2-Dichloroethane	ND		ug/l	0.50	1
1,1,1-Trichloroethane	ND		ug/l	0.50	1
Bromodichloromethane	ND		ug/l	0.50	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	1
Bromoform	ND		ug/l	2.0	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	1
Chloromethane	ND		ug/l	2.5	1
Vinyl chloride	ND		ug/l	1.0	1
Chloroethane	ND		ug/l	1.0	1
1,1-Dichloroethene	0.59		ug/l	0.50	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	1
Trichloroethene	8.3		ug/l	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.5	1
1,3-Dichlorobenzene	ND		ug/l	2.5	1
1,4-Dichlorobenzene	ND		ug/l	2.5	1
cis-1,2-Dichloroethene	1.0		ug/l	0.50	1
Dichlorodifluoromethane	ND		ug/l	5.0	1
2,2-Dichloropropane	ND		ug/l	2.5	1
1,2-Dibromoethane	ND		ug/l	2.0	1
1,3-Dichloropropane	ND		ug/l	2.5	1

Project Name: RAYTHEON WAYLAND **Lab Number:** L0714751

Project Number: 0061882 **Report Date:** 10/14/07

SAMPLE RESULTS

Lab ID:	L0714751-01	Date Collected:	10/03/07 15:25
Client ID:	MW-208M-20071003-01	Date Received:	10/04/07
Sample Location:	WAYLAND, MA	Field Prep:	None

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	1
o-Chlorotoluene	ND		ug/l	2.5	1
p-Chlorotoluene	ND		ug/l	2.5	1
Hexachlorobutadiene	ND		ug/l	0.60	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	1
1,4-Dioxane	ND		ug/l	250	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	96		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	79		70-130

Project Name: RAYTHEON WAYLAND **Lab Number:** L0714751

Project Number: 0061882 **Report Date:** 10/14/07

SAMPLE RESULTS

Lab ID:	L0714751-02	Date Collected:	10/03/07 09:05
Client ID:	MW-202M-20071003-01	Date Received:	10/04/07
Sample Location:	WAYLAND, MA	Field Prep:	Field Filtered
Matrix:	Water		
Anaytical Method:	60,8260B		
Analytical Date:	10/12/07 18:16		
Analyst:	BS		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
Methylene chloride	ND		ug/l	25	5
1,1-Dichloroethane	ND		ug/l	3.8	5
Chloroform	ND		ug/l	3.8	5
Carbon tetrachloride	ND		ug/l	2.5	5
1,2-Dichloropropane	ND		ug/l	8.8	5
Dibromochloromethane	ND		ug/l	2.5	5
1,1,2-Trichloroethane	ND		ug/l	3.8	5
Tetrachloroethene	ND		ug/l	2.5	5
Chlorobenzene	ND		ug/l	2.5	5
1,2-Dichloroethane	ND		ug/l	2.5	5
1,1,1-Trichloroethane	14		ug/l	2.5	5
Bromodichloromethane	ND		ug/l	2.5	5
trans-1,3-Dichloropropene	ND		ug/l	2.5	5
cis-1,3-Dichloropropene	ND		ug/l	2.5	5
Bromoform	ND		ug/l	10	5
1,1,2,2-Tetrachloroethane	ND		ug/l	2.5	5
Chloromethane	ND		ug/l	12	5
Vinyl chloride	ND		ug/l	5.0	5
Chloroethane	ND		ug/l	5.0	5
1,1-Dichloroethene	ND		ug/l	2.5	5
trans-1,2-Dichloroethene	ND		ug/l	3.8	5
Trichloroethene	50		ug/l	2.5	5
1,2-Dichlorobenzene	ND		ug/l	12	5
1,3-Dichlorobenzene	ND		ug/l	12	5
1,4-Dichlorobenzene	ND		ug/l	12	5
cis-1,2-Dichloroethene	ND		ug/l	2.5	5
Dichlorodifluoromethane	ND		ug/l	25	5
2,2-Dichloropropane	ND		ug/l	12	5
1,2-Dibromoethane	ND		ug/l	10	5
1,3-Dichloropropane	ND		ug/l	12	5

Project Name: RAYTHEON WAYLAND **Lab Number:** L0714751

Project Number: 0061882 **Report Date:** 10/14/07

SAMPLE RESULTS

Lab ID:	L0714751-02	Date Collected:	10/03/07 09:05
Client ID:	MW-202M-20071003-01	Date Received:	10/04/07
Sample Location:	WAYLAND, MA	Field Prep:	Field Filtered

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	5
o-Chlorotoluene	ND		ug/l	12	5
p-Chlorotoluene	ND		ug/l	12	5
Hexachlorobutadiene	ND		ug/l	3.0	5
1,2,4-Trichlorobenzene	ND		ug/l	12	5
1,4-Dioxane	ND		ug/l	1200	5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	101		70-130

Project Name: RAYTHEON WAYLAND **Lab Number:** L0714751

Project Number: 0061882 **Report Date:** 10/14/07

Method Blank Analysis
Batch Quality Control

Analytical Method: 60,8260B
Analytical Date: 10/12/07 11:07
Analyst: BS

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by MCP 8260B for sample(s): 01-02 Batch: WG298006-5				
Methylene chloride	ND		ug/l	5.0
1,1-Dichloroethane	ND		ug/l	0.75
Chloroform	ND		ug/l	0.75
Carbon tetrachloride	ND		ug/l	0.50
1,2-Dichloropropane	ND		ug/l	1.8
Dibromochloromethane	ND		ug/l	0.50
1,1,2-Trichloroethane	ND		ug/l	0.75
Tetrachloroethene	ND		ug/l	0.50
Chlorobenzene	ND		ug/l	0.50
1,2-Dichloroethane	ND		ug/l	0.50
1,1,1-Trichloroethane	ND		ug/l	0.50
Bromodichloromethane	ND		ug/l	0.50
trans-1,3-Dichloropropene	ND		ug/l	0.50
cis-1,3-Dichloropropene	ND		ug/l	0.50
Bromoform	ND		ug/l	2.0
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50
Chloromethane	ND		ug/l	2.5
Vinyl chloride	ND		ug/l	1.0
Chloroethane	ND		ug/l	1.0
1,1-Dichloroethene	ND		ug/l	0.50
trans-1,2-Dichloroethene	ND		ug/l	0.75
Trichloroethene	ND		ug/l	0.50
1,2-Dichlorobenzene	ND		ug/l	2.5
1,3-Dichlorobenzene	ND		ug/l	2.5
1,4-Dichlorobenzene	ND		ug/l	2.5
cis-1,2-Dichloroethene	ND		ug/l	0.50
Dichlorodifluoromethane	ND		ug/l	5.0
2,2-Dichloropropane	ND		ug/l	2.5
1,2-Dibromoethane	ND		ug/l	2.0
1,3-Dichloropropane	ND		ug/l	2.5
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50

Project Name: RAYTHEON WAYLAND **Lab Number:** L0714751

Project Number: 0061882 **Report Date:** 10/14/07

Method Blank Analysis
Batch Quality Control

Analytical Method: 60,8260B
Analytical Date: 10/12/07 11:07
Analyst: BS

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by MCP 8260B for sample(s): 01-02 Batch: WG298006-5				
o-Chlorotoluene	ND		ug/l	2.5
p-Chlorotoluene	ND		ug/l	2.5
Hexachlorobutadiene	ND		ug/l	0.60
1,2,4-Trichlorobenzene	ND		ug/l	2.5
1,4-Dioxane	ND		ug/l	250

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	97		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	101		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: RAYTHEON WAYLAND
Project Number: 0061882

Lab Number: L0714751
Report Date: 10/14/07

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B Associated sample(s): 01-02 Batch: WG298006-3 WG298006-4					
Methylene chloride	100	107	70-130	7	25
1,1-Dichloroethane	101	92	70-130	9	25
Chloroform	101	94	70-130	7	25
Carbon tetrachloride	108	96	70-130	12	25
1,2-Dichloropropane	99	95	70-130	4	25
Dibromochloromethane	99	93	70-130	6	25
1,1,2-Trichloroethane	99	97	70-130	2	25
Tetrachloroethene	109	97	70-130	12	25
Chlorobenzene	102	94	70-130	8	25
1,2-Dichloroethane	95	95	70-130	0	25
1,1,1-Trichloroethane	102	92	70-130	10	25
Bromodichloromethane	98	97	70-130	1	25
trans-1,3-Dichloropropene	100	97	70-130	3	25
cis-1,3-Dichloropropene	102	97	70-130	5	25
Bromoform	107	107	70-130	0	50
1,1,2,2-Tetrachloroethane	106	107	70-130	1	25
Chloromethane	98	83	70-130	17	50
Vinyl chloride	98	82	70-130	18	25
Chloroethane	102	89	70-130	14	25
1,1-Dichloroethene	105	92	70-130	13	25
trans-1,2-Dichloroethene	109	95	70-130	14	25

Lab Control Sample Analysis
Batch Quality Control

Project Name: RAYTHEON WAYLAND
Project Number: 0061882

Lab Number: L0714751
Report Date: 10/14/07

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B Associated sample(s): 01-02 Batch: WG298006-3 WG298006-4					
Trichloroethene	100	88	70-130	13	25
1,2-Dichlorobenzene	98	94	70-130	4	25
1,3-Dichlorobenzene	106	96	70-130	10	25
1,4-Dichlorobenzene	102	95	70-130	7	25
cis-1,2-Dichloroethene	105	98	70-130	7	25
Dichlorodifluoromethane	78	**69**	70-130	12	50
2,2-Dichloropropane	109	99	70-130	10	50
1,2-Dibromoethane	98	98	70-130	0	25
1,3-Dichloropropane	98	96	70-130	2	25
1,1,1,2-Tetrachloroethane	101	95	70-130	6	25
o-Chlorotoluene	101	94	70-130	7	25
p-Chlorotoluene	106	97	70-130	9	25
Hexachlorobutadiene	104	97	70-130	7	25
1,2,4-Trichlorobenzene	102	98	70-130	4	25
1,4-Dioxane	127	118	70-130	7	50

Lab Control Sample Analysis

Batch Quality Control

Project Name: RAYTHEON WAYLAND

Project Number: 0061882

Lab Number: L0714751

Report Date: 10/14/07

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B Associated sample(s): 01-02 Batch: WG298006-3 WG298006-4					

Surrogate	LCS %Recovery	Qualifier	LCSD %Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	94		98		70-130
Toluene-d8	101		101		70-130
4-Bromofluorobenzene	100		99		70-130
Dibromofluoromethane	96		100		70-130

Matrix Spike Analysis
Batch Quality Control

Project Name: RAYTHEON WAYLAND
Project Number: 0061882

Lab Number: L0714751
Report Date: 10/14/07

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B Associated sample(s): 01-02 QC Batch ID: WG298006-1 WG298006-2 QC Sample: L0714751-02 Client ID: MW-202M-20071003-01									
Methylene chloride	ND	50	62	119	54	105	70-130	13	30
1,1-Dichloroethane	ND	50	54	108	52	105	70-130	3	30
Chloroform	ND	50	56	113	54	107	70-130	5	30
Carbon tetrachloride	ND	50	53	107	51	103	70-130	4	30
1,2-Dichloropropane	ND	50	55	109	53	106	70-130	3	30
Dibromochloromethane	ND	50	50	100	51	102	70-130	2	30
1,1,2-Trichloroethane	ND	50	52	104	50	99	70-130	5	30
Tetrachloroethene	ND	50	53	106	51	102	70-130	4	30
Chlorobenzene	ND	50	53	106	51	103	70-130	3	30
1,2-Dichloroethane	ND	50	53	106	52	103	70-130	3	30
1,1,1-Trichloroethane	14	50	66	102	64	98	70-130	4	30
Bromodichloromethane	ND	50	54	108	53	107	70-130	1	30
trans-1,3-Dichloropropene	ND	50	50	100	50	100	70-130	0	30
cis-1,3-Dichloropropene	ND	50	52	104	51	103	70-130	1	30
Bromoform	ND	50	55	111	57	113	70-130	2	30
1,1,2,2-Tetrachloroethane	ND	50	58	116	57	115	70-130	1	30
Chloromethane	ND	50	50	101	49	99	70-130	2	30
Vinyl chloride	ND	50	51	103	49	98	70-130	5	30
Chloroethane	ND	50	54	107	51	102	70-130	5	30
1,1-Dichloroethene	ND	50	57	114	54	108	70-130	5	30
trans-1,2-Dichloroethene	ND	50	53	107	52	104	70-130	3	30

Matrix Spike Analysis
Batch Quality Control

Project Name: RAYTHEON WAYLAND
Project Number: 0061882

Lab Number: L0714751
Report Date: 10/14/07

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B Associated sample(s): 01-02 QC Batch ID: WG298006-1 WG298006-2 QC Sample: L0714751-02 Client ID: MW-202M-20071003-01									
Trichloroethene	50	50	91	81	86	71	70-130	13	30
1,2-Dichlorobenzene	ND	50	51	102	50	100	70-130	2	30
1,3-Dichlorobenzene	ND	50	54	107	53	105	70-130	2	30
1,4-Dichlorobenzene	ND	50	51	102	50	101	70-130	1	30
cis-1,2-Dichloroethene	ND	50	55	109	54	108	70-130	1	30
Dichlorodifluoromethane	ND	50	49	98	46	93	70-130	5	30
2,2-Dichloropropane	ND	50	56	111	54	108	70-130	3	30
1,2-Dibromoethane	ND	50	52	104	50	99	70-130	5	30
1,3-Dichloropropane	ND	50	52	104	51	102	70-130	2	30
1,1,1,2-Tetrachloroethane	ND	50	51	103	51	103	70-130	0	30
o-Chlorotoluene	ND	50	52	104	50	100	70-130	4	30
p-Chlorotoluene	ND	50	52	103	51	102	70-130	1	30
Hexachlorobutadiene	ND	50	48	97	50	101	70-130	4	30
1,2,4-Trichlorobenzene	ND	50	50	99	49	98	70-130	1	30
1,4-Dioxane	ND	5000	4700	94	6100	122	70-130	26	30

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	97		97		70-130
4-Bromofluorobenzene	97		97		70-130
Dibromofluoromethane	104		103		70-130
Toluene-d8	97		98		70-130

METALS

Project Name:	RAYTHEON WAYLAND	**Lab Number:**	L0714751
Project Number:	0061882	**Report Date:**	10/14/07

SAMPLE RESULTS

Lab ID:	L0714751-02	Date Collected:	10/03/07 09:05
Client ID:	MW-202M-20071003-01	Date Received:	10/04/07
Sample Location:	WAYLAND, MA	Field Prep:	Field Filtered
Matrix:	Water		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals by MCP 6000/7000 series										
Sodium, Dissolved	17		mg/l	2.0	1	10/10/07 17:30	10/11/07 09:56	EPA 3005A	60,6010B	AI

Project Name: RAYTHEON WAYLAND **Lab Number:** L0714751

Project Number: 0061882 **Report Date:** 10/14/07

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Dissolved Metals by MCP 6000/7000 series for sample(s): 02 Batch: WG297588-3									
Sodium, Dissolved	ND		mg/l	2.0	1	10/10/07 17:30	10/11/07 09:42	60,6010B	AI

Prep Information

Digestion Method: EPA 3005A

Lab Control Sample Analysis

Batch Quality Control

Project Name: RAYTHEON WAYLAND

Project Number: 0061882

Lab Number: L0714751

Report Date: 10/14/07

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Dissolved Metals by MCP 6000/7000 series Associated sample(s): 02 Batch: WG297588-4 WG297588-5					
Sodium, Dissolved	98	98	80-120	0	20

Matrix Spike Analysis
Batch Quality Control

Project Name: RAYTHEON WAYLAND
Project Number: 0061882

Lab Number: L0714751
Report Date: 10/14/07

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Dissolved Metals by MCP 6000/7000 series Associated sample(s): 02 QC Batch ID: WG297588-1 WG297588-2 QC Sample: L0714751-02 Client ID: MW-202M-20071003-01									
Sodium, Dissolved	17	10	28	110	28	110	75-125	0	20

Project Name: RAYTHEON WAYLAND
Project Number: 0061882

Lab Number: L0714751
Report Date: 10/14/07

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp	Pres	Seal	Analysis
L0714751-01A	Vial Na2S2O3 preserved	A	N/A	2.4 C	Y	Absent	MCP-8260-04
L0714751-01B	Vial Na2S2O3 preserved	A	N/A	2.4 C	Y	Absent	MCP-8260-04
L0714751-02A	Vial HCl preserved	A	N/A	2.4 C	Y	Absent	MCP-8260-04
L0714751-02B	Vial HCl preserved	A	N/A	2.4 C	Y	Absent	MCP-8260-04
L0714751-02C	Vial HCl preserved	A	N/A	2.4 C	Y	Absent	MCP-8260-04
L0714751-02D	Vial HCl preserved	A	N/A	2.4 C	Y	Absent	MCP-8260-04
L0714751-02E	Vial HCl preserved	A	N/A	2.4 C	Y	Absent	MCP-8260-04
L0714751-02F	Vial HCl preserved	A	N/A	2.4 C	Y	Absent	MCP-8260-04
L0714751-02G	Plastic 250ml HNO3 preserved	A	<2	2.4 C	Y	Absent	MCP-NA-6010S
L0714751-02H	Plastic 250ml HNO3 preserved	A	<2	2.4 C	Y	Absent	MCP-NA-6010S
L0714751-02I	Plastic 250ml HNO3 preserved	A	<2	2.4 C	Y	Absent	MCP-NA-6010S

Project Name:	RAYTHEON WAYLAND	**Lab Number:**	L0714751
Project Number:	0061882	**Report Date:**	10/14/07

GLOSSARY

Acronyms

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.

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.

NI - Not Ignitable.

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.

ND - Not detected at the reported detection limit for the sample.

RDL - Reported Detection Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RDL 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.

Terms

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

The following data qualifiers have been identified for use under the CT DEP Reasonable Confidence Protocols.

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.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

J - Estimated value. The analyte was tentatively identified; the quantitation is an estimation. (Tentatively identified compounds only.)

Standard Qualifiers

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

Project Name: RAYTHEON WAYLAND **Lab Number:** L0714751
Project Number: 0061882 **Report Date:** 10/14/07

REFERENCES

60 Quality Assurance and Quality Control Requirements and Performance Standards for SW-846 Methods. MADEP BWSC. WSC-CAM-IIA (Revision 4), WSC-CAM-V C (Revision 2), WSC-CAM-IIIA (Revision 5). May 2004.

LIMITATION OF LIABILITIES

Alpha Woods Hole Labs 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 Woods Hole Labs shall be to re-perform the work at it's own expense. In no event shall Alpha Woods Hole Labs 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 Woods Hole Labs.

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.

10140721:24

CHAIN OF CUSTODY

PAGE 1 OF 1

ALPHA WOODS HOLE LABS

WESTBORO, MA TEL: 508-898-9220 FAX: 508-898-9193

RAYNHAM, MA TEL: 508-822-9300 FAX: 508-822-3288

Date Rec'd in Lab: 10/4

ALPHA Job #: L0714751

Client Information

Client: FRM

Address: 399 Boylston St 6th Floor Boston MA 02116

Phone 617-6946-7800

Fax: 617 367-6447

Email: jeremy.picard@erm.com

☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: Raytheon Wayland

Project Location: Wayland, MA

Project #: 0061882

Project Manager: J. Picard

ALPHA Quote #:

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved!)

Date Due: 10/11 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	Criteria
MCP	GW-1

MA MCP PRESUMPTIVE CERTAINTY --- CT REASONABLE CONFIDENCE PROTOCOLS

☒ Yes ☐ No Are MCP Analytical Methods Required?

☐ Yes ☒ No Are CT RCP (Reasonable Confidence Protocols) Required?

Other Project Specific Requirements/Comments/Detection Limits:

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	8021c (HCl)	Diss Na	8021c (Na2S2O3) 1,4-Dioxane	Sample Specific Comments	Total # Bottles
4751.1	MW-208M-20071003-01	10/3/07	15:25	GW	CR4			2		2
2	MW-202M-20071003-01	10/03/07	9:05	GW	MS	2	1		w/ 1,4-Dioxane	3
2	MW-202M-20071003-01-MS	10/03/07	9:05	GW	MS	2	1			3
2	MW-202M-20071003-01-MSD	10/03/07	9:05	GW	MS	2	1			3

SAMPLE HANDLING

Filtration
☐ Done
☐ Not needed
☐ Lab to do

Preservation
☐ Lab to do

(Please specify below)

Container Type	V	P	V
Preservative	B	C	H

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT MA MCP or CT RCP?

Relinquished By:	Date/Time	Received By:	Date/Time
Don Bowles	10/4/07 11:25	Don Bowles	10/4/07 1127
Don Bowles	10/4/07 1745		10/4 1745

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 Payment Terms. See reverse side.

FORM NO: 01-01 (rev. 10-OCT-05)

ANALYTICAL REPORT

Lab Number:	L0714749
Client:	ERM-New England 399 Boylston Street 6th Floor Boston, MA 02116
ATTN:	Jeremy Picard
Project Name:	RAYTHEON WAYLAND
Project Number:	0061882
Report Date:	10/14/07

Certifications & Approvals: MA (M-MA086), NY NELAC (11148), CT (PH-0574), NH (200305), NJ (MA935), RI (LAO00065), ME (2006012), PA (Registration #68-03671), USDA (Permit #S-72578), US Army Corps of Engineers, Naval FESC.

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: 0061882

Lab Number: L0714749
Report Date: 10/14/07

Alpha Sample ID	Client ID	Sample Location
L0714749-01	MW-103-20071003-01	WAYLAND, MA
L0714749-02	MW-213-20071003-01	WAYLAND, MA
L0714749-03	MW-118-20071003-01	WAYLAND, MA
L0714749-04	MW-404-20071003-01	WAYLAND, MA
L0714749-05	MW-214-20071003-01	WAYLAND, MA

Project Name:	RAYTHEON WAYLAND	**Lab Number:**	L0714749
Project Number:	0061882	**Report Date:**	10/14/07

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, B, C & D is required for "Presumptive Certainty" status		
A	Were all samples received by the laboratory in a condition consistent with those described on their Chain-of-Custody documentation for the data set?	YES
B	Were all QA/QC procedures required for the specified analytical methods(s) included in this report followed, including the requirement to note and discuss in a narrative QC data that did not meet appropriate performance standards or guidelines?	YES
C	Does the analytical data included in this report meet all the requirements for "Presumptive Certainty", as described in section 2.0 of the MADEP document CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	YES
D	VPH and EPH methods only: Was the VPH or EPH method run without significant modifications, as specified in Section 11.3?	N/A

A response to questions E and F is required for "Presumptive Certainty" status		
E	Were all QC performance standards and recommendations for the specified method(s) achieved?	NO
F	Were results for all analyte-list compounds/elements for the specified method(s) reported?	NO

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:** L0714749
Project Number: 0061882 **Report Date:** 10/14/07

Case Narrative

The samples were received in accordance with the chain of custody and no significant deviations were encountered during preparation or analysis unless otherwise noted below.

Sample Receipt

The samples were Field Filtered for Dissolved Metals only.

MCP Related Narratives

Volatile Organics

In reference to question E:

The WG297898-4/5 LCSD % recovery for Dichlorodifluoromethane, a difficult analyte, is below the individual acceptance criteria for the compound, but within the overall method allowances.

In reference to question F:

At the client's request, all submitted samples were not analyzed for the full MCP list of compounds specified for the Method.

Metals

In reference to question F:

At the client's request, all submitted samples were not analyzed for the full MCP list of compounds specified for the Method.

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: Michelle M. Morris

Title: Technical Director/Representative Date: 10/14/07

ORGANICS

VOLATILES

Project Name: RAYTHEON WAYLAND **Lab Number:** L0714749

Project Number: 0061882 **Report Date:** 10/14/07

SAMPLE RESULTS

Lab ID:	L0714749-01	Date Collected:	10/03/07 10:30
Client ID:	MW-103-20071003-01	Date Received:	10/04/07
Sample Location:	WAYLAND, MA	Field Prep:	Field Filtered
Matrix:	Water		
Anaytical Method:	60,8260B		
Analytical Date:	10/12/07 20:13		
Analyst:	BS		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
Methylene chloride	ND		ug/l	5.0	1
1,1-Dichloroethane	ND		ug/l	0.75	1
Chloroform	ND		ug/l	0.75	1
Carbon tetrachloride	ND		ug/l	0.50	1
1,2-Dichloropropane	ND		ug/l	1.8	1
Dibromochloromethane	ND		ug/l	0.50	1
1,1,2-Trichloroethane	ND		ug/l	0.75	1
Tetrachloroethene	ND		ug/l	0.50	1
Chlorobenzene	ND		ug/l	0.50	1
1,2-Dichloroethane	ND		ug/l	0.50	1
1,1,1-Trichloroethane	ND		ug/l	0.50	1
Bromodichloromethane	ND		ug/l	0.50	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	1
Bromoform	ND		ug/l	2.0	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	1
Chloromethane	ND		ug/l	2.5	1
Vinyl chloride	ND		ug/l	1.0	1
Chloroethane	ND		ug/l	1.0	1
1,1-Dichloroethene	ND		ug/l	0.50	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	1
Trichloroethene	0.81		ug/l	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.5	1
1,3-Dichlorobenzene	ND		ug/l	2.5	1
1,4-Dichlorobenzene	ND		ug/l	2.5	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	1
Dichlorodifluoromethane	ND		ug/l	5.0	1
2,2-Dichloropropane	ND		ug/l	2.5	1
1,2-Dibromoethane	ND		ug/l	2.0	1
1,3-Dichloropropane	ND		ug/l	2.5	1

Project Name: RAYTHEON WAYLAND **Lab Number:** L0714749

Project Number: 0061882 **Report Date:** 10/14/07

SAMPLE RESULTS

Lab ID:	L0714749-01	Date Collected:	10/03/07 10:30
Client ID:	MW-103-20071003-01	Date Received:	10/04/07
Sample Location:	WAYLAND, MA	Field Prep:	Field Filtered

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	1
o-Chlorotoluene	ND		ug/l	2.5	1
p-Chlorotoluene	ND		ug/l	2.5	1
Hexachlorobutadiene	ND		ug/l	0.60	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	97		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	103		70-130

Project Name: RAYTHEON WAYLAND **Lab Number:** L0714749

Project Number: 0061882 **Report Date:** 10/14/07

SAMPLE RESULTS

Lab ID:	L0714749-02	Date Collected:	10/03/07 11:55
Client ID:	MW-213-20071003-01	Date Received:	10/04/07
Sample Location:	WAYLAND, MA	Field Prep:	Not Specified
Matrix:	Water		
Anaytical Method:	60,8260B		
Analytical Date:	10/12/07 20:32		
Analyst:	BS		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
Methylene chloride	ND		ug/l	5.0	1
1,1-Dichloroethane	ND		ug/l	0.75	1
Chloroform	ND		ug/l	0.75	1
Carbon tetrachloride	ND		ug/l	0.50	1
1,2-Dichloropropane	ND		ug/l	1.8	1
Dibromochloromethane	ND		ug/l	0.50	1
1,1,2-Trichloroethane	ND		ug/l	0.75	1
Tetrachloroethene	ND		ug/l	0.50	1
Chlorobenzene	ND		ug/l	0.50	1
1,2-Dichloroethane	ND		ug/l	0.50	1
1,1,1-Trichloroethane	ND		ug/l	0.50	1
Bromodichloromethane	ND		ug/l	0.50	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	1
Bromoform	ND		ug/l	2.0	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	1
Chloromethane	ND		ug/l	2.5	1
Vinyl chloride	ND		ug/l	1.0	1
Chloroethane	ND		ug/l	1.0	1
1,1-Dichloroethene	ND		ug/l	0.50	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	1
Trichloroethene	1.8		ug/l	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.5	1
1,3-Dichlorobenzene	ND		ug/l	2.5	1
1,4-Dichlorobenzene	ND		ug/l	2.5	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	1
Dichlorodifluoromethane	ND		ug/l	5.0	1
2,2-Dichloropropane	ND		ug/l	2.5	1
1,2-Dibromoethane	ND		ug/l	2.0	1
1,3-Dichloropropane	ND		ug/l	2.5	1

Project Name: RAYTHEON WAYLAND **Lab Number:** L0714749

Project Number: 0061882 **Report Date:** 10/14/07

SAMPLE RESULTS

Lab ID:	L0714749-02	Date Collected:	10/03/07 11:55
Client ID:	MW-213-20071003-01	Date Received:	10/04/07
Sample Location:	WAYLAND, MA	Field Prep:	Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	1
o-Chlorotoluene	ND		ug/l	2.5	1
p-Chlorotoluene	ND		ug/l	2.5	1
Hexachlorobutadiene	ND		ug/l	0.60	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	105		70-130

Project Name: RAYTHEON WAYLAND **Lab Number:** L0714749

Project Number: 0061882 **Report Date:** 10/14/07

SAMPLE RESULTS

Lab ID:	L0714749-03	Date Collected:	10/03/07 13:25
Client ID:	MW-118-20071003-01	Date Received:	10/04/07
Sample Location:	WAYLAND, MA	Field Prep:	Not Specified
Matrix:	Water		
Anaytical Method:	60,8260B		
Analytical Date:	10/12/07 15:21		
Analyst:	BS		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
Methylene chloride	ND		ug/l	5.0	1
1,1-Dichloroethane	ND		ug/l	0.75	1
Chloroform	ND		ug/l	0.75	1
Carbon tetrachloride	ND		ug/l	0.50	1
1,2-Dichloropropane	ND		ug/l	1.8	1
Dibromochloromethane	ND		ug/l	0.50	1
1,1,2-Trichloroethane	ND		ug/l	0.75	1
Tetrachloroethene	ND		ug/l	0.50	1
Chlorobenzene	ND		ug/l	0.50	1
1,2-Dichloroethane	ND		ug/l	0.50	1
1,1,1-Trichloroethane	ND		ug/l	0.50	1
Bromodichloromethane	ND		ug/l	0.50	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	1
Bromoform	ND		ug/l	2.0	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	1
Chloromethane	ND		ug/l	2.5	1
Vinyl chloride	ND		ug/l	1.0	1
Chloroethane	ND		ug/l	1.0	1
1,1-Dichloroethene	ND		ug/l	0.50	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	1
Trichloroethene	31		ug/l	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.5	1
1,3-Dichlorobenzene	ND		ug/l	2.5	1
1,4-Dichlorobenzene	ND		ug/l	2.5	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	1
Dichlorodifluoromethane	ND		ug/l	5.0	1
2,2-Dichloropropane	ND		ug/l	2.5	1
1,2-Dibromoethane	ND		ug/l	2.0	1
1,3-Dichloropropane	ND		ug/l	2.5	1

Project Name: RAYTHEON WAYLAND **Lab Number:** L0714749

Project Number: 0061882 **Report Date:** 10/14/07

SAMPLE RESULTS

Lab ID:	L0714749-03	Date Collected:	10/03/07 13:25
Client ID:	MW-118-20071003-01	Date Received:	10/04/07
Sample Location:	WAYLAND, MA	Field Prep:	Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	1
o-Chlorotoluene	ND		ug/l	2.5	1
p-Chlorotoluene	ND		ug/l	2.5	1
Hexachlorobutadiene	ND		ug/l	0.60	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	97		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	105		70-130
Dibromofluoromethane	101		70-130

Project Name: RAYTHEON WAYLAND **Lab Number:** L0714749

Project Number: 0061882 **Report Date:** 10/14/07

SAMPLE RESULTS

Lab ID:	L0714749-04	Date Collected:	10/03/07 13:55
Client ID:	MW-404-20071003-01	Date Received:	10/04/07
Sample Location:	WAYLAND, MA	Field Prep:	Not Specified
Matrix:	Water		
Anaytical Method:	60,8260B		
Analytical Date:	10/12/07 16:00		
Analyst:	BS		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
Methylene chloride	ND		ug/l	5.0	1
1,1-Dichloroethane	ND		ug/l	0.75	1
Chloroform	0.98		ug/l	0.75	1
Carbon tetrachloride	ND		ug/l	0.50	1
1,2-Dichloropropane	ND		ug/l	1.8	1
Dibromochloromethane	ND		ug/l	0.50	1
1,1,2-Trichloroethane	ND		ug/l	0.75	1
Tetrachloroethene	ND		ug/l	0.50	1
Chlorobenzene	ND		ug/l	0.50	1
1,2-Dichloroethane	ND		ug/l	0.50	1
1,1,1-Trichloroethane	ND		ug/l	0.50	1
Bromodichloromethane	ND		ug/l	0.50	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	1
Bromoform	ND		ug/l	2.0	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	1
Chloromethane	ND		ug/l	2.5	1
Vinyl chloride	ND		ug/l	1.0	1
Chloroethane	ND		ug/l	1.0	1
1,1-Dichloroethene	ND		ug/l	0.50	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	1
Trichloroethene	ND		ug/l	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.5	1
1,3-Dichlorobenzene	ND		ug/l	2.5	1
1,4-Dichlorobenzene	ND		ug/l	2.5	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	1
Dichlorodifluoromethane	ND		ug/l	5.0	1
2,2-Dichloropropane	ND		ug/l	2.5	1
1,2-Dibromoethane	ND		ug/l	2.0	1
1,3-Dichloropropane	ND		ug/l	2.5	1

Project Name: RAYTHEON WAYLAND **Lab Number:** L0714749

Project Number: 0061882 **Report Date:** 10/14/07

SAMPLE RESULTS

Lab ID:	L0714749-04	Date Collected:	10/03/07 13:55
Client ID:	MW-404-20071003-01	Date Received:	10/04/07
Sample Location:	WAYLAND, MA	Field Prep:	Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	1
o-Chlorotoluene	ND		ug/l	2.5	1
p-Chlorotoluene	ND		ug/l	2.5	1
Hexachlorobutadiene	ND		ug/l	0.60	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	102		70-130

Project Name: RAYTHEON WAYLAND **Lab Number:** L0714749

Project Number: 0061882 **Report Date:** 10/14/07

SAMPLE RESULTS

Lab ID:	L0714749-05	Date Collected:	10/03/07 15:55
Client ID:	MW-214-20071003-01	Date Received:	10/04/07
Sample Location:	WAYLAND, MA	Field Prep:	Field Filtered
Matrix:	Water		
Anaytical Method:	60,8260B		
Analytical Date:	10/12/07 16:39		
Analyst:	BS		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
Methylene chloride	ND		ug/l	5.0	1
1,1-Dichloroethane	ND		ug/l	0.75	1
Chloroform	ND		ug/l	0.75	1
Carbon tetrachloride	ND		ug/l	0.50	1
1,2-Dichloropropane	ND		ug/l	1.8	1
Dibromochloromethane	ND		ug/l	0.50	1
1,1,2-Trichloroethane	ND		ug/l	0.75	1
Tetrachloroethene	ND		ug/l	0.50	1
Chlorobenzene	ND		ug/l	0.50	1
1,2-Dichloroethane	ND		ug/l	0.50	1
1,1,1-Trichloroethane	ND		ug/l	0.50	1
Bromodichloromethane	ND		ug/l	0.50	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	1
Bromoform	ND		ug/l	2.0	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	1
Chloromethane	ND		ug/l	2.5	1
Vinyl chloride	ND		ug/l	1.0	1
Chloroethane	ND		ug/l	1.0	1
1,1-Dichloroethene	1.4		ug/l	0.50	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	1
Trichloroethene	31		ug/l	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.5	1
1,3-Dichlorobenzene	ND		ug/l	2.5	1
1,4-Dichlorobenzene	ND		ug/l	2.5	1
cis-1,2-Dichloroethene	2.2		ug/l	0.50	1
Dichlorodifluoromethane	ND		ug/l	5.0	1
2,2-Dichloropropane	ND		ug/l	2.5	1
1,2-Dibromoethane	ND		ug/l	2.0	1
1,3-Dichloropropane	ND		ug/l	2.5	1

Project Name: RAYTHEON WAYLAND **Lab Number:** L0714749

Project Number: 0061882 **Report Date:** 10/14/07

SAMPLE RESULTS

Lab ID:	L0714749-05	Date Collected:	10/03/07 15:55
Client ID:	MW-214-20071003-01	Date Received:	10/04/07
Sample Location:	WAYLAND, MA	Field Prep:	Field Filtered

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	1
o-Chlorotoluene	ND		ug/l	2.5	1
p-Chlorotoluene	ND		ug/l	2.5	1
Hexachlorobutadiene	ND		ug/l	0.60	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	96		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	105		70-130
Dibromofluoromethane	99		70-130

Project Name: RAYTHEON WAYLAND **Lab Number:** L0714749

Project Number: 0061882 **Report Date:** 10/14/07

Method Blank Analysis
Batch Quality Control

Analytical Method: 60,8260B
Analytical Date: 10/12/07 11:07
Analyst: BS

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by MCP 8260B for sample(s): 01-05 Batch: WG297898-6				
Methylene chloride	ND		ug/l	5.0
1,1-Dichloroethane	ND		ug/l	0.75
Chloroform	ND		ug/l	0.75
Carbon tetrachloride	ND		ug/l	0.50
1,2-Dichloropropane	ND		ug/l	1.8
Dibromochloromethane	ND		ug/l	0.50
1,1,2-Trichloroethane	ND		ug/l	0.75
Tetrachloroethene	ND		ug/l	0.50
Chlorobenzene	ND		ug/l	0.50
Trichlorofluoromethane	ND		ug/l	2.5
1,2-Dichloroethane	ND		ug/l	0.50
1,1,1-Trichloroethane	ND		ug/l	0.50
Bromodichloromethane	ND		ug/l	0.50
trans-1,3-Dichloropropene	ND		ug/l	0.50
cis-1,3-Dichloropropene	ND		ug/l	0.50
1,1-Dichloropropene	ND		ug/l	2.5
Bromoform	ND		ug/l	2.0
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50
Benzene	ND		ug/l	0.50
Toluene	ND		ug/l	0.75
Ethylbenzene	ND		ug/l	0.50
Chloromethane	ND		ug/l	2.5
Bromomethane	ND		ug/l	1.0
Vinyl chloride	ND		ug/l	1.0
Chloroethane	ND		ug/l	1.0
1,1-Dichloroethene	ND		ug/l	0.50
trans-1,2-Dichloroethene	ND		ug/l	0.75
Trichloroethene	ND		ug/l	0.50
1,2-Dichlorobenzene	ND		ug/l	2.5
1,3-Dichlorobenzene	ND		ug/l	2.5
1,4-Dichlorobenzene	ND		ug/l	2.5

Project Name: RAYTHEON WAYLAND **Lab Number:** L0714749

Project Number: 0061882 **Report Date:** 10/14/07

Method Blank Analysis
Batch Quality Control

Analytical Method: 60,8260B
Analytical Date: 10/12/07 11:07
Analyst: BS

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by MCP 8260B for sample(s): 01-05 Batch: WG297898-6				
Methyl tert butyl ether	ND		ug/l	1.0
p/m-Xylene	ND		ug/l	1.0
o-Xylene	ND		ug/l	1.0
cis-1,2-Dichloroethene	ND		ug/l	0.50
Dibromomethane	ND		ug/l	5.0
1,2,3-Trichloropropane	ND		ug/l	5.0
Styrene	ND		ug/l	1.0
Dichlorodifluoromethane	ND		ug/l	5.0
Acetone	ND		ug/l	5.0
Carbon disulfide	ND		ug/l	5.0
2-Butanone	ND		ug/l	5.0
4-Methyl-2-pentanone	ND		ug/l	5.0
2-Hexanone	ND		ug/l	5.0
Bromochloromethane	ND		ug/l	2.5
Tetrahydrofuran	ND		ug/l	10
2,2-Dichloropropane	ND		ug/l	2.5
1,2-Dibromoethane	ND		ug/l	2.0
1,3-Dichloropropane	ND		ug/l	2.5
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50
Bromobenzene	ND		ug/l	2.5
n-Butylbenzene	ND		ug/l	0.50
sec-Butylbenzene	ND		ug/l	0.50
tert-Butylbenzene	ND		ug/l	2.5
o-Chlorotoluene	ND		ug/l	2.5
p-Chlorotoluene	ND		ug/l	2.5
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5
Hexachlorobutadiene	ND		ug/l	0.60
Isopropylbenzene	ND		ug/l	0.50
p-Isopropyltoluene	ND		ug/l	0.50
Naphthalene	ND		ug/l	2.5
n-Propylbenzene	ND		ug/l	0.50

Project Name: RAYTHEON WAYLAND **Lab Number:** L0714749

Project Number: 0061882 **Report Date:** 10/14/07

Method Blank Analysis
Batch Quality Control

Analytical Method: 60,8260B
Analytical Date: 10/12/07 11:07
Analyst: BS

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by MCP 8260B for sample(s): 01-05 Batch: WG297898-6				
1,2,3-Trichlorobenzene	ND		ug/l	2.5
1,2,4-Trichlorobenzene	ND		ug/l	2.5
1,3,5-Trimethylbenzene	ND		ug/l	2.5
1,2,4-Trimethylbenzene	ND		ug/l	2.5
Ethyl ether	ND		ug/l	2.5
Isopropyl Ether	ND		ug/l	2.0
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.0
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0
1,4-Dioxane	ND		ug/l	250

Tentatively Identified Compounds

No Tentatively Identified Compounds	ND	ug/l

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	97		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	101		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: RAYTHEON WAYLAND
Project Number: 0061882

Lab Number: L0714749
Report Date: 10/14/07

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B Associated sample(s): 01-05 Batch: WG297898-4 WG297898-5					
Methylene chloride	100	107	70-130	7	25
1,1-Dichloroethane	101	92	70-130	9	25
Chloroform	101	94	70-130	7	25
Carbon tetrachloride	108	96	70-130	12	25
1,2-Dichloropropane	99	95	70-130	4	25
Dibromochloromethane	99	93	70-130	6	25
1,1,2-Trichloroethane	99	97	70-130	2	25
Tetrachloroethene	109	97	70-130	12	25
Chlorobenzene	102	94	70-130	8	25
Trichlorofluoromethane	103	90	70-130	13	25
1,2-Dichloroethane	95	95	70-130	0	25
1,1,1-Trichloroethane	102	92	70-130	10	25
Bromodichloromethane	98	97	70-130	1	25
trans-1,3-Dichloropropene	100	97	70-130	3	25
cis-1,3-Dichloropropene	102	97	70-130	5	25
1,1-Dichloropropene	108	93	70-130	15	25
Bromoform	107	107	70-130	0	50
1,1,2,2-Tetrachloroethane	106	107	70-130	1	25
Benzene	102	94	70-130	8	25
Toluene	103	94	70-130	9	25
Ethylbenzene	105	95	70-130	10	25

Lab Control Sample Analysis
Batch Quality Control

Project Name: RAYTHEON WAYLAND
Project Number: 0061882

Lab Number: L0714749
Report Date: 10/14/07

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B Associated sample(s): 01-05 Batch: WG297898-4 WG297898-5					
Chloromethane	98	83	70-130	17	50
Bromomethane	103	93	70-130	10	50
Vinyl chloride	98	82	70-130	18	25
Chloroethane	102	89	70-130	14	25
1,1-Dichloroethene	105	92	70-130	13	25
trans-1,2-Dichloroethene	109	95	70-130	14	25
Trichloroethene	100	88	70-130	13	25
1,2-Dichlorobenzene	98	94	70-130	4	25
1,3-Dichlorobenzene	106	96	70-130	10	25
1,4-Dichlorobenzene	102	95	70-130	7	25
Methyl tert butyl ether	96	94	70-130	2	25
p/m-Xylene	109	99	70-130	10	25
o-Xylene	108	100	70-130	8	25
cis-1,2-Dichloroethene	105	98	70-130	7	25
Dibromomethane	99	97	70-130	2	25
1,2,3-Trichloropropane	103	106	70-130	3	25
Styrene	108	101	70-130	7	25
Dichlorodifluoromethane	78	**69**	70-130	12	50
Acetone	90	89	70-130	1	50
Carbon disulfide	96	81	70-130	17	25
2-Butanone	93	94	70-130	1	50

Lab Control Sample Analysis
Batch Quality Control

Project Name: RAYTHEON WAYLAND
Project Number: 0061882

Lab Number: L0714749
Report Date: 10/14/07

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B Associated sample(s): 01-05 Batch: WG297898-4 WG297898-5					
4-Methyl-2-pentanone	97	107	70-130	10	50
2-Hexanone	98	100	70-130	2	50
Bromochloromethane	101	98	70-130	3	25
Tetrahydrofuran	96	96	70-130	0	25
2,2-Dichloropropane	109	99	70-130	10	50
1,2-Dibromoethane	98	98	70-130	0	25
1,3-Dichloropropane	98	96	70-130	2	25
1,1,1,2-Tetrachloroethane	101	95	70-130	6	25
Bromobenzene	101	95	70-130	6	25
n-Butylbenzene	110	96	70-130	14	25
sec-Butylbenzene	111	96	70-130	14	25
tert-Butylbenzene	107	96	70-130	11	25
o-Chlorotoluene	101	94	70-130	7	25
p-Chlorotoluene	106	97	70-130	9	25
1,2-Dibromo-3-chloropropane	109	112	70-130	3	50
Hexachlorobutadiene	104	97	70-130	7	25
Isopropylbenzene	114	102	70-130	11	25
p-Isopropyltoluene	112	99	70-130	12	25
Naphthalene	98	97	70-130	1	25
n-Propylbenzene	108	96	70-130	12	25
1,2,3-Trichlorobenzene	98	98	70-130	0	25

Lab Control Sample Analysis
Batch Quality Control

Project Name: RAYTHEON WAYLAND
Project Number: 0061882
Lab Number: L0714749
Report Date: 10/14/07

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B Associated sample(s): 01-05 Batch: WG297898-4 WG297898-5					
1,2,4-Trichlorobenzene	102	98	70-130	4	25
1,3,5-Trimethylbenzene	104	94	70-130	10	25
1,2,4-Trimethylbenzene	103	96	70-130	7	25
Ethyl ether	93	91	70-130	2	25
Isopropyl Ether	93	91	70-130	2	25
Ethyl-Tert-Butyl-Ether	97	96	70-130	1	25
Tertiary-Amyl Methyl Ether	96	97	70-130	1	25
1,4-Dioxane	127	118	70-130	7	50

Surrogate	LCS %Recovery	Qualifier	LCSD %Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	94		98		70-130
Toluene-d8	101		101		70-130
4-Bromofluorobenzene	100		99		70-130
Dibromofluoromethane	96		100		70-130

METALS

Project Name:	RAYTHEON WAYLAND	**Lab Number:**	L0714749
Project Number:	0061882	**Report Date:**	10/14/07

SAMPLE RESULTS

Lab ID:	L0714749-01	Date Collected:	10/03/07 10:30
Client ID:	MW-103-20071003-01	Date Received:	10/04/07
Sample Location:	WAYLAND, MA	Field Prep:	Field Filtered
Matrix:	Water		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals by MCP 6000/7000 series										
Sodium, Dissolved	100		mg/l	2.0	1	10/08/07 16:30	10/09/07 17:57	EPA 3005A	60,6010B	AI

Project Name:	RAYTHEON WAYLAND	**Lab Number:**	L0714749
Project Number:	0061882	**Report Date:**	10/14/07

SAMPLE RESULTS

Lab ID:	L0714749-05	Date Collected:	10/03/07 15:55
Client ID:	MW-214-20071003-01	Date Received:	10/04/07
Sample Location:	WAYLAND, MA	Field Prep:	Field Filtered
Matrix:	Water		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals by MCP 6000/7000 series										
Sodium, Dissolved	41		mg/l	2.0	1	10/08/07 16:30	10/09/07 18:01	EPA 3005A	60,6010B	AI

Project Name: RAYTHEON WAYLAND **Lab Number:** L0714749

Project Number: 0061882 **Report Date:** 10/14/07

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Dissolved Metals by MCP 6000/7000 series for sample(s): 01,05 Batch: WG297218-1									
Sodium, Dissolved	ND		mg/l	2.0	1	10/08/07 16:30	10/09/07 16:25	60,6010B	AI

Prep Information

Digestion Method: EPA 3005A

Lab Control Sample Analysis

Batch Quality Control

Project Name: RAYTHEON WAYLAND

Project Number: 0061882

Lab Number: L0714749

Report Date: 10/14/07

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Dissolved Metals by MCP 6000/7000 series Associated sample(s): 01,05 Batch: WG297218-2 WG297218-3					
Sodium, Dissolved	96	95	80-120	1	20

Project Name: RAYTHEON WAYLAND
Project Number: 0061882

Lab Number: L0714749
Report Date: 10/14/07

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp	Pres	Seal	Analysis
L0714749-01A	Vial HCl preserved	A	N/A	2.4C	Y	Absent	MCP-8260-04
L0714749-01B	Vial HCl preserved	A	N/A	2.4C	Y	Absent	MCP-8260-04
L0714749-01C	Plastic 500ml HNO3 preserved	A	<2	2.4C	Y	Absent	MCP-NA-6010S
L0714749-02A	Vial Na2S2O3 preserved	A	N/A	2.4C	Y	Absent	MCP-8260-04
L0714749-02B	Vial Na2S2O3 preserved	A	N/A	2.4C	Y	Absent	MCP-8260-04
L0714749-03A	Vial Na2S2O3 preserved	A	N/A	2.4C	Y	Absent	MCP-8260-04
L0714749-03B	Vial Na2S2O3 preserved	A	N/A	2.4C	Y	Absent	MCP-8260-04
L0714749-04A	Vial Na2S2O3 preserved	A	N/A	2.4C	Y	Absent	MCP-8260-04
L0714749-04B	Vial Na2S2O3 preserved	A	N/A	2.4C	Y	Absent	MCP-8260-04
L0714749-05A	Vial HCl preserved	A	N/A	2.4C	Y	Absent	MCP-8260-04
L0714749-05B	Vial HCl preserved	A	N/A	2.4C	Y	Absent	MCP-8260-04
L0714749-05C	Plastic 500ml HNO3 preserved	A	<2	2.4C	Y	Absent	MCP-NA-6010S

Project Name:	RAYTHEON WAYLAND	**Lab Number:**	L0714749
Project Number:	0061882	**Report Date:**	10/14/07

GLOSSARY

Acronyms

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.

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.

NI - Not Ignitable.

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.

ND - Not detected at the reported detection limit for the sample.

RDL - Reported Detection Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RDL 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.

Terms

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

The following data qualifiers have been identified for use under the CT DEP Reasonable Confidence Protocols.

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.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

J - Estimated value. The analyte was tentatively identified; the quantitation is an estimation. (Tentatively identified compounds only.)

Standard Qualifiers

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

Project Name: RAYTHEON WAYLAND **Lab Number:** L0714749
Project Number: 0061882 **Report Date:** 10/14/07

REFERENCES

60 Quality Assurance and Quality Control Requirements and Performance Standards for SW-846 Methods. MADEP BWSC. WSC-CAM-IIA (Revision 4), WSC-CAM-V C (Revision 2), WSC-CAM-IIIA (Revision 5). May 2004.

LIMITATION OF LIABILITIES

Alpha Woods Hole Labs 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 Woods Hole Labs shall be to re-perform the work at it's own expense. In no event shall Alpha Woods Hole Labs 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 Woods Hole Labs.

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.

CHAIN OF CUSTODY

PAGE 1 OF 1

ALPHA WESTBORO LABS

WESTBORO, MA TEL: 508-898-9220 FAX: 508-898-9193

RAYNHAM, MA TEL: 508-822-9300 FAX: 508-822-3288

Date Rec'd in Lab: 10/4/07

ALPHA Job #: L0714749

Client Information

Client: ERM

Address: 399 BOYLSTON ST., 6th FLOOR BOSTON, MA 02116

Phone: (617) 646-7800

Fax: (617) 267-6447

Email: JEREMY.PICARD@erm.com

☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: Raytheon Wayland

Project Location: Wayland, MA

Project #: 0061882

Project Manager: J. Picard

ALPHA Quote #:

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved!)

Date Due: 10/11/07 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	Criteria
MCP	GW-1

MA MCP PRESUMPTIVE CERTAINTY --- CT REASONABLE CONFIDENCE PROTOCOLS

☒ Yes ☐ No Are MCP Analytical Methods Required?

☐ Yes ☒ No Are CT RCP (Reasonable Confidence Protocols) Required?

Other Project Specific Requirements/Comments/Detection Limits:

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	8021C (HCl)	Dissolved Na	8021C ($Na_2S_2O_3$)	Sample Specific Comments	TOTAL # BOTTLES
14749-01	MW-103-20071003-01	10/03/07	10:30	GW	MS	2	1	-		3
-02	MW-213-20071003-01	10/03/07	11:55	GW	MS	-	-	2		2
-03	MW-118-20071003-01	10/03/07	13:25	GW	MS	-	-	2		2
-04	MW-404-20071003-01	10/03/07	13:55	GW	MS	-	-	2		2
-05	MW-214-20071003-01	10/03/07	15:55	GW	MS	2	1	-		3

Container Type	V	P	V
Preservative	B	C	H

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT MA MCP or CT RCP?

Relinquished By:	Date/Time	Received By:	Date/Time
Don Bauke	10/4/07 11:25	Don Bauke	10/4/07 1 07
Don Bauke	10/4/07 17:45	Jason M	10/4/07 17:45

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 Payment Terms. See reverse side.

FORM NO: 01-01 (rev. 10-OCT-05)

10140721:44

ANALYTICAL REPORT

Lab Number:	L0714607
Client:	ERM-New England 399 Boylston Street 6th Floor Boston, MA 02116
ATTN:	Jeremy Picard
Project Name:	RAYTHEON WAYLAND
Project Number:	0061882
Report Date:	10/12/07

Certifications & Approvals: MA (M-MA086), NY NELAC (11148), CT (PH-0574), NH (200305), NJ (MA935), RI (LAO00065), ME (2006012), PA (Registration #68-03671), USDA (Permit #S-72578), US Army Corps of Engineers, Naval FESC.

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: 0061882

Lab Number: L0714607
Report Date: 10/12/07

Alpha Sample ID	Client ID	Sample Location
L0714607-01	MW-40-20071002-01	WAYLAND, MA
L0714607-02	DUP-001-20071002-01	WAYLAND, MA
L0714607-03	MW-40S-20071002-01	WAYLAND, MA

Project Name:	RAYTHEON WAYLAND	**Lab Number:**	L0714607
Project Number:	0061882	**Report Date:**	10/12/07

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, B, C & D is required for "Presumptive Certainty" status		
A	Were all samples received by the laboratory in a condition consistent with those described on their Chain-of-Custody documentation for the data set?	YES
B	Were all QA/QC procedures required for the specified analytical methods(s) included in this report followed, including the requirement to note and discuss in a narrative QC data that did not meet appropriate performance standards or guidelines?	YES
C	Does the analytical data included in this report meet all the requirements for "Presumptive Certainty", as described in section 2.0 of the MADEP document CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	YES
D	VPH and EPH methods only: Was the VPH or EPH method run without significant modifications, as specified in Section 11.3?	N/A

A response to questions E and F is required for "Presumptive Certainty" status		
E	Were all QC performance standards and recommendations for the specified method(s) achieved?	NO
F	Were results for all analyte-list compounds/elements for the specified method(s) reported?	NO

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:** L0714607
Project Number: 0061882 **Report Date:** 10/12/07

Case Narrative

The samples were received in accordance with the chain of custody and no significant deviations were encountered during preparation or analysis unless otherwise noted below.

Sample Receipt

The samples were Field Filtered for Dissolved Metals only.

Volatile Organics

In reference to question E:

The WG297880-1/2 LCS/LCSD % recoveries for Dichlorodifluoromethane, and the LCSD % recovery for Chloromethane, both difficult analytes, are below the individual acceptance criteria for the compounds, but within the overall method allowances.

In reference to question F:

At the client's request, all submitted samples were not analyzed for the full MCP list of compounds specified for the Method.

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:

Title: Technical Director/Representative Date: 10/12/07

ORGANICS

VOLATILES

Project Name: RAYTHEON WAYLAND **Lab Number:** L0714607

Project Number: 0061882 **Report Date:** 10/12/07

SAMPLE RESULTS

Lab ID:	L0714607-01	Date Collected:	10/02/07 09:30
Client ID:	MW-40-20071002-01	Date Received:	10/03/07
Sample Location:	WAYLAND, MA	Field Prep:	Field Filtered
Matrix:	Water		
Anaytical Method:	60,8260B		
Analytical Date:	10/12/07 12:36		
Analyst:	BS		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
Methylene chloride	ND		ug/l	5.0	1
1,1-Dichloroethane	ND		ug/l	0.75	1
Chloroform	8.1		ug/l	0.75	1
Carbon tetrachloride	ND		ug/l	0.50	1
1,2-Dichloropropane	ND		ug/l	1.8	1
Dibromochloromethane	ND		ug/l	0.50	1
1,1,2-Trichloroethane	ND		ug/l	0.75	1
Tetrachloroethene	0.73		ug/l	0.50	1
Chlorobenzene	ND		ug/l	0.50	1
1,2-Dichloroethane	ND		ug/l	0.50	1
1,1,1-Trichloroethane	ND		ug/l	0.50	1
Bromodichloromethane	4.1		ug/l	0.50	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	1
Bromoform	ND		ug/l	2.0	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	1
Chloromethane	ND		ug/l	2.5	1
Vinyl chloride	ND		ug/l	1.0	1
Chloroethane	ND		ug/l	1.0	1
1,1-Dichloroethene	ND		ug/l	0.50	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	1
Trichloroethene	4.2		ug/l	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.5	1
1,3-Dichlorobenzene	ND		ug/l	2.5	1
1,4-Dichlorobenzene	ND		ug/l	2.5	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	1
Dichlorodifluoromethane	ND		ug/l	5.0	1
2,2-Dichloropropane	ND		ug/l	2.5	1
1,2-Dibromoethane	ND		ug/l	2.0	1
1,3-Dichloropropane	ND		ug/l	2.5	1

Project Name: RAYTHEON WAYLAND **Lab Number:** L0714607

Project Number: 0061882 **Report Date:** 10/12/07

SAMPLE RESULTS

Lab ID:	L0714607-01	Date Collected:	10/02/07 09:30
Client ID:	MW-40-20071002-01	Date Received:	10/03/07
Sample Location:	WAYLAND, MA	Field Prep:	Field Filtered

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	1
o-Chlorotoluene	ND		ug/l	2.5	1
p-Chlorotoluene	ND		ug/l	2.5	1
Hexachlorobutadiene	ND		ug/l	0.60	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	106		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	107		70-130

Project Name: RAYTHEON WAYLAND **Lab Number:** L0714607

Project Number: 0061882 **Report Date:** 10/12/07

SAMPLE RESULTS

Lab ID:	L0714607-02	Date Collected:	10/02/07 00:00
Client ID:	DUP-001-20071002-01	Date Received:	10/03/07
Sample Location:	WAYLAND, MA	Field Prep:	Field Filtered
Matrix:	Water		
Anaytical Method:	60,8260B		
Analytical Date:	10/12/07 13:14		
Analyst:	BS		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
Methylene chloride	ND		ug/l	5.0	1
1,1-Dichloroethane	ND		ug/l	0.75	1
Chloroform	8.1		ug/l	0.75	1
Carbon tetrachloride	ND		ug/l	0.50	1
1,2-Dichloropropane	ND		ug/l	1.8	1
Dibromochloromethane	ND		ug/l	0.50	1
1,1,2-Trichloroethane	ND		ug/l	0.75	1
Tetrachloroethene	ND		ug/l	0.50	1
Chlorobenzene	ND		ug/l	0.50	1
1,2-Dichloroethane	ND		ug/l	0.50	1
1,1,1-Trichloroethane	ND		ug/l	0.50	1
Bromodichloromethane	3.9		ug/l	0.50	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	1
Bromoform	ND		ug/l	2.0	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	1
Chloromethane	ND		ug/l	2.5	1
Vinyl chloride	ND		ug/l	1.0	1
Chloroethane	ND		ug/l	1.0	1
1,1-Dichloroethene	ND		ug/l	0.50	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	1
Trichloroethene	4.2		ug/l	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.5	1
1,3-Dichlorobenzene	ND		ug/l	2.5	1
1,4-Dichlorobenzene	ND		ug/l	2.5	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	1
Dichlorodifluoromethane	ND		ug/l	5.0	1
2,2-Dichloropropane	ND		ug/l	2.5	1
1,2-Dibromoethane	ND		ug/l	2.0	1
1,3-Dichloropropane	ND		ug/l	2.5	1

Project Name: RAYTHEON WAYLAND **Lab Number:** L0714607

Project Number: 0061882 **Report Date:** 10/12/07

SAMPLE RESULTS

Lab ID:	L0714607-02	Date Collected:	10/02/07 00:00
Client ID:	DUP-001-20071002-01	Date Received:	10/03/07
Sample Location:	WAYLAND, MA	Field Prep:	Field Filtered

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	1
o-Chlorotoluene	ND		ug/l	2.5	1
p-Chlorotoluene	ND		ug/l	2.5	1
Hexachlorobutadiene	ND		ug/l	0.60	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	106		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	109		70-130
Dibromofluoromethane	110		70-130

Project Name: RAYTHEON WAYLAND **Lab Number:** L0714607

Project Number: 0061882 **Report Date:** 10/12/07

SAMPLE RESULTS

Lab ID:	L0714607-03	Date Collected:	10/02/07 10:37
Client ID:	MW-40S-20071002-01	Date Received:	10/03/07
Sample Location:	WAYLAND, MA	Field Prep:	Not Specified
Matrix:	Water		
Anaytical Method:	60,8260B		
Analytical Date:	10/12/07 13:54		
Analyst:	BS		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
Methylene chloride	ND		ug/l	5.0	1
1,1-Dichloroethane	ND		ug/l	0.75	1
Chloroform	4.4		ug/l	0.75	1
Carbon tetrachloride	ND		ug/l	0.50	1
1,2-Dichloropropane	ND		ug/l	1.8	1
Dibromochloromethane	1.7		ug/l	0.50	1
1,1,2-Trichloroethane	ND		ug/l	0.75	1
Tetrachloroethene	ND		ug/l	0.50	1
Chlorobenzene	ND		ug/l	0.50	1
1,2-Dichloroethane	ND		ug/l	0.50	1
1,1,1-Trichloroethane	ND		ug/l	0.50	1
Bromodichloromethane	2.4		ug/l	0.50	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	1
Bromoform	ND		ug/l	2.0	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	1
Chloromethane	ND		ug/l	2.5	1
Vinyl chloride	ND		ug/l	1.0	1
Chloroethane	ND		ug/l	1.0	1
1,1-Dichloroethene	ND		ug/l	0.50	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	1
Trichloroethene	1.7		ug/l	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.5	1
1,3-Dichlorobenzene	ND		ug/l	2.5	1
1,4-Dichlorobenzene	ND		ug/l	2.5	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	1
Dichlorodifluoromethane	ND		ug/l	5.0	1
2,2-Dichloropropane	ND		ug/l	2.5	1
1,2-Dibromoethane	ND		ug/l	2.0	1
1,3-Dichloropropane	ND		ug/l	2.5	1

Project Name: RAYTHEON WAYLAND **Lab Number:** L0714607

Project Number: 0061882 **Report Date:** 10/12/07

SAMPLE RESULTS

Lab ID:	L0714607-03	Date Collected:	10/02/07 10:37
Client ID:	MW-40S-20071002-01	Date Received:	10/03/07
Sample Location:	WAYLAND, MA	Field Prep:	Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	1
o-Chlorotoluene	ND		ug/l	2.5	1
p-Chlorotoluene	ND		ug/l	2.5	1
Hexachlorobutadiene	ND		ug/l	0.60	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	111		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	109		70-130
Dibromofluoromethane	108		70-130

Project Name: RAYTHEON WAYLAND **Lab Number:** L0714607

Project Number: 0061882 **Report Date:** 10/12/07

Method Blank Analysis
Batch Quality Control

Analytical Method: 60,8260B
Analytical Date: 10/12/07 11:16
Analyst: BS

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by MCP 8260B for sample(s): 01-03 Batch: WG297880-3				
Methylene chloride	ND		ug/l	5.0
1,1-Dichloroethane	ND		ug/l	0.75
Chloroform	ND		ug/l	0.75
Carbon tetrachloride	ND		ug/l	0.50
1,2-Dichloropropane	ND		ug/l	1.8
Dibromochloromethane	ND		ug/l	0.50
1,1,2-Trichloroethane	ND		ug/l	0.75
Tetrachloroethene	ND		ug/l	0.50
Chlorobenzene	ND		ug/l	0.50
Trichlorofluoromethane	ND		ug/l	2.5
1,2-Dichloroethane	ND		ug/l	0.50
1,1,1-Trichloroethane	ND		ug/l	0.50
Bromodichloromethane	ND		ug/l	0.50
trans-1,3-Dichloropropene	ND		ug/l	0.50
cis-1,3-Dichloropropene	ND		ug/l	0.50
1,1-Dichloropropene	ND		ug/l	2.5
Bromoform	ND		ug/l	2.0
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50
Benzene	ND		ug/l	0.50
Toluene	ND		ug/l	0.75
Ethylbenzene	ND		ug/l	0.50
Chloromethane	ND		ug/l	2.5
Bromomethane	ND		ug/l	1.0
Vinyl chloride	ND		ug/l	1.0
Chloroethane	ND		ug/l	1.0
1,1-Dichloroethene	ND		ug/l	0.50
trans-1,2-Dichloroethene	ND		ug/l	0.75
Trichloroethene	ND		ug/l	0.50
1,2-Dichlorobenzene	ND		ug/l	2.5
1,3-Dichlorobenzene	ND		ug/l	2.5
1,4-Dichlorobenzene	ND		ug/l	2.5

Project Name: RAYTHEON WAYLAND **Lab Number:** L0714607

Project Number: 0061882 **Report Date:** 10/12/07

Method Blank Analysis
Batch Quality Control

Analytical Method: 60,8260B
Analytical Date: 10/12/07 11:16
Analyst: BS

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by MCP 8260B for sample(s): 01-03 Batch: WG297880-3				
Methyl tert butyl ether	ND		ug/l	1.0
p/m-Xylene	ND		ug/l	1.0
o-Xylene	ND		ug/l	1.0
cis-1,2-Dichloroethene	ND		ug/l	0.50
Dibromomethane	ND		ug/l	5.0
1,2,3-Trichloropropane	ND		ug/l	5.0
Styrene	ND		ug/l	1.0
Dichlorodifluoromethane	ND		ug/l	5.0
Acetone	ND		ug/l	5.0
Carbon disulfide	ND		ug/l	5.0
2-Butanone	ND		ug/l	5.0
4-Methyl-2-pentanone	ND		ug/l	5.0
2-Hexanone	ND		ug/l	5.0
Bromochloromethane	ND		ug/l	2.5
Tetrahydrofuran	ND		ug/l	10
2,2-Dichloropropane	ND		ug/l	2.5
1,2-Dibromoethane	ND		ug/l	2.0
1,3-Dichloropropane	ND		ug/l	2.5
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50
Bromobenzene	ND		ug/l	2.5
n-Butylbenzene	ND		ug/l	0.50
sec-Butylbenzene	ND		ug/l	0.50
tert-Butylbenzene	ND		ug/l	2.5
o-Chlorotoluene	ND		ug/l	2.5
p-Chlorotoluene	ND		ug/l	2.5
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5
Hexachlorobutadiene	ND		ug/l	0.60
Isopropylbenzene	ND		ug/l	0.50
p-Isopropyltoluene	ND		ug/l	0.50
Naphthalene	ND		ug/l	2.5
n-Propylbenzene	ND		ug/l	0.50

Project Name: RAYTHEON WAYLAND **Lab Number:** L0714607

Project Number: 0061882 **Report Date:** 10/12/07

Method Blank Analysis
Batch Quality Control

Analytical Method: 60,8260B
Analytical Date: 10/12/07 11:16
Analyst: BS

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by MCP 8260B for sample(s): 01-03 Batch: WG297880-3				
1,2,3-Trichlorobenzene	ND		ug/l	2.5
1,2,4-Trichlorobenzene	ND		ug/l	2.5
1,3,5-Trimethylbenzene	ND		ug/l	2.5
1,2,4-Trimethylbenzene	ND		ug/l	2.5
Ethyl ether	ND		ug/l	2.5
Isopropyl Ether	ND		ug/l	2.0
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.0
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0
1,4-Dioxane	ND		ug/l	250

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	107		70-130
Dibromofluoromethane	105		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: RAYTHEON WAYLAND
Project Number: 0061882

Lab Number: L0714607
Report Date: 10/12/07

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B Associated sample(s): 01-03 Batch: WG297880-1 WG297880-2					
Methylene chloride	98	93	70-130	5	25
1,1-Dichloroethane	104	99	70-130	5	25
Chloroform	106	99	70-130	7	25
Carbon tetrachloride	118	115	70-130	3	25
1,2-Dichloropropane	104	100	70-130	4	25
Dibromochloromethane	101	98	70-130	3	25
1,1,2-Trichloroethane	97	93	70-130	4	25
Tetrachloroethene	116	108	70-130	7	25
Chlorobenzene	102	98	70-130	4	25
Trichlorofluoromethane	114	110	70-130	4	25
1,2-Dichloroethane	109	108	70-130	1	25
1,1,1-Trichloroethane	112	108	70-130	4	25
Bromodichloromethane	105	102	70-130	3	25
trans-1,3-Dichloropropene	98	96	70-130	2	25
cis-1,3-Dichloropropene	108	103	70-130	5	25
1,1-Dichloropropene	107	102	70-130	5	25
Bromoform	110	102	70-130	8	50
1,1,2,2-Tetrachloroethane	90	85	70-130	6	25
Benzene	104	100	70-130	4	25
Toluene	100	94	70-130	6	25
Ethylbenzene	103	98	70-130	5	25

Lab Control Sample Analysis
Batch Quality Control

Project Name: RAYTHEON WAYLAND
Project Number: 0061882

Lab Number: L0714607
Report Date: 10/12/07

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B Associated sample(s): 01-03 Batch: WG297880-1 WG297880-2					
Chloromethane	70	**67**	70-130	4	50
Bromomethane	81	87	70-130	7	50
Vinyl chloride	81	77	70-130	5	25
Chloroethane	104	97	70-130	7	25
1,1-Dichloroethene	109	104	70-130	5	25
trans-1,2-Dichloroethene	106	100	70-130	6	25
Trichloroethene	111	107	70-130	4	25
1,2-Dichlorobenzene	98	95	70-130	3	25
1,3-Dichlorobenzene	101	97	70-130	4	25
1,4-Dichlorobenzene	102	95	70-130	7	25
Methyl tert butyl ether	107	98	70-130	9	25
p/m-Xylene	107	100	70-130	7	25
o-Xylene	108	102	70-130	6	25
cis-1,2-Dichloroethene	106	102	70-130	4	25
Dibromomethane	110	104	70-130	6	25
1,2,3-Trichloropropane	102	101	70-130	1	25
Styrene	106	100	70-130	6	25
Dichlorodifluoromethane	**51**	**48**	70-130	6	50
Acetone	**134**	114	70-130	16	50
Carbon disulfide	103	93	70-130	10	25
2-Butanone	118	111	70-130	6	50

Lab Control Sample Analysis
Batch Quality Control

Project Name: RAYTHEON WAYLAND
Project Number: 0061882

Lab Number: L0714607
Report Date: 10/12/07

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B Associated sample(s): 01-03 Batch: WG297880-1 WG297880-2					
4-Methyl-2-pentanone	115	107	70-130	7	50
2-Hexanone	102	93	70-130	9	50
Bromochloromethane	112	108	70-130	4	25
Tetrahydrofuran	111	103	70-130	7	25
2,2-Dichloropropane	121	114	70-130	6	50
1,2-Dibromoethane	99	97	70-130	2	25
1,3-Dichloropropane	96	92	70-130	4	25
1,1,1,2-Tetrachloroethane	105	102	70-130	3	25
Bromobenzene	102	98	70-130	4	25
n-Butylbenzene	105	95	70-130	10	25
sec-Butylbenzene	109	101	70-130	8	25
tert-Butylbenzene	108	102	70-130	6	25
o-Chlorotoluene	100	93	70-130	7	25
p-Chlorotoluene	99	96	70-130	3	25
1,2-Dibromo-3-chloropropane	86	87	70-130	1	50
Hexachlorobutadiene	83	76	70-130	9	25
Isopropylbenzene	116	110	70-130	5	25
p-Isopropyltoluene	110	102	70-130	8	25
Naphthalene	82	82	70-130	0	25
n-Propylbenzene	106	100	70-130	6	25
1,2,3-Trichlorobenzene	88	85	70-130	3	25

Lab Control Sample Analysis
Batch Quality Control

Project Name: RAYTHEON WAYLAND
Project Number: 0061882
Lab Number: L0714607
Report Date: 10/12/07

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B Associated sample(s): 01-03 Batch: WG297880-1 WG297880-2					
1,2,4-Trichlorobenzene	91	88	70-130	3	25
1,3,5-Trimethylbenzene	106	99	70-130	7	25
1,2,4-Trimethylbenzene	106	99	70-130	7	25
Ethyl ether	106	98	70-130	8	25
Isopropyl Ether	102	93	70-130	9	25
Ethyl-Tert-Butyl-Ether	107	99	70-130	8	25
Tertiary-Amyl Methyl Ether	107	99	70-130	8	25
1,4-Dioxane	**142**	**150**	70-130	5	50

Surrogate	LCS %Recovery	Qualifier	LCSD %Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		102		70-130
Toluene-d8	95		96		70-130
4-Bromofluorobenzene	97		97		70-130
Dibromofluoromethane	103		105		70-130

METALS

Project Name:	RAYTHEON WAYLAND	**Lab Number:**	L0714607
Project Number:	0061882	**Report Date:**	10/12/07

SAMPLE RESULTS

Lab ID:	L0714607-01	Date Collected:	10/02/07 09:30
Client ID:	MW-40-20071002-01	Date Received:	10/03/07
Sample Location:	WAYLAND, MA	Field Prep:	Field Filtered
Matrix:	Water		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals by MCP 6000/7000 series										
Sodium, Dissolved	60		mg/l	2.0	1	10/08/07 16:30	10/09/07 17:42	EPA 3005A	60,6010B	AI

Project Name:	RAYTHEON WAYLAND	**Lab Number:**	L0714607
Project Number:	0061882	**Report Date:**	10/12/07

SAMPLE RESULTS

Lab ID:	L0714607-02	Date Collected:	10/02/07 00:00
Client ID:	DUP-001-20071002-01	Date Received:	10/03/07
Sample Location:	WAYLAND, MA	Field Prep:	Field Filtered
Matrix:	Water		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals by MCP 6000/7000 series										
Sodium, Dissolved	61		mg/l	2.0	1	10/08/07 16:30	10/09/07 17:46	EPA 3005A	60,6010B	AI

Project Name: RAYTHEON WAYLAND **Lab Number:** L0714607

Project Number: 0061882 **Report Date:** 10/12/07

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Dissolved Metals by MCP 6000/7000 series for sample(s): 01-02 Batch: WG297218-1									
Sodium, Dissolved	ND		mg/l	2.0	1	10/08/07 16:30	10/09/07 16:25	60,6010B	AI

Prep Information

Digestion Method: EPA 3005A

Lab Control Sample Analysis

Batch Quality Control

Project Name: RAYTHEON WAYLAND

Project Number: 0061882

Lab Number: L0714607

Report Date: 10/12/07

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Dissolved Metals by MCP 6000/7000 series Associated sample(s): 01-02 Batch: WG297218-2 WG297218-3					
Sodium, Dissolved	96	95	80-120	1	20

Project Name: RAYTHEON WAYLAND
Project Number: 0061882

Lab Number: L0714607
Report Date: 10/12/07

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp	Pres	Seal	Analysis
L0714607-01A	Vial HCl preserved	A	N/A	3.9 C	Y	Absent	MCP-8260-04
L0714607-01B	Vial HCl preserved	A	N/A	3.9 C	Y	Absent	MCP-8260-04
L0714607-01C	Plastic 500ml HNO3 preserved	A	<2	3.9 C	Y	Absent	MCP-NA-6010S
L0714607-02A	Vial HCl preserved	A	N/A	3.9 C	Y	Absent	MCP-8260-04
L0714607-02B	Vial HCl preserved	A	N/A	3.9 C	Y	Absent	MCP-8260-04
L0714607-02C	Plastic 500ml HNO3 preserved	A	<2	3.9 C	Y	Absent	MCP-NA-6010S
L0714607-03A	Vial Na2S2O3 preserved	A	N/A	3.9 C	Y	Absent	MCP-8260-04
L0714607-03B	Vial Na2S2O3 preserved	A	N/A	3.9 C	Y	Absent	MCP-8260-04

Project Name:	RAYTHEON WAYLAND	**Lab Number:**	L0714607
Project Number:	0061882	**Report Date:**	10/12/07

GLOSSARY

Acronyms

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.

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.

NI - Not Ignitable.

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.

ND - Not detected at the reported detection limit for the sample.

RDL - Reported Detection Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RDL 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.

Terms

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

The following data qualifiers have been identified for use under the CT DEP Reasonable Confidence Protocols.

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.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

J - Estimated value. The analyte was tentatively identified; the quantitation is an estimation. (Tentatively identified compounds only.)

Standard Qualifiers

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

Project Name:	RAYTHEON WAYLAND	**Lab Number:**	L0714607
Project Number:	0061882	**Report Date:**	10/12/07

REFERENCES

60 Quality Assurance and Quality Control Requirements and Performance Standards for SW-846 Methods. MADEP BWSC. WSC-CAM-IIA (Revision 4), WSC-CAM-V C (Revision 2), WSC-CAM-IIIA (Revision 5). May 2004.

LIMITATION OF LIABILITIES

Alpha Woods Hole Labs 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 Woods Hole Labs shall be to re-perform the work at it's own expense. In no event shall Alpha Woods Hole Labs 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 Woods Hole Labs.

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.

10120716:28

(F)

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: 10/3

ALPHA Job #: L0714607

Client Information

Client: ERM

Address: 399 Boylston St, 6th Floor, Boston, MA 02116

Phone: 617-646-7800

Fax: (617) 267-6447

Email: jeremy.picard@erm.com

☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: Raytheon, Wayland

Project Location: Wayland, MA

Project #: 0061882

Project Manager: Jeremy Picard

ALPHA Quote #:

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved!)

Date Due: 10/10 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	Criteria
MCP	GW-1

MA MCP PRESUMPTIVE CERTAINTY --- CT REASONABLE CONFIDENCE PROTOCOLS

☒ Yes ☐ No Are MCP Analytical Methods Required?

☐ Yes ☒ No Are CT RCP (Reasonable Confidence Protocols) Required?

Other Project Specific Requirements/Comments/Detection Limits:

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	8021 BC(HCl)	8021 BC(Na2S2O3)	Diss. Sodium (Filtered)	Sample Specific Comments	Total # Bottles
4607-1	MW-4D-20071002-01	10/2/07	09:30	GW	HEA	2		1		3
2	DUP-001-20071002-01	10/2/07	24:00	GW	HEA	2		1		3
3	MW-4DS-20071002-01	10/2/07	10:37	GW	HEA		2			2

SAMPLE HANDLING

Filtration
☐ Done
☐ Not needed
☐ Lab to do

Preservation
☐ Lab to do
(Please specify below)

Container Type	V	V	P
Preservative	B	H	C

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT MA MCP *or* CT RCP?

Relinquished By:	Date/Time	Received By:	Date/Time
[signature]	10/3/07 1335	[signature]	10/3/07 13
[signature]	10/3/07 1400	[signature]	10/3 1400

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 Payment Terms. See reverse side.

FORM NO: 01-01 (rev. 30-JUL-07)

ANALYTICAL REPORT

Lab Number:	L0714606
Client:	ERM-New England 399 Boylston Street 6th Floor Boston, MA 02116
ATTN:	Jeremy Picard
Project Name:	RAYTHEON WAYLAND
Project Number:	0061882
Report Date:	10/15/07

Certifications & Approvals: MA (M-MA086), NY NELAC (11148), CT (PH-0574), NH (200305), NJ (MA935), RI (LAO00065), ME (2006012), PA (Registration #68-03671), USDA (Permit #S-72578), US Army Corps of Engineers, Naval FESC.

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: 0061882

Lab Number: L0714606
Report Date: 10/15/07

Alpha Sample ID	Client ID	Sample Location
L0714606-01	MW-203M-20071002-01	WAYLAND, MA
L0714606-02	MW-204M-20071002-01	WAYLAND, MA
L0714606-03	MW-203S-20071002-01	WAYLAND, MA
L0714606-04	MW-115-20071002-01	WAYLAND, MA
L0714606-05	MW-113-20071002-01	WAYLAND, MA
L0714606-06	MW-204D-20071002-01	WAYLAND, MA
L0714606-07	MW-107-20071002-01	WAYLAND, MA
L0714606-08	DUP-007-20071002-01	WAYLAND, MA
L0714606-09	DUP-005-20071002-01	WAYLAND, MA
L0714606-10	DUP-006-20071002-01	WAYLAND, MA

Project Name:	RAYTHEON WAYLAND	**Lab Number:**	L0714606
Project Number:	0061882	**Report Date:**	10/15/07

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, B, C & D is required for "Presumptive Certainty" status		
A	Were all samples received by the laboratory in a condition consistent with those described on their Chain-of-Custody documentation for the data set?	YES
B	Were all QA/QC procedures required for the specified analytical methods(s) included in this report followed, including the requirement to note and discuss in a narrative QC data that did not meet appropriate performance standards or guidelines?	YES
C	Does the analytical data included in this report meet all the requirements for "Presumptive Certainty", as described in section 2.0 of the MADEP document CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	YES
D	VPH and EPH methods only: Was the VPH or EPH method run without significant modifications, as specified in Section 11.3?	N/A

A response to questions E and F is required for "Presumptive Certainty" status		
E	Were all QC performance standards and recommendations for the specified method(s) achieved?	NO
F	Were results for all analyte-list compounds/elements for the specified method(s) reported?	NO

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:** L0714606
Project Number: 0061882 **Report Date:** 10/15/07

Case Narrative

The samples were received in accordance with the chain of custody and no significant deviations were encountered during preparation or analysis unless otherwise noted below.

MCP Related Narratives

Sample Receipt

The samples were Field Filtered for Dissolved Metals only.

Volatile Organics

L0714606-04, -09, and -10 were re-analyzed due to over dilution of the original analyses. The results of the re-analyses are reported.

L0714606-02, -07, and -08 have elevated detection limits due to the dilutions required by the elevated concentrations of target compounds in the samples.

In reference to question E:

The WG297880-1/2 LCS/LCSD % recoveries for 1,4-Dioxane are above, and the LCS/LCSD % recoveries for Dichlorodifluoromethane, as well as the LCSD % recovery for Chloromethane, are below, the individual acceptance criteria for the compounds, but within the overall method allowances. These are all difficult analytes.

In reference to question F:

At the client's request, all submitted samples were not analyzed for the full MCP list of compounds specified for the Method.

Metals

In reference to question F:

At the client's request, all submitted samples were not analyzed for the full MCP list of compounds specified for the Method.

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:

Title: Technical Director/Representative Date: 10/15/07

ORGANICS

VOLATILES

Project Name: RAYTHEON WAYLAND **Lab Number:** L0714606

Project Number: 0061882 **Report Date:** 10/15/07

SAMPLE RESULTS

Lab ID:	L0714606-01	Date Collected:	10/02/07 08:35
Client ID:	MW-203M-20071002-01	Date Received:	10/03/07
Sample Location:	WAYLAND, MA	Field Prep:	Field Filtered
Matrix:	Water		
Anaytical Method:	60,8260B		
Analytical Date:	10/12/07 15:51		
Analyst:	BS		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
Methylene chloride	ND		ug/l	5.0	1
1,1-Dichloroethane	ND		ug/l	0.75	1
Chloroform	ND		ug/l	0.75	1
Carbon tetrachloride	ND		ug/l	0.50	1
1,2-Dichloropropane	ND		ug/l	1.8	1
Dibromochloromethane	ND		ug/l	0.50	1
1,1,2-Trichloroethane	ND		ug/l	0.75	1
Tetrachloroethene	ND		ug/l	0.50	1
Chlorobenzene	ND		ug/l	0.50	1
1,2-Dichloroethane	ND		ug/l	0.50	1
1,1,1-Trichloroethane	2.7		ug/l	0.50	1
Bromodichloromethane	ND		ug/l	0.50	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	1
Bromoform	ND		ug/l	2.0	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	1
Chloromethane	ND		ug/l	2.5	1
Vinyl chloride	ND		ug/l	1.0	1
Chloroethane	ND		ug/l	1.0	1
1,1-Dichloroethene	ND		ug/l	0.50	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	1
Trichloroethene	4.6		ug/l	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.5	1
1,3-Dichlorobenzene	ND		ug/l	2.5	1
1,4-Dichlorobenzene	ND		ug/l	2.5	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	1
Dichlorodifluoromethane	ND		ug/l	5.0	1
1,2-Dibromoethane	ND		ug/l	2.0	1
1,3-Dichloropropane	ND		ug/l	2.5	1
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	1

Project Name: RAYTHEON WAYLAND **Lab Number:** L0714606

Project Number: 0061882 **Report Date:** 10/15/07

SAMPLE RESULTS

Lab ID:	L0714606-01	Date Collected:	10/02/07 08:35
Client ID:	MW-203M-20071002-01	Date Received:	10/03/07
Sample Location:	WAYLAND, MA	Field Prep:	Field Filtered

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
o-Chlorotoluene	ND		ug/l	2.5	1
p-Chlorotoluene	ND		ug/l	2.5	1
Hexachlorobutadiene	ND		ug/l	0.60	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	1
1,4-Dioxane	ND		ug/l	250	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	114		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	106		70-130
Dibromofluoromethane	109		70-130

Project Name: RAYTHEON WAYLAND **Lab Number:** L0714606

Project Number: 0061882 **Report Date:** 10/15/07

SAMPLE RESULTS

Lab ID:	L0714606-02	Date Collected:	10/02/07 09:00
Client ID:	MW-204M-20071002-01	Date Received:	10/03/07
Sample Location:	WAYLAND, MA	Field Prep:	Field Filtered
Matrix:	Water		
Anaytical Method:	60,8260B		
Analytical Date:	10/12/07 17:09		
Analyst:	BS		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
Methylene chloride	ND		ug/l	10	2
1,1-Dichloroethane	ND		ug/l	1.5	2
Chloroform	ND		ug/l	1.5	2
Carbon tetrachloride	ND		ug/l	1.0	2
1,2-Dichloropropane	ND		ug/l	3.5	2
Dibromochloromethane	ND		ug/l	1.0	2
1,1,2-Trichloroethane	ND		ug/l	1.5	2
Tetrachloroethene	ND		ug/l	1.0	2
Chlorobenzene	ND		ug/l	1.0	2
1,2-Dichloroethane	ND		ug/l	1.0	2
1,1,1-Trichloroethane	12		ug/l	1.0	2
Bromodichloromethane	ND		ug/l	1.0	2
trans-1,3-Dichloropropene	ND		ug/l	1.0	2
cis-1,3-Dichloropropene	ND		ug/l	1.0	2
Bromoform	ND		ug/l	4.0	2
1,1,2,2-Tetrachloroethane	ND		ug/l	1.0	2
Chloromethane	ND		ug/l	5.0	2
Vinyl chloride	ND		ug/l	2.0	2
Chloroethane	ND		ug/l	2.0	2
1,1-Dichloroethene	1.9		ug/l	1.0	2
trans-1,2-Dichloroethene	ND		ug/l	1.5	2
Trichloroethene	45		ug/l	1.0	2
1,2-Dichlorobenzene	ND		ug/l	5.0	2
1,3-Dichlorobenzene	ND		ug/l	5.0	2
1,4-Dichlorobenzene	ND		ug/l	5.0	2
cis-1,2-Dichloroethene	ND		ug/l	1.0	2
Dichlorodifluoromethane	ND		ug/l	10	2
1,2-Dibromoethane	ND		ug/l	4.0	2
1,3-Dichloropropane	ND		ug/l	5.0	2
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	2

Project Name: RAYTHEON WAYLAND **Lab Number:** L0714606

Project Number: 0061882 **Report Date:** 10/15/07

SAMPLE RESULTS

Lab ID:	L0714606-02	Date Collected:	10/02/07 09:00
Client ID:	MW-204M-20071002-01	Date Received:	10/03/07
Sample Location:	WAYLAND, MA	Field Prep:	Field Filtered

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
o-Chlorotoluene	ND		ug/l	5.0	2
p-Chlorotoluene	ND		ug/l	5.0	2
Hexachlorobutadiene	ND		ug/l	1.2	2
1,2,4-Trichlorobenzene	ND		ug/l	5.0	2
1,4-Dioxane	ND		ug/l	500	2

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	111		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	111		70-130
Dibromofluoromethane	107		70-130

Project Name: RAYTHEON WAYLAND **Lab Number:** L0714606

Project Number: 0061882 **Report Date:** 10/15/07

SAMPLE RESULTS

Lab ID:	L0714606-03	Date Collected:	10/02/07 09:40
Client ID:	MW-203S-20071002-01	Date Received:	10/03/07
Sample Location:	WAYLAND, MA	Field Prep:	Field Filtered
Matrix:	Water		
Anaytical Method:	60,8260B		
Analytical Date:	10/12/07 16:30		
Analyst:	BS		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
Methylene chloride	ND		ug/l	5.0	1
1,1-Dichloroethane	ND		ug/l	0.75	1
Chloroform	ND		ug/l	0.75	1
Carbon tetrachloride	ND		ug/l	0.50	1
1,2-Dichloropropane	ND		ug/l	1.8	1
Dibromochloromethane	ND		ug/l	0.50	1
1,1,2-Trichloroethane	ND		ug/l	0.75	1
Tetrachloroethene	5.4		ug/l	0.50	1
Chlorobenzene	ND		ug/l	0.50	1
1,2-Dichloroethane	ND		ug/l	0.50	1
1,1,1-Trichloroethane	ND		ug/l	0.50	1
Bromodichloromethane	ND		ug/l	0.50	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	1
Bromoform	ND		ug/l	2.0	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	1
Chloromethane	ND		ug/l	2.5	1
Vinyl chloride	ND		ug/l	1.0	1
Chloroethane	ND		ug/l	1.0	1
1,1-Dichloroethene	ND		ug/l	0.50	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	1
Trichloroethene	ND		ug/l	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.5	1
1,3-Dichlorobenzene	ND		ug/l	2.5	1
1,4-Dichlorobenzene	ND		ug/l	2.5	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	1
Dichlorodifluoromethane	ND		ug/l	5.0	1
1,2-Dibromoethane	ND		ug/l	2.0	1
1,3-Dichloropropane	ND		ug/l	2.5	1
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	1

Project Name: RAYTHEON WAYLAND **Lab Number:** L0714606

Project Number: 0061882 **Report Date:** 10/15/07

SAMPLE RESULTS

Lab ID:	L0714606-03	Date Collected:	10/02/07 09:40
Client ID:	MW-203S-20071002-01	Date Received:	10/03/07
Sample Location:	WAYLAND, MA	Field Prep:	Field Filtered

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
o-Chlorotoluene	ND		ug/l	2.5	1
p-Chlorotoluene	ND		ug/l	2.5	1
Hexachlorobutadiene	ND		ug/l	0.60	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	1
1,4-Dioxane	ND		ug/l	250	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	112		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	108		70-130

Project Name: RAYTHEON WAYLAND **Lab Number:** L0714606

Project Number: 0061882 **Report Date:** 10/15/07

SAMPLE RESULTS

Lab ID:	L0714606-04 R	Date Collected:	10/02/07 11:15
Client ID:	MW-115-20071002-01	Date Received:	10/03/07
Sample Location:	WAYLAND, MA	Field Prep:	Field Filtered
Matrix:	Water		
Anaytical Method:	60,8260B		
Analytical Date:	10/13/07 17:36		
Analyst:	BS		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
Methylene chloride	ND		ug/l	5.0	1
1,1-Dichloroethane	ND		ug/l	0.75	1
Chloroform	ND		ug/l	0.75	1
Carbon tetrachloride	ND		ug/l	0.50	1
1,2-Dichloropropane	ND		ug/l	1.8	1
Dibromochloromethane	ND		ug/l	0.50	1
1,1,2-Trichloroethane	ND		ug/l	0.75	1
Tetrachloroethene	ND		ug/l	0.50	1
Chlorobenzene	ND		ug/l	0.50	1
1,2-Dichloroethane	ND		ug/l	0.50	1
1,1,1-Trichloroethane	3.4		ug/l	0.50	1
Bromodichloromethane	ND		ug/l	0.50	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	1
Bromoform	ND		ug/l	2.0	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	1
Chloromethane	ND		ug/l	2.5	1
Vinyl chloride	ND		ug/l	1.0	1
Chloroethane	ND		ug/l	1.0	1
1,1-Dichloroethene	ND		ug/l	0.50	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	1
Trichloroethene	21		ug/l	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.5	1
1,3-Dichlorobenzene	ND		ug/l	2.5	1
1,4-Dichlorobenzene	ND		ug/l	2.5	1
cis-1,2-Dichloroethene	1.0		ug/l	0.50	1
Dichlorodifluoromethane	ND		ug/l	5.0	1
2,2-Dichloropropane	ND		ug/l	2.5	1
1,2-Dibromoethane	ND		ug/l	2.0	1
1,3-Dichloropropane	ND		ug/l	2.5	1

Project Name: RAYTHEON WAYLAND **Lab Number:** L0714606

Project Number: 0061882 **Report Date:** 10/15/07

SAMPLE RESULTS

Lab ID:	L0714606-04 R	Date Collected:	10/02/07 11:15
Client ID:	MW-115-20071002-01	Date Received:	10/03/07
Sample Location:	WAYLAND, MA	Field Prep:	Field Filtered

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	1
o-Chlorotoluene	ND		ug/l	2.5	1
p-Chlorotoluene	ND		ug/l	2.5	1
Hexachlorobutadiene	ND		ug/l	0.60	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	104		70-130

Project Name: RAYTHEON WAYLAND **Lab Number:** L0714606

Project Number: 0061882 **Report Date:** 10/15/07

SAMPLE RESULTS

Lab ID:	L0714606-05	Date Collected:	10/02/07 12:45
Client ID:	MW-113-20071002-01	Date Received:	10/03/07
Sample Location:	WAYLAND, MA	Field Prep:	Field Filtered
Matrix:	Water		
Anaytical Method:	60,8260B		
Analytical Date:	10/12/07 18:19		
Analyst:	BS		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
Methylene chloride	ND		ug/l	5.0	1
1,1-Dichloroethane	ND		ug/l	0.75	1
Chloroform	ND		ug/l	0.75	1
Carbon tetrachloride	ND		ug/l	0.50	1
1,2-Dichloropropane	ND		ug/l	1.8	1
Dibromochloromethane	ND		ug/l	0.50	1
1,1,2-Trichloroethane	ND		ug/l	0.75	1
Tetrachloroethene	ND		ug/l	0.50	1
Chlorobenzene	ND		ug/l	0.50	1
1,2-Dichloroethane	ND		ug/l	0.50	1
1,1,1-Trichloroethane	ND		ug/l	0.50	1
Bromodichloromethane	ND		ug/l	0.50	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	1
Bromoform	ND		ug/l	2.0	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	1
Chloromethane	ND		ug/l	2.5	1
Vinyl chloride	ND		ug/l	1.0	1
Chloroethane	ND		ug/l	1.0	1
1,1-Dichloroethene	ND		ug/l	0.50	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	1
Trichloroethene	14		ug/l	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.5	1
1,3-Dichlorobenzene	ND		ug/l	2.5	1
1,4-Dichlorobenzene	ND		ug/l	2.5	1
cis-1,2-Dichloroethene	1.2		ug/l	0.50	1
Dichlorodifluoromethane	ND		ug/l	5.0	1
2,2-Dichloropropane	ND		ug/l	2.5	1
1,2-Dibromoethane	ND		ug/l	2.0	1
1,3-Dichloropropane	ND		ug/l	2.5	1

Project Name: RAYTHEON WAYLAND **Lab Number:** L0714606

Project Number: 0061882 **Report Date:** 10/15/07

SAMPLE RESULTS

Lab ID:	L0714606-05	Date Collected:	10/02/07 12:45
Client ID:	MW-113-20071002-01	Date Received:	10/03/07
Sample Location:	WAYLAND, MA	Field Prep:	Field Filtered

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	1
o-Chlorotoluene	ND		ug/l	2.5	1
p-Chlorotoluene	ND		ug/l	2.5	1
Hexachlorobutadiene	ND		ug/l	0.60	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	109		70-130
Toluene-d8	93		70-130
4-Bromofluorobenzene	107		70-130
Dibromofluoromethane	108		70-130

Project Name: RAYTHEON WAYLAND **Lab Number:** L0714606

Project Number: 0061882 **Report Date:** 10/15/07

SAMPLE RESULTS

Lab ID:	L0714606-06	Date Collected:	10/02/07 11:45
Client ID:	MW-204D-20071002-01	Date Received:	10/03/07
Sample Location:	WAYLAND, MA	Field Prep:	Field Filtered
Matrix:	Water		
Anaytical Method:	60,8260B		
Analytical Date:	10/12/07 18:49		
Analyst:	BS		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
Methylene chloride	ND		ug/l	5.0	1
1,1-Dichloroethane	ND		ug/l	0.75	1
Chloroform	ND		ug/l	0.75	1
Carbon tetrachloride	ND		ug/l	0.50	1
1,2-Dichloropropane	ND		ug/l	1.8	1
Dibromochloromethane	ND		ug/l	0.50	1
1,1,2-Trichloroethane	ND		ug/l	0.75	1
Tetrachloroethene	ND		ug/l	0.50	1
Chlorobenzene	ND		ug/l	0.50	1
1,2-Dichloroethane	ND		ug/l	0.50	1
1,1,1-Trichloroethane	ND		ug/l	0.50	1
Bromodichloromethane	ND		ug/l	0.50	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	1
Bromoform	ND		ug/l	2.0	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	1
Chloromethane	ND		ug/l	2.5	1
Vinyl chloride	ND		ug/l	1.0	1
Chloroethane	ND		ug/l	1.0	1
1,1-Dichloroethene	ND		ug/l	0.50	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	1
Trichloroethene	5.2		ug/l	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.5	1
1,3-Dichlorobenzene	ND		ug/l	2.5	1
1,4-Dichlorobenzene	ND		ug/l	2.5	1
cis-1,2-Dichloroethene	16		ug/l	0.50	1
Dichlorodifluoromethane	ND		ug/l	5.0	1
1,2-Dibromoethane	ND		ug/l	2.0	1
1,3-Dichloropropane	ND		ug/l	2.5	1
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	1

Project Name: RAYTHEON WAYLAND **Lab Number:** L0714606

Project Number: 0061882 **Report Date:** 10/15/07

SAMPLE RESULTS

Lab ID:	L0714606-06	Date Collected:	10/02/07 11:45
Client ID:	MW-204D-20071002-01	Date Received:	10/03/07
Sample Location:	WAYLAND, MA	Field Prep:	Field Filtered

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
o-Chlorotoluene	ND		ug/l	2.5	1
p-Chlorotoluene	ND		ug/l	2.5	1
Hexachlorobutadiene	ND		ug/l	0.60	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	1
1,4-Dioxane	ND		ug/l	250	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	112		70-130
Toluene-d8	92		70-130
4-Bromofluorobenzene	107		70-130
Dibromofluoromethane	110		70-130

Project Name: RAYTHEON WAYLAND **Lab Number:** L0714606

Project Number: 0061882 **Report Date:** 10/15/07

SAMPLE RESULTS

Lab ID:	L0714606-07	Date Collected:	10/02/07 13:15
Client ID:	MW-107-20071002-01	Date Received:	10/03/07
Sample Location:	WAYLAND, MA	Field Prep:	Not Specified
Matrix:	Water		
Anaytical Method:	60,8260B		
Analytical Date:	10/12/07 19:19		
Analyst:	BS		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
Methylene chloride	ND		ug/l	10	2
1,1-Dichloroethane	ND		ug/l	1.5	2
Chloroform	ND		ug/l	1.5	2
Carbon tetrachloride	ND		ug/l	1.0	2
1,2-Dichloropropane	ND		ug/l	3.5	2
Dibromochloromethane	ND		ug/l	1.0	2
1,1,2-Trichloroethane	ND		ug/l	1.5	2
Tetrachloroethene	ND		ug/l	1.0	2
Chlorobenzene	ND		ug/l	1.0	2
1,2-Dichloroethane	ND		ug/l	1.0	2
1,1,1-Trichloroethane	ND		ug/l	1.0	2
Bromodichloromethane	ND		ug/l	1.0	2
trans-1,3-Dichloropropene	ND		ug/l	1.0	2
cis-1,3-Dichloropropene	ND		ug/l	1.0	2
Bromoform	ND		ug/l	4.0	2
1,1,2,2-Tetrachloroethane	ND		ug/l	1.0	2
Chloromethane	ND		ug/l	5.0	2
Vinyl chloride	ND		ug/l	2.0	2
Chloroethane	ND		ug/l	2.0	2
1,1-Dichloroethene	ND		ug/l	1.0	2
trans-1,2-Dichloroethene	ND		ug/l	1.5	2
Trichloroethene	57		ug/l	1.0	2
1,2-Dichlorobenzene	ND		ug/l	5.0	2
1,3-Dichlorobenzene	ND		ug/l	5.0	2
1,4-Dichlorobenzene	ND		ug/l	5.0	2
cis-1,2-Dichloroethene	4.6		ug/l	1.0	2
Dichlorodifluoromethane	ND		ug/l	10	2
2,2-Dichloropropane	ND		ug/l	5.0	2
1,2-Dibromoethane	ND		ug/l	4.0	2
1,3-Dichloropropane	ND		ug/l	5.0	2

Project Name: RAYTHEON WAYLAND **Lab Number:** L0714606

Project Number: 0061882 **Report Date:** 10/15/07

SAMPLE RESULTS

Lab ID:	L0714606-07	Date Collected:	10/02/07 13:15
Client ID:	MW-107-20071002-01	Date Received:	10/03/07
Sample Location:	WAYLAND, MA	Field Prep:	Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	2
o-Chlorotoluene	ND		ug/l	5.0	2
p-Chlorotoluene	ND		ug/l	5.0	2
Hexachlorobutadiene	ND		ug/l	1.2	2
1,2,4-Trichlorobenzene	ND		ug/l	5.0	2

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	110		70-130
Toluene-d8	92		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	109		70-130

Project Name: RAYTHEON WAYLAND **Lab Number:** L0714606

Project Number: 0061882 **Report Date:** 10/15/07

SAMPLE RESULTS

Lab ID:	L0714606-08	Date Collected:	10/02/07 00:00
Client ID:	DUP-007-20071002-01	Date Received:	10/03/07
Sample Location:	WAYLAND, MA	Field Prep:	Not Specified
Matrix:	Water		
Anaytical Method:	60,8260B		
Analytical Date:	10/12/07 19:49		
Analyst:	BS		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
Methylene chloride	ND		ug/l	10	2
1,1-Dichloroethane	ND		ug/l	1.5	2
Chloroform	ND		ug/l	1.5	2
Carbon tetrachloride	ND		ug/l	1.0	2
1,2-Dichloropropane	ND		ug/l	3.5	2
Dibromochloromethane	ND		ug/l	1.0	2
1,1,2-Trichloroethane	ND		ug/l	1.5	2
Tetrachloroethene	ND		ug/l	1.0	2
Chlorobenzene	ND		ug/l	1.0	2
1,2-Dichloroethane	ND		ug/l	1.0	2
1,1,1-Trichloroethane	ND		ug/l	1.0	2
Bromodichloromethane	ND		ug/l	1.0	2
trans-1,3-Dichloropropene	ND		ug/l	1.0	2
cis-1,3-Dichloropropene	ND		ug/l	1.0	2
Bromoform	ND		ug/l	4.0	2
1,1,2,2-Tetrachloroethane	ND		ug/l	1.0	2
Chloromethane	ND		ug/l	5.0	2
Vinyl chloride	ND		ug/l	2.0	2
Chloroethane	ND		ug/l	2.0	2
1,1-Dichloroethene	ND		ug/l	1.0	2
trans-1,2-Dichloroethene	ND		ug/l	1.5	2
Trichloroethene	66		ug/l	1.0	2
1,2-Dichlorobenzene	ND		ug/l	5.0	2
1,3-Dichlorobenzene	ND		ug/l	5.0	2
1,4-Dichlorobenzene	ND		ug/l	5.0	2
cis-1,2-Dichloroethene	5.1		ug/l	1.0	2
Dichlorodifluoromethane	ND		ug/l	10	2
2,2-Dichloropropane	ND		ug/l	5.0	2
1,2-Dibromoethane	ND		ug/l	4.0	2
1,3-Dichloropropane	ND		ug/l	5.0	2

Project Name: RAYTHEON WAYLAND **Lab Number:** L0714606

Project Number: 0061882 **Report Date:** 10/15/07

SAMPLE RESULTS

Lab ID:	L0714606-08	Date Collected:	10/02/07 00:00
Client ID:	DUP-007-20071002-01	Date Received:	10/03/07
Sample Location:	WAYLAND, MA	Field Prep:	Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	2
o-Chlorotoluene	ND		ug/l	5.0	2
p-Chlorotoluene	ND		ug/l	5.0	2
Hexachlorobutadiene	ND		ug/l	1.2	2
1,2,4-Trichlorobenzene	ND		ug/l	5.0	2

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	112		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	109		70-130

Project Name: RAYTHEON WAYLAND **Lab Number:** L0714606

Project Number: 0061882 **Report Date:** 10/15/07

SAMPLE RESULTS

Lab ID:	L0714606-09 R	Date Collected:	10/02/07 00:00
Client ID:	DUP-005-20071002-01	Date Received:	10/03/07
Sample Location:	WAYLAND, MA	Field Prep:	Field Filtered
Matrix:	Water		
Anaytical Method:	60,8260B		
Analytical Date:	10/13/07 18:14		
Analyst:	BS		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
Methylene chloride	ND		ug/l	5.0	1
1,1-Dichloroethane	ND		ug/l	0.75	1
Chloroform	ND		ug/l	0.75	1
Carbon tetrachloride	ND		ug/l	0.50	1
1,2-Dichloropropane	ND		ug/l	1.8	1
Dibromochloromethane	ND		ug/l	0.50	1
1,1,2-Trichloroethane	ND		ug/l	0.75	1
Tetrachloroethene	ND		ug/l	0.50	1
Chlorobenzene	ND		ug/l	0.50	1
1,2-Dichloroethane	ND		ug/l	0.50	1
1,1,1-Trichloroethane	ND		ug/l	0.50	1
Bromodichloromethane	ND		ug/l	0.50	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	1
Bromoform	ND		ug/l	2.0	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	1
Chloromethane	ND		ug/l	2.5	1
Vinyl chloride	ND		ug/l	1.0	1
Chloroethane	ND		ug/l	1.0	1
1,1-Dichloroethene	ND		ug/l	0.50	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	1
Trichloroethene	10		ug/l	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.5	1
1,3-Dichlorobenzene	ND		ug/l	2.5	1
1,4-Dichlorobenzene	ND		ug/l	2.5	1
cis-1,2-Dichloroethene	1.2		ug/l	0.50	1
Dichlorodifluoromethane	ND		ug/l	5.0	1
2,2-Dichloropropane	ND		ug/l	2.5	1
1,2-Dibromoethane	ND		ug/l	2.0	1
1,3-Dichloropropane	ND		ug/l	2.5	1

Project Name: RAYTHEON WAYLAND **Lab Number:** L0714606

Project Number: 0061882 **Report Date:** 10/15/07

SAMPLE RESULTS

Lab ID:	L0714606-09 R	Date Collected:	10/02/07 00:00
Client ID:	DUP-005-20071002-01	Date Received:	10/03/07
Sample Location:	WAYLAND, MA	Field Prep:	Field Filtered

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	1
o-Chlorotoluene	ND		ug/l	2.5	1
p-Chlorotoluene	ND		ug/l	2.5	1
Hexachlorobutadiene	ND		ug/l	0.60	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	107		70-130
Dibromofluoromethane	103		70-130

Project Name: RAYTHEON WAYLAND **Lab Number:** L0714606

Project Number: 0061882 **Report Date:** 10/15/07

SAMPLE RESULTS

Lab ID:	L0714606-10 R	Date Collected:	10/02/07 00:00
Client ID:	DUP-006-20071002-01	Date Received:	10/03/07
Sample Location:	WAYLAND, MA	Field Prep:	Field Filtered
Matrix:	Water		
Anaytical Method:	60,8260B		
Analytical Date:	10/13/07 18:53		
Analyst:	BS		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
Methylene chloride	ND		ug/l	5.0	1
1,1-Dichloroethane	ND		ug/l	0.75	1
Chloroform	ND		ug/l	0.75	1
Carbon tetrachloride	ND		ug/l	0.50	1
1,2-Dichloropropane	ND		ug/l	1.8	1
Dibromochloromethane	ND		ug/l	0.50	1
1,1,2-Trichloroethane	ND		ug/l	0.75	1
Tetrachloroethene	ND		ug/l	0.50	1
Chlorobenzene	ND		ug/l	0.50	1
1,2-Dichloroethane	ND		ug/l	0.50	1
1,1,1-Trichloroethane	ND		ug/l	0.50	1
Bromodichloromethane	ND		ug/l	0.50	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	1
Bromoform	ND		ug/l	2.0	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	1
Chloromethane	ND		ug/l	2.5	1
Vinyl chloride	ND		ug/l	1.0	1
Chloroethane	ND		ug/l	1.0	1
1,1-Dichloroethene	ND		ug/l	0.50	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	1
Trichloroethene	4.3		ug/l	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.5	1
1,3-Dichlorobenzene	ND		ug/l	2.5	1
1,4-Dichlorobenzene	ND		ug/l	2.5	1
cis-1,2-Dichloroethene	17		ug/l	0.50	1
Dichlorodifluoromethane	ND		ug/l	5.0	1
2,2-Dichloropropane	ND		ug/l	2.5	1
1,2-Dibromoethane	ND		ug/l	2.0	1
1,3-Dichloropropane	ND		ug/l	2.5	1

Project Name: RAYTHEON WAYLAND **Lab Number:** L0714606

Project Number: 0061882 **Report Date:** 10/15/07

SAMPLE RESULTS

Lab ID:	L0714606-10 R	Date Collected:	10/02/07 00:00
Client ID:	DUP-006-20071002-01	Date Received:	10/03/07
Sample Location:	WAYLAND, MA	Field Prep:	Field Filtered

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	1
o-Chlorotoluene	ND		ug/l	2.5	1
p-Chlorotoluene	ND		ug/l	2.5	1
Hexachlorobutadiene	ND		ug/l	0.60	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	96		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	106		70-130
Dibromofluoromethane	104		70-130

Project Name: RAYTHEON WAYLAND **Lab Number:** L0714606

Project Number: 0061882 **Report Date:** 10/15/07

Method Blank Analysis
Batch Quality Control

Analytical Method: 60,8260B
Analytical Date: 10/12/07 11:16
Analyst: BS

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by MCP 8260B for sample(s): 01-03,05-08 Batch: WG297880-3				
Methylene chloride	ND		ug/l	5.0
1,1-Dichloroethane	ND		ug/l	0.75
Chloroform	ND		ug/l	0.75
Carbon tetrachloride	ND		ug/l	0.50
1,2-Dichloropropane	ND		ug/l	1.8
Dibromochloromethane	ND		ug/l	0.50
1,1,2-Trichloroethane	ND		ug/l	0.75
Tetrachloroethene	ND		ug/l	0.50
Chlorobenzene	ND		ug/l	0.50
Trichlorofluoromethane	ND		ug/l	2.5
1,2-Dichloroethane	ND		ug/l	0.50
1,1,1-Trichloroethane	ND		ug/l	0.50
Bromodichloromethane	ND		ug/l	0.50
trans-1,3-Dichloropropene	ND		ug/l	0.50
cis-1,3-Dichloropropene	ND		ug/l	0.50
1,1-Dichloropropene	ND		ug/l	2.5
Bromoform	ND		ug/l	2.0
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50
Benzene	ND		ug/l	0.50
Toluene	ND		ug/l	0.75
Ethylbenzene	ND		ug/l	0.50
Chloromethane	ND		ug/l	2.5
Bromomethane	ND		ug/l	1.0
Vinyl chloride	ND		ug/l	1.0
Chloroethane	ND		ug/l	1.0
1,1-Dichloroethene	ND		ug/l	0.50
trans-1,2-Dichloroethene	ND		ug/l	0.75
Trichloroethene	ND		ug/l	0.50
1,2-Dichlorobenzene	ND		ug/l	2.5
1,3-Dichlorobenzene	ND		ug/l	2.5
1,4-Dichlorobenzene	ND		ug/l	2.5

Project Name: RAYTHEON WAYLAND **Lab Number:** L0714606

Project Number: 0061882 **Report Date:** 10/15/07

Method Blank Analysis
Batch Quality Control

Analytical Method: 60,8260B
Analytical Date: 10/12/07 11:16
Analyst: BS

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by MCP 8260B for sample(s): 01-03,05-08 Batch: WG297880-3				
Methyl tert butyl ether	ND		ug/l	1.0
p/m-Xylene	ND		ug/l	1.0
o-Xylene	ND		ug/l	1.0
cis-1,2-Dichloroethene	ND		ug/l	0.50
Dibromomethane	ND		ug/l	5.0
1,2,3-Trichloropropane	ND		ug/l	5.0
Styrene	ND		ug/l	1.0
Dichlorodifluoromethane	ND		ug/l	5.0
Acetone	ND		ug/l	5.0
Carbon disulfide	ND		ug/l	5.0
2-Butanone	ND		ug/l	5.0
4-Methyl-2-pentanone	ND		ug/l	5.0
2-Hexanone	ND		ug/l	5.0
Bromochloromethane	ND		ug/l	2.5
Tetrahydrofuran	ND		ug/l	10
2,2-Dichloropropane	ND		ug/l	2.5
1,2-Dibromoethane	ND		ug/l	2.0
1,3-Dichloropropane	ND		ug/l	2.5
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50
Bromobenzene	ND		ug/l	2.5
n-Butylbenzene	ND		ug/l	0.50
sec-Butylbenzene	ND		ug/l	0.50
tert-Butylbenzene	ND		ug/l	2.5
o-Chlorotoluene	ND		ug/l	2.5
p-Chlorotoluene	ND		ug/l	2.5
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5
Hexachlorobutadiene	ND		ug/l	0.60
Isopropylbenzene	ND		ug/l	0.50
p-Isopropyltoluene	ND		ug/l	0.50
Naphthalene	ND		ug/l	2.5
n-Propylbenzene	ND		ug/l	0.50

Project Name: RAYTHEON WAYLAND **Lab Number:** L0714606

Project Number: 0061882 **Report Date:** 10/15/07

Method Blank Analysis
Batch Quality Control

Analytical Method: 60,8260B
Analytical Date: 10/12/07 11:16
Analyst: BS

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by MCP 8260B for sample(s): 01-03,05-08 Batch: WG297880-3				
1,2,3-Trichlorobenzene	ND		ug/l	2.5
1,2,4-Trichlorobenzene	ND		ug/l	2.5
1,3,5-Trimethylbenzene	ND		ug/l	2.5
1,2,4-Trimethylbenzene	ND		ug/l	2.5
Ethyl ether	ND		ug/l	2.5
Isopropyl Ether	ND		ug/l	2.0
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.0
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0
1,4-Dioxane	ND		ug/l	250

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	107		70-130
Dibromofluoromethane	105		70-130

Project Name: RAYTHEON WAYLAND **Lab Number:** L0714606

Project Number: 0061882 **Report Date:** 10/15/07

Method Blank Analysis
Batch Quality Control

Analytical Method: 60,8260B
Analytical Date: 10/13/07 16:57
Analyst: BS

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by MCP 8260B for sample(s): 04,09-10 Batch: WG297880-9				
Methylene chloride	ND		ug/l	5.0
1,1-Dichloroethane	ND		ug/l	0.75
Chloroform	ND		ug/l	0.75
Carbon tetrachloride	ND		ug/l	0.50
1,2-Dichloropropane	ND		ug/l	1.8
Dibromochloromethane	ND		ug/l	0.50
1,1,2-Trichloroethane	ND		ug/l	0.75
Tetrachloroethene	ND		ug/l	0.50
Chlorobenzene	ND		ug/l	0.50
1,2-Dichloroethane	ND		ug/l	0.50
1,1,1-Trichloroethane	ND		ug/l	0.50
Bromodichloromethane	ND		ug/l	0.50
trans-1,3-Dichloropropene	ND		ug/l	0.50
cis-1,3-Dichloropropene	ND		ug/l	0.50
Bromoform	ND		ug/l	2.0
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50
Chloromethane	ND		ug/l	2.5
Vinyl chloride	ND		ug/l	1.0
Chloroethane	ND		ug/l	1.0
1,1-Dichloroethene	ND		ug/l	0.50
trans-1,2-Dichloroethene	ND		ug/l	0.75
Trichloroethene	ND		ug/l	0.50
1,2-Dichlorobenzene	ND		ug/l	2.5
1,3-Dichlorobenzene	ND		ug/l	2.5
1,4-Dichlorobenzene	ND		ug/l	2.5
cis-1,2-Dichloroethene	ND		ug/l	0.50
Dichlorodifluoromethane	ND		ug/l	5.0
2,2-Dichloropropane	ND		ug/l	2.5
1,2-Dibromoethane	ND		ug/l	2.0
1,3-Dichloropropane	ND		ug/l	2.5
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50

Project Name: RAYTHEON WAYLAND **Lab Number:** L0714606

Project Number: 0061882 **Report Date:** 10/15/07

Method Blank Analysis
Batch Quality Control

Analytical Method: 60,8260B
Analytical Date: 10/13/07 16:57
Analyst: BS

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by MCP 8260B for sample(s): 04,09-10 Batch: WG297880-9				
o-Chlorotoluene	ND		ug/l	2.5
p-Chlorotoluene	ND		ug/l	2.5
Hexachlorobutadiene	ND		ug/l	0.60
1,2,4-Trichlorobenzene	ND		ug/l	2.5

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	93		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	102		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: RAYTHEON WAYLAND
Project Number: 0061882

Lab Number: L0714606
Report Date: 10/15/07

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B Associated sample(s): 01-03,05-08 Batch: WG297880-1 WG297880-2					
Methylene chloride	98	93	70-130	5	25
1,1-Dichloroethane	104	99	70-130	5	25
Chloroform	106	99	70-130	7	25
Carbon tetrachloride	118	115	70-130	3	25
1,2-Dichloropropane	104	100	70-130	4	25
Dibromochloromethane	101	98	70-130	3	25
1,1,2-Trichloroethane	97	93	70-130	4	25
Tetrachloroethene	116	108	70-130	7	25
Chlorobenzene	102	98	70-130	4	25
Trichlorofluoromethane	114	110	70-130	4	25
1,2-Dichloroethane	109	108	70-130	1	25
1,1,1-Trichloroethane	112	108	70-130	4	25
Bromodichloromethane	105	102	70-130	3	25
trans-1,3-Dichloropropene	98	96	70-130	2	25
cis-1,3-Dichloropropene	108	103	70-130	5	25
1,1-Dichloropropene	107	102	70-130	5	25
Bromoform	110	102	70-130	8	50
1,1,2,2-Tetrachloroethane	90	85	70-130	6	25
Benzene	104	100	70-130	4	25
Toluene	100	94	70-130	6	25
Ethylbenzene	103	98	70-130	5	25

Lab Control Sample Analysis
Batch Quality Control

Project Name: RAYTHEON WAYLAND
Project Number: 0061882

Lab Number: L0714606
Report Date: 10/15/07

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B Associated sample(s): 01-03,05-08 Batch: WG297880-1 WG297880-2					
Chloromethane	70	**67**	70-130	4	50
Bromomethane	81	87	70-130	7	50
Vinyl chloride	81	77	70-130	5	25
Chloroethane	104	97	70-130	7	25
1,1-Dichloroethene	109	104	70-130	5	25
trans-1,2-Dichloroethene	106	100	70-130	6	25
Trichloroethene	111	107	70-130	4	25
1,2-Dichlorobenzene	98	95	70-130	3	25
1,3-Dichlorobenzene	101	97	70-130	4	25
1,4-Dichlorobenzene	102	95	70-130	7	25
Methyl tert butyl ether	107	98	70-130	9	25
p/m-Xylene	107	100	70-130	7	25
o-Xylene	108	102	70-130	6	25
cis-1,2-Dichloroethene	106	102	70-130	4	25
Dibromomethane	110	104	70-130	6	25
1,2,3-Trichloropropane	102	101	70-130	1	25
Styrene	106	100	70-130	6	25
Dichlorodifluoromethane	**51**	**48**	70-130	6	50
Acetone	**134**	114	70-130	16	50
Carbon disulfide	103	93	70-130	10	25
2-Butanone	118	111	70-130	6	50

Lab Control Sample Analysis
Batch Quality Control

Project Name: RAYTHEON WAYLAND
Project Number: 0061882

Lab Number: L0714606
Report Date: 10/15/07

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B Associated sample(s): 01-03,05-08 Batch: WG297880-1 WG297880-2					
4-Methyl-2-pentanone	115	107	70-130	7	50
2-Hexanone	102	93	70-130	9	50
Bromochloromethane	112	108	70-130	4	25
Tetrahydrofuran	111	103	70-130	7	25
2,2-Dichloropropane	121	114	70-130	6	50
1,2-Dibromoethane	99	97	70-130	2	25
1,3-Dichloropropane	96	92	70-130	4	25
1,1,1,2-Tetrachloroethane	105	102	70-130	3	25
Bromobenzene	102	98	70-130	4	25
n-Butylbenzene	105	95	70-130	10	25
sec-Butylbenzene	109	101	70-130	8	25
tert-Butylbenzene	108	102	70-130	6	25
o-Chlorotoluene	100	93	70-130	7	25
p-Chlorotoluene	99	96	70-130	3	25
1,2-Dibromo-3-chloropropane	86	87	70-130	1	50
Hexachlorobutadiene	83	76	70-130	9	25
Isopropylbenzene	116	110	70-130	5	25
p-Isopropyltoluene	110	102	70-130	8	25
Naphthalene	82	82	70-130	0	25
n-Propylbenzene	106	100	70-130	6	25
1,2,3-Trichlorobenzene	88	85	70-130	3	25

Lab Control Sample Analysis
Batch Quality Control

Project Name: RAYTHEON WAYLAND
Project Number: 0061882

Lab Number: L0714606
Report Date: 10/15/07

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B Associated sample(s): 01-03,05-08 Batch: WG297880-1 WG297880-2					
1,2,4-Trichlorobenzene	91	88	70-130	3	25
1,3,5-Trimethylbenzene	106	99	70-130	7	25
1,2,4-Trimethylbenzene	106	99	70-130	7	25
Ethyl ether	106	98	70-130	8	25
Isopropyl Ether	102	93	70-130	9	25
Ethyl-Tert-Butyl-Ether	107	99	70-130	8	25
Tertiary-Amyl Methyl Ether	107	99	70-130	8	25
1,4-Dioxane	**142**	**150**	70-130	5	50

Surrogate	LCS %Recovery	Qualifier	LCSD %Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		102		70-130
Toluene-d8	95		96		70-130
4-Bromofluorobenzene	97		97		70-130
Dibromofluoromethane	103		105		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: RAYTHEON WAYLAND
Project Number: 0061882

Lab Number: L0714606
Report Date: 10/15/07

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B Associated sample(s): 04,09-10 Batch: WG297880-7 WG297880-8					
Methylene chloride	86	84	70-130	2	25
1,1-Dichloroethane	82	83	70-130	1	25
Chloroform	84	86	70-130	2	25
Carbon tetrachloride	79	79	70-130	0	25
1,2-Dichloropropane	81	84	70-130	4	25
Dibromochloromethane	86	86	70-130	0	25
1,1,2-Trichloroethane	77	80	70-130	4	25
Tetrachloroethene	81	82	70-130	1	25
Chlorobenzene	80	83	70-130	4	25
1,2-Dichloroethane	81	82	70-130	1	25
1,1,1-Trichloroethane	82	84	70-130	2	25
Bromodichloromethane	83	83	70-130	0	25
trans-1,3-Dichloropropene	77	78	70-130	1	25
cis-1,3-Dichloropropene	82	84	70-130	2	25
Bromoform	85	86	70-130	1	50
1,1,2,2-Tetrachloroethane	89	93	70-130	4	25
Chloromethane	88	88	70-130	0	50
Vinyl chloride	82	86	70-130	5	25
Chloroethane	83	86	70-130	4	25
1,1-Dichloroethene	82	87	70-130	6	25
trans-1,2-Dichloroethene	84	88	70-130	5	25

Lab Control Sample Analysis
Batch Quality Control

Project Name: RAYTHEON WAYLAND
Project Number: 0061882

Lab Number: L0714606
Report Date: 10/15/07

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B Associated sample(s): 04,09-10 Batch: WG297880-7 WG297880-8					
Trichloroethene	77	80	70-130	4	25
1,2-Dichlorobenzene	82	82	70-130	0	25
1,3-Dichlorobenzene	84	84	70-130	0	25
1,4-Dichlorobenzene	85	84	70-130	1	25
cis-1,2-Dichloroethene	83	84	70-130	1	25
Dichlorodifluoromethane	100	103	70-130	3	50
2,2-Dichloropropane	88	90	70-130	2	50
1,2-Dibromoethane	80	82	70-130	2	25
1,3-Dichloropropane	79	81	70-130	3	25
1,1,1,2-Tetrachloroethane	78	79	70-130	1	25
o-Chlorotoluene	80	82	70-130	2	25
p-Chlorotoluene	82	84	70-130	2	25
Hexachlorobutadiene	79	85	70-130	7	25
1,2,4-Trichlorobenzene	77	80	70-130	4	25

Surrogate	LCS %Recovery	Qualifier	LCSD %Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99		100		70-130
Toluene-d8	97		97		70-130
4-Bromofluorobenzene	100		98		70-130
Dibromofluoromethane	105		105		70-130

METALS

Project Name:	RAYTHEON WAYLAND	**Lab Number:**	L0714606
Project Number:	0061882	**Report Date:**	10/15/07

SAMPLE RESULTS

Lab ID:	L0714606-01	Date Collected:	10/02/07 08:35
Client ID:	MW-203M-20071002-01	Date Received:	10/03/07
Sample Location:	WAYLAND, MA	Field Prep:	Field Filtered
Matrix:	Water		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals by MCP 6000/7000 series										
Sodium, Dissolved	97		mg/l	2.0	1	10/08/07 16:30	10/09/07 16:42	EPA 3005A	60,6010B	AI

Project Name:	RAYTHEON WAYLAND	**Lab Number:**	L0714606
Project Number:	0061882	**Report Date:**	10/15/07

SAMPLE RESULTS

Lab ID:	L0714606-02	Date Collected:	10/02/07 09:00
Client ID:	MW-204M-20071002-01	Date Received:	10/03/07
Sample Location:	WAYLAND, MA	Field Prep:	Field Filtered
Matrix:	Water		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals by MCP 6000/7000 series										
Sodium, Dissolved	34		mg/l	2.0	1	10/08/07 16:30	10/09/07 16:53	EPA 3005A	60,6010B	AI

Project Name:	RAYTHEON WAYLAND	**Lab Number:**	L0714606
Project Number:	0061882	**Report Date:**	10/15/07

SAMPLE RESULTS

Lab ID:	L0714606-03	Date Collected:	10/02/07 09:40
Client ID:	MW-203S-20071002-01	Date Received:	10/03/07
Sample Location:	WAYLAND, MA	Field Prep:	Field Filtered
Matrix:	Water		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals by MCP 6000/7000 series										
Sodium, Dissolved	52		mg/l	2.0	1	10/08/07 16:30	10/09/07 16:56	EPA 3005A	60,6010B	AI

Project Name:	RAYTHEON WAYLAND	**Lab Number:**	L0714606
Project Number:	0061882	**Report Date:**	10/15/07

SAMPLE RESULTS

Lab ID:	L0714606-04	Date Collected:	10/02/07 11:15
Client ID:	MW-115-20071002-01	Date Received:	10/03/07
Sample Location:	WAYLAND, MA	Field Prep:	Field Filtered
Matrix:	Water		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals by MCP 6000/7000 series										
Sodium, Dissolved	56		mg/l	2.0	1	10/08/07 16:30	10/09/07 17:00	EPA 3005A	60,6010B	AI

Project Name:	RAYTHEON WAYLAND	**Lab Number:**	L0714606
Project Number:	0061882	**Report Date:**	10/15/07

SAMPLE RESULTS

Lab ID:	L0714606-05	Date Collected:	10/02/07 12:45
Client ID:	MW-113-20071002-01	Date Received:	10/03/07
Sample Location:	WAYLAND, MA	Field Prep:	Field Filtered
Matrix:	Water		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals by MCP 6000/7000 series										
Sodium, Dissolved	29		mg/l	2.0	1	10/08/07 16:30	10/09/07 17:04	EPA 3005A	60,6010B	AI

Project Name:	RAYTHEON WAYLAND	**Lab Number:**	L0714606
Project Number:	0061882	**Report Date:**	10/15/07

SAMPLE RESULTS

Lab ID:	L0714606-06	Date Collected:	10/02/07 11:45
Client ID:	MW-204D-20071002-01	Date Received:	10/03/07
Sample Location:	WAYLAND, MA	Field Prep:	Field Filtered
Matrix:	Water		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals by MCP 6000/7000 series										
Sodium, Dissolved	120		mg/l	2.0	1	10/08/07 16:30	10/09/07 17:31	EPA 3005A	60,6010B	AI

Project Name:	RAYTHEON WAYLAND	**Lab Number:**	L0714606
Project Number:	0061882	**Report Date:**	10/15/07

SAMPLE RESULTS

Lab ID:	L0714606-09	Date Collected:	10/02/07 00:00
Client ID:	DUP-005-20071002-01	Date Received:	10/03/07
Sample Location:	WAYLAND, MA	Field Prep:	Field Filtered
Matrix:	Water		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals by MCP 6000/7000 series										
Sodium, Dissolved	30		mg/l	2.0	1	10/08/07 16:30	10/09/07 17:35	EPA 3005A	60,6010B	AI

Project Name:	RAYTHEON WAYLAND	**Lab Number:**	L0714606
Project Number:	0061882	**Report Date:**	10/15/07

SAMPLE RESULTS

Lab ID:	L0714606-10	Date Collected:	10/02/07 00:00
Client ID:	DUP-006-20071002-01	Date Received:	10/03/07
Sample Location:	WAYLAND, MA	Field Prep:	Field Filtered
Matrix:	Water		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals by MCP 6000/7000 series										
Sodium, Dissolved	120		mg/l	2.0	1	10/08/07 16:30	10/09/07 17:38	EPA 3005A	60,6010B	AI

Project Name: RAYTHEON WAYLAND **Lab Number:** L0714606

Project Number: 0061882 **Report Date:** 10/15/07

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Dissolved Metals by MCP 6000/7000 series for sample(s): 01-06,09-10 Batch: WG297218-1									
Sodium, Dissolved	ND		mg/l	2.0	1	10/08/07 16:30	10/09/07 16:25	60,6010B	AI

Prep Information

Digestion Method: EPA 3005A

Lab Control Sample Analysis
Batch Quality Control

Project Name: RAYTHEON WAYLAND
Project Number: 0061882

Lab Number: L0714606
Report Date: 10/15/07

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Dissolved Metals by MCP 6000/7000 series Associated sample(s): 01-06,09-10 Batch: WG297218-2 WG297218-3					
Sodium, Dissolved	96	95	80-120	1	20

Project Name: RAYTHEON WAYLAND
Project Number: 0061882

Lab Number: L0714606
Report Date: 10/15/07

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp	Pres	Seal	Analysis
L0714606-01A	Vial HCl preserved	A	N/A	3.9 C	Y	Absent	MCP-8260-04
L0714606-01B	Vial HCl preserved	A	N/A	3.9 C	Y	Absent	MCP-8260-04
L0714606-01C	Plastic 500ml HNO3 preserved	A	<2	3.9 C	Y	Absent	MCP-NA-6010S
L0714606-02A	Vial HCl preserved	A	N/A	3.9 C	Y	Absent	MCP-8260-04
L0714606-02B	Vial HCl preserved	A	N/A	3.9 C	Y	Absent	MCP-8260-04
L0714606-02C	Plastic 500ml HNO3 preserved	A	<2	3.9 C	Y	Absent	MCP-NA-6010S
L0714606-03A	Vial HCl preserved	A	N/A	3.9 C	Y	Absent	MCP-8260-04
L0714606-03B	Vial HCl preserved	A	N/A	3.9 C	Y	Absent	MCP-8260-04
L0714606-03C	Plastic 500ml HNO3 preserved	A	<2	3.9 C	Y	Absent	MCP-NA-6010S
L0714606-04A	Vial HCl preserved	A	N/A	3.9 C	Y	Absent	MCP-8260-04
L0714606-04B	Vial HCl preserved	A	N/A	3.9 C	Y	Absent	MCP-8260-04
L0714606-04C	Plastic 500ml HNO3 preserved	A	<2	3.9 C	Y	Absent	MCP-NA-6010S
L0714606-05A	Vial HCl preserved	A	N/A	3.9 C	Y	Absent	MCP-8260-04
L0714606-05B	Vial HCl preserved	A	N/A	3.9 C	Y	Absent	MCP-8260-04
L0714606-05C	Plastic 500ml HNO3 preserved	A	<2	3.9 C	Y	Absent	MCP-NA-6010S
L0714606-06A	Vial HCl preserved	A	N/A	3.9 C	Y	Absent	MCP-8260-04
L0714606-06B	Vial HCl preserved	A	N/A	3.9 C	Y	Absent	MCP-8260-04
L0714606-06C	Plastic 500ml HNO3 preserved	A	<2	3.9 C	Y	Absent	MCP-NA-6010S
L0714606-07A	Vial Na2S2O3 preserved	A	N/A	3.9 C	Y	Absent	MCP-8260-04
L0714606-07B	Vial Na2S2O3 preserved	A	N/A	3.9 C	Y	Absent	MCP-8260-04
L0714606-08A	Vial Na2S2O3 preserved	A	N/A	3.9 C	Y	Absent	MCP-8260-04
L0714606-08B	Vial Na2S2O3 preserved	A	N/A	3.9 C	Y	Absent	MCP-8260-04
L0714606-09A	Vial HCl preserved	A	N/A	3.9 C	Y	Absent	MCP-8260-04
L0714606-09B	Vial HCl preserved	A	N/A	3.9 C	Y	Absent	MCP-8260-04
L0714606-09C	Plastic 500ml HNO3 preserved	A	<2	3.9 C	Y	Absent	MCP-NA-6010S
L0714606-10A	Vial HCl preserved	A	N/A	3.9 C	Y	Absent	MCP-8260-04
L0714606-10B	Vial HCl preserved	A	N/A	3.9 C	Y	Absent	MCP-8260-04
L0714606-10C	Plastic 500ml HNO3 preserved	A	<2	3.9 C	Y	Absent	MCP-NA-6010S

Project Name:	RAYTHEON WAYLAND	**Lab Number:**	L0714606
Project Number:	0061882	**Report Date:**	10/15/07

GLOSSARY

Acronyms

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.

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.

NI - Not Ignitable.

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.

ND - Not detected at the reported detection limit for the sample.

RDL - Reported Detection Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RDL 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.

Terms

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

The following data qualifiers have been identified for use under the CT DEP Reasonable Confidence Protocols.

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.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

J - Estimated value. The analyte was tentatively identified; the quantitation is an estimation. (Tentatively identified compounds only.)

Standard Qualifiers

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

Report Format: Not Specified

Project Name:	RAYTHEON WAYLAND	**Lab Number:**	L0714606
Project Number:	0061882	**Report Date:**	10/15/07

REFERENCES

60 Quality Assurance and Quality Control Requirements and Performance Standards for SW-846 Methods. MADEP BWSC. WSC-CAM-IIA (Revision 4), WSC-CAM-V C (Revision 2), WSC-CAM-IIIA (Revision 5). May 2004.

LIMITATION OF LIABILITIES

Alpha Woods Hole Labs 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 Woods Hole Labs shall be to re-perform the work at it's own expense. In no event shall Alpha Woods Hole Labs 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 Woods Hole Labs.

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.

F

10150715:08

CHAIN OF CUSTODY

PAGE 1 OF 1

Date Rec'd in Lab: 10/3

ALPHA Job #: L0714606

ALPHA ANALYTICAL

WESTBORO, MA TEL: 508-898-9220 FAX: 508-898-9193

MANSFIELD, MA TEL: 508-822-9300 FAX: 508-822-3288

Client Information

Client: ERM

Address: 399 BOYLSTON ST BOSTON, MA

Phone: 617-646-7800

Fax: 617-267-6447

Email: JEREMY.PICARD@ERM.COM

☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: RAYTHEON, WAYLAND

Project Location: WAYLAND, MA

Project #: 0061882

Project Manager: JEREMY PICARD

ALPHA Quote #:

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved!)

Date Due: 10/10 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	Criteria
MCP	GW-1

MA MCP PRESUMPTIVE CERTAINTY --- CT REASONABLE CONFIDENCE PROTOCOLS

☒ Yes ☐ No Are MCP Analytical Methods Required?

☐ Yes ☒ No Are CT RCP (Reasonable Confidence Protocols) Required?

Other Project Specific Requirements/Comments/Detection Limits:

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	8021B (HCL)	DRS NA 504.5	8021B (Methanol)	Sample Specific Comments	TOTAL # BOTTLES
4606-1	MW-203M-20071002-01	10/02/07	0835	GW	JM	2	1			3
2	MW-204M-20071002-01	10/02/07	0900	GW	MS	2	1			3
3	MW-203S-20071002-01	10/02/07	0940	GW	JM	2	1			3
4	MW-115-20071002-01	10/02/07	1115	GW	JM	2	1			3
5	MW-113-20071002-01	10/02/07	1245	GW	JM	2	1			3
6	MW-204D-20071002-01	10/02/07	1145	GW	MS	2	1			3
7	MW-107-20071002-01	10/02/07	1315	GW	MS	~~2~~	X	2		~~2~~ 3
8	DUP-007-20071002-01	10/02/07	0000	GW	MS	~~2~~	X	2		~~2~~ 3
9	DUP-005-20071002-01	10/02/07	0000	GW	JM	2	1			3
10	DUP-006-20071002-01	10/02/07	0000	GW	MS	2	1			3
					Container Type	V	P	V		
					Preservative	B	C	H		

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT MA MCP or CT RCP?

Relinquished By:	Date/Time	Received By:	Date/Time
[signature]	10/3/07 1135	[signature]	10/3/07 1137
[signature]	10/3/07 1400	[signature]	10/3 14:00

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 Payment Terms. See reverse side.

FORM NO: 01-01 (rev. 30-JUL-07)

QA

ANALYTICAL REPORT

Lab Number:	L0714604
Client:	ERM-New England 399 Boylston Street 6th Floor Boston, MA 02116
ATTN:	Jeremy Picard
Project Name:	RAYTHEON WAYLAND
Project Number:	0061882
Report Date:	10/12/07

Certifications & Approvals: MA (M-MA086), NY NELAC (11148), CT (PH-0574), NH (200305), NJ (MA935), RI (LAO00065), ME (2006012), PA (Registration #68-03671), USDA (Permit #S-72578), US Army Corps of Engineers, Naval FESC.

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: 0061882

Lab Number: L0714604
Report Date: 10/12/07

Alpha Sample ID	Client ID	Sample Location
L0714604-01	MW-202S-20071002-01	WAYLAND, MA

Project Name:	RAYTHEON WAYLAND	**Lab Number:**	L0714604
Project Number:	0061882	**Report Date:**	10/12/07

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, B, C & D is required for "Presumptive Certainty" status		
A	Were all samples received by the laboratory in a condition consistent with those described on their Chain-of-Custody documentation for the data set?	YES
B	Were all QA/QC procedures required for the specified analytical methods(s) included in this report followed, including the requirement to note and discuss in a narrative QC data that did not meet appropriate performance standards or guidelines?	YES
C	Does the analytical data included in this report meet all the requirements for "Presumptive Certainty", as described in section 2.0 of the MADEP document CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	YES
D	VPH and EPH methods only: Was the VPH or EPH method run without significant modifications, as specified in Section 11.3?	N/A

A response to questions E and F is required for "Presumptive Certainty" status		
E	Were all QC performance standards and recommendations for the specified method(s) achieved?	NO
F	Were results for all analyte-list compounds/elements for the specified method(s) reported?	NO

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:** L0714604
Project Number: 0061882 **Report Date:** 10/12/07

Case Narrative

The samples were received in accordance with the chain of custody and no significant deviations were encountered during preparation or analysis unless otherwise noted below.

MCP Related Narratives

Sample Receipt

The samples were Field Filtered for Dissolved Metals only.

Volatile Organics

In reference to question E:

The WG297742-1/-2 LCS/LCSD % recoveries for Dichlorodifluoromethane are below, and the LCS/LCSD % recoveries for 1,4-Dioxane are above, the individual acceptance criteria for the compounds, but within the overall method allowances. These are both difficult analytes.

In reference to question F:

At the client's request, all submitted samples were not analyzed for the full MCP list of compounds specified for the Method.

Metals

In reference to question F:

At the client's request, all submitted samples were not analyzed for the full MCP list of compounds specified for the Method.

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:

Title: Technical Director/Representative Date: 10/12/07

ORGANICS

VOLATILES

Project Name: RAYTHEON WAYLAND **Lab Number:** L0714604

Project Number: 0061882 **Report Date:** 10/12/07

SAMPLE RESULTS

Lab ID:	L0714604-01	Date Collected:	10/02/07 15:52
Client ID:	MW-202S-20071002-01	Date Received:	10/03/07
Sample Location:	WAYLAND, MA	Field Prep:	Field Filtered
Matrix:	Water		
Anaytical Method:	60,8260B		
Analytical Date:	10/11/07 18:57		
Analyst:	BS		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
Methylene chloride	ND		ug/l	5.0	1
1,1-Dichloroethane	ND		ug/l	0.75	1
Chloroform	ND		ug/l	0.75	1
Carbon tetrachloride	ND		ug/l	0.50	1
1,2-Dichloropropane	ND		ug/l	1.8	1
Dibromochloromethane	ND		ug/l	0.50	1
1,1,2-Trichloroethane	ND		ug/l	0.75	1
Tetrachloroethene	ND		ug/l	0.50	1
Chlorobenzene	ND		ug/l	0.50	1
1,2-Dichloroethane	ND		ug/l	0.50	1
1,1,1-Trichloroethane	ND		ug/l	0.50	1
Bromodichloromethane	ND		ug/l	0.50	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	1
Bromoform	ND		ug/l	2.0	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	1
Chloromethane	ND		ug/l	2.5	1
Vinyl chloride	ND		ug/l	1.0	1
Chloroethane	ND		ug/l	1.0	1
1,1-Dichloroethene	ND		ug/l	0.50	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	1
Trichloroethene	ND		ug/l	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.5	1
1,3-Dichlorobenzene	ND		ug/l	2.5	1
1,4-Dichlorobenzene	ND		ug/l	2.5	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	1
Dichlorodifluoromethane	ND		ug/l	5.0	1
2,2-Dichloropropane	ND		ug/l	2.5	1
1,2-Dibromoethane	ND		ug/l	2.0	1
1,3-Dichloropropane	ND		ug/l	2.5	1

Project Name: RAYTHEON WAYLAND **Lab Number:** L0714604

Project Number: 0061882 **Report Date:** 10/12/07

SAMPLE RESULTS

Lab ID:	L0714604-01	Date Collected:	10/02/07 15:52
Client ID:	MW-202S-20071002-01	Date Received:	10/03/07
Sample Location:	WAYLAND, MA	Field Prep:	Field Filtered

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	1
o-Chlorotoluene	ND		ug/l	2.5	1
p-Chlorotoluene	ND		ug/l	2.5	1
Hexachlorobutadiene	ND		ug/l	0.60	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	1
1,4-Dioxane	ND		ug/l	250	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	108		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	105		70-130
Dibromofluoromethane	104		70-130

Project Name: RAYTHEON WAYLAND **Lab Number:** L0714604

Project Number: 0061882 **Report Date:** 10/12/07

Method Blank Analysis
Batch Quality Control

Analytical Method: 60,8260B
Analytical Date: 10/11/07 14:50
Analyst: BS

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by MCP 8260B for sample(s): 01 Batch: WG297742-3				
Methylene chloride	ND		ug/l	5.0
1,1-Dichloroethane	ND		ug/l	0.75
Chloroform	ND		ug/l	0.75
Carbon tetrachloride	ND		ug/l	0.50
1,2-Dichloropropane	ND		ug/l	1.8
Dibromochloromethane	ND		ug/l	0.50
1,1,2-Trichloroethane	ND		ug/l	0.75
Tetrachloroethene	ND		ug/l	0.50
Chlorobenzene	ND		ug/l	0.50
Trichlorofluoromethane	ND		ug/l	2.5
1,2-Dichloroethane	ND		ug/l	0.50
1,1,1-Trichloroethane	ND		ug/l	0.50
Bromodichloromethane	ND		ug/l	0.50
trans-1,3-Dichloropropene	ND		ug/l	0.50
cis-1,3-Dichloropropene	ND		ug/l	0.50
1,1-Dichloropropene	ND		ug/l	2.5
Bromoform	ND		ug/l	2.0
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50
Benzene	ND		ug/l	0.50
Toluene	ND		ug/l	0.75
Ethylbenzene	ND		ug/l	0.50
Chloromethane	ND		ug/l	2.5
Bromomethane	ND		ug/l	1.0
Vinyl chloride	ND		ug/l	1.0
Chloroethane	ND		ug/l	1.0
1,1-Dichloroethene	ND		ug/l	0.50
trans-1,2-Dichloroethene	ND		ug/l	0.75
Trichloroethene	ND		ug/l	0.50
1,2-Dichlorobenzene	ND		ug/l	2.5
1,3-Dichlorobenzene	ND		ug/l	2.5
1,4-Dichlorobenzene	ND		ug/l	2.5

Project Name: RAYTHEON WAYLAND **Lab Number:** L0714604

Project Number: 0061882 **Report Date:** 10/12/07

Method Blank Analysis
Batch Quality Control

Analytical Method: 60,8260B
Analytical Date: 10/11/07 14:50
Analyst: BS

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by MCP 8260B for sample(s): 01 Batch: WG297742-3				
Methyl tert butyl ether	ND		ug/l	1.0
p/m-Xylene	ND		ug/l	1.0
o-Xylene	ND		ug/l	1.0
cis-1,2-Dichloroethene	ND		ug/l	0.50
Dibromomethane	ND		ug/l	5.0
1,2,3-Trichloropropane	ND		ug/l	5.0
Styrene	ND		ug/l	1.0
Dichlorodifluoromethane	ND		ug/l	5.0
Acetone	ND		ug/l	5.0
Carbon disulfide	ND		ug/l	5.0
2-Butanone	ND		ug/l	5.0
4-Methyl-2-pentanone	ND		ug/l	5.0
2-Hexanone	ND		ug/l	5.0
Bromochloromethane	ND		ug/l	2.5
Tetrahydrofuran	ND		ug/l	10
2,2-Dichloropropane	ND		ug/l	2.5
1,2-Dibromoethane	ND		ug/l	2.0
1,3-Dichloropropane	ND		ug/l	2.5
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50
Bromobenzene	ND		ug/l	2.5
n-Butylbenzene	ND		ug/l	0.50
sec-Butylbenzene	ND		ug/l	0.50
tert-Butylbenzene	ND		ug/l	2.5
o-Chlorotoluene	ND		ug/l	2.5
p-Chlorotoluene	ND		ug/l	2.5
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5
Hexachlorobutadiene	ND		ug/l	0.60
Isopropylbenzene	ND		ug/l	0.50
p-Isopropyltoluene	ND		ug/l	0.50
Naphthalene	ND		ug/l	2.5
n-Propylbenzene	ND		ug/l	0.50

Project Name: RAYTHEON WAYLAND **Lab Number:** L0714604

Project Number: 0061882 **Report Date:** 10/12/07

Method Blank Analysis
Batch Quality Control

Analytical Method: 60,8260B
Analytical Date: 10/11/07 14:50
Analyst: BS

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by MCP 8260B for sample(s): 01 Batch: WG297742-3				
1,2,3-Trichlorobenzene	ND		ug/l	2.5
1,2,4-Trichlorobenzene	ND		ug/l	2.5
1,3,5-Trimethylbenzene	ND		ug/l	2.5
1,2,4-Trimethylbenzene	ND		ug/l	2.5
Ethyl ether	ND		ug/l	2.5
Isopropyl Ether	ND		ug/l	2.0
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.0
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0
1,4-Dioxane	ND		ug/l	250

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	106		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	104		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: RAYTHEON WAYLAND
Project Number: 0061882

Lab Number: L0714604
Report Date: 10/12/07

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B Associated sample(s): 01 Batch: WG297742-1 WG297742-2					
Methylene chloride	100	96	70-130	4	25
1,1-Dichloroethane	105	99	70-130	6	25
Chloroform	112	106	70-130	6	25
Carbon tetrachloride	124	118	70-130	5	25
1,2-Dichloropropane	104	99	70-130	5	25
Dibromochloromethane	107	103	70-130	4	25
1,1,2-Trichloroethane	99	95	70-130	4	25
Tetrachloroethene	116	111	70-130	4	25
Chlorobenzene	105	100	70-130	5	25
Trichlorofluoromethane	124	115	70-130	8	25
1,2-Dichloroethane	111	110	70-130	1	25
1,1,1-Trichloroethane	117	111	70-130	5	25
Bromodichloromethane	111	107	70-130	4	25
trans-1,3-Dichloropropene	103	99	70-130	4	25
cis-1,3-Dichloropropene	107	105	70-130	2	25
1,1-Dichloropropene	108	102	70-130	6	25
Bromoform	110	108	70-130	2	50
1,1,2,2-Tetrachloroethane	92	91	70-130	1	25
Benzene	104	100	70-130	4	25
Toluene	101	98	70-130	3	25
Ethylbenzene	105	100	70-130	5	25

Lab Control Sample Analysis
Batch Quality Control

Project Name: RAYTHEON WAYLAND
Project Number: 0061882

Lab Number: L0714604
Report Date: 10/12/07

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B Associated sample(s): 01 Batch: WG297742-1 WG297742-2					
Chloromethane	77	72	70-130	7	50
Bromomethane	97	94	70-130	3	50
Vinyl chloride	88	81	70-130	8	25
Chloroethane	108	100	70-130	8	25
1,1-Dichloroethene	113	105	70-130	7	25
trans-1,2-Dichloroethene	106	102	70-130	4	25
Trichloroethene	110	105	70-130	5	25
1,2-Dichlorobenzene	97	96	70-130	1	25
1,3-Dichlorobenzene	102	100	70-130	2	25
1,4-Dichlorobenzene	99	100	70-130	1	25
Methyl tert butyl ether	103	100	70-130	3	25
p/m-Xylene	107	103	70-130	4	25
o-Xylene	110	104	70-130	6	25
cis-1,2-Dichloroethene	108	103	70-130	5	25
Dibromomethane	111	111	70-130	0	25
1,2,3-Trichloropropane	102	102	70-130	0	25
Styrene	108	104	70-130	4	25
Dichlorodifluoromethane	**65**	**60**	70-130	8	50
Acetone	120	102	70-130	16	50
Carbon disulfide	95	89	70-130	7	25
2-Butanone	100	98	70-130	2	50

Lab Control Sample Analysis
Batch Quality Control

Project Name: RAYTHEON WAYLAND
Project Number: 0061882

Lab Number: L0714604
Report Date: 10/12/07

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B Associated sample(s): 01 Batch: WG297742-1 WG297742-2					
4-Methyl-2-pentanone	95	98	70-130	3	50
2-Hexanone	91	87	70-130	4	50
Bromochloromethane	113	109	70-130	4	25
Tetrahydrofuran	98	91	70-130	7	25
2,2-Dichloropropane	120	111	70-130	8	50
1,2-Dibromoethane	104	99	70-130	5	25
1,3-Dichloropropane	98	95	70-130	3	25
1,1,1,2-Tetrachloroethane	111	106	70-130	5	25
Bromobenzene	103	102	70-130	1	25
n-Butylbenzene	100	95	70-130	5	25
sec-Butylbenzene	106	102	70-130	4	25
tert-Butylbenzene	106	104	70-130	2	25
o-Chlorotoluene	98	97	70-130	1	25
p-Chlorotoluene	98	94	70-130	4	25
1,2-Dibromo-3-chloropropane	83	89	70-130	7	50
Hexachlorobutadiene	79	74	70-130	7	25
Isopropylbenzene	118	113	70-130	4	25
p-Isopropyltoluene	108	104	70-130	4	25
Naphthalene	81	83	70-130	2	25
n-Propylbenzene	104	101	70-130	3	25
1,2,3-Trichlorobenzene	87	86	70-130	1	25

Lab Control Sample Analysis
Batch Quality Control

Project Name: RAYTHEON WAYLAND
Project Number: 0061882

Lab Number: L0714604
Report Date: 10/12/07

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B Associated sample(s): 01 Batch: WG297742-1 WG297742-2					
1,2,4-Trichlorobenzene	90	88	70-130	2	25
1,3,5-Trimethylbenzene	105	102	70-130	3	25
1,2,4-Trimethylbenzene	104	101	70-130	3	25
Ethyl ether	102	99	70-130	3	25
Isopropyl Ether	96	94	70-130	2	25
Ethyl-Tert-Butyl-Ether	105	98	70-130	7	25
Tertiary-Amyl Methyl Ether	104	100	70-130	4	25
1,4-Dioxane	**139**	**137**	70-130	1	50

Surrogate	LCS %Recovery	Qualifier	LCSD %Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		102		70-130
Toluene-d8	96		96		70-130
4-Bromofluorobenzene	96		97		70-130
Dibromofluoromethane	105		103		70-130

METALS

Project Name:	RAYTHEON WAYLAND	**Lab Number:**	L0714604
Project Number:	0061882	**Report Date:**	10/12/07

SAMPLE RESULTS

Lab ID:	L0714604-01	Date Collected:	10/02/07 15:52
Client ID:	MW-202S-20071002-01	Date Received:	10/03/07
Sample Location:	WAYLAND, MA	Field Prep:	Field Filtered
Matrix:	Water		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals by MCP 6000/7000 series										
Sodium, Dissolved	44		mg/l	2.0	1	10/05/07 17:00	10/08/07 20:20	EPA 3005A	60,6010B	AI

Project Name: RAYTHEON WAYLAND **Lab Number:** L0714604

Project Number: 0061882 **Report Date:** 10/12/07

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Dissolved Metals by MCP 6000/7000 series for sample(s): 01 Batch: WG296955-1									
Sodium, Dissolved	ND		mg/l	2.0	1	10/05/07 17:00	10/08/07 19:06	60,6010B	AI

Prep Information

Digestion Method: EPA 3005A

Lab Control Sample Analysis

Batch Quality Control

Project Name: RAYTHEON WAYLAND

Project Number: 0061882

Lab Number: L0714604

Report Date: 10/12/07

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Dissolved Metals by MCP 6000/7000 series Associated sample(s): 01 Batch: WG296955-2 WG296955-3					
Sodium, Dissolved	100	99	80-120	1	20

Project Name: RAYTHEON WAYLAND
Project Number: 0061882

Lab Number: L0714604
Report Date: 10/12/07

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp	Pres	Seal	Analysis
L0714604-01A	Vial HCl preserved	A	N/A	3.9 C	Y	Absent	MCP-8260-04
L0714604-01B	Vial HCl preserved	A	N/A	3.9 C	Y	Absent	MCP-8260-04
L0714604-01C	Plastic 250ml HNO3 preserved	A	<2	3.9 C	Y	Absent	MCP-NA-6010S

Project Name:	RAYTHEON WAYLAND	**Lab Number:**	L0714604
Project Number:	0061882	**Report Date:**	10/12/07

GLOSSARY

Acronyms

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.

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.

NI - Not Ignitable.

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.

ND - Not detected at the reported detection limit for the sample.

RDL - Reported Detection Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RDL 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.

Terms

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

The following data qualifiers have been identified for use under the CT DEP Reasonable Confidence Protocols.

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.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

J - Estimated value. The analyte was tentatively identified; the quantitation is an estimation. (Tentatively identified compounds only.)

Standard Qualifiers

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

Project Name:	RAYTHEON WAYLAND	**Lab Number:**	L0714604
Project Number:	0061882	**Report Date:**	10/12/07

REFERENCES

60 Quality Assurance and Quality Control Requirements and Performance Standards for SW-846 Methods. MADEP BWSC. WSC-CAM-IIA (Revision 4), WSC-CAM-V C (Revision 2), WSC-CAM-IIIA (Revision 5). May 2004.

LIMITATION OF LIABILITIES

Alpha Woods Hole Labs 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 Woods Hole Labs shall be to re-perform the work at it's own expense. In no event shall Alpha Woods Hole Labs 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 Woods Hole Labs.

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.

CHAIN OF CUSTODY

PAGE 1 OF 1

Date Rec'd in Lab: 10/3

ALPHA Job #: L0714604 E

ALPHA WOODS HOLE LABS
WESTBORO, MA TEL: 508-898-9220 FAX: 508-898-9193
RAYNHAM, MA TEL: 508-822-9300 FAX: 508-822-3288

Client Information

Client: ERM-BOSTON
Address: 399 BOYLSTON ST 6TH FLOOR BOSTON MA 02116
Phone: (617) 646-7800
Fax: (617) 267-6447
Email: jeremy.picard@erm.com
☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: RAYTHEON WAYLAND
Project Location: WAYLAND, MA
Project #: 0061882
Project Manager: Jeremy Picard
ALPHA Quote #:

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved!)
Date Due: 10/10 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	Criteria
MCP	Method 1 GW-1

MA MCP PRESUMPTIVE CERTAINTY --- CT REASONABLE CONFIDENCE PROTOCOLS

☒ Yes ☐ No Are MCP Analytical Methods Required?
☐ Yes ☒ No Are CT RCP (Reasonable Confidence Protocols) Required?

Other Project Specific Requirements/Comments/Detection Limits:

ANALYSIS: 8021 BTEX (HCD) 8260 Diss. Nr

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	8021	8260	Sample Specific Comments	TOTAL # BOTTLES
46044.1	MW-202S-20071002-01	10/2/07	15:52	GW	MS	2	1		3

Container Type	V	P
Preservative	B	C

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT MA MCP or CT RCP?

Relinquished By:	Date/Time	Received By:	Date/Time
	10/3/07 1135		10/3/07 1135
	10/3/07 1400		10/3 1400

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 Payment Terms. See reverse side.

FORM NO: 01-01 (rev. 10-OCT-05)

ANALYTICAL REPORT

Lab Number:	L0714602
Client:	ERM-New England 399 Boylston Street 6th Floor Boston, MA 02116
ATTN:	Jeremy Picard
Project Name:	RAYTHEON WAYLAND
Project Number:	0061882
Report Date:	10/11/07

Certifications & Approvals: MA (M-MA086), NY NELAC (11148), CT (PH-0574), NH (200305), NJ (MA935), RI (LAO00065), ME (2006012), PA (Registration #68-03671), USDA (Permit #S-72578), US Army Corps of Engineers, Naval FESC.

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: 0061882

Lab Number: L0714602
Report Date: 10/11/07

Alpha Sample ID	Client ID	Sample Location
L0714602-01	MW-109-20071002-01	WAYLAND, MA
L0714602-02	MW-33S-20071002-01	WAYLAND, MA
L0714602-03	MW-111-20071002-01	WAYLAND, MA
L0714602-04	MW-201S-20071002-01	WAYLAND, MA
L0714602-05	TB-002-20070928-01	WAYLAND, MA

Project Name:	RAYTHEON WAYLAND	**Lab Number:**	L0714602
Project Number:	0061882	**Report Date:**	10/11/07

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, B, C & D is required for "Presumptive Certainty" status		
A	Were all samples received by the laboratory in a condition consistent with those described on their Chain-of-Custody documentation for the data set?	YES
B	Were all QA/QC procedures required for the specified analytical methods(s) included in this report followed, including the requirement to note and discuss in a narrative QC data that did not meet appropriate performance standards or guidelines?	YES
C	Does the analytical data included in this report meet all the requirements for "Presumptive Certainty", as described in section 2.0 of the MADEP document CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	YES
D	VPH and EPH methods only: Was the VPH or EPH method run without significant modifications, as specified in Section 11.3?	N/A

A response to questions E and F is required for "Presumptive Certainty" status		
E	Were all QC performance standards and recommendations for the specified method(s) achieved?	NO
F	Were results for all analyte-list compounds/elements for the specified method(s) reported?	NO

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:** L0714602
Project Number: 0061882 **Report Date:** 10/11/07

Case Narrative

The samples were received in accordance with the chain of custody and no significant deviations were encountered during preparation or analysis unless otherwise noted below.

MCP Related Narratives

Sample Receipt

The samples were Field Filtered for Dissolved Metals only.

Volatile Organics

In reference to question E:

The WG297499-1/2 LCSD % recovery for Bromoform, a difficult analyte, is below the individual acceptance criteria for the compound, but within the overall method allowances.

The WG297742-1/2 LCS/LCSD % recoveries for Dichlorodifluoromethane, a difficult analyte, are below the individual acceptance criteria for the compound, but within the overall method allowances.

In reference to question F:

At the client's request, all submitted samples were not analyzed for the full MCP list of compounds specified for the Method.

Metals

In reference to question F:

At the client's request, all submitted samples were not analyzed for the full MCP list of compounds specified for the Method.

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:

Title: Technical Director/Representative Date: 10/11/07

ORGANICS

VOLATILES

Project Name: RAYTHEON WAYLAND **Lab Number:** L0714602

Project Number: 0061882 **Report Date:** 10/11/07

SAMPLE RESULTS

Lab ID:	L0714602-01	Date Collected:	10/02/07 14:35
Client ID:	MW-109-20071002-01	Date Received:	10/03/07
Sample Location:	WAYLAND, MA	Field Prep:	Field Filtered
Matrix:	Water		
Anaytical Method:	60,8260B		
Analytical Date:	10/10/07 14:56		
Analyst:	BS		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
Methylene chloride	ND		ug/l	5.0	1
1,1-Dichloroethane	ND		ug/l	0.75	1
Chloroform	ND		ug/l	0.75	1
Carbon tetrachloride	ND		ug/l	0.50	1
1,2-Dichloropropane	ND		ug/l	1.8	1
Dibromochloromethane	ND		ug/l	0.50	1
1,1,2-Trichloroethane	ND		ug/l	0.75	1
Tetrachloroethene	ND		ug/l	0.50	1
Chlorobenzene	ND		ug/l	0.50	1
1,2-Dichloroethane	ND		ug/l	0.50	1
1,1,1-Trichloroethane	ND		ug/l	0.50	1
Bromodichloromethane	ND		ug/l	0.50	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	1
Bromoform	ND		ug/l	2.0	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	1
Chloromethane	ND		ug/l	2.5	1
Vinyl chloride	ND		ug/l	1.0	1
Chloroethane	ND		ug/l	1.0	1
1,1-Dichloroethene	ND		ug/l	0.50	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	1
Trichloroethene	13		ug/l	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.5	1
1,3-Dichlorobenzene	ND		ug/l	2.5	1
1,4-Dichlorobenzene	ND		ug/l	2.5	1
cis-1,2-Dichloroethene	2.5		ug/l	0.50	1
Dichlorodifluoromethane	ND		ug/l	5.0	1
2,2-Dichloropropane	ND		ug/l	2.5	1
1,2-Dibromoethane	ND		ug/l	2.0	1
1,3-Dichloropropane	ND		ug/l	2.5	1

Project Name: RAYTHEON WAYLAND **Lab Number:** L0714602

Project Number: 0061882 **Report Date:** 10/11/07

SAMPLE RESULTS

Lab ID:	L0714602-01	Date Collected:	10/02/07 14:35
Client ID:	MW-109-20071002-01	Date Received:	10/03/07
Sample Location:	WAYLAND, MA	Field Prep:	Field Filtered

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	1
o-Chlorotoluene	ND		ug/l	2.5	1
p-Chlorotoluene	ND		ug/l	2.5	1
Hexachlorobutadiene	ND		ug/l	0.60	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	126		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	117		70-130
Dibromofluoromethane	104		70-130

Project Name: RAYTHEON WAYLAND **Lab Number:** L0714602

Project Number: 0061882 **Report Date:** 10/11/07

SAMPLE RESULTS

Lab ID:	L0714602-02	Date Collected:	10/02/07 16:00
Client ID:	MW-33S-20071002-01	Date Received:	10/03/07
Sample Location:	WAYLAND, MA	Field Prep:	Field Filtered
Matrix:	Water		
Anaytical Method:	60,8260B		
Analytical Date:	10/10/07 15:43		
Analyst:	BS		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
Methylene chloride	ND		ug/l	5.0	1
1,1-Dichloroethane	ND		ug/l	0.75	1
Chloroform	ND		ug/l	0.75	1
Carbon tetrachloride	ND		ug/l	0.50	1
1,2-Dichloropropane	ND		ug/l	1.8	1
Dibromochloromethane	ND		ug/l	0.50	1
1,1,2-Trichloroethane	ND		ug/l	0.75	1
Tetrachloroethene	ND		ug/l	0.50	1
Chlorobenzene	ND		ug/l	0.50	1
1,2-Dichloroethane	ND		ug/l	0.50	1
1,1,1-Trichloroethane	37		ug/l	0.50	1
Bromodichloromethane	ND		ug/l	0.50	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	1
Bromoform	ND		ug/l	2.0	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	1
Chloromethane	ND		ug/l	2.5	1
Vinyl chloride	ND		ug/l	1.0	1
Chloroethane	ND		ug/l	1.0	1
1,1-Dichloroethene	ND		ug/l	0.50	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	1
Trichloroethene	140		ug/l	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.5	1
1,3-Dichlorobenzene	ND		ug/l	2.5	1
1,4-Dichlorobenzene	ND		ug/l	2.5	1
cis-1,2-Dichloroethene	0.50		ug/l	0.50	1
Dichlorodifluoromethane	ND		ug/l	5.0	1
2,2-Dichloropropane	ND		ug/l	2.5	1
1,2-Dibromoethane	ND		ug/l	2.0	1
1,3-Dichloropropane	ND		ug/l	2.5	1

Project Name: RAYTHEON WAYLAND **Lab Number:** L0714602

Project Number: 0061882 **Report Date:** 10/11/07

SAMPLE RESULTS

Lab ID:	L0714602-02	Date Collected:	10/02/07 16:00
Client ID:	MW-33S-20071002-01	Date Received:	10/03/07
Sample Location:	WAYLAND, MA	Field Prep:	Field Filtered

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	1
o-Chlorotoluene	ND		ug/l	2.5	1
p-Chlorotoluene	ND		ug/l	2.5	1
Hexachlorobutadiene	ND		ug/l	0.60	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	124		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	116		70-130
Dibromofluoromethane	106		70-130

Project Name: RAYTHEON WAYLAND **Lab Number:** L0714602

Project Number: 0061882 **Report Date:** 10/11/07

SAMPLE RESULTS

Lab ID:	L0714602-03	Date Collected:	10/02/07 14:25
Client ID:	MW-111-20071002-01	Date Received:	10/03/07
Sample Location:	WAYLAND, MA	Field Prep:	Field Filtered
Matrix:	Water		
Anaytical Method:	60,8260B		
Analytical Date:	10/11/07 17:00		
Analyst:	BS		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
Methylene chloride	ND		ug/l	5.0	1
1,1-Dichloroethane	ND		ug/l	0.75	1
Chloroform	ND		ug/l	0.75	1
Carbon tetrachloride	ND		ug/l	0.50	1
1,2-Dichloropropane	ND		ug/l	1.8	1
Dibromochloromethane	ND		ug/l	0.50	1
1,1,2-Trichloroethane	ND		ug/l	0.75	1
Tetrachloroethene	0.77		ug/l	0.50	1
Chlorobenzene	ND		ug/l	0.50	1
1,2-Dichloroethane	ND		ug/l	0.50	1
1,1,1-Trichloroethane	ND		ug/l	0.50	1
Bromodichloromethane	ND		ug/l	0.50	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	1
Bromoform	ND		ug/l	2.0	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	1
Chloromethane	ND		ug/l	2.5	1
Vinyl chloride	ND		ug/l	1.0	1
Chloroethane	ND		ug/l	1.0	1
1,1-Dichloroethene	ND		ug/l	0.50	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	1
Trichloroethene	27		ug/l	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.5	1
1,3-Dichlorobenzene	ND		ug/l	2.5	1
1,4-Dichlorobenzene	ND		ug/l	2.5	1
cis-1,2-Dichloroethene	7.1		ug/l	0.50	1
Dichlorodifluoromethane	ND		ug/l	5.0	1
2,2-Dichloropropane	ND		ug/l	2.5	1
1,2-Dibromoethane	ND		ug/l	2.0	1
1,3-Dichloropropane	ND		ug/l	2.5	1

Project Name: RAYTHEON WAYLAND **Lab Number:** L0714602

Project Number: 0061882 **Report Date:** 10/11/07

SAMPLE RESULTS

Lab ID:	L0714602-03	Date Collected:	10/02/07 14:25
Client ID:	MW-111-20071002-01	Date Received:	10/03/07
Sample Location:	WAYLAND, MA	Field Prep:	Field Filtered

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	1
o-Chlorotoluene	ND		ug/l	2.5	1
p-Chlorotoluene	ND		ug/l	2.5	1
Hexachlorobutadiene	ND		ug/l	0.60	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	109		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	105		70-130
Dibromofluoromethane	105		70-130

Project Name: RAYTHEON WAYLAND **Lab Number:** L0714602

Project Number: 0061882 **Report Date:** 10/11/07

SAMPLE RESULTS

Lab ID:	L0714602-04	Date Collected:	10/02/07 10:10
Client ID:	MW-201S-20071002-01	Date Received:	10/03/07
Sample Location:	WAYLAND, MA	Field Prep:	Not Specified
Matrix:	Water		
Anaytical Method:	60,8260B		
Analytical Date:	10/10/07 17:01		
Analyst:	BS		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
Methylene chloride	ND		ug/l	5.0	1
1,1-Dichloroethane	ND		ug/l	0.75	1
Chloroform	ND		ug/l	0.75	1
Carbon tetrachloride	ND		ug/l	0.50	1
1,2-Dichloropropane	ND		ug/l	1.8	1
Dibromochloromethane	ND		ug/l	0.50	1
1,1,2-Trichloroethane	ND		ug/l	0.75	1
Tetrachloroethene	ND		ug/l	0.50	1
Chlorobenzene	ND		ug/l	0.50	1
1,2-Dichloroethane	ND		ug/l	0.50	1
1,1,1-Trichloroethane	ND		ug/l	0.50	1
Bromodichloromethane	ND		ug/l	0.50	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	1
Bromoform	ND		ug/l	2.0	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	1
Chloromethane	ND		ug/l	2.5	1
Vinyl chloride	ND		ug/l	1.0	1
Chloroethane	ND		ug/l	1.0	1
1,1-Dichloroethene	ND		ug/l	0.50	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	1
Trichloroethene	0.62		ug/l	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.5	1
1,3-Dichlorobenzene	ND		ug/l	2.5	1
1,4-Dichlorobenzene	ND		ug/l	2.5	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	1
Dichlorodifluoromethane	ND		ug/l	5.0	1
2,2-Dichloropropane	ND		ug/l	2.5	1
1,2-Dibromoethane	ND		ug/l	2.0	1
1,3-Dichloropropane	ND		ug/l	2.5	1

Project Name: RAYTHEON WAYLAND **Lab Number:** L0714602

Project Number: 0061882 **Report Date:** 10/11/07

SAMPLE RESULTS

Lab ID:	L0714602-04	Date Collected:	10/02/07 10:10
Client ID:	MW-201S-20071002-01	Date Received:	10/03/07
Sample Location:	WAYLAND, MA	Field Prep:	Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	1
o-Chlorotoluene	ND		ug/l	2.5	1
p-Chlorotoluene	ND		ug/l	2.5	1
Hexachlorobutadiene	ND		ug/l	0.60	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	127		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	114		70-130
Dibromofluoromethane	101		70-130

Project Name: RAYTHEON WAYLAND **Lab Number:** L0714602

Project Number: 0061882 **Report Date:** 10/11/07

SAMPLE RESULTS

Lab ID:	L0714602-05	Date Collected:	09/28/07 13:10
Client ID:	TB-002-20070928-01	Date Received:	10/03/07
Sample Location:	WAYLAND, MA	Field Prep:	Not Specified
Matrix:	Water		
Anaytical Method:	60,8260B		
Analytical Date:	10/10/07 17:40		
Analyst:	BS		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
Methylene chloride	ND		ug/l	5.0	1
1,1-Dichloroethane	ND		ug/l	0.75	1
Chloroform	ND		ug/l	0.75	1
Carbon tetrachloride	ND		ug/l	0.50	1
1,2-Dichloropropane	ND		ug/l	1.8	1
Dibromochloromethane	ND		ug/l	0.50	1
1,1,2-Trichloroethane	ND		ug/l	0.75	1
Tetrachloroethene	ND		ug/l	0.50	1
Chlorobenzene	ND		ug/l	0.50	1
1,2-Dichloroethane	ND		ug/l	0.50	1
1,1,1-Trichloroethane	ND		ug/l	0.50	1
Bromodichloromethane	ND		ug/l	0.50	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	1
Bromoform	ND		ug/l	2.0	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	1
Chloromethane	ND		ug/l	2.5	1
Vinyl chloride	ND		ug/l	1.0	1
Chloroethane	ND		ug/l	1.0	1
1,1-Dichloroethene	ND		ug/l	0.50	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	1
Trichloroethene	ND		ug/l	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.5	1
1,3-Dichlorobenzene	ND		ug/l	2.5	1
1,4-Dichlorobenzene	ND		ug/l	2.5	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	1
Dichlorodifluoromethane	ND		ug/l	5.0	1
2,2-Dichloropropane	ND		ug/l	2.5	1
1,2-Dibromoethane	ND		ug/l	2.0	1
1,3-Dichloropropane	ND		ug/l	2.5	1

Project Name: RAYTHEON WAYLAND **Lab Number:** L0714602

Project Number: 0061882 **Report Date:** 10/11/07

SAMPLE RESULTS

Lab ID:	L0714602-05	Date Collected:	09/28/07 13:10
Client ID:	TB-002-20070928-01	Date Received:	10/03/07
Sample Location:	WAYLAND, MA	Field Prep:	Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	1
o-Chlorotoluene	ND		ug/l	2.5	1
p-Chlorotoluene	ND		ug/l	2.5	1
Hexachlorobutadiene	ND		ug/l	0.60	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	127		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	118		70-130
Dibromofluoromethane	102		70-130

Project Name: RAYTHEON WAYLAND **Lab Number:** L0714602

Project Number: 0061882 **Report Date:** 10/11/07

Method Blank Analysis
Batch Quality Control

Analytical Method: 60,8260B
Analytical Date: 10/10/07 11:19
Analyst: BS

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by MCP 8260B for sample(s): 01-02,04-05 Batch: WG297499-3				
Methylene chloride	ND		ug/l	5.0
1,1-Dichloroethane	ND		ug/l	0.75
Chloroform	ND		ug/l	0.75
Carbon tetrachloride	ND		ug/l	0.50
1,2-Dichloropropane	ND		ug/l	1.8
Dibromochloromethane	ND		ug/l	0.50
1,1,2-Trichloroethane	ND		ug/l	0.75
Tetrachloroethene	ND		ug/l	0.50
Chlorobenzene	ND		ug/l	0.50
Trichlorofluoromethane	ND		ug/l	2.5
1,2-Dichloroethane	ND		ug/l	0.50
1,1,1-Trichloroethane	ND		ug/l	0.50
Bromodichloromethane	ND		ug/l	0.50
trans-1,3-Dichloropropene	ND		ug/l	0.50
cis-1,3-Dichloropropene	ND		ug/l	0.50
1,1-Dichloropropene	ND		ug/l	2.5
Bromoform	ND		ug/l	2.0
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50
Benzene	ND		ug/l	0.50
Toluene	ND		ug/l	0.75
Ethylbenzene	ND		ug/l	0.50
Chloromethane	ND		ug/l	2.5
Bromomethane	ND		ug/l	1.0
Vinyl chloride	ND		ug/l	1.0
Chloroethane	ND		ug/l	1.0
1,1-Dichloroethene	ND		ug/l	0.50
trans-1,2-Dichloroethene	ND		ug/l	0.75
Trichloroethene	ND		ug/l	0.50
1,2-Dichlorobenzene	ND		ug/l	2.5
1,3-Dichlorobenzene	ND		ug/l	2.5
1,4-Dichlorobenzene	ND		ug/l	2.5

Project Name: RAYTHEON WAYLAND **Lab Number:** L0714602

Project Number: 0061882 **Report Date:** 10/11/07

Method Blank Analysis
Batch Quality Control

Analytical Method: 60,8260B
Analytical Date: 10/10/07 11:19
Analyst: BS

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by MCP 8260B for sample(s): 01-02,04-05 Batch: WG297499-3				
Methyl tert butyl ether	ND		ug/l	1.0
p/m-Xylene	ND		ug/l	1.0
o-Xylene	ND		ug/l	1.0
cis-1,2-Dichloroethene	ND		ug/l	0.50
Dibromomethane	ND		ug/l	5.0
1,2,3-Trichloropropane	ND		ug/l	5.0
Styrene	ND		ug/l	1.0
Dichlorodifluoromethane	ND		ug/l	5.0
Acetone	ND		ug/l	5.0
Carbon disulfide	ND		ug/l	5.0
2-Butanone	ND		ug/l	5.0
4-Methyl-2-pentanone	ND		ug/l	5.0
2-Hexanone	ND		ug/l	5.0
Bromochloromethane	ND		ug/l	2.5
Tetrahydrofuran	ND		ug/l	10
2,2-Dichloropropane	ND		ug/l	2.5
1,2-Dibromoethane	ND		ug/l	2.0
1,3-Dichloropropane	ND		ug/l	2.5
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50
Bromobenzene	ND		ug/l	2.5
n-Butylbenzene	ND		ug/l	0.50
sec-Butylbenzene	ND		ug/l	0.50
tert-Butylbenzene	ND		ug/l	2.5
o-Chlorotoluene	ND		ug/l	2.5
p-Chlorotoluene	ND		ug/l	2.5
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5
Hexachlorobutadiene	ND		ug/l	0.60
Isopropylbenzene	ND		ug/l	0.50
p-Isopropyltoluene	ND		ug/l	0.50
Naphthalene	ND		ug/l	2.5
n-Propylbenzene	ND		ug/l	0.50

Project Name: RAYTHEON WAYLAND **Lab Number:** L0714602

Project Number: 0061882 **Report Date:** 10/11/07

Method Blank Analysis
Batch Quality Control

Analytical Method: 60,8260B
Analytical Date: 10/10/07 11:19
Analyst: BS

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by MCP 8260B for sample(s): 01-02,04-05 Batch: WG297499-3				
1,2,3-Trichlorobenzene	ND		ug/l	2.5
1,2,4-Trichlorobenzene	ND		ug/l	2.5
1,3,5-Trimethylbenzene	ND		ug/l	2.5
1,2,4-Trimethylbenzene	ND		ug/l	2.5
Ethyl ether	ND		ug/l	2.5
Isopropyl Ether	ND		ug/l	2.0
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.0
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0
1,4-Dioxane	ND		ug/l	250

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	120		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	114		70-130
Dibromofluoromethane	102		70-130

Project Name: RAYTHEON WAYLAND **Lab Number:** L0714602

Project Number: 0061882 **Report Date:** 10/11/07

Method Blank Analysis
Batch Quality Control

Analytical Method: 60,8260B
Analytical Date: 10/11/07 14:50
Analyst: BS

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by MCP 8260B for sample(s): 03 Batch: WG297742-3				
Methylene chloride	ND		ug/l	5.0
1,1-Dichloroethane	ND		ug/l	0.75
Chloroform	ND		ug/l	0.75
Carbon tetrachloride	ND		ug/l	0.50
1,2-Dichloropropane	ND		ug/l	1.8
Dibromochloromethane	ND		ug/l	0.50
1,1,2-Trichloroethane	ND		ug/l	0.75
Tetrachloroethene	ND		ug/l	0.50
Chlorobenzene	ND		ug/l	0.50
Trichlorofluoromethane	ND		ug/l	2.5
1,2-Dichloroethane	ND		ug/l	0.50
1,1,1-Trichloroethane	ND		ug/l	0.50
Bromodichloromethane	ND		ug/l	0.50
trans-1,3-Dichloropropene	ND		ug/l	0.50
cis-1,3-Dichloropropene	ND		ug/l	0.50
1,1-Dichloropropene	ND		ug/l	2.5
Bromoform	ND		ug/l	2.0
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50
Benzene	ND		ug/l	0.50
Toluene	ND		ug/l	0.75
Ethylbenzene	ND		ug/l	0.50
Chloromethane	ND		ug/l	2.5
Bromomethane	ND		ug/l	1.0
Vinyl chloride	ND		ug/l	1.0
Chloroethane	ND		ug/l	1.0
1,1-Dichloroethene	ND		ug/l	0.50
trans-1,2-Dichloroethene	ND		ug/l	0.75
Trichloroethene	ND		ug/l	0.50
1,2-Dichlorobenzene	ND		ug/l	2.5
1,3-Dichlorobenzene	ND		ug/l	2.5
1,4-Dichlorobenzene	ND		ug/l	2.5

Project Name: RAYTHEON WAYLAND **Lab Number:** L0714602

Project Number: 0061882 **Report Date:** 10/11/07

Method Blank Analysis
Batch Quality Control

Analytical Method: 60,8260B
Analytical Date: 10/11/07 14:50
Analyst: BS

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by MCP 8260B for sample(s): 03 Batch: WG297742-3				
Methyl tert butyl ether	ND		ug/l	1.0
p/m-Xylene	ND		ug/l	1.0
o-Xylene	ND		ug/l	1.0
cis-1,2-Dichloroethene	ND		ug/l	0.50
Dibromomethane	ND		ug/l	5.0
1,2,3-Trichloropropane	ND		ug/l	5.0
Styrene	ND		ug/l	1.0
Dichlorodifluoromethane	ND		ug/l	5.0
Acetone	ND		ug/l	5.0
Carbon disulfide	ND		ug/l	5.0
2-Butanone	ND		ug/l	5.0
4-Methyl-2-pentanone	ND		ug/l	5.0
2-Hexanone	ND		ug/l	5.0
Bromochloromethane	ND		ug/l	2.5
Tetrahydrofuran	ND		ug/l	10
2,2-Dichloropropane	ND		ug/l	2.5
1,2-Dibromoethane	ND		ug/l	2.0
1,3-Dichloropropane	ND		ug/l	2.5
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50
Bromobenzene	ND		ug/l	2.5
n-Butylbenzene	ND		ug/l	0.50
sec-Butylbenzene	ND		ug/l	0.50
tert-Butylbenzene	ND		ug/l	2.5
o-Chlorotoluene	ND		ug/l	2.5
p-Chlorotoluene	ND		ug/l	2.5
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5
Hexachlorobutadiene	ND		ug/l	0.60
Isopropylbenzene	ND		ug/l	0.50
p-Isopropyltoluene	ND		ug/l	0.50
Naphthalene	ND		ug/l	2.5
n-Propylbenzene	ND		ug/l	0.50

Project Name: RAYTHEON WAYLAND **Lab Number:** L0714602

Project Number: 0061882 **Report Date:** 10/11/07

Method Blank Analysis
Batch Quality Control

Analytical Method: 60,8260B
Analytical Date: 10/11/07 14:50
Analyst: BS

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by MCP 8260B for sample(s): 03 Batch: WG297742-3				
1,2,3-Trichlorobenzene	ND		ug/l	2.5
1,2,4-Trichlorobenzene	ND		ug/l	2.5
1,3,5-Trimethylbenzene	ND		ug/l	2.5
1,2,4-Trimethylbenzene	ND		ug/l	2.5
Ethyl ether	ND		ug/l	2.5
Isopropyl Ether	ND		ug/l	2.0
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.0
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0
1,4-Dioxane	ND		ug/l	250

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	106		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	104		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: RAYTHEON WAYLAND
Project Number: 0061882

Lab Number: L0714602
Report Date: 10/11/07

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B Associated sample(s): 01-02,04-05 Batch: WG297499-1 WG297499-2					
Methylene chloride	87	94	70-130	8	25
1,1-Dichloroethane	104	109	70-130	5	25
Chloroform	107	111	70-130	4	25
Carbon tetrachloride	83	87	70-130	5	25
1,2-Dichloropropane	102	106	70-130	4	25
Dibromochloromethane	78	76	70-130	3	25
1,1,2-Trichloroethane	100	101	70-130	1	25
Tetrachloroethene	84	94	70-130	11	25
Chlorobenzene	91	95	70-130	4	25
Trichlorofluoromethane	**134**	**137**	70-130	2	25
1,2-Dichloroethane	116	113	70-130	3	25
1,1,1-Trichloroethane	97	104	70-130	7	25
Bromodichloromethane	101	100	70-130	1	25
trans-1,3-Dichloropropene	98	97	70-130	1	25
cis-1,3-Dichloropropene	95	96	70-130	1	25
1,1-Dichloropropene	100	108	70-130	8	25
Bromoform	73	**68**	70-130	7	50
1,1,2,2-Tetrachloroethane	105	104	70-130	1	25
Benzene	94	101	70-130	7	25
Toluene	91	97	70-130	6	25
Ethylbenzene	93	100	70-130	7	25

Lab Control Sample Analysis
Batch Quality Control

Project Name: RAYTHEON WAYLAND
Project Number: 0061882

Lab Number: L0714602
Report Date: 10/11/07

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B Associated sample(s): 01-02,04-05 Batch: WG297499-1 WG297499-2					
Chloromethane	96	104	70-130	8	50
Bromomethane	97	90	70-130	7	50
Vinyl chloride	93	100	70-130	7	25
Chloroethane	121	123	70-130	2	25
1,1-Dichloroethene	104	112	70-130	7	25
trans-1,2-Dichloroethene	91	98	70-130	7	25
Trichloroethene	96	106	70-130	10	25
1,2-Dichlorobenzene	91	91	70-130	0	25
1,3-Dichlorobenzene	89	93	70-130	4	25
1,4-Dichlorobenzene	90	93	70-130	3	25
Methyl tert butyl ether	109	113	70-130	4	25
p/m-Xylene	90	98	70-130	9	25
o-Xylene	95	102	70-130	7	25
cis-1,2-Dichloroethene	95	99	70-130	4	25
Dibromomethane	105	102	70-130	3	25
1,2,3-Trichloropropane	123	121	70-130	2	25
Styrene	95	99	70-130	4	25
Dichlorodifluoromethane	81	86	70-130	6	50
Acetone	123	**145**	70-130	8	50
Carbon disulfide	106	117	70-130	10	25
2-Butanone	121	122	70-130	1	50

Lab Control Sample Analysis
Batch Quality Control

Project Name: RAYTHEON WAYLAND
Project Number: 0061882

Lab Number: L0714602
Report Date: 10/11/07

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B Associated sample(s): 01-02,04-05 Batch: WG297499-1 WG297499-2					
4-Methyl-2-pentanone	104	108	70-130	4	50
2-Hexanone	110	108	70-130	2	50
Bromochloromethane	96	98	70-130	2	25
Tetrahydrofuran	125	**132**	70-130	5	25
2,2-Dichloropropane	102	112	70-130	9	50
1,2-Dibromoethane	101	101	70-130	0	25
1,3-Dichloropropane	106	107	70-130	1	25
1,1,1,2-Tetrachloroethane	80	81	70-130	1	25
Bromobenzene	93	92	70-130	1	25
n-Butylbenzene	99	108	70-130	9	25
sec-Butylbenzene	95	107	70-130	12	25
tert-Butylbenzene	91	102	70-130	11	25
o-Chlorotoluene	98	103	70-130	5	25
p-Chlorotoluene	99	102	70-130	3	25
1,2-Dibromo-3-chloropropane	104	100	70-130	4	50
Hexachlorobutadiene	76	89	70-130	16	25
Isopropylbenzene	98	108	70-130	10	25
p-Isopropyltoluene	94	103	70-130	9	25
Naphthalene	95	93	70-130	2	25
n-Propylbenzene	97	108	70-130	11	25
1,2,3-Trichlorobenzene	90	91	70-130	1	25

Lab Control Sample Analysis
Batch Quality Control

Project Name: RAYTHEON WAYLAND
Project Number: 0061882
Lab Number: L0714602
Report Date: 10/11/07

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B Associated sample(s): 01-02,04-05 Batch: WG297499-1 WG297499-2					
1,2,4-Trichlorobenzene	86	87	70-130	1	25
1,3,5-Trimethylbenzene	92	99	70-130	7	25
1,2,4-Trimethylbenzene	95	99	70-130	4	25
Ethyl ether	128	127	70-130	1	25
Isopropyl Ether	105	108	70-130	3	25
Ethyl-Tert-Butyl-Ether	107	109	70-130	2	25
Tertiary-Amyl Methyl Ether	105	108	70-130	3	25
1,4-Dioxane	120	**138**	70-130	14	50

Surrogate	LCS %Recovery	Qualifier	LCSD %Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	118		113		70-130
Toluene-d8	101		102		70-130
4-Bromofluorobenzene	109		107		70-130
Dibromofluoromethane	100		101		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: RAYTHEON WAYLAND
Project Number: 0061882

Lab Number: L0714602
Report Date: 10/11/07

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B Associated sample(s): 03 Batch: WG297742-1 WG297742-2					
Methylene chloride	100	96	70-130	4	25
1,1-Dichloroethane	105	99	70-130	6	25
Chloroform	112	106	70-130	6	25
Carbon tetrachloride	124	118	70-130	5	25
1,2-Dichloropropane	104	99	70-130	5	25
Dibromochloromethane	107	103	70-130	4	25
1,1,2-Trichloroethane	99	95	70-130	4	25
Tetrachloroethene	116	111	70-130	4	25
Chlorobenzene	105	100	70-130	5	25
Trichlorofluoromethane	124	115	70-130	8	25
1,2-Dichloroethane	111	110	70-130	1	25
1,1,1-Trichloroethane	117	111	70-130	5	25
Bromodichloromethane	111	107	70-130	4	25
trans-1,3-Dichloropropene	103	99	70-130	4	25
cis-1,3-Dichloropropene	107	105	70-130	2	25
1,1-Dichloropropene	108	102	70-130	6	25
Bromoform	110	108	70-130	2	50
1,1,2,2-Tetrachloroethane	92	91	70-130	1	25
Benzene	104	100	70-130	4	25
Toluene	101	98	70-130	3	25
Ethylbenzene	105	100	70-130	5	25

Lab Control Sample Analysis
Batch Quality Control

Project Name: RAYTHEON WAYLAND
Project Number: 0061882

Lab Number: L0714602
Report Date: 10/11/07

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B Associated sample(s): 03 Batch: WG297742-1 WG297742-2					
Chloromethane	77	72	70-130	7	50
Bromomethane	97	94	70-130	3	50
Vinyl chloride	88	81	70-130	8	25
Chloroethane	108	100	70-130	8	25
1,1-Dichloroethene	113	105	70-130	7	25
trans-1,2-Dichloroethene	106	102	70-130	4	25
Trichloroethene	110	105	70-130	5	25
1,2-Dichlorobenzene	97	96	70-130	1	25
1,3-Dichlorobenzene	102	100	70-130	2	25
1,4-Dichlorobenzene	99	100	70-130	1	25
Methyl tert butyl ether	103	100	70-130	3	25
p/m-Xylene	107	103	70-130	4	25
o-Xylene	110	104	70-130	6	25
cis-1,2-Dichloroethene	108	103	70-130	5	25
Dibromomethane	111	111	70-130	0	25
1,2,3-Trichloropropane	102	102	70-130	0	25
Styrene	108	104	70-130	4	25
Dichlorodifluoromethane	**65**	**60**	70-130	8	50
Acetone	120	102	70-130	16	50
Carbon disulfide	95	89	70-130	7	25
2-Butanone	100	98	70-130	2	50

Lab Control Sample Analysis
Batch Quality Control

Project Name: RAYTHEON WAYLAND
Project Number: 0061882
Lab Number: L0714602
Report Date: 10/11/07

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B Associated sample(s): 03 Batch: WG297742-1 WG297742-2					
4-Methyl-2-pentanone	95	98	70-130	3	50
2-Hexanone	91	87	70-130	4	50
Bromochloromethane	113	109	70-130	4	25
Tetrahydrofuran	98	91	70-130	7	25
2,2-Dichloropropane	120	111	70-130	8	50
1,2-Dibromoethane	104	99	70-130	5	25
1,3-Dichloropropane	98	95	70-130	3	25
1,1,1,2-Tetrachloroethane	111	106	70-130	5	25
Bromobenzene	103	102	70-130	1	25
n-Butylbenzene	100	95	70-130	5	25
sec-Butylbenzene	106	102	70-130	4	25
tert-Butylbenzene	106	104	70-130	2	25
o-Chlorotoluene	98	97	70-130	1	25
p-Chlorotoluene	98	94	70-130	4	25
1,2-Dibromo-3-chloropropane	83	89	70-130	7	50
Hexachlorobutadiene	79	74	70-130	7	25
Isopropylbenzene	118	113	70-130	4	25
p-Isopropyltoluene	108	104	70-130	4	25
Naphthalene	81	83	70-130	2	25
n-Propylbenzene	104	101	70-130	3	25
1,2,3-Trichlorobenzene	87	86	70-130	1	25

Lab Control Sample Analysis
Batch Quality Control

Project Name: RAYTHEON WAYLAND
Project Number: 0061882
Lab Number: L0714602
Report Date: 10/11/07

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B Associated sample(s): 03 Batch: WG297742-1 WG297742-2					
1,2,4-Trichlorobenzene	90	88	70-130	2	25
1,3,5-Trimethylbenzene	105	102	70-130	3	25
1,2,4-Trimethylbenzene	104	101	70-130	3	25
Ethyl ether	102	99	70-130	3	25
Isopropyl Ether	96	94	70-130	2	25
Ethyl-Tert-Butyl-Ether	105	98	70-130	7	25
Tertiary-Amyl Methyl Ether	104	100	70-130	4	25
1,4-Dioxane	**139**	**137**	70-130	1	50

Surrogate	LCS %Recovery	Qualifier	LCSD %Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		102		70-130
Toluene-d8	96		96		70-130
4-Bromofluorobenzene	96		97		70-130
Dibromofluoromethane	105		103		70-130

METALS

Project Name:	RAYTHEON WAYLAND	**Lab Number:**	L0714602
Project Number:	0061882	**Report Date:**	10/11/07

SAMPLE RESULTS

Lab ID:	L0714602-01	Date Collected:	10/02/07 14:35
Client ID:	MW-109-20071002-01	Date Received:	10/03/07
Sample Location:	WAYLAND, MA	Field Prep:	Field Filtered
Matrix:	Water		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals by MCP 6000/7000 series										
Sodium, Dissolved	15		mg/l	2.0	1	10/05/07 17:00	10/08/07 20:08	EPA 3005A	60,6010B	AI

Project Name:	RAYTHEON WAYLAND	**Lab Number:**	L0714602
Project Number:	0061882	**Report Date:**	10/11/07

SAMPLE RESULTS

Lab ID:	L0714602-02	Date Collected:	10/02/07 16:00
Client ID:	MW-33S-20071002-01	Date Received:	10/03/07
Sample Location:	WAYLAND, MA	Field Prep:	Field Filtered
Matrix:	Water		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals by MCP 6000/7000 series										
Sodium, Dissolved	11		mg/l	2.0	1	10/05/07 17:00	10/08/07 20:12	EPA 3005A	60,6010B	AI

Project Name:	RAYTHEON WAYLAND	**Lab Number:**	L0714602
Project Number:	0061882	**Report Date:**	10/11/07

SAMPLE RESULTS

Lab ID:	L0714602-03	Date Collected:	10/02/07 14:25
Client ID:	MW-111-20071002-01	Date Received:	10/03/07
Sample Location:	WAYLAND, MA	Field Prep:	Field Filtered
Matrix:	Water		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals by MCP 6000/7000 series										
Sodium, Dissolved	27		mg/l	2.0	1	10/05/07 17:00	10/08/07 20:16	EPA 3005A	60,6010B	AI

Project Name: RAYTHEON WAYLAND **Lab Number:** L0714602

Project Number: 0061882 **Report Date:** 10/11/07

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Dissolved Metals by MCP 6000/7000 series for sample(s): 01-03 Batch: WG296955-1									
Sodium, Dissolved	ND		mg/l	2.0	1	10/05/07 17:00	10/08/07 19:06	60,6010B	AI

Prep Information

Digestion Method: EPA 3005A

Lab Control Sample Analysis

Batch Quality Control

Project Name: RAYTHEON WAYLAND

Project Number: 0061882

Lab Number: L0714602

Report Date: 10/11/07

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Dissolved Metals by MCP 6000/7000 series Associated sample(s): 01-03 Batch: WG296955-2 WG296955-3					
Sodium, Dissolved	100	99	80-120	1	20

Project Name: RAYTHEON WAYLAND
Project Number: 0061882

Lab Number: L0714602
Report Date: 10/11/07

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp	Pres	Seal	Analysis
L0714602-01A	Vial HCl preserved	A	N/A	3.9 C	Y	Absent	MCP-8260-04
L0714602-01B	Vial HCl preserved	A	N/A	3.9 C	Y	Absent	MCP-8260-04
L0714602-01C	Plastic 250ml HNO3 preserved	A	<2	3.9 C	Y	Absent	MCP-NA-6010S
L0714602-02A	Vial HCl preserved	A	N/A	3.9 C	Y	Absent	MCP-8260-04
L0714602-02B	Vial HCl preserved	A	N/A	3.9 C	Y	Absent	MCP-8260-04
L0714602-02C	Plastic 250ml HNO3 preserved	A	<2	3.9 C	Y	Absent	MCP-NA-6010S
L0714602-03A	Vial HCl preserved	A	N/A	3.9 C	Y	Absent	MCP-8260-04
L0714602-03B	Vial HCl preserved	A	N/A	3.9 C	Y	Absent	MCP-8260-04
L0714602-03C	Plastic 250ml HNO3 preserved	A	<2	3.9 C	Y	Absent	MCP-NA-6010S
L0714602-04A	Vial Na2S2O3 preserved	A	N/A	3.9 C	Y	Absent	MCP-8260-04
L0714602-04B	Vial Na2S2O3 preserved	A	N/A	3.9 C	Y	Absent	MCP-8260-04
L0714602-05A	Vial HCl preserved	A	N/A	3.9 C	Y	Absent	MCP-8260-04

Project Name:	RAYTHEON WAYLAND	**Lab Number:**	L0714602
Project Number:	0061882	**Report Date:**	10/11/07

GLOSSARY

Acronyms

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.

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.

NI - Not Ignitable.

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.

ND - Not detected at the reported detection limit for the sample.

RDL - Reported Detection Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RDL 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.

Terms

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

The following data qualifiers have been identified for use under the CT DEP Reasonable Confidence Protocols.

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.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

J - Estimated value. The analyte was tentatively identified; the quantitation is an estimation. (Tentatively identified compounds only.)

Standard Qualifiers

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

Report Format: Not Specified

Project Name: RAYTHEON WAYLAND **Lab Number:** L0714602
Project Number: 0061882 **Report Date:** 10/11/07

REFERENCES

60 Quality Assurance and Quality Control Requirements and Performance Standards for SW-846 Methods. MADEP BWSC. WSC-CAM-IIA (Revision 4), WSC-CAM-V C (Revision 2), WSC-CAM-IIIA (Revision 5). May 2004.

LIMITATION OF LIABILITIES

Alpha Woods Hole Labs 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 Woods Hole Labs shall be to re-perform the work at it's own expense. In no event shall Alpha Woods Hole Labs 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 Woods Hole Labs.

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.

10110718:26

CHAIN OF CUSTODY

PAGE 1 OF 1

ALPHA WOODS HOLE LABS

WESTBORO, MA TEL: 508-898-9220 FAX: 508-898-9193

RAYNHAM, MA TEL: 508-822-9300 FAX: 508-822-3288

Date Rec'd in Lab: 10/3

ALPHA Job #: L0714602

Client Information

Client: ERM

Address: 399 BOYLSTON ST BOSTON, MA

Phone: 617-646-7800

Fax: 617-267-6447

Email: JEREMY.PILARD@ERM.COM

☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: RAYTHEON WAYLAND

Project Location: WAYLAND, MA

Project #: 0061882

Project Manager: JEREMY PILARD

ALPHA Quote #:

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved!)

Date Due: 10/10 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	Criteria
MCP	GW-1

MA MCP PRESUMPTIVE CERTAINTY --- CT REASONABLE CONFIDENCE PROTOCOLS

☒ Yes ☐ No Are MCP Analytical Methods Required?

☐ Yes ☒ No Are CT RCP (Reasonable Confidence Protocols) Required?

Other Project Specific Requirements/Comments/Detection Limits:

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	ANALYSIS 8260	8021B (HCL)	DISS O2	8021B (Na2S2O3)	Sample Specific Comments	TOTAL # BOTTLES
4602.1	MW-109-20071002-01	10/02/07	14:35	GW	JM	2	1				3
2	MW-33S-20071002-01	10/02/07	16:00	GW	JM	2	1				3
3	MW-111-20071002-01	10/2/07	14:25	GW	JM	2	1				
4	MW-201S-20071002-01	10/2/07	10:10	GW	MFM			2			
5	TB-002-20070928-01	9/28/07	13:10	DI	SLR	1					

Container Type	V	P	V
Preservative	B	C	H

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT MA MCP or CT RCP?

Relinquished By:	Date/Time	Received By:	Date/Time
[signature]	10/3/07 1135	[signature]	10/3/07 1135
[signature]	10/3/07 1400	[signature]	10/3 1400

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 Payment Terms. See reverse side.

FORM NO: 01-01 (rev. 10-OCT-05)

ANALYTICAL REPORT

Lab Number:	L0714554
Client:	ERM-New England 399 Boylston Street 6th Floor Boston, MA 02116
ATTN:	Jeremy Picard
Project Name:	RAYTHEON WAYLAND
Project Number:	0061882
Report Date:	10/12/07

Certifications & Approvals: MA (M-MA086), NY NELAC (11148), CT (PH-0574), NH (200305), NJ (MA935), RI (LAO00065), ME (2006012), PA (Registration #68-03671), USDA (Permit #S-72578), US Army Corps of Engineers, Naval FESC.

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: 0061882

Lab Number: L0714554
Report Date: 10/12/07

Alpha Sample ID	Client ID	Sample Location
L0714554-01	MW-203D-20071001-01	WAYLAND, MA
L0714554-02	MW-204S-20071001-01	WAYLAND, MA
L0714554-03	TB-001-20071002-01	WAYLAND, MA

Project Name:	RAYTHEON WAYLAND	**Lab Number:**	L0714554
Project Number:	0061882	**Report Date:**	10/12/07

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, B, C & D is required for "Presumptive Certainty" status		
A	Were all samples received by the laboratory in a condition consistent with those described on their Chain-of-Custody documentation for the data set?	YES
B	Were all QA/QC procedures required for the specified analytical methods(s) included in this report followed, including the requirement to note and discuss in a narrative QC data that did not meet appropriate performance standards or guidelines?	YES
C	Does the analytical data included in this report meet all the requirements for "Presumptive Certainty", as described in section 2.0 of the MADEP document CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	YES
D	VPH and EPH methods only: Was the VPH or EPH method run without significant modifications, as specified in Section 11.3?	N/A

A response to questions E and F is required for "Presumptive Certainty" status		
E	Were all QC performance standards and recommendations for the specified method(s) achieved?	NO
F	Were results for all analyte-list compounds/elements for the specified method(s) reported?	NO

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:**	L0714554
Project Number:	0061882	**Report Date:**	10/12/07

Case Narrative

The samples were received in accordance with the chain of custody and no significant deviations were encountered during preparation or analysis unless otherwise noted below.

MCP Related Narratives:

Sample Receipt

The samples were Field Filtered for Dissolved Metals only.

In reference to question E:

The WG297329-1/2 LCS/LCSD % recoveries for Acetone, 1,4-Dioxane, and 1,2,3-Trichloropropane, all difficult analytes, and the LCSD % recovery for Trichlorofluoromethane, are above the individual acceptance criteria for the compounds, but within the overall method allowances.

The WG297742-1/2 LCS/LCSD % recoveries for Dichlorodifluoromethane, a difficult analyte, are below and the % recoveries for 1,4-Dioxane, a difficult analyte, are above the individual acceptance criteria for the compounds, but within the overall method allowances.

In reference to question F:

At the client's request, all submitted samples were not analyzed for the full MCP list of compounds specified for the Method.

Metals

In reference to question F:

At the client's request, all submitted samples were not analyzed for the full MCP list of compounds specified for the Method.

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:

Title: Technical Director/Representative

Date: 10/12/07

ORGANICS

VOLATILES

Project Name: RAYTHEON WAYLAND **Lab Number:** L0714554

Project Number: 0061882 **Report Date:** 10/12/07

SAMPLE RESULTS

Lab ID:	L0714554-01	Date Collected:	10/01/07 16:05
Client ID:	MW-203D-20071001-01	Date Received:	10/02/07
Sample Location:	WAYLAND, MA	Field Prep:	Field Filtered
Matrix:	Water		
Anaytical Method:	60,8260B		
Analytical Date:	10/09/07 20:09		
Analyst:	BS		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
Methylene chloride	ND		ug/l	5.0	1
1,1-Dichloroethane	ND		ug/l	0.75	1
Chloroform	ND		ug/l	0.75	1
Carbon tetrachloride	ND		ug/l	0.50	1
1,2-Dichloropropane	ND		ug/l	1.8	1
Dibromochloromethane	ND		ug/l	0.50	1
1,1,2-Trichloroethane	ND		ug/l	0.75	1
Tetrachloroethene	2.4		ug/l	0.50	1
Chlorobenzene	ND		ug/l	0.50	1
1,2-Dichloroethane	ND		ug/l	0.50	1
1,1,1-Trichloroethane	ND		ug/l	0.50	1
Bromodichloromethane	ND		ug/l	0.50	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	1
Bromoform	ND		ug/l	2.0	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	1
Chloromethane	ND		ug/l	2.5	1
Vinyl chloride	ND		ug/l	1.0	1
Chloroethane	ND		ug/l	1.0	1
1,1-Dichloroethene	ND		ug/l	0.50	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	1
Trichloroethene	78		ug/l	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.5	1
1,3-Dichlorobenzene	ND		ug/l	2.5	1
1,4-Dichlorobenzene	ND		ug/l	2.5	1
cis-1,2-Dichloroethene	6.6		ug/l	0.50	1
Dichlorodifluoromethane	ND		ug/l	5.0	1
2,2-Dichloropropane	ND		ug/l	2.5	1
1,2-Dibromoethane	ND		ug/l	2.0	1
1,3-Dichloropropane	ND		ug/l	2.5	1

Project Name: RAYTHEON WAYLAND **Lab Number:** L0714554

Project Number: 0061882 **Report Date:** 10/12/07

SAMPLE RESULTS

Lab ID:	L0714554-01	Date Collected:	10/01/07 16:05
Client ID:	MW-203D-20071001-01	Date Received:	10/02/07
Sample Location:	WAYLAND, MA	Field Prep:	Field Filtered

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	1
o-Chlorotoluene	ND		ug/l	2.5	1
p-Chlorotoluene	ND		ug/l	2.5	1
Hexachlorobutadiene	ND		ug/l	0.60	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	118		70-130
Toluene-d8	105		70-130
4-Bromofluorobenzene	120		70-130
Dibromofluoromethane	104		70-130

Project Name: RAYTHEON WAYLAND **Lab Number:** L0714554

Project Number: 0061882 **Report Date:** 10/12/07

SAMPLE RESULTS

Lab ID:	L0714554-02	Date Collected:	10/01/07 15:45
Client ID:	MW-204S-20071001-01	Date Received:	10/02/07
Sample Location:	WAYLAND, MA	Field Prep:	Field Filtered
Matrix:	Water		
Anaytical Method:	60,8260B		
Analytical Date:	10/11/07 19:57		
Analyst:	BS		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
Methylene chloride	ND		ug/l	5.0	1
1,1-Dichloroethane	ND		ug/l	0.75	1
Chloroform	ND		ug/l	0.75	1
Carbon tetrachloride	ND		ug/l	0.50	1
1,2-Dichloropropane	ND		ug/l	1.8	1
Dibromochloromethane	ND		ug/l	0.50	1
1,1,2-Trichloroethane	ND		ug/l	0.75	1
Tetrachloroethene	14		ug/l	0.50	1
Chlorobenzene	ND		ug/l	0.50	1
1,2-Dichloroethane	ND		ug/l	0.50	1
1,1,1-Trichloroethane	ND		ug/l	0.50	1
Bromodichloromethane	ND		ug/l	0.50	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	1
Bromoform	ND		ug/l	2.0	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	1
Chloromethane	ND		ug/l	2.5	1
Vinyl chloride	ND		ug/l	1.0	1
Chloroethane	ND		ug/l	1.0	1
1,1-Dichloroethene	ND		ug/l	0.50	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	1
Trichloroethene	ND		ug/l	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.5	1
1,3-Dichlorobenzene	ND		ug/l	2.5	1
1,4-Dichlorobenzene	ND		ug/l	2.5	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	1
Dichlorodifluoromethane	ND		ug/l	5.0	1
2,2-Dichloropropane	ND		ug/l	2.5	1
1,2-Dibromoethane	ND		ug/l	2.0	1
1,3-Dichloropropane	ND		ug/l	2.5	1

Project Name: RAYTHEON WAYLAND **Lab Number:** L0714554

Project Number: 0061882 **Report Date:** 10/12/07

SAMPLE RESULTS

Lab ID:	L0714554-02	Date Collected:	10/01/07 15:45
Client ID:	MW-204S-20071001-01	Date Received:	10/02/07
Sample Location:	WAYLAND, MA	Field Prep:	Field Filtered

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	1
o-Chlorotoluene	ND		ug/l	2.5	1
p-Chlorotoluene	ND		ug/l	2.5	1
Hexachlorobutadiene	ND		ug/l	0.60	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	112		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	108		70-130

Project Name: RAYTHEON WAYLAND **Lab Number:** L0714554

Project Number: 0061882 **Report Date:** 10/12/07

SAMPLE RESULTS

Lab ID:	L0714554-03	Date Collected:	09/28/07 13:10
Client ID:	TB-001-20071002-01	Date Received:	10/02/07
Sample Location:	WAYLAND, MA	Field Prep:	Not Specified
Matrix:	Water		
Anaytical Method:	60,8260B		
Analytical Date:	10/11/07 20:27		
Analyst:	BS		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
Methylene chloride	ND		ug/l	5.0	1
1,1-Dichloroethane	ND		ug/l	0.75	1
Chloroform	ND		ug/l	0.75	1
Carbon tetrachloride	ND		ug/l	0.50	1
1,2-Dichloropropane	ND		ug/l	1.8	1
Dibromochloromethane	ND		ug/l	0.50	1
1,1,2-Trichloroethane	ND		ug/l	0.75	1
Tetrachloroethene	ND		ug/l	0.50	1
Chlorobenzene	ND		ug/l	0.50	1
1,2-Dichloroethane	ND		ug/l	0.50	1
1,1,1-Trichloroethane	ND		ug/l	0.50	1
Bromodichloromethane	ND		ug/l	0.50	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	1
Bromoform	ND		ug/l	2.0	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	1
Chloromethane	ND		ug/l	2.5	1
Vinyl chloride	ND		ug/l	1.0	1
Chloroethane	ND		ug/l	1.0	1
1,1-Dichloroethene	ND		ug/l	0.50	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	1
Trichloroethene	ND		ug/l	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.5	1
1,3-Dichlorobenzene	ND		ug/l	2.5	1
1,4-Dichlorobenzene	ND		ug/l	2.5	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	1
Dichlorodifluoromethane	ND		ug/l	5.0	1
2,2-Dichloropropane	ND		ug/l	2.5	1
1,2-Dibromoethane	ND		ug/l	2.0	1
1,3-Dichloropropane	ND		ug/l	2.5	1

Project Name: RAYTHEON WAYLAND **Lab Number:** L0714554

Project Number: 0061882 **Report Date:** 10/12/07

SAMPLE RESULTS

Lab ID:	L0714554-03	Date Collected:	09/28/07 13:10
Client ID:	TB-001-20071002-01	Date Received:	10/02/07
Sample Location:	WAYLAND, MA	Field Prep:	Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	1
o-Chlorotoluene	ND		ug/l	2.5	1
p-Chlorotoluene	ND		ug/l	2.5	1
Hexachlorobutadiene	ND		ug/l	0.60	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	112		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	106		70-130

Project Name: RAYTHEON WAYLAND **Lab Number:** L0714554

Project Number: 0061882 **Report Date:** 10/12/07

Method Blank Analysis
Batch Quality Control

Analytical Method: 60,8260B
Analytical Date: 10/09/07 11:04
Analyst: BS

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by MCP 8260B for sample(s): 01 Batch: WG297329-3				
Methylene chloride	ND		ug/l	5.0
1,1-Dichloroethane	ND		ug/l	0.75
Chloroform	ND		ug/l	0.75
Carbon tetrachloride	ND		ug/l	0.50
1,2-Dichloropropane	ND		ug/l	1.8
Dibromochloromethane	ND		ug/l	0.50
1,1,2-Trichloroethane	ND		ug/l	0.75
Tetrachloroethene	ND		ug/l	0.50
Chlorobenzene	ND		ug/l	0.50
Trichlorofluoromethane	ND		ug/l	2.5
1,2-Dichloroethane	ND		ug/l	0.50
1,1,1-Trichloroethane	ND		ug/l	0.50
Bromodichloromethane	ND		ug/l	0.50
trans-1,3-Dichloropropene	ND		ug/l	0.50
cis-1,3-Dichloropropene	ND		ug/l	0.50
1,1-Dichloropropene	ND		ug/l	2.5
Bromoform	ND		ug/l	2.0
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50
Benzene	ND		ug/l	0.50
Toluene	ND		ug/l	0.75
Ethylbenzene	ND		ug/l	0.50
Chloromethane	ND		ug/l	2.5
Bromomethane	ND		ug/l	1.0
Vinyl chloride	ND		ug/l	1.0
Chloroethane	ND		ug/l	1.0
1,1-Dichloroethene	ND		ug/l	0.50
trans-1,2-Dichloroethene	ND		ug/l	0.75
Trichloroethene	ND		ug/l	0.50
1,2-Dichlorobenzene	ND		ug/l	2.5
1,3-Dichlorobenzene	ND		ug/l	2.5
1,4-Dichlorobenzene	ND		ug/l	2.5

Project Name: RAYTHEON WAYLAND **Lab Number:** L0714554

Project Number: 0061882 **Report Date:** 10/12/07

Method Blank Analysis
Batch Quality Control

Analytical Method: 60,8260B
Analytical Date: 10/09/07 11:04
Analyst: BS

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by MCP 8260B for sample(s): 01 Batch: WG297329-3				
Methyl tert butyl ether	ND		ug/l	1.0
p/m-Xylene	ND		ug/l	1.0
o-Xylene	ND		ug/l	1.0
cis-1,2-Dichloroethene	ND		ug/l	0.50
Dibromomethane	ND		ug/l	5.0
1,2,3-Trichloropropane	ND		ug/l	5.0
Styrene	ND		ug/l	1.0
Dichlorodifluoromethane	ND		ug/l	5.0
Acetone	ND		ug/l	5.0
Carbon disulfide	ND		ug/l	5.0
2-Butanone	ND		ug/l	5.0
4-Methyl-2-pentanone	ND		ug/l	5.0
2-Hexanone	ND		ug/l	5.0
Bromochloromethane	ND		ug/l	2.5
Tetrahydrofuran	ND		ug/l	10
2,2-Dichloropropane	ND		ug/l	2.5
1,2-Dibromoethane	ND		ug/l	2.0
1,3-Dichloropropane	ND		ug/l	2.5
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50
Bromobenzene	ND		ug/l	2.5
n-Butylbenzene	ND		ug/l	0.50
sec-Butylbenzene	ND		ug/l	0.50
tert-Butylbenzene	ND		ug/l	2.5
o-Chlorotoluene	ND		ug/l	2.5
p-Chlorotoluene	ND		ug/l	2.5
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5
Hexachlorobutadiene	ND		ug/l	0.60
Isopropylbenzene	ND		ug/l	0.50
p-Isopropyltoluene	ND		ug/l	0.50
Naphthalene	ND		ug/l	2.5
n-Propylbenzene	ND		ug/l	0.50

Project Name: RAYTHEON WAYLAND **Lab Number:** L0714554

Project Number: 0061882 **Report Date:** 10/12/07

Method Blank Analysis
Batch Quality Control

Analytical Method: 60,8260B
Analytical Date: 10/09/07 11:04
Analyst: BS

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by MCP 8260B for sample(s): 01 Batch: WG297329-3				
1,2,3-Trichlorobenzene	ND		ug/l	2.5
1,2,4-Trichlorobenzene	ND		ug/l	2.5
1,3,5-Trimethylbenzene	ND		ug/l	2.5
1,2,4-Trimethylbenzene	ND		ug/l	2.5
Ethyl ether	ND		ug/l	2.5
Isopropyl Ether	ND		ug/l	2.0
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.0
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0
1,4-Dioxane	ND		ug/l	250

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	116		70-130
Toluene-d8	105		70-130
4-Bromofluorobenzene	119		70-130
Dibromofluoromethane	103		70-130

Project Name: RAYTHEON WAYLAND **Lab Number:** L0714554

Project Number: 0061882 **Report Date:** 10/12/07

Method Blank Analysis
Batch Quality Control

Analytical Method: 60,8260B
Analytical Date: 10/11/07 14:50
Analyst: BS

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by MCP 8260B for sample(s): 02-03 Batch: WG297742-3				
Methylene chloride	ND		ug/l	5.0
1,1-Dichloroethane	ND		ug/l	0.75
Chloroform	ND		ug/l	0.75
Carbon tetrachloride	ND		ug/l	0.50
1,2-Dichloropropane	ND		ug/l	1.8
Dibromochloromethane	ND		ug/l	0.50
1,1,2-Trichloroethane	ND		ug/l	0.75
Tetrachloroethene	ND		ug/l	0.50
Chlorobenzene	ND		ug/l	0.50
Trichlorofluoromethane	ND		ug/l	2.5
1,2-Dichloroethane	ND		ug/l	0.50
1,1,1-Trichloroethane	ND		ug/l	0.50
Bromodichloromethane	ND		ug/l	0.50
trans-1,3-Dichloropropene	ND		ug/l	0.50
cis-1,3-Dichloropropene	ND		ug/l	0.50
1,1-Dichloropropene	ND		ug/l	2.5
Bromoform	ND		ug/l	2.0
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50
Benzene	ND		ug/l	0.50
Toluene	ND		ug/l	0.75
Ethylbenzene	ND		ug/l	0.50
Chloromethane	ND		ug/l	2.5
Bromomethane	ND		ug/l	1.0
Vinyl chloride	ND		ug/l	1.0
Chloroethane	ND		ug/l	1.0
1,1-Dichloroethene	ND		ug/l	0.50
trans-1,2-Dichloroethene	ND		ug/l	0.75
Trichloroethene	ND		ug/l	0.50
1,2-Dichlorobenzene	ND		ug/l	2.5
1,3-Dichlorobenzene	ND		ug/l	2.5
1,4-Dichlorobenzene	ND		ug/l	2.5

Project Name: RAYTHEON WAYLAND **Lab Number:** L0714554

Project Number: 0061882 **Report Date:** 10/12/07

Method Blank Analysis
Batch Quality Control

Analytical Method: 60,8260B
Analytical Date: 10/11/07 14:50
Analyst: BS

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by MCP 8260B for sample(s): 02-03 Batch: WG297742-3				
Methyl tert butyl ether	ND		ug/l	1.0
p/m-Xylene	ND		ug/l	1.0
o-Xylene	ND		ug/l	1.0
cis-1,2-Dichloroethene	ND		ug/l	0.50
Dibromomethane	ND		ug/l	5.0
1,2,3-Trichloropropane	ND		ug/l	5.0
Styrene	ND		ug/l	1.0
Dichlorodifluoromethane	ND		ug/l	5.0
Acetone	ND		ug/l	5.0
Carbon disulfide	ND		ug/l	5.0
2-Butanone	ND		ug/l	5.0
4-Methyl-2-pentanone	ND		ug/l	5.0
2-Hexanone	ND		ug/l	5.0
Bromochloromethane	ND		ug/l	2.5
Tetrahydrofuran	ND		ug/l	10
2,2-Dichloropropane	ND		ug/l	2.5
1,2-Dibromoethane	ND		ug/l	2.0
1,3-Dichloropropane	ND		ug/l	2.5
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50
Bromobenzene	ND		ug/l	2.5
n-Butylbenzene	ND		ug/l	0.50
sec-Butylbenzene	ND		ug/l	0.50
tert-Butylbenzene	ND		ug/l	2.5
o-Chlorotoluene	ND		ug/l	2.5
p-Chlorotoluene	ND		ug/l	2.5
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5
Hexachlorobutadiene	ND		ug/l	0.60
Isopropylbenzene	ND		ug/l	0.50
p-Isopropyltoluene	ND		ug/l	0.50
Naphthalene	ND		ug/l	2.5
n-Propylbenzene	ND		ug/l	0.50

Project Name: RAYTHEON WAYLAND **Lab Number:** L0714554

Project Number: 0061882 **Report Date:** 10/12/07

Method Blank Analysis
Batch Quality Control

Analytical Method: 60,8260B
Analytical Date: 10/11/07 14:50
Analyst: BS

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by MCP 8260B for sample(s): 02-03 Batch: WG297742-3				
1,2,3-Trichlorobenzene	ND		ug/l	2.5
1,2,4-Trichlorobenzene	ND		ug/l	2.5
1,3,5-Trimethylbenzene	ND		ug/l	2.5
1,2,4-Trimethylbenzene	ND		ug/l	2.5
Ethyl ether	ND		ug/l	2.5
Isopropyl Ether	ND		ug/l	2.0
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.0
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0
1,4-Dioxane	ND		ug/l	250

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	106		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	104		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: RAYTHEON WAYLAND
Project Number: 0061882

Lab Number: L0714554
Report Date: 10/12/07

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B Associated sample(s): 01 Batch: WG297329-1 WG297329-2					
Methylene chloride	105	102	70-130	3	25
1,1-Dichloroethane	109	109	70-130	0	25
Chloroform	116	114	70-130	2	25
Carbon tetrachloride	84	86	70-130	2	25
1,2-Dichloropropane	112	109	70-130	3	25
Dibromochloromethane	84	85	70-130	1	25
1,1,2-Trichloroethane	116	112	70-130	4	25
Tetrachloroethene	97	88	70-130	10	25
Chlorobenzene	105	99	70-130	6	25
Trichlorofluoromethane	130	**133**	70-130	2	25
1,2-Dichloroethane	114	118	70-130	3	25
1,1,1-Trichloroethane	96	101	70-130	5	25
Bromodichloromethane	95	98	70-130	3	25
trans-1,3-Dichloropropene	105	102	70-130	3	25
cis-1,3-Dichloropropene	105	102	70-130	3	25
1,1-Dichloropropene	106	104	70-130	2	25
Bromoform	76	80	70-130	5	50
1,1,2,2-Tetrachloroethane	123	118	70-130	4	25
Benzene	104	100	70-130	4	25
Toluene	105	98	70-130	7	25
Ethylbenzene	102	98	70-130	4	25

Lab Control Sample Analysis
Batch Quality Control

Project Name: RAYTHEON WAYLAND
Project Number: 0061882

Lab Number: L0714554
Report Date: 10/12/07

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B Associated sample(s): 01 Batch: WG297329-1 WG297329-2					
Chloromethane	116	102	70-130	13	50
Bromomethane	119	128	70-130	7	50
Vinyl chloride	118	113	70-130	4	25
Chloroethane	114	122	70-130	7	25
1,1-Dichloroethene	110	111	70-130	1	25
trans-1,2-Dichloroethene	101	99	70-130	2	25
Trichloroethene	106	99	70-130	7	25
1,2-Dichlorobenzene	105	99	70-130	6	25
1,3-Dichlorobenzene	106	98	70-130	8	25
1,4-Dichlorobenzene	107	100	70-130	7	25
Methyl tert butyl ether	113	111	70-130	2	25
p/m-Xylene	104	97	70-130	7	25
o-Xylene	104	100	70-130	4	25
cis-1,2-Dichloroethene	103	101	70-130	2	25
Dibromomethane	110	113	70-130	3	25
1,2,3-Trichloropropane	**136**	**133**	70-130	2	25
Styrene	106	100	70-130	6	25
Dichlorodifluoromethane	112	106	70-130	6	50
Acetone	**161**	**131**	70-130	21	50
Carbon disulfide	114	111	70-130	3	25
2-Butanone	128	127	70-130	1	50

Lab Control Sample Analysis
Batch Quality Control

Project Name: RAYTHEON WAYLAND
Project Number: 0061882
Lab Number: L0714554
Report Date: 10/12/07

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B Associated sample(s): 01 Batch: WG297329-1 WG297329-2					
4-Methyl-2-pentanone	109	117	70-130	7	50
2-Hexanone	116	116	70-130	0	50
Bromochloromethane	102	104	70-130	2	25
Tetrahydrofuran	122	125	70-130	2	25
2,2-Dichloropropane	106	106	70-130	0	50
1,2-Dibromoethane	113	106	70-130	6	25
1,3-Dichloropropane	119	114	70-130	4	25
1,1,1,2-Tetrachloroethane	92	90	70-130	2	25
Bromobenzene	107	98	70-130	9	25
n-Butylbenzene	115	109	70-130	5	25
sec-Butylbenzene	109	104	70-130	5	25
tert-Butylbenzene	105	100	70-130	5	25
o-Chlorotoluene	110	103	70-130	7	25
p-Chlorotoluene	112	106	70-130	6	25
1,2-Dibromo-3-chloropropane	101	107	70-130	6	50
Hexachlorobutadiene	102	97	70-130	5	25
Isopropylbenzene	108	104	70-130	4	25
p-Isopropyltoluene	110	104	70-130	6	25
Naphthalene	116	103	70-130	12	25
n-Propylbenzene	111	105	70-130	6	25
1,2,3-Trichlorobenzene	107	103	70-130	4	25

Lab Control Sample Analysis
Batch Quality Control

Project Name: RAYTHEON WAYLAND
Project Number: 0061882
Lab Number: L0714554
Report Date: 10/12/07

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B Associated sample(s): 01 Batch: WG297329-1 WG297329-2					
1,2,4-Trichlorobenzene	105	99	70-130	6	25
1,3,5-Trimethylbenzene	108	103	70-130	5	25
1,2,4-Trimethylbenzene	112	103	70-130	8	25
Ethyl ether	124	126	70-130	2	25
Isopropyl Ether	107	104	70-130	3	25
Ethyl-Tert-Butyl-Ether	110	106	70-130	4	25
Tertiary-Amyl Methyl Ether	108	106	70-130	2	25
1,4-Dioxane	**139**	**134**	70-130	4	50

Surrogate	LCS %Recovery	Qualifier	LCSD %Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		108		70-130
Toluene-d8	102		101		70-130
4-Bromofluorobenzene	109		108		70-130
Dibromofluoromethane	96		98		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: RAYTHEON WAYLAND
Project Number: 0061882

Lab Number: L0714554
Report Date: 10/12/07

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B Associated sample(s): 02-03 Batch: WG297742-1 WG297742-2					
Methylene chloride	100	96	70-130	4	25
1,1-Dichloroethane	105	99	70-130	6	25
Chloroform	112	106	70-130	6	25
Carbon tetrachloride	124	118	70-130	5	25
1,2-Dichloropropane	104	99	70-130	5	25
Dibromochloromethane	107	103	70-130	4	25
1,1,2-Trichloroethane	99	95	70-130	4	25
Tetrachloroethene	116	111	70-130	4	25
Chlorobenzene	105	100	70-130	5	25
Trichlorofluoromethane	124	115	70-130	8	25
1,2-Dichloroethane	111	110	70-130	1	25
1,1,1-Trichloroethane	117	111	70-130	5	25
Bromodichloromethane	111	107	70-130	4	25
trans-1,3-Dichloropropene	103	99	70-130	4	25
cis-1,3-Dichloropropene	107	105	70-130	2	25
1,1-Dichloropropene	108	102	70-130	6	25
Bromoform	110	108	70-130	2	50
1,1,2,2-Tetrachloroethane	92	91	70-130	1	25
Benzene	104	100	70-130	4	25
Toluene	101	98	70-130	3	25
Ethylbenzene	105	100	70-130	5	25

Lab Control Sample Analysis
Batch Quality Control

Project Name: RAYTHEON WAYLAND
Project Number: 0061882

Lab Number: L0714554
Report Date: 10/12/07

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B Associated sample(s): 02-03 Batch: WG297742-1 WG297742-2					
Chloromethane	77	72	70-130	7	50
Bromomethane	97	94	70-130	3	50
Vinyl chloride	88	81	70-130	8	25
Chloroethane	108	100	70-130	8	25
1,1-Dichloroethene	113	105	70-130	7	25
trans-1,2-Dichloroethene	106	102	70-130	4	25
Trichloroethene	110	105	70-130	5	25
1,2-Dichlorobenzene	97	96	70-130	1	25
1,3-Dichlorobenzene	102	100	70-130	2	25
1,4-Dichlorobenzene	99	100	70-130	1	25
Methyl tert butyl ether	103	100	70-130	3	25
p/m-Xylene	107	103	70-130	4	25
o-Xylene	110	104	70-130	6	25
cis-1,2-Dichloroethene	108	103	70-130	5	25
Dibromomethane	111	111	70-130	0	25
1,2,3-Trichloropropane	102	102	70-130	0	25
Styrene	108	104	70-130	4	25
Dichlorodifluoromethane	**65**	**60**	70-130	8	50
Acetone	120	102	70-130	16	50
Carbon disulfide	95	89	70-130	7	25
2-Butanone	100	98	70-130	2	50

Lab Control Sample Analysis
Batch Quality Control

Project Name: RAYTHEON WAYLAND
Project Number: 0061882
Lab Number: L0714554
Report Date: 10/12/07

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B Associated sample(s): 02-03 Batch: WG297742-1 WG297742-2					
4-Methyl-2-pentanone	95	98	70-130	3	50
2-Hexanone	91	87	70-130	4	50
Bromochloromethane	113	109	70-130	4	25
Tetrahydrofuran	98	91	70-130	7	25
2,2-Dichloropropane	120	111	70-130	8	50
1,2-Dibromoethane	104	99	70-130	5	25
1,3-Dichloropropane	98	95	70-130	3	25
1,1,1,2-Tetrachloroethane	111	106	70-130	5	25
Bromobenzene	103	102	70-130	1	25
n-Butylbenzene	100	95	70-130	5	25
sec-Butylbenzene	106	102	70-130	4	25
tert-Butylbenzene	106	104	70-130	2	25
o-Chlorotoluene	98	97	70-130	1	25
p-Chlorotoluene	98	94	70-130	4	25
1,2-Dibromo-3-chloropropane	83	89	70-130	7	50
Hexachlorobutadiene	79	74	70-130	7	25
Isopropylbenzene	118	113	70-130	4	25
p-Isopropyltoluene	108	104	70-130	4	25
Naphthalene	81	83	70-130	2	25
n-Propylbenzene	104	101	70-130	3	25
1,2,3-Trichlorobenzene	87	86	70-130	1	25

Lab Control Sample Analysis
Batch Quality Control

Project Name: RAYTHEON WAYLAND
Project Number: 0061882
Lab Number: L0714554
Report Date: 10/12/07

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B Associated sample(s): 02-03 Batch: WG297742-1 WG297742-2					
1,2,4-Trichlorobenzene	90	88	70-130	2	25
1,3,5-Trimethylbenzene	105	102	70-130	3	25
1,2,4-Trimethylbenzene	104	101	70-130	3	25
Ethyl ether	102	99	70-130	3	25
Isopropyl Ether	96	94	70-130	2	25
Ethyl-Tert-Butyl-Ether	105	98	70-130	7	25
Tertiary-Amyl Methyl Ether	104	100	70-130	4	25
1,4-Dioxane	**139**	**137**	70-130	1	50

Surrogate	LCS %Recovery	Qualifier	LCSD %Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		102		70-130
Toluene-d8	96		96		70-130
4-Bromofluorobenzene	96		97		70-130
Dibromofluoromethane	105		103		70-130

METALS

Project Name:	RAYTHEON WAYLAND	**Lab Number:**	L0714554
Project Number:	0061882	**Report Date:**	10/12/07

SAMPLE RESULTS

Lab ID:	L0714554-01	Date Collected:	10/01/07 16:05
Client ID:	MW-203D-20071001-01	Date Received:	10/02/07
Sample Location:	WAYLAND, MA	Field Prep:	Field Filtered
Matrix:	Water		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals by MCP 6000/7000 series										
Sodium, Dissolved	84		mg/l	2.0	1	10/04/07 16:45	10/08/07 18:09	EPA 3005A	60,6010B	AI

Project Name:	RAYTHEON WAYLAND	**Lab Number:**	L0714554
Project Number:	0061882	**Report Date:**	10/12/07

SAMPLE RESULTS

Lab ID:	L0714554-02	Date Collected:	10/01/07 15:45
Client ID:	MW-204S-20071001-01	Date Received:	10/02/07
Sample Location:	WAYLAND, MA	Field Prep:	Field Filtered
Matrix:	Water		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals by MCP 6000/7000 series										
Sodium, Dissolved	24		mg/l	2.0	1	10/04/07 16:45	10/08/07 18:13	EPA 3005A	60,6010B	AI

Project Name: RAYTHEON WAYLAND **Lab Number:** L0714554

Project Number: 0061882 **Report Date:** 10/12/07

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Dissolved Metals by MCP 6000/7000 series for sample(s): 01-02 Batch: WG296805-1									
Sodium, Dissolved	ND		mg/l	2.0	1	10/04/07 16:45	10/08/07 16:52	60,6010B	AI

Prep Information

Digestion Method: EPA 3005A

Lab Control Sample Analysis

Batch Quality Control

Project Name: RAYTHEON WAYLAND

Project Number: 0061882

Lab Number: L0714554

Report Date: 10/12/07

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Dissolved Metals by MCP 6000/7000 series Associated sample(s): 01-02 Batch: WG296805-2 WG296805-3					
Sodium, Dissolved	100	100	80-120	0	20

Project Name: RAYTHEON WAYLAND
Project Number: 0061882

Lab Number: L0714554
Report Date: 10/12/07

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp	Pres	Seal	Analysis
L0714554-01A	Vial HCl preserved	A	N/A	3.6C	Y	Absent	MCP-8260-04
L0714554-01B	Vial HCl preserved	A	N/A	3.6C	Y	Absent	MCP-8260-04
L0714554-01C	Plastic 500ml HNO3 preserved	A	<2	3.6C	Y	Absent	MCP-NA-6010S
L0714554-02A	Vial HCl preserved	A	N/A	3.6C	Y	Absent	MCP-8260-04
L0714554-02B	Vial HCl preserved	A	N/A	3.6C	Y	Absent	MCP-8260-04
L0714554-02C	Plastic 500ml HNO3 preserved	A	<2	3.6C	Y	Absent	MCP-NA-6010S
L0714554-03A	Vial HCl preserved	A	N/A	3.6C	Y	Absent	MCP-8260-04

Project Name:	RAYTHEON WAYLAND	**Lab Number:**	L0714554
Project Number:	0061882	**Report Date:**	10/12/07

GLOSSARY

Acronyms

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.

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.

NI - Not Ignitable.

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.

ND - Not detected at the reported detection limit for the sample.

RDL - Reported Detection Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RDL 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.

Terms

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

The following data qualifiers have been identified for use under the CT DEP Reasonable Confidence Protocols.

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.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

J - Estimated value. The analyte was tentatively identified; the quantitation is an estimation. (Tentatively identified compounds only.)

Standard Qualifiers

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

Report Format: Data Usability Report

Project Name: RAYTHEON WAYLAND **Lab Number:** L0714554
Project Number: 0061882 **Report Date:** 10/12/07

REFERENCES

60 Quality Assurance and Quality Control Requirements and Performance Standards for SW-846 Methods. MADEP BWSC. WSC-CAM-IIA (Revision 4), WSC-CAM-V C (Revision 2), WSC-CAM-IIIA (Revision 5). May 2004.

LIMITATION OF LIABILITIES

Alpha Woods Hole Labs 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 Woods Hole Labs shall be to re-perform the work at it's own expense. In no event shall Alpha Woods Hole Labs 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 Woods Hole Labs.

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.

SAMP. ↔ COC MFM
COC ↔ MTRX JM

10120716:07

CHAIN OF CUSTODY

PAGE 1 OF 1

Date Rec'd in Lab: 10/2/07

ALPHA Job #: L0714554

ALPHA ANALYTICAL
WESTBORO, MA TEL: 508-898-9220 FAX: 508-898-9193
MANSFIELD, MA TEL: 508-822-9300 FAX: 508-822-3288

Client Information

Client: ERM
Address: 399 BOYLSTON ST
BOSTON, MA 02116
Phone: 617-646-7800
Fax: 617-267-6447
Email: jeremy.picard@erm.com
☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: RAYTHEON WAYLAND
Project Location: WAYLAND, MA
Project #: 0061882
Project Manager: JEREMY PICARD
ALPHA Quote #:

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved!)
Date Due: 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: MCP
Criteria: GW-1

MA MCP PRESUMPTIVE CERTAINTY --- CT REASONABLE CONFIDENCE PROTOCOLS

☒ Yes ☐ No Are MCP Analytical Methods Required?
☐ Yes ☒ No Are CT RCP (Reasonable Confidence Protocols) Required?

Other Project Specific Requirements/Comments/Detection Limits:

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	8021B (HCL)	DISS NA FIELD FILTERED	Sample Specific Comments	TOTAL # BOTTLES
14554 -1	MW-203D-20071001-01	10/01/07	1605	GW	JM	2	1		3
2	MW-204S-20071001-01	10/01/07	15:45	GW	MS	2	1		3
3	TB-001-20071002-01	9/28/07	13:10	DI	SLR	1			1

Container Type: V P
Preservative: B C

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT MA MCP or CT RCP?

Relinquished By:	Date/Time	Received By:	Date/Time
Paul Gilbert	10/2/07 1580	Paul Gilbert	10/2/07 051330
	10/2/07		10/2/07 1810

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 Payment Terms. See reverse side.

FORM NO: 01-01 (rev. 30-JUL-07)

ANALYTICAL REPORT

Lab Number:	L0714551
Client:	ERM-New England 399 Boylston Street 6th Floor Boston, MA 02116
ATTN:	Jeremy Picard
Project Name:	RAYTHEON WAYLAND
Project Number:	0061882
Report Date:	10/12/07

Certifications & Approvals: MA (M-MA086), NY NELAC (11148), CT (PH-0574), NH (200305), NJ (MA935), RI (LAO00065), ME (2006012), PA (Registration #68-03671), USDA (Permit #S-72578), US Army Corps of Engineers, Naval FESC.

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: 0061882

Lab Number: L0714551
Report Date: 10/12/07

Alpha Sample ID	Client ID	Sample Location
L0714551-01	MW-101-20071001-01	WAYLAND, MA
L0714551-02	MW-201M-20071001-01	WAYLAND, MA
L0714551-03	MW-201D-20071001-01	WAYLAND, MA

Project Name:	RAYTHEON WAYLAND	**Lab Number:**	L0714551
Project Number:	0061882	**Report Date:**	10/12/07

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, B, C & D is required for "Presumptive Certainty" status		
A	Were all samples received by the laboratory in a condition consistent with those described on their Chain-of-Custody documentation for the data set?	YES
B	Were all QA/QC procedures required for the specified analytical methods(s) included in this report followed, including the requirement to note and discuss in a narrative QC data that did not meet appropriate performance standards or guidelines?	YES
C	Does the analytical data included in this report meet all the requirements for "Presumptive Certainty", as described in section 2.0 of the MADEP document CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	YES
D	VPH and EPH methods only: Was the VPH or EPH method run without significant modifications, as specified in Section 11.3?	N/A

A response to questions E and F is required for "Presumptive Certainty" status		
E	Were all QC performance standards and recommendations for the specified method(s) achieved?	NO
F	Were results for all analyte-list compounds/elements for the specified method(s) reported?	NO

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:**	L0714551
Project Number:	0061882	**Report Date:**	10/12/07

Case Narrative

The samples were received in accordance with the chain of custody and no significant deviations were encountered during preparation or analysis unless otherwise noted below.

MCP Related Narratives

Sample Receipt

The samples were Field Filtered for Dissolved Metals only.

Volatile Organics

L0714551-02 had a pH >2.

In reference to question E:

The WG297477-1/2 LCS/LCSD % recoveries for Trichlorofluoromethane, Acetone, 2-Butanone, 1,4-Dioxane, all difficult analytes, the LCS/LCSD % recoveries for 1,2,3-Trichloropropane, the LCS % recovery for Chloroethane, and the LCSD % recoveries for Ethyl ether and Tetrahydrofuran are above the individual acceptance criteria for the compounds, but within the overall method allowances.

The WG297477-4/5 MS/MSD % recoveries for Dichlorodifluoromethane are below method acceptance criteria.

In reference to question F:

At the client's request, all submitted samples were not analyzed for the full MCP list of compounds specified for the Method.

Metals

In reference to question F:

At the client's request, all submitted samples were not analyzed for the full MCP list of compounds specified for the Method.

Project Name:	RAYTHEON WAYLAND	**Lab Number:**	L0714551
Project Number:	0061882	**Report Date:**	10/12/07

Case Narrative (continued)

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:

Title: Technical Director/Representative

Date: 10/12/07

ORGANICS

VOLATILES

Project Name: RAYTHEON WAYLAND **Lab Number:** L0714551

Project Number: 0061882 **Report Date:** 10/12/07

SAMPLE RESULTS

Lab ID:	L0714551-01	Date Collected:	10/01/07 16:35
Client ID:	MW-101-20071001-01	Date Received:	10/02/07
Sample Location:	WAYLAND, MA	Field Prep:	Field Filtered
Matrix:	Water		
Anaytical Method:	60,8260B		
Analytical Date:	10/09/07 19:11		
Analyst:	BS		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
Methylene chloride	ND		ug/l	5.0	1
1,1-Dichloroethane	ND		ug/l	0.75	1
Chloroform	ND		ug/l	0.75	1
Carbon tetrachloride	ND		ug/l	0.50	1
1,2-Dichloropropane	ND		ug/l	1.8	1
Dibromochloromethane	ND		ug/l	0.50	1
1,1,2-Trichloroethane	ND		ug/l	0.75	1
Tetrachloroethene	ND		ug/l	0.50	1
Chlorobenzene	ND		ug/l	0.50	1
1,2-Dichloroethane	ND		ug/l	0.50	1
1,1,1-Trichloroethane	ND		ug/l	0.50	1
Bromodichloromethane	ND		ug/l	0.50	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	1
Bromoform	ND		ug/l	2.0	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	1
Chloromethane	ND		ug/l	2.5	1
Vinyl chloride	ND		ug/l	1.0	1
Chloroethane	ND		ug/l	1.0	1
1,1-Dichloroethene	ND		ug/l	0.50	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	1
Trichloroethene	1.4		ug/l	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.5	1
1,3-Dichlorobenzene	ND		ug/l	2.5	1
1,4-Dichlorobenzene	ND		ug/l	2.5	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	1
Dichlorodifluoromethane	ND		ug/l	5.0	1
2,2-Dichloropropane	ND		ug/l	2.5	1
1,2-Dibromoethane	ND		ug/l	2.0	1
1,3-Dichloropropane	ND		ug/l	2.5	1

Project Name: RAYTHEON WAYLAND **Lab Number:** L0714551

Project Number: 0061882 **Report Date:** 10/12/07

SAMPLE RESULTS

Lab ID:	L0714551-01	Date Collected:	10/01/07 16:35
Client ID:	MW-101-20071001-01	Date Received:	10/02/07
Sample Location:	WAYLAND, MA	Field Prep:	Field Filtered

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	1
o-Chlorotoluene	ND		ug/l	2.5	1
p-Chlorotoluene	ND		ug/l	2.5	1
Hexachlorobutadiene	ND		ug/l	0.60	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	122		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	111		70-130
Dibromofluoromethane	99		70-130

Project Name: RAYTHEON WAYLAND **Lab Number:** L0714551

Project Number: 0061882 **Report Date:** 10/12/07

SAMPLE RESULTS

Lab ID:	L0714551-02	Date Collected:	10/01/07 14:00
Client ID:	MW-201M-20071001-01	Date Received:	10/02/07
Sample Location:	WAYLAND, MA	Field Prep:	Field Filtered
Matrix:	Water		
Anaytical Method:	60,8260B		
Analytical Date:	10/09/07 19:50		
Analyst:	BS		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
Methylene chloride	ND		ug/l	5.0	1
1,1-Dichloroethane	1.5		ug/l	0.75	1
Chloroform	ND		ug/l	0.75	1
Carbon tetrachloride	ND		ug/l	0.50	1
1,2-Dichloropropane	ND		ug/l	1.8	1
Dibromochloromethane	ND		ug/l	0.50	1
1,1,2-Trichloroethane	ND		ug/l	0.75	1
Tetrachloroethene	ND		ug/l	0.50	1
Chlorobenzene	ND		ug/l	0.50	1
1,2-Dichloroethane	ND		ug/l	0.50	1
1,1,1-Trichloroethane	ND		ug/l	0.50	1
Bromodichloromethane	ND		ug/l	0.50	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	1
Bromoform	ND		ug/l	2.0	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	1
Chloromethane	ND		ug/l	2.5	1
Vinyl chloride	ND		ug/l	1.0	1
Chloroethane	ND		ug/l	1.0	1
1,1-Dichloroethene	ND		ug/l	0.50	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	1
Trichloroethene	49		ug/l	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.5	1
1,3-Dichlorobenzene	ND		ug/l	2.5	1
1,4-Dichlorobenzene	ND		ug/l	2.5	1
cis-1,2-Dichloroethene	18		ug/l	0.50	1
Dichlorodifluoromethane	ND		ug/l	5.0	1
2,2-Dichloropropane	ND		ug/l	2.5	1
1,2-Dibromoethane	ND		ug/l	2.0	1
1,3-Dichloropropane	ND		ug/l	2.5	1

Project Name: RAYTHEON WAYLAND **Lab Number:** L0714551

Project Number: 0061882 **Report Date:** 10/12/07

SAMPLE RESULTS

Lab ID:	L0714551-02	Date Collected:	10/01/07 14:00
Client ID:	MW-201M-20071001-01	Date Received:	10/02/07
Sample Location:	WAYLAND, MA	Field Prep:	Field Filtered

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	1
o-Chlorotoluene	ND		ug/l	2.5	1
p-Chlorotoluene	ND		ug/l	2.5	1
Hexachlorobutadiene	ND		ug/l	0.60	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	119		70-130
Toluene-d8	105		70-130
4-Bromofluorobenzene	113		70-130
Dibromofluoromethane	104		70-130

Project Name: RAYTHEON WAYLAND **Lab Number:** L0714551

Project Number: 0061882 **Report Date:** 10/12/07

SAMPLE RESULTS

Lab ID:	L0714551-03	Date Collected:	10/01/07 15:45
Client ID:	MW-201D-20071001-01	Date Received:	10/02/07
Sample Location:	WAYLAND, MA	Field Prep:	Field Filtered
Matrix:	Water		
Anaytical Method:	60,8260B		
Analytical Date:	10/09/07 20:29		
Analyst:	BS		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
Methylene chloride	ND		ug/l	5.0	1
1,1-Dichloroethane	ND		ug/l	0.75	1
Chloroform	ND		ug/l	0.75	1
Carbon tetrachloride	ND		ug/l	0.50	1
1,2-Dichloropropane	ND		ug/l	1.8	1
Dibromochloromethane	ND		ug/l	0.50	1
1,1,2-Trichloroethane	ND		ug/l	0.75	1
Tetrachloroethene	ND		ug/l	0.50	1
Chlorobenzene	ND		ug/l	0.50	1
1,2-Dichloroethane	ND		ug/l	0.50	1
1,1,1-Trichloroethane	ND		ug/l	0.50	1
Bromodichloromethane	ND		ug/l	0.50	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	1
Bromoform	ND		ug/l	2.0	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	1
Chloromethane	ND		ug/l	2.5	1
Vinyl chloride	ND		ug/l	1.0	1
Chloroethane	ND		ug/l	1.0	1
1,1-Dichloroethene	ND		ug/l	0.50	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	1
Trichloroethene	3.4		ug/l	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.5	1
1,3-Dichlorobenzene	ND		ug/l	2.5	1
1,4-Dichlorobenzene	ND		ug/l	2.5	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	1
Dichlorodifluoromethane	ND		ug/l	5.0	1
2,2-Dichloropropane	ND		ug/l	2.5	1
1,2-Dibromoethane	ND		ug/l	2.0	1
1,3-Dichloropropane	ND		ug/l	2.5	1

Project Name: RAYTHEON WAYLAND **Lab Number:** L0714551

Project Number: 0061882 **Report Date:** 10/12/07

SAMPLE RESULTS

Lab ID:	L0714551-03	Date Collected:	10/01/07 15:45
Client ID:	MW-201D-20071001-01	Date Received:	10/02/07
Sample Location:	WAYLAND, MA	Field Prep:	Field Filtered

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	1
o-Chlorotoluene	ND		ug/l	2.5	1
p-Chlorotoluene	ND		ug/l	2.5	1
Hexachlorobutadiene	ND		ug/l	0.60	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	122		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	116		70-130
Dibromofluoromethane	102		70-130

Project Name: RAYTHEON WAYLAND **Lab Number:** L0714551

Project Number: 0061882 **Report Date:** 10/12/07

Method Blank Analysis
Batch Quality Control

Analytical Method: 60,8260B
Analytical Date: 10/09/07 11:23
Analyst: BS

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by MCP 8260B for sample(s): 01-03 Batch: WG297477-3				
Methylene chloride	ND		ug/l	5.0
1,1-Dichloroethane	ND		ug/l	0.75
Chloroform	ND		ug/l	0.75
Carbon tetrachloride	ND		ug/l	0.50
1,2-Dichloropropane	ND		ug/l	1.8
Dibromochloromethane	ND		ug/l	0.50
1,1,2-Trichloroethane	ND		ug/l	0.75
Tetrachloroethene	ND		ug/l	0.50
Chlorobenzene	ND		ug/l	0.50
Trichlorofluoromethane	ND		ug/l	2.5
1,2-Dichloroethane	ND		ug/l	0.50
1,1,1-Trichloroethane	ND		ug/l	0.50
Bromodichloromethane	ND		ug/l	0.50
trans-1,3-Dichloropropene	ND		ug/l	0.50
cis-1,3-Dichloropropene	ND		ug/l	0.50
1,1-Dichloropropene	ND		ug/l	2.5
Bromoform	ND		ug/l	2.0
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50
Benzene	ND		ug/l	0.50
Toluene	ND		ug/l	0.75
Ethylbenzene	ND		ug/l	0.50
Chloromethane	ND		ug/l	2.5
Bromomethane	ND		ug/l	1.0
Vinyl chloride	ND		ug/l	1.0
Chloroethane	ND		ug/l	1.0
1,1-Dichloroethene	ND		ug/l	0.50
trans-1,2-Dichloroethene	ND		ug/l	0.75
Trichloroethene	ND		ug/l	0.50
1,2-Dichlorobenzene	ND		ug/l	2.5
1,3-Dichlorobenzene	ND		ug/l	2.5
1,4-Dichlorobenzene	ND		ug/l	2.5

Project Name: RAYTHEON WAYLAND **Lab Number:** L0714551

Project Number: 0061882 **Report Date:** 10/12/07

Method Blank Analysis
Batch Quality Control

Analytical Method: 60,8260B
Analytical Date: 10/09/07 11:23
Analyst: BS

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by MCP 8260B for sample(s): 01-03 Batch: WG297477-3				
Methyl tert butyl ether	ND		ug/l	1.0
p/m-Xylene	ND		ug/l	1.0
o-Xylene	ND		ug/l	1.0
cis-1,2-Dichloroethene	ND		ug/l	0.50
Dibromomethane	ND		ug/l	5.0
1,2,3-Trichloropropane	ND		ug/l	5.0
Styrene	ND		ug/l	1.0
Dichlorodifluoromethane	ND		ug/l	5.0
Acetone	ND		ug/l	5.0
Carbon disulfide	ND		ug/l	5.0
2-Butanone	ND		ug/l	5.0
4-Methyl-2-pentanone	ND		ug/l	5.0
2-Hexanone	ND		ug/l	5.0
Bromochloromethane	ND		ug/l	2.5
Tetrahydrofuran	ND		ug/l	10
2,2-Dichloropropane	ND		ug/l	2.5
1,2-Dibromoethane	ND		ug/l	2.0
1,3-Dichloropropane	ND		ug/l	2.5
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50
Bromobenzene	ND		ug/l	2.5
n-Butylbenzene	ND		ug/l	0.50
sec-Butylbenzene	ND		ug/l	0.50
tert-Butylbenzene	ND		ug/l	2.5
o-Chlorotoluene	ND		ug/l	2.5
p-Chlorotoluene	ND		ug/l	2.5
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5
Hexachlorobutadiene	ND		ug/l	0.60
Isopropylbenzene	ND		ug/l	0.50
p-Isopropyltoluene	ND		ug/l	0.50
Naphthalene	ND		ug/l	2.5
n-Propylbenzene	ND		ug/l	0.50

Project Name: RAYTHEON WAYLAND **Lab Number:** L0714551

Project Number: 0061882 **Report Date:** 10/12/07

Method Blank Analysis
Batch Quality Control

Analytical Method: 60,8260B
Analytical Date: 10/09/07 11:23
Analyst: BS

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by MCP 8260B for sample(s): 01-03 Batch: WG297477-3				
1,2,3-Trichlorobenzene	ND		ug/l	2.5
1,2,4-Trichlorobenzene	ND		ug/l	2.5
1,3,5-Trimethylbenzene	ND		ug/l	2.5
1,2,4-Trimethylbenzene	ND		ug/l	2.5
Ethyl ether	ND		ug/l	2.5
Isopropyl Ether	ND		ug/l	2.0
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.0
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0
1,4-Dioxane	ND		ug/l	250

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	117		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	111		70-130
Dibromofluoromethane	101		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: RAYTHEON WAYLAND
Project Number: 0061882

Lab Number: L0714551
Report Date: 10/12/07

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B Associated sample(s): 01-03 Batch: WG297477-1 WG297477-2					
Methylene chloride	101	102	70-130	1	25
1,1-Dichloroethane	115	113	70-130	2	25
Chloroform	114	118	70-130	3	25
Carbon tetrachloride	95	94	70-130	1	25
1,2-Dichloropropane	113	114	70-130	1	25
Dibromochloromethane	84	92	70-130	9	25
1,1,2-Trichloroethane	109	118	70-130	8	25
Tetrachloroethene	101	95	70-130	6	25
Chlorobenzene	102	106	70-130	4	25
Trichlorofluoromethane	**141**	**143**	70-130	1	25
1,2-Dichloroethane	118	124	70-130	5	25
1,1,1-Trichloroethane	105	104	70-130	1	25
Bromodichloromethane	109	111	70-130	2	25
trans-1,3-Dichloropropene	106	110	70-130	4	25
cis-1,3-Dichloropropene	106	108	70-130	2	25
1,1-Dichloropropene	114	108	70-130	5	25
Bromoform	82	88	70-130	7	50
1,1,2,2-Tetrachloroethane	115	125	70-130	8	25
Benzene	108	107	70-130	1	25
Toluene	104	103	70-130	1	25
Ethylbenzene	108	107	70-130	1	25

Lab Control Sample Analysis
Batch Quality Control

Project Name: RAYTHEON WAYLAND
Project Number: 0061882

Lab Number: L0714551
Report Date: 10/12/07

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B Associated sample(s): 01-03 Batch: WG297477-1 WG297477-2					
Chloromethane	121	118	70-130	3	50
Bromomethane	92	102	70-130	10	50
Vinyl chloride	117	113	70-130	3	25
Chloroethane	**132**	127	70-130	4	25
1,1-Dichloroethene	116	114	70-130	2	25
trans-1,2-Dichloroethene	105	102	70-130	3	25
Trichloroethene	110	108	70-130	2	25
1,2-Dichlorobenzene	102	105	70-130	3	25
1,3-Dichlorobenzene	104	105	70-130	1	25
1,4-Dichlorobenzene	103	106	70-130	3	25
Methyl tert butyl ether	114	116	70-130	2	25
p/m-Xylene	103	104	70-130	1	25
o-Xylene	105	107	70-130	2	25
cis-1,2-Dichloroethene	108	107	70-130	1	25
Dibromomethane	110	119	70-130	8	25
1,2,3-Trichloropropane	**137**	**144**	70-130	5	25
Styrene	104	107	70-130	3	25
Dichlorodifluoromethane	109	108	70-130	1	50
Acetone	**159**	**154**	70-130	3	50
Carbon disulfide	123	118	70-130	4	25
2-Butanone	**132**	**139**	70-130	5	50

Lab Control Sample Analysis
Batch Quality Control

Project Name: RAYTHEON WAYLAND
Project Number: 0061882

Lab Number: L0714551
Report Date: 10/12/07

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B Associated sample(s): 01-03 Batch: WG297477-1 WG297477-2					
4-Methyl-2-pentanone	119	127	70-130	7	50
2-Hexanone	124	129	70-130	4	50
Bromochloromethane	107	111	70-130	4	25
Tetrahydrofuran	130	**140**	70-130	7	25
2,2-Dichloropropane	115	112	70-130	3	50
1,2-Dibromoethane	110	115	70-130	4	25
1,3-Dichloropropane	115	123	70-130	7	25
1,1,1,2-Tetrachloroethane	90	96	70-130	6	25
Bromobenzene	102	107	70-130	5	25
n-Butylbenzene	112	109	70-130	3	25
sec-Butylbenzene	111	109	70-130	2	25
tert-Butylbenzene	105	104	70-130	1	25
o-Chlorotoluene	110	110	70-130	0	25
p-Chlorotoluene	110	112	70-130	2	25
1,2-Dibromo-3-chloropropane	110	108	70-130	2	50
Hexachlorobutadiene	89	89	70-130	0	25
Isopropylbenzene	111	111	70-130	0	25
p-Isopropyltoluene	108	105	70-130	3	25
Naphthalene	110	114	70-130	4	25
n-Propylbenzene	112	111	70-130	1	25
1,2,3-Trichlorobenzene	100	105	70-130	5	25

Lab Control Sample Analysis
Batch Quality Control

Project Name: RAYTHEON WAYLAND
Project Number: 0061882
Lab Number: L0714551
Report Date: 10/12/07

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B Associated sample(s): 01-03 Batch: WG297477-1 WG297477-2					
1,2,4-Trichlorobenzene	97	102	70-130	5	25
1,3,5-Trimethylbenzene	107	107	70-130	0	25
1,2,4-Trimethylbenzene	107	108	70-130	1	25
Ethyl ether	125	**134**	70-130	7	25
Isopropyl Ether	109	111	70-130	2	25
Ethyl-Tert-Butyl-Ether	113	115	70-130	2	25
Tertiary-Amyl Methyl Ether	111	114	70-130	3	25
1,4-Dioxane	**172**	**166**	70-130	4	50

Surrogate	LCS %Recovery	Qualifier	LCSD %Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	110		109		70-130
Toluene-d8	102		103		70-130
4-Bromofluorobenzene	108		112		70-130
Dibromofluoromethane	101		99		70-130

Matrix Spike Analysis
Batch Quality Control

Project Name: RAYTHEON WAYLAND
Project Number: 0061882

Lab Number: L0714551
Report Date: 10/12/07

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B Associated sample(s): 01-03 QC Batch ID: WG297477-4 WG297477-5 QC Sample: L0714551-03 Client ID: MW-201D-20071001-01									
Methylene chloride	ND	10	10	103	10	100	70-130	3	30
1,1-Dichloroethane	ND	10	11	107	10	105	70-130	2	30
Chloroform	ND	10	11	106	10	103	70-130	3	30
Carbon tetrachloride	ND	10	10	106	10	103	70-130	3	30
1,2-Dichloropropane	ND	10	11	108	10	104	70-130	4	30
Dibromochloromethane	ND	10	11	109	10	103	70-130	6	30
1,1,2-Trichloroethane	ND	10	10	103	9.9	99	70-130	4	30
Tetrachloroethene	ND	10	10	105	9.8	98	70-130	7	30
Chlorobenzene	ND	10	10	106	9.9	100	70-130	6	30
1,2-Dichloroethane	ND	10	10	103	10	103	70-130	0	30
1,1,1-Trichloroethane	ND	10	10	106	10	104	70-130	2	30
Bromodichloromethane	ND	10	11	110	10	105	70-130	5	30
trans-1,3-Dichloropropene	ND	10	9.6	96	9.2	92	70-130	4	30
cis-1,3-Dichloropropene	ND	10	10	101	9.7	97	70-130	4	30
Bromoform	ND	10	11	113	11	106	70-130	6	30
1,1,2,2-Tetrachloroethane	ND	10	12	118	11	112	70-130	5	30
Chloromethane	ND	10	8.6	87	8.4	84	70-130	4	30
Vinyl chloride	ND	10	8.9	89	8.4	84	70-130	6	30
Chloroethane	ND	10	9.9	99	9.9	99	70-130	0	30
1,1-Dichloroethene	ND	10	10	105	10	101	70-130	4	30
trans-1,2-Dichloroethene	ND	10	10	106	10	105	70-130	1	30

Matrix Spike Analysis
Batch Quality Control

Project Name: RAYTHEON WAYLAND
Project Number: 0061882

Lab Number: L0714551
Report Date: 10/12/07

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B Associated sample(s): 01-03 QC Batch ID: WG297477-4 WG297477-5 QC Sample: L0714551-03 Client ID: MW-201D-20071001-01									
Trichloroethene	3.4	10	12	86	12	82	70-130	5	30
1,2-Dichlorobenzene	ND	10	10	103	10	101	70-130	2	30
1,3-Dichlorobenzene	ND	10	10	104	10	103	70-130	1	30
1,4-Dichlorobenzene	ND	10	10	105	10	102	70-130	3	30
cis-1,2-Dichloroethene	ND	10	11	112	11	108	70-130	4	30
Dichlorodifluoromethane	ND	10	6.0	**60**	5.9	**59**	70-130	2	30
2,2-Dichloropropane	ND	10	8.3	83	8.0	80	70-130	4	30
1,2-Dibromoethane	ND	10	10	106	10	100	70-130	6	30
1,3-Dichloropropane	ND	10	10	105	9.9	99	70-130	6	30
1,1,1,2-Tetrachloroethane	ND	10	11	107	10	101	70-130	6	30
o-Chlorotoluene	ND	10	10	105	9.9	99	70-130	6	30
p-Chlorotoluene	ND	10	10	105	10	101	70-130	4	30
Hexachlorobutadiene	ND	10	9.6	96	9.5	95	70-130	1	30
1,2,4-Trichlorobenzene	ND	10	9.2	92	9.1	91	70-130	1	30

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	95		96		70-130
4-Bromofluorobenzene	99		100		70-130
Dibromofluoromethane	102		104		70-130
Toluene-d8	99		97		70-130

METALS

Project Name:	RAYTHEON WAYLAND	**Lab Number:**	L0714551
Project Number:	0061882	**Report Date:**	10/12/07

SAMPLE RESULTS

Lab ID:	L0714551-01	Date Collected:	10/01/07 16:35
Client ID:	MW-101-20071001-01	Date Received:	10/02/07
Sample Location:	WAYLAND, MA	Field Prep:	Field Filtered
Matrix:	Water		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals by MCP 6000/7000 series										
Sodium, Dissolved	27		mg/l	2.0	1	10/04/07 16:45	10/05/07 17:57	EPA 3005A	60,6010B	AI

Project Name:	RAYTHEON WAYLAND	**Lab Number:**	L0714551
Project Number:	0061882	**Report Date:**	10/12/07

SAMPLE RESULTS

Lab ID:	L0714551-03	Date Collected:	10/01/07 15:45
Client ID:	MW-201D-20071001-01	Date Received:	10/02/07
Sample Location:	WAYLAND, MA	Field Prep:	Field Filtered
Matrix:	Water		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals by MCP 6000/7000 series										
Sodium, Dissolved	47		mg/l	2.0	1	10/04/07 16:45	10/05/07 17:41	EPA 3005A	60,6010B	AI

Project Name: RAYTHEON WAYLAND **Lab Number:** L0714551

Project Number: 0061882 **Report Date:** 10/12/07

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Dissolved Metals by MCP 6000/7000 series for sample(s): 01,03 Batch: WG296808-3									
Sodium, Dissolved	ND		mg/l	2.0	1	10/04/07 16:45	10/05/07 17:10	60,6010B	AI

Prep Information

Digestion Method: EPA 3005A

Lab Control Sample Analysis

Batch Quality Control

Project Name: RAYTHEON WAYLAND

Project Number: 0061882

Lab Number: L0714551

Report Date: 10/12/07

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Dissolved Metals by MCP 6000/7000 series Associated sample(s): 01,03 Batch: WG296808-4 WG296808-5					
Sodium, Dissolved	100	100	80-120	0	20

Matrix Spike Analysis
Batch Quality Control

Project Name: RAYTHEON WAYLAND
Project Number: 0061882

Lab Number: L0714551
Report Date: 10/12/07

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Dissolved Metals by MCP 6000/7000 series Associated sample(s): 01,03 QC Batch ID: WG296808-1 WG296808-2 QC Sample: L0714551-03 Client ID: MW-201D-20071001-01									
Sodium, Dissolved	47	10	56	90	56	90	75-125	0	20

Project Name: RAYTHEON WAYLAND
Project Number: 0061882

Lab Number: L0714551
Report Date: 10/12/07

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp	Pres	Seal	Analysis
L0714551-01A	Vial HCl preserved	A	N/A	3.6C	Y	Absent	MCP-8260-04
L0714551-01B	Vial HCl preserved	A	N/A	3.6C	Y	Absent	MCP-8260-04
L0714551-01C	Plastic 500ml HNO3 preserved	A	<2	3.6C	Y	Absent	MCP-NA-6010S
L0714551-02A	Vial Na2S2O3 preserved	A	N/A	3.6C	Y	Absent	MCP-8260-04
L0714551-02B	Vial Na2S2O3 preserved	A	N/A	3.6C	Y	Absent	MCP-8260-04
L0714551-03A	Vial HCl preserved	A	N/A	3.6C	Y	Absent	MCP-8260-04
L0714551-03B	Vial HCl preserved	A	N/A	3.6C	Y	Absent	MCP-8260-04
L0714551-03C	Vial HCl preserved	A	N/A	3.6C	Y	Absent	MCP-8260-04
L0714551-03D	Vial HCl preserved	A	N/A	3.6C	Y	Absent	MCP-8260-04
L0714551-03E	Vial HCl preserved	A	N/A	3.6C	Y	Absent	MCP-8260-04
L0714551-03F	Vial HCl preserved	A	N/A	3.6C	Y	Absent	MCP-8260-04
L0714551-03G	Plastic 500ml HNO3 preserved	A	<2	3.6C	Y	Absent	MCP-NA-6010S
L0714551-03H	Plastic 500ml HNO3 preserved	A	<2	3.6C	Y	Absent	MCP-NA-6010S
L0714551-03I	Plastic 500ml HNO3 preserved	A	<2	3.6C	Y	Absent	MCP-NA-6010S

Project Name:	RAYTHEON WAYLAND	**Lab Number:**	L0714551
Project Number:	0061882	**Report Date:**	10/12/07

GLOSSARY

Acronyms

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.

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.

NI - Not Ignitable.

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.

ND - Not detected at the reported detection limit for the sample.

RDL - Reported Detection Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RDL 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.

Terms

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

The following data qualifiers have been identified for use under the CT DEP Reasonable Confidence Protocols.

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.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

J - Estimated value. The analyte was tentatively identified; the quantitation is an estimation. (Tentatively identified compounds only.)

Standard Qualifiers

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

Project Name: RAYTHEON WAYLAND **Lab Number:** L0714551
Project Number: 0061882 **Report Date:** 10/12/07

REFERENCES

60 Quality Assurance and Quality Control Requirements and Performance Standards for SW-846 Methods. MADEP BWSC. WSC-CAM-IIA (Revision 4), WSC-CAM-V C (Revision 2), WSC-CAM-IIIA (Revision 5). May 2004.

LIMITATION OF LIABILITIES

Alpha Woods Hole Labs 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 Woods Hole Labs shall be to re-perform the work at it's own expense. In no event shall Alpha Woods Hole Labs 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 Woods Hole Labs.

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.

SAMP ↔ COC HEA
COC ⇔ MTRX JM

F

10120715:59

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: 10/2/07

ALPHA Job #: L0714551

Client Information

Client: ERM
Address: 399 BOYLSTON 6TH FLOOR, BOSTON, MA 02116
Phone: 617 646 7800
Fax: 617 267 6447
Email: JEREMY.PICARD@ERM.COM
☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: RAYTHEON WAYLAND
Project Location: WAYLAND, MA
Project #: 0061882
Project Manager: JEREMY PICARD
ALPHA Quote #:

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved!)
Date Due: 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	Criteria
MCP	GW-1

MA MCP PRESUMPTIVE CERTAINTY --- CT REASONABLE CONFIDENCE PROTOCOLS

☒ Yes ☐ No Are MCP Analytical Methods Required?
☐ Yes ☒ No Are CT RCP (Reasonable Confidence Protocols) Required?

Other Project Specific Requirements/Comments/Detection Limits:

ANALYSIS: 8021B (HCl) / 8021B ($Na_2S_2O_3$) / Dis. Sulfur (Filtered)

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	8021B (HCl)	8021B ($Na_2S_2O_3$)	Dis. Sulfur (Filtered)	Sample Specific Comments	Total # Bottles
14551-1	MW-101-20071001-01	10/01/07	16:35	GW	HEA	2		1		3
2	MW-201M-20071001-01	10/01/07	14:00	GW	MFM		2			2
3	MW-201D-20071001-01	10/01/07	15:45	GW	MFM	2		1		3
4	MW-201D-20071001-MS	10/01/07	15:45	GW	MFM	2		1		3
5	MW-201D-20071001-MSD	10/01/07	15:45	GW	MFM	2		1		3

JM JM

Container Type	V	V	P
Preservative	B	H	C

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT MA MCP *or* CT RCP?

Relinquished By:	Date/Time	Received By:	Date/Time
Paul Gilbert	10/2/07 1530	Paul Gilbert	10/2/07 1530
	10/2/07		10/2/07 1815

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 Payment Terms. See reverse side.

FORM NO: 01-01 (rev. 30-JUL-07)

ANALYTICAL REPORT

Lab Number:	L0714843
Client:	ERM-New England 399 Boylston Street 6th Floor Boston, MA 02116
ATTN:	Jeremy Picard
Project Name:	RAYTHEON WAYLAND
Project Number:	0061882
Report Date:	10/15/07

Certifications & Approvals: MA (M-MA086), NY NELAC (11148), CT (PH-0574), NH (200305), NJ (MA935), RI (LAO00065), ME (2006012), PA (Registration #68-03671), USDA (Permit #S-72578), US Army Corps of Engineers, Naval FESC.

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: 0061882

Lab Number: L0714843
Report Date: 10/15/07

Alpha Sample ID	Client ID	Sample Location
L0714843-01	MW-47D-2007-1004-01	WAYLAND, MA
L0714843-02	MW-47M-2007-1004-01	WAYLAND, MA
L0714843-03	MW-43S-2007-1004-01	WAYLAND, MA
L0714843-04	MW-106-2007-1004-01	WAYLAND, MA
L0714843-05	MW-104-2007-1004-01	WAYLAND, MA
L0714843-06	MW-209-2007-1004-01	WAYLAND, MA
L0714843-07	MW-106M-2007-1004-01	WAYLAND, MA
L0714843-08	MW-212-2007-1004-01	WAYLAND, MA

Project Name:	RAYTHEON WAYLAND	**Lab Number:**	L0714843
Project Number:	0061882	**Report Date:**	10/15/07

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, B, C & D is required for "Presumptive Certainty" status		
A	Were all samples received by the laboratory in a condition consistent with those described on their Chain-of-Custody documentation for the data set?	YES
B	Were all QA/QC procedures required for the specified analytical methods(s) included in this report followed, including the requirement to note and discuss in a narrative QC data that did not meet appropriate performance standards or guidelines?	YES
C	Does the analytical data included in this report meet all the requirements for "Presumptive Certainty", as described in section 2.0 of the MADEP document CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	YES
D	VPH and EPH methods only: Was the VPH or EPH method run without significant modifications, as specified in Section 11.3?	N/A

A response to questions E and F is required for "Presumptive Certainty" status		
E	Were all QC performance standards and recommendations for the specified method(s) achieved?	YES
F	Were results for all analyte-list compounds/elements for the specified method(s) reported?	NO

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:** L0714843
Project Number: 0061882 **Report Date:** 10/15/07

Case Narrative

The samples were received in accordance with the chain of custody and no significant deviations were encountered during preparation or analysis unless otherwise noted below.

MCP Related Narratives

Sample Receipt

The samples were Field Filtered for Dissolved Metals only.

Volatile Organics

In reference to question F:

At the client's request, all submitted samples were not analyzed for the full MCP list of compounds specified for the Method.

Metals

In reference to question F:

At the client's request, all submitted samples were not analyzed for the full MCP list of compounds specified for the Method.

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:

Title: Technical Director/Representative Date: 10/15/07

ORGANICS

VOLATILES

Project Name: RAYTHEON WAYLAND **Lab Number:** L0714843

Project Number: 0061882 **Report Date:** 10/15/07

SAMPLE RESULTS

Lab ID:	L0714843-01	Date Collected:	10/04/07 09:00
Client ID:	MW-47D-2007-1004-01	Date Received:	10/05/07
Sample Location:	WAYLAND, MA	Field Prep:	Field Filtered
Matrix:	Water		
Anaytical Method:	60,8260B		
Analytical Date:	10/13/07 17:33		
Analyst:	RY		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
Methylene chloride	ND		ug/l	5.0	1
1,1-Dichloroethane	ND		ug/l	0.75	1
Chloroform	ND		ug/l	0.75	1
Carbon tetrachloride	ND		ug/l	0.50	1
1,2-Dichloropropane	ND		ug/l	1.8	1
Dibromochloromethane	ND		ug/l	0.50	1
1,1,2-Trichloroethane	ND		ug/l	0.75	1
Tetrachloroethene	0.58		ug/l	0.50	1
Chlorobenzene	ND		ug/l	0.50	1
1,2-Dichloroethane	ND		ug/l	0.50	1
1,1,1-Trichloroethane	ND		ug/l	0.50	1
Bromodichloromethane	ND		ug/l	0.50	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	1
Bromoform	ND		ug/l	2.0	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	1
Chloromethane	ND		ug/l	2.5	1
Vinyl chloride	ND		ug/l	1.0	1
Chloroethane	ND		ug/l	1.0	1
1,1-Dichloroethene	ND		ug/l	0.50	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	1
Trichloroethene	9.3		ug/l	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.5	1
1,3-Dichlorobenzene	ND		ug/l	2.5	1
1,4-Dichlorobenzene	ND		ug/l	2.5	1
cis-1,2-Dichloroethene	1.0		ug/l	0.50	1
Dichlorodifluoromethane	ND		ug/l	5.0	1
2,2-Dichloropropane	ND		ug/l	2.5	1
1,2-Dibromoethane	ND		ug/l	2.0	1
1,3-Dichloropropane	ND		ug/l	2.5	1

Project Name: RAYTHEON WAYLAND **Lab Number:** L0714843

Project Number: 0061882 **Report Date:** 10/15/07

SAMPLE RESULTS

Lab ID:	L0714843-01	Date Collected:	10/04/07 09:00
Client ID:	MW-47D-2007-1004-01	Date Received:	10/05/07
Sample Location:	WAYLAND, MA	Field Prep:	Field Filtered

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	1
o-Chlorotoluene	ND		ug/l	2.5	1
p-Chlorotoluene	ND		ug/l	2.5	1
Hexachlorobutadiene	ND		ug/l	0.60	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	109		70-130

Project Name: RAYTHEON WAYLAND **Lab Number:** L0714843

Project Number: 0061882 **Report Date:** 10/15/07

SAMPLE RESULTS

Lab ID:	L0714843-02	Date Collected:	10/04/07 10:40
Client ID:	MW-47M-2007-1004-01	Date Received:	10/05/07
Sample Location:	WAYLAND, MA	Field Prep:	Field Filtered
Matrix:	Water		
Anaytical Method:	60,8260B		
Analytical Date:	10/13/07 18:03		
Analyst:	RY		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
Methylene chloride	ND		ug/l	5.0	1
1,1-Dichloroethane	ND		ug/l	0.75	1
Chloroform	ND		ug/l	0.75	1
Carbon tetrachloride	ND		ug/l	0.50	1
1,2-Dichloropropane	ND		ug/l	1.8	1
Dibromochloromethane	ND		ug/l	0.50	1
1,1,2-Trichloroethane	ND		ug/l	0.75	1
Tetrachloroethene	ND		ug/l	0.50	1
Chlorobenzene	ND		ug/l	0.50	1
1,2-Dichloroethane	ND		ug/l	0.50	1
1,1,1-Trichloroethane	ND		ug/l	0.50	1
Bromodichloromethane	ND		ug/l	0.50	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	1
Bromoform	ND		ug/l	2.0	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	1
Chloromethane	ND		ug/l	2.5	1
Vinyl chloride	ND		ug/l	1.0	1
Chloroethane	ND		ug/l	1.0	1
1,1-Dichloroethene	ND		ug/l	0.50	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	1
Trichloroethene	44		ug/l	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.5	1
1,3-Dichlorobenzene	ND		ug/l	2.5	1
1,4-Dichlorobenzene	ND		ug/l	2.5	1
cis-1,2-Dichloroethene	4.6		ug/l	0.50	1
Dichlorodifluoromethane	ND		ug/l	5.0	1
2,2-Dichloropropane	ND		ug/l	2.5	1
1,2-Dibromoethane	ND		ug/l	2.0	1
1,3-Dichloropropane	ND		ug/l	2.5	1

Project Name: RAYTHEON WAYLAND **Lab Number:** L0714843

Project Number: 0061882 **Report Date:** 10/15/07

SAMPLE RESULTS

Lab ID:	L0714843-02	Date Collected:	10/04/07 10:40
Client ID:	MW-47M-2007-1004-01	Date Received:	10/05/07
Sample Location:	WAYLAND, MA	Field Prep:	Field Filtered

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	1
o-Chlorotoluene	ND		ug/l	2.5	1
p-Chlorotoluene	ND		ug/l	2.5	1
Hexachlorobutadiene	ND		ug/l	0.60	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	92		70-130
4-Bromofluorobenzene	106		70-130
Dibromofluoromethane	108		70-130

Project Name: RAYTHEON WAYLAND **Lab Number:** L0714843

Project Number: 0061882 **Report Date:** 10/15/07

SAMPLE RESULTS

Lab ID:	L0714843-03	Date Collected:	10/04/07 14:25
Client ID:	MW-43S-2007-1004-01	Date Received:	10/05/07
Sample Location:	WAYLAND, MA	Field Prep:	Field Filtered
Matrix:	Water		
Anaytical Method:	60,8260B		
Analytical Date:	10/13/07 18:33		
Analyst:	RY		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
Methylene chloride	ND		ug/l	5.0	1
1,1-Dichloroethane	ND		ug/l	0.75	1
Chloroform	ND		ug/l	0.75	1
Carbon tetrachloride	ND		ug/l	0.50	1
1,2-Dichloropropane	ND		ug/l	1.8	1
Dibromochloromethane	ND		ug/l	0.50	1
1,1,2-Trichloroethane	ND		ug/l	0.75	1
Tetrachloroethene	1.1		ug/l	0.50	1
Chlorobenzene	ND		ug/l	0.50	1
1,2-Dichloroethane	ND		ug/l	0.50	1
1,1,1-Trichloroethane	ND		ug/l	0.50	1
Bromodichloromethane	ND		ug/l	0.50	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	1
Bromoform	ND		ug/l	2.0	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	1
Chloromethane	ND		ug/l	2.5	1
Vinyl chloride	ND		ug/l	1.0	1
Chloroethane	ND		ug/l	1.0	1
1,1-Dichloroethene	ND		ug/l	0.50	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	1
Trichloroethene	10		ug/l	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.5	1
1,3-Dichlorobenzene	ND		ug/l	2.5	1
1,4-Dichlorobenzene	ND		ug/l	2.5	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	1
Dichlorodifluoromethane	ND		ug/l	5.0	1
2,2-Dichloropropane	ND		ug/l	2.5	1
1,2-Dibromoethane	ND		ug/l	2.0	1
1,3-Dichloropropane	ND		ug/l	2.5	1

Project Name: RAYTHEON WAYLAND **Lab Number:** L0714843

Project Number: 0061882 **Report Date:** 10/15/07

SAMPLE RESULTS

Lab ID:	L0714843-03	Date Collected:	10/04/07 14:25
Client ID:	MW-43S-2007-1004-01	Date Received:	10/05/07
Sample Location:	WAYLAND, MA	Field Prep:	Field Filtered

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	1
o-Chlorotoluene	ND		ug/l	2.5	1
p-Chlorotoluene	ND		ug/l	2.5	1
Hexachlorobutadiene	ND		ug/l	0.60	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	106		70-130
Toluene-d8	93		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	104		70-130

Project Name: RAYTHEON WAYLAND **Lab Number:** L0714843

Project Number: 0061882 **Report Date:** 10/15/07

SAMPLE RESULTS

Lab ID:	L0714843-04	Date Collected:	10/04/07 15:20
Client ID:	MW-106-2007-1004-01	Date Received:	10/05/07
Sample Location:	WAYLAND, MA	Field Prep:	Field Filtered
Matrix:	Water		
Anaytical Method:	60,8260B		
Analytical Date:	10/13/07 19:03		
Analyst:	RY		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
Methylene chloride	ND		ug/l	5.0	1
1,1-Dichloroethane	ND		ug/l	0.75	1
Chloroform	ND		ug/l	0.75	1
Carbon tetrachloride	ND		ug/l	0.50	1
1,2-Dichloropropane	ND		ug/l	1.8	1
Dibromochloromethane	ND		ug/l	0.50	1
1,1,2-Trichloroethane	ND		ug/l	0.75	1
Tetrachloroethene	ND		ug/l	0.50	1
Chlorobenzene	ND		ug/l	0.50	1
1,2-Dichloroethane	ND		ug/l	0.50	1
1,1,1-Trichloroethane	ND		ug/l	0.50	1
Bromodichloromethane	ND		ug/l	0.50	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	1
Bromoform	ND		ug/l	2.0	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	1
Chloromethane	ND		ug/l	2.5	1
Vinyl chloride	ND		ug/l	1.0	1
Chloroethane	ND		ug/l	1.0	1
1,1-Dichloroethene	ND		ug/l	0.50	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	1
Trichloroethene	3.2		ug/l	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.5	1
1,3-Dichlorobenzene	ND		ug/l	2.5	1
1,4-Dichlorobenzene	ND		ug/l	2.5	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	1
Dichlorodifluoromethane	ND		ug/l	5.0	1
2,2-Dichloropropane	ND		ug/l	2.5	1
1,2-Dibromoethane	ND		ug/l	2.0	1
1,3-Dichloropropane	ND		ug/l	2.5	1

Project Name: RAYTHEON WAYLAND **Lab Number:** L0714843

Project Number: 0061882 **Report Date:** 10/15/07

SAMPLE RESULTS

Lab ID:	L0714843-04	Date Collected:	10/04/07 15:20
Client ID:	MW-106-2007-1004-01	Date Received:	10/05/07
Sample Location:	WAYLAND, MA	Field Prep:	Field Filtered

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	1
o-Chlorotoluene	ND		ug/l	2.5	1
p-Chlorotoluene	ND		ug/l	2.5	1
Hexachlorobutadiene	ND		ug/l	0.60	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	109		70-130
Toluene-d8	93		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	111		70-130

Project Name: RAYTHEON WAYLAND **Lab Number:** L0714843

Project Number: 0061882 **Report Date:** 10/15/07

SAMPLE RESULTS

Lab ID:	L0714843-05	Date Collected:	10/04/07 15:50
Client ID:	MW-104-2007-1004-01	Date Received:	10/05/07
Sample Location:	WAYLAND, MA	Field Prep:	Field Filtered
Matrix:	Water		
Anaytical Method:	60,8260B		
Analytical Date:	10/13/07 19:33		
Analyst:	RY		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
Methylene chloride	ND		ug/l	5.0	1
1,1-Dichloroethane	ND		ug/l	0.75	1
Chloroform	ND		ug/l	0.75	1
Carbon tetrachloride	ND		ug/l	0.50	1
1,2-Dichloropropane	ND		ug/l	1.8	1
Dibromochloromethane	ND		ug/l	0.50	1
1,1,2-Trichloroethane	ND		ug/l	0.75	1
Tetrachloroethene	1.2		ug/l	0.50	1
Chlorobenzene	ND		ug/l	0.50	1
1,2-Dichloroethane	ND		ug/l	0.50	1
1,1,1-Trichloroethane	ND		ug/l	0.50	1
Bromodichloromethane	ND		ug/l	0.50	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	1
Bromoform	ND		ug/l	2.0	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	1
Chloromethane	ND		ug/l	2.5	1
Vinyl chloride	ND		ug/l	1.0	1
Chloroethane	ND		ug/l	1.0	1
1,1-Dichloroethene	ND		ug/l	0.50	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	1
Trichloroethene	16		ug/l	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.5	1
1,3-Dichlorobenzene	ND		ug/l	2.5	1
1,4-Dichlorobenzene	ND		ug/l	2.5	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	1
Dichlorodifluoromethane	ND		ug/l	5.0	1
2,2-Dichloropropane	ND		ug/l	2.5	1
1,2-Dibromoethane	ND		ug/l	2.0	1
1,3-Dichloropropane	ND		ug/l	2.5	1

Project Name: RAYTHEON WAYLAND **Lab Number:** L0714843

Project Number: 0061882 **Report Date:** 10/15/07

SAMPLE RESULTS

Lab ID:	L0714843-05	Date Collected:	10/04/07 15:50
Client ID:	MW-104-2007-1004-01	Date Received:	10/05/07
Sample Location:	WAYLAND, MA	Field Prep:	Field Filtered

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	1
o-Chlorotoluene	ND		ug/l	2.5	1
p-Chlorotoluene	ND		ug/l	2.5	1
Hexachlorobutadiene	ND		ug/l	0.60	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	111		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	108		70-130

Project Name: RAYTHEON WAYLAND **Lab Number:** L0714843

Project Number: 0061882 **Report Date:** 10/15/07

SAMPLE RESULTS

Lab ID:	L0714843-06	Date Collected:	10/04/07 08:30
Client ID:	MW-209-2007-1004-01	Date Received:	10/05/07
Sample Location:	WAYLAND, MA	Field Prep:	Field Filtered
Matrix:	Water		
Anaytical Method:	60,8260B		
Analytical Date:	10/13/07 20:03		
Analyst:	RY		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
Methylene chloride	ND		ug/l	5.0	1
1,1-Dichloroethane	ND		ug/l	0.75	1
Chloroform	ND		ug/l	0.75	1
Carbon tetrachloride	ND		ug/l	0.50	1
1,2-Dichloropropane	ND		ug/l	1.8	1
Dibromochloromethane	ND		ug/l	0.50	1
1,1,2-Trichloroethane	ND		ug/l	0.75	1
Tetrachloroethene	ND		ug/l	0.50	1
Chlorobenzene	ND		ug/l	0.50	1
1,2-Dichloroethane	ND		ug/l	0.50	1
1,1,1-Trichloroethane	ND		ug/l	0.50	1
Bromodichloromethane	ND		ug/l	0.50	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	1
Bromoform	ND		ug/l	2.0	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	1
Chloromethane	ND		ug/l	2.5	1
Vinyl chloride	ND		ug/l	1.0	1
Chloroethane	ND		ug/l	1.0	1
1,1-Dichloroethene	ND		ug/l	0.50	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	1
Trichloroethene	ND		ug/l	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.5	1
1,3-Dichlorobenzene	ND		ug/l	2.5	1
1,4-Dichlorobenzene	ND		ug/l	2.5	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	1
Dichlorodifluoromethane	ND		ug/l	5.0	1
2,2-Dichloropropane	ND		ug/l	2.5	1
1,2-Dibromoethane	ND		ug/l	2.0	1
1,3-Dichloropropane	ND		ug/l	2.5	1

Project Name: RAYTHEON WAYLAND **Lab Number:** L0714843

Project Number: 0061882 **Report Date:** 10/15/07

SAMPLE RESULTS

Lab ID:	L0714843-06	Date Collected:	10/04/07 08:30
Client ID:	MW-209-2007-1004-01	Date Received:	10/05/07
Sample Location:	WAYLAND, MA	Field Prep:	Field Filtered

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	1
o-Chlorotoluene	ND		ug/l	2.5	1
p-Chlorotoluene	ND		ug/l	2.5	1
Hexachlorobutadiene	ND		ug/l	0.60	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	110		70-130
Toluene-d8	93		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	110		70-130

Project Name: RAYTHEON WAYLAND **Lab Number:** L0714843

Project Number: 0061882 **Report Date:** 10/15/07

SAMPLE RESULTS

Lab ID:	L0714843-07	Date Collected:	10/04/07 11:00
Client ID:	MW-106M-2007-1004-01	Date Received:	10/05/07
Sample Location:	WAYLAND, MA	Field Prep:	Field Filtered
Matrix:	Water		
Anaytical Method:	60,8260B		
Analytical Date:	10/13/07 20:33		
Analyst:	RY		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
Methylene chloride	ND		ug/l	5.0	1
1,1-Dichloroethane	ND		ug/l	0.75	1
Chloroform	ND		ug/l	0.75	1
Carbon tetrachloride	ND		ug/l	0.50	1
1,2-Dichloropropane	ND		ug/l	1.8	1
Dibromochloromethane	ND		ug/l	0.50	1
1,1,2-Trichloroethane	ND		ug/l	0.75	1
Tetrachloroethene	0.59		ug/l	0.50	1
Chlorobenzene	ND		ug/l	0.50	1
1,2-Dichloroethane	ND		ug/l	0.50	1
1,1,1-Trichloroethane	ND		ug/l	0.50	1
Bromodichloromethane	ND		ug/l	0.50	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	1
Bromoform	ND		ug/l	2.0	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	1
Chloromethane	ND		ug/l	2.5	1
Vinyl chloride	ND		ug/l	1.0	1
Chloroethane	ND		ug/l	1.0	1
1,1-Dichloroethene	ND		ug/l	0.50	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	1
Trichloroethene	5.0		ug/l	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.5	1
1,3-Dichlorobenzene	ND		ug/l	2.5	1
1,4-Dichlorobenzene	ND		ug/l	2.5	1
cis-1,2-Dichloroethene	0.80		ug/l	0.50	1
Dichlorodifluoromethane	ND		ug/l	5.0	1
2,2-Dichloropropane	ND		ug/l	2.5	1
1,2-Dibromoethane	ND		ug/l	2.0	1
1,3-Dichloropropane	ND		ug/l	2.5	1

Project Name: RAYTHEON WAYLAND **Lab Number:** L0714843

Project Number: 0061882 **Report Date:** 10/15/07

SAMPLE RESULTS

Lab ID:	L0714843-07	Date Collected:	10/04/07 11:00
Client ID:	MW-106M-2007-1004-01	Date Received:	10/05/07
Sample Location:	WAYLAND, MA	Field Prep:	Field Filtered

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	1
o-Chlorotoluene	ND		ug/l	2.5	1
p-Chlorotoluene	ND		ug/l	2.5	1
Hexachlorobutadiene	ND		ug/l	0.60	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	109		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	108		70-130

Project Name: RAYTHEON WAYLAND **Lab Number:** L0714843

Project Number: 0061882 **Report Date:** 10/15/07

SAMPLE RESULTS

Lab ID:	L0714843-08	Date Collected:	10/04/07 09:20
Client ID:	MW-212-2007-1004-01	Date Received:	10/05/07
Sample Location:	WAYLAND, MA	Field Prep:	Field Filtered
Matrix:	Water		
Anaytical Method:	60,8260B		
Analytical Date:	10/13/07 21:04		
Analyst:	RY		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
Methylene chloride	ND		ug/l	5.0	1
1,1-Dichloroethane	ND		ug/l	0.75	1
Chloroform	ND		ug/l	0.75	1
Carbon tetrachloride	ND		ug/l	0.50	1
1,2-Dichloropropane	ND		ug/l	1.8	1
Dibromochloromethane	ND		ug/l	0.50	1
1,1,2-Trichloroethane	ND		ug/l	0.75	1
Tetrachloroethene	ND		ug/l	0.50	1
Chlorobenzene	ND		ug/l	0.50	1
1,2-Dichloroethane	ND		ug/l	0.50	1
1,1,1-Trichloroethane	ND		ug/l	0.50	1
Bromodichloromethane	ND		ug/l	0.50	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	1
Bromoform	ND		ug/l	2.0	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	1
Chloromethane	ND		ug/l	2.5	1
Vinyl chloride	ND		ug/l	1.0	1
Chloroethane	ND		ug/l	1.0	1
1,1-Dichloroethene	ND		ug/l	0.50	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	1
Trichloroethene	1.7		ug/l	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.5	1
1,3-Dichlorobenzene	ND		ug/l	2.5	1
1,4-Dichlorobenzene	ND		ug/l	2.5	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	1
Dichlorodifluoromethane	ND		ug/l	5.0	1
2,2-Dichloropropane	ND		ug/l	2.5	1
1,2-Dibromoethane	ND		ug/l	2.0	1
1,3-Dichloropropane	ND		ug/l	2.5	1

Project Name: RAYTHEON WAYLAND **Lab Number:** L0714843

Project Number: 0061882 **Report Date:** 10/15/07

SAMPLE RESULTS

Lab ID:	L0714843-08	Date Collected:	10/04/07 09:20
Client ID:	MW-212-2007-1004-01	Date Received:	10/05/07
Sample Location:	WAYLAND, MA	Field Prep:	Field Filtered

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	1
o-Chlorotoluene	ND		ug/l	2.5	1
p-Chlorotoluene	ND		ug/l	2.5	1
Hexachlorobutadiene	ND		ug/l	0.60	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	113		70-130
Toluene-d8	92		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	109		70-130

Project Name: RAYTHEON WAYLAND **Lab Number:** L0714843

Project Number: 0061882 **Report Date:** 10/15/07

Method Blank Analysis
Batch Quality Control

Analytical Method: 60,8260B
Analytical Date: 10/13/07 17:03
Analyst: RY

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by MCP 8260B for sample(s): 01-08 Batch: WG298054-3				
Methylene chloride	ND		ug/l	5.0
1,1-Dichloroethane	ND		ug/l	0.75
Chloroform	ND		ug/l	0.75
Carbon tetrachloride	ND		ug/l	0.50
1,2-Dichloropropane	ND		ug/l	1.8
Dibromochloromethane	ND		ug/l	0.50
1,1,2-Trichloroethane	ND		ug/l	0.75
Tetrachloroethene	ND		ug/l	0.50
Chlorobenzene	ND		ug/l	0.50
Trichlorofluoromethane	ND		ug/l	2.5
1,2-Dichloroethane	ND		ug/l	0.50
1,1,1-Trichloroethane	ND		ug/l	0.50
Bromodichloromethane	ND		ug/l	0.50
trans-1,3-Dichloropropene	ND		ug/l	0.50
cis-1,3-Dichloropropene	ND		ug/l	0.50
1,1-Dichloropropene	ND		ug/l	2.5
Bromoform	ND		ug/l	2.0
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50
Benzene	ND		ug/l	0.50
Toluene	ND		ug/l	0.75
Ethylbenzene	ND		ug/l	0.50
Chloromethane	ND		ug/l	2.5
Bromomethane	ND		ug/l	1.0
Vinyl chloride	ND		ug/l	1.0
Chloroethane	ND		ug/l	1.0
1,1-Dichloroethene	ND		ug/l	0.50
trans-1,2-Dichloroethene	ND		ug/l	0.75
Trichloroethene	ND		ug/l	0.50
1,2-Dichlorobenzene	ND		ug/l	2.5
1,3-Dichlorobenzene	ND		ug/l	2.5
1,4-Dichlorobenzene	ND		ug/l	2.5

Project Name: RAYTHEON WAYLAND **Lab Number:** L0714843

Project Number: 0061882 **Report Date:** 10/15/07

Method Blank Analysis
Batch Quality Control

Analytical Method: 60,8260B
Analytical Date: 10/13/07 17:03
Analyst: RY

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by MCP 8260B for sample(s): 01-08 Batch: WG298054-3				
Methyl tert butyl ether	ND		ug/l	1.0
p/m-Xylene	ND		ug/l	1.0
o-Xylene	ND		ug/l	1.0
cis-1,2-Dichloroethene	ND		ug/l	0.50
Dibromomethane	ND		ug/l	5.0
1,2,3-Trichloropropane	ND		ug/l	5.0
Styrene	ND		ug/l	1.0
Dichlorodifluoromethane	ND		ug/l	5.0
Acetone	ND		ug/l	5.0
Carbon disulfide	ND		ug/l	5.0
2-Butanone	ND		ug/l	5.0
4-Methyl-2-pentanone	ND		ug/l	5.0
2-Hexanone	ND		ug/l	5.0
Bromochloromethane	ND		ug/l	2.5
Tetrahydrofuran	ND		ug/l	10
2,2-Dichloropropane	ND		ug/l	2.5
1,2-Dibromoethane	ND		ug/l	2.0
1,3-Dichloropropane	ND		ug/l	2.5
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50
Bromobenzene	ND		ug/l	2.5
n-Butylbenzene	ND		ug/l	0.50
sec-Butylbenzene	ND		ug/l	0.50
tert-Butylbenzene	ND		ug/l	2.5
o-Chlorotoluene	ND		ug/l	2.5
p-Chlorotoluene	ND		ug/l	2.5
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5
Hexachlorobutadiene	ND		ug/l	0.60
Isopropylbenzene	ND		ug/l	0.50
p-Isopropyltoluene	ND		ug/l	0.50
Naphthalene	ND		ug/l	2.5
n-Propylbenzene	ND		ug/l	0.50

Project Name: RAYTHEON WAYLAND **Lab Number:** L0714843

Project Number: 0061882 **Report Date:** 10/15/07

Method Blank Analysis
Batch Quality Control

Analytical Method: 60,8260B
Analytical Date: 10/13/07 17:03
Analyst: RY

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by MCP 8260B for sample(s): 01-08 Batch: WG298054-3				
1,2,3-Trichlorobenzene	ND		ug/l	2.5
1,2,4-Trichlorobenzene	ND		ug/l	2.5
1,3,5-Trimethylbenzene	ND		ug/l	2.5
1,2,4-Trimethylbenzene	ND		ug/l	2.5
Ethyl ether	ND		ug/l	2.5
Isopropyl Ether	ND		ug/l	2.0
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.0
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0
1,4-Dioxane	ND		ug/l	250

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	106		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	107		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: RAYTHEON WAYLAND
Project Number: 0061882
Lab Number: L0714843
Report Date: 10/15/07

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B Associated sample(s): 01-08 Batch: WG298054-1 WG298054-2					
Methylene chloride	88	79	70-130	11	25
1,1-Dichloroethane	87	80	70-130	8	25
Chloroform	95	86	70-130	10	25
Carbon tetrachloride	108	98	70-130	10	25
1,2-Dichloropropane	88	82	70-130	7	25
Dibromochloromethane	88	79	70-130	11	25
1,1,2-Trichloroethane	81	74	70-130	9	25
Tetrachloroethene	91	82	70-130	10	25
Chlorobenzene	86	79	70-130	8	25
Trichlorofluoromethane	114	103	70-130	10	25
1,2-Dichloroethane	105	95	70-130	10	25
1,1,1-Trichloroethane	101	93	70-130	8	25
Bromodichloromethane	100	91	70-130	9	25
trans-1,3-Dichloropropene	82	76	70-130	8	25
cis-1,3-Dichloropropene	95	84	70-130	12	25
1,1-Dichloropropene	90	81	70-130	11	25
Bromoform	88	80	70-130	10	50
1,1,2,2-Tetrachloroethane	75	70	70-130	7	25
Benzene	88	79	70-130	11	25
Toluene	80	72	70-130	11	25
Ethylbenzene	88	78	70-130	12	25

Lab Control Sample Analysis
Batch Quality Control

Project Name: RAYTHEON WAYLAND
Project Number: 0061882

Lab Number: L0714843
Report Date: 10/15/07

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B Associated sample(s): 01-08 Batch: WG298054-1 WG298054-2					
Chloromethane	82	78	70-130	5	50
Bromomethane	89	87	70-130	2	50
Vinyl chloride	84	78	70-130	7	25
Chloroethane	100	91	70-130	9	25
1,1-Dichloroethene	95	85	70-130	11	25
trans-1,2-Dichloroethene	90	77	70-130	16	25
Trichloroethene	97	86	70-130	12	25
1,2-Dichlorobenzene	88	78	70-130	12	25
1,3-Dichlorobenzene	92	80	70-130	14	25
1,4-Dichlorobenzene	89	80	70-130	11	25
Methyl tert butyl ether	86	77	70-130	11	25
p/m-Xylene	89	81	70-130	9	25
o-Xylene	89	82	70-130	8	25
cis-1,2-Dichloroethene	90	81	70-130	11	25
Dibromomethane	100	90	70-130	11	25
1,2,3-Trichloropropane	90	79	70-130	13	25
Styrene	92	86	70-130	7	25
Dichlorodifluoromethane	104	93	70-130	11	50
Acetone	**203**	106	70-130	**63**	50
Carbon disulfide	98	87	70-130	12	25
2-Butanone	110	91	70-130	19	50

Lab Control Sample Analysis
Batch Quality Control

Project Name: RAYTHEON WAYLAND
Project Number: 0061882
Lab Number: L0714843
Report Date: 10/15/07

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B Associated sample(s): 01-08 Batch: WG298054-1 WG298054-2					
4-Methyl-2-pentanone	101	88	70-130	14	50
2-Hexanone	92	79	70-130	15	50
Bromochloromethane	98	89	70-130	10	25
Tetrahydrofuran	82	71	70-130	14	25
2,2-Dichloropropane	106	94	70-130	12	50
1,2-Dibromoethane	84	76	70-130	10	25
1,3-Dichloropropane	80	72	70-130	11	25
1,1,1,2-Tetrachloroethane	93	84	70-130	10	25
Bromobenzene	87	77	70-130	12	25
n-Butylbenzene	98	84	70-130	15	25
sec-Butylbenzene	92	82	70-130	11	25
tert-Butylbenzene	89	79	70-130	12	25
o-Chlorotoluene	83	74	70-130	11	25
p-Chlorotoluene	84	77	70-130	9	25
1,2-Dibromo-3-chloropropane	86	73	70-130	16	50
Hexachlorobutadiene	96	79	70-130	19	25
Isopropylbenzene	100	91	70-130	9	25
p-Isopropyltoluene	98	87	70-130	12	25
Naphthalene	78	71	70-130	9	25
n-Propylbenzene	84	76	70-130	10	25
1,2,3-Trichlorobenzene	84	77	70-130	9	25

Lab Control Sample Analysis
Batch Quality Control

Project Name: RAYTHEON WAYLAND
Project Number: 0061882
Lab Number: L0714843
Report Date: 10/15/07

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B Associated sample(s): 01-08 Batch: WG298054-1 WG298054-2					
1,2,4-Trichlorobenzene	87	78	70-130	11	25
1,3,5-Trimethylbenzene	88	78	70-130	12	25
1,2,4-Trimethylbenzene	92	81	70-130	13	25
Ethyl ether	82	72	70-130	13	25
Isopropyl Ether	78	71	70-130	9	25
Ethyl-Tert-Butyl-Ether	81	75	70-130	8	25
Tertiary-Amyl Methyl Ether	86	78	70-130	10	25
1,4-Dioxane	124	119	70-130	4	50

Surrogate	LCS %Recovery	Qualifier	LCSD %Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	115		112		70-130
Toluene-d8	92		92		70-130
4-Bromofluorobenzene	94		91		70-130
Dibromofluoromethane	109		109		70-130

METALS

Project Name:	RAYTHEON WAYLAND	**Lab Number:**	L0714843
Project Number:	0061882	**Report Date:**	10/15/07

SAMPLE RESULTS

Lab ID:	L0714843-01	Date Collected:	10/04/07 09:00
Client ID:	MW-47D-2007-1004-01	Date Received:	10/05/07
Sample Location:	WAYLAND, MA	Field Prep:	Field Filtered
Matrix:	Water		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals by MCP 6000/7000 series										
Sodium, Dissolved	100		mg/l	2.0	1	10/10/07 17:30	10/11/07 16:53	EPA 3005A	60,6010B	AI

Project Name:	RAYTHEON WAYLAND	**Lab Number:**	L0714843
Project Number:	0061882	**Report Date:**	10/15/07

SAMPLE RESULTS

Lab ID:	L0714843-02	Date Collected:	10/04/07 10:40
Client ID:	MW-47M-2007-1004-01	Date Received:	10/05/07
Sample Location:	WAYLAND, MA	Field Prep:	Field Filtered
Matrix:	Water		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals by MCP 6000/7000 series										
Sodium, Dissolved	20		mg/l	2.0	1	10/10/07 17:30	10/11/07 16:57	EPA 3005A	60,6010B	AI

Project Name:	RAYTHEON WAYLAND	**Lab Number:**	L0714843
Project Number:	0061882	**Report Date:**	10/15/07

SAMPLE RESULTS

Lab ID:	L0714843-03	Date Collected:	10/04/07 14:25
Client ID:	MW-43S-2007-1004-01	Date Received:	10/05/07
Sample Location:	WAYLAND, MA	Field Prep:	Field Filtered
Matrix:	Water		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals by MCP 6000/7000 series										
Sodium, Dissolved	150		mg/l	2.0	1	10/10/07 17:30	10/11/07 17:01	EPA 3005A	60,6010B	AI

Project Name:	RAYTHEON WAYLAND	**Lab Number:**	L0714843
Project Number:	0061882	**Report Date:**	10/15/07

SAMPLE RESULTS

Lab ID:	L0714843-06	Date Collected:	10/04/07 08:30
Client ID:	MW-209-2007-1004-01	Date Received:	10/05/07
Sample Location:	WAYLAND, MA	Field Prep:	Field Filtered
Matrix:	Water		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals by MCP 6000/7000 series										
Sodium, Dissolved	60		mg/l	2.0	1	10/10/07 17:30	10/11/07 17:05	EPA 3005A	60,6010B	AI

Project Name:	RAYTHEON WAYLAND	**Lab Number:**	L0714843
Project Number:	0061882	**Report Date:**	10/15/07

SAMPLE RESULTS

Lab ID:	L0714843-07	Date Collected:	10/04/07 11:00
Client ID:	MW-106M-2007-1004-01	Date Received:	10/05/07
Sample Location:	WAYLAND, MA	Field Prep:	Field Filtered
Matrix:	Water		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals by MCP 6000/7000 series										
Sodium, Dissolved	190		mg/l	2.0	1	10/10/07 17:30	10/11/07 17:09	EPA 3005A	60,6010B	AI

Project Name:	RAYTHEON WAYLAND	**Lab Number:**	L0714843
Project Number:	0061882	**Report Date:**	10/15/07

SAMPLE RESULTS

Lab ID:	L0714843-08	Date Collected:	10/04/07 09:20
Client ID:	MW-212-2007-1004-01	Date Received:	10/05/07
Sample Location:	WAYLAND, MA	Field Prep:	Field Filtered
Matrix:	Water		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals by MCP 6000/7000 series										
Sodium, Dissolved	180		mg/l	2.0	1	10/10/07 17:30	10/11/07 17:13	EPA 3005A	60,6010B	AI

Project Name: RAYTHEON WAYLAND **Lab Number:** L0714843

Project Number: 0061882 **Report Date:** 10/15/07

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Dissolved Metals by MCP 6000/7000 series for sample(s): 01-03,06-08 Batch: WG297593-1									
Sodium, Dissolved	ND		mg/l	2.0	1	10/10/07 17:30	10/11/07 15:55	60,6010B	AI

Prep Information

Digestion Method: EPA 3005A

Lab Control Sample Analysis

Batch Quality Control

Project Name: RAYTHEON WAYLAND

Project Number: 0061882

Lab Number: L0714843

Report Date: 10/15/07

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Dissolved Metals by MCP 6000/7000 series Associated sample(s): 01-03,06-08 Batch: WG297593-2 WG297593-3					
Sodium, Dissolved	95	94	80-120	1	20

Project Name: RAYTHEON WAYLAND
Project Number: 0061882

Lab Number: L0714843
Report Date: 10/15/07

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp	Pres	Seal	Analysis
L0714843-01A	Vial HCl preserved	A	N/A	2C	Y	Absent	MCP-8260-04
L0714843-01B	Vial HCl preserved	A	N/A	2C	Y	Absent	MCP-8260-04
L0714843-01C	Plastic 500ml HNO3 preserved	A	<2	2C	Y	Absent	MCP-NA-6010S
L0714843-02A	Vial HCl preserved	A	N/A	2C	Y	Absent	MCP-8260-04
L0714843-02B	Vial HCl preserved	A	N/A	2C	Y	Absent	MCP-8260-04
L0714843-02C	Plastic 500ml HNO3 preserved	A	<2	2C	Y	Absent	MCP-NA-6010S
L0714843-03A	Vial HCl preserved	A	N/A	2C	Y	Absent	MCP-8260-04
L0714843-03B	Vial HCl preserved	A	N/A	2C	Y	Absent	MCP-8260-04
L0714843-03C	Plastic 500ml HNO3 preserved	A	<2	2C	Y	Absent	MCP-NA-6010S
L0714843-04A	Vial Na2S2O3 preserved	A	N/A	2C	Y	Absent	MCP-8260-04
L0714843-04B	Vial Na2S2O3 preserved	A	N/A	2C	Y	Absent	MCP-8260-04
L0714843-05A	Vial Na2S2O3 preserved	A	N/A	2C	Y	Absent	MCP-8260-04
L0714843-05B	Vial Na2S2O3 preserved	A	N/A	2C	Y	Absent	MCP-8260-04
L0714843-06A	Vial HCl preserved	A	N/A	2C	Y	Absent	MCP-8260-04
L0714843-06B	Vial HCl preserved	A	N/A	2C	Y	Absent	MCP-8260-04
L0714843-06C	Plastic 500ml HNO3 preserved	A	<2	2C	Y	Absent	MCP-NA-6010S
L0714843-07A	Vial HCl preserved	A	N/A	2C	Y	Absent	MCP-8260-04
L0714843-07B	Vial HCl preserved	A	N/A	2C	Y	Absent	MCP-8260-04
L0714843-07C	Plastic 500ml HNO3 preserved	A	<2	2C	Y	Absent	MCP-NA-6010S
L0714843-08A	Vial HCl preserved	A	N/A	2C	Y	Absent	MCP-8260-04
L0714843-08B	Vial HCl preserved	A	N/A	2C	Y	Absent	MCP-8260-04
L0714843-08C	Plastic 500ml HNO3 preserved	A	<2	2C	Y	Absent	MCP-NA-6010S

Container Comments

L0714843-01A	Temp Probe
L0714843-01B	Temp Probe
L0714843-01C	Temp Probe
L0714843-02A	Temp Probe
L0714843-02B	Temp Probe

Project Name: RAYTHEON WAYLAND
Project Number: 0061882

Lab Number: L0714843
Report Date: 10/15/07

Container Information

Container ID	Container Type	Cooler	pH	Temp	Pres	Seal	Analysis

Container Comments

L0714843-02C	Temp Probe
L0714843-03A	Temp Probe
L0714843-03B	Temp Probe
L0714843-03C	Temp Probe
L0714843-04A	Temp Probe
L0714843-04B	Temp Probe
L0714843-05A	Temp Probe
L0714843-05B	Temp Probe
L0714843-06A	Temp Probe
L0714843-06B	Temp Probe
L0714843-06C	Temp Probe
L0714843-07A	Temp Probe
L0714843-07B	Temp Probe
L0714843-07C	Temp Probe
L0714843-08A	Temp Probe
L0714843-08B	Temp Probe
L0714843-08C	Temp Probe

Project Name:	RAYTHEON WAYLAND	**Lab Number:**	L0714843
Project Number:	0061882	**Report Date:**	10/15/07

GLOSSARY

Acronyms

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.

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.

NI - Not Ignitable.

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.

ND - Not detected at the reported detection limit for the sample.

RDL - Reported Detection Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RDL 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.

Terms

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

The following data qualifiers have been identified for use under the CT DEP Reasonable Confidence Protocols.

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.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

J - Estimated value. The analyte was tentatively identified; the quantitation is an estimation. (Tentatively identified compounds only.)

Standard Qualifiers

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

Report Format: Not Specified

Project Name: RAYTHEON WAYLAND **Lab Number:** L0714843
Project Number: 0061882 **Report Date:** 10/15/07

REFERENCES

60 Quality Assurance and Quality Control Requirements and Performance Standards for SW-846 Methods. MADEP BWSC. WSC-CAM-IIA (Revision 4), WSC-CAM-V C (Revision 2), WSC-CAM-IIIA (Revision 5). May 2004.

LIMITATION OF LIABILITIES

Alpha Woods Hole Labs 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 Woods Hole Labs shall be to re-perform the work at it's own expense. In no event shall Alpha Woods Hole Labs 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 Woods Hole Labs.

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.

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: 10/5/07

ALPHA Job #: L0714843

Client Information

Client: ERM

Address: 399 BOYLSTON ST, 6TH FLOOR BOSTON, MA 02116

Phone: (617) 646-7800

Fax: (617) 267-6447

Email: JEREMY.PICARD@ERM.COM

☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: Raytheon, Wayland

Project Location: Wayland, MA

Project #: 0061882

Project Manager: Jeremy Picard

ALPHA Quote #: ~~jeremy.picard@erm.com~~

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved!)

Date Due: 10/12/07 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: MCP

Criteria: GW-1

MA MCP PRESUMPTIVE CERTAINTY --- CT REASONABLE CONFIDENCE PROTOCOLS

☒ Yes ☐ No Are MCP Analytical Methods Required?

☐ Yes ☒ No Are CT RCP (Reasonable Confidence Protocols) Required?

Other Project Specific Requirements/Comments/Detection Limits:

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	ANALYSIS: 8021cb 8260 (HCl)	ANALYSIS: DISSOLVED Na 8021C (Na2S2O3)	SAMPLE HANDLING (Filtration / Preservation)	Sample Specific Comments	TOTAL # BOTTLES
14843-01	MW-47D-20071004-01	10/4/07	9:00	GW	MS	2: 1.				3
-02	MW-47M-20071004-01	10/4/07	10:40	GW	MS	2: 1.				3
-03	MW-43S-20071004-01	10/4/07	14:25	GW	MS	2: 1.				3
-04	MW-106-20071004-01	10/4/07	15:20	GW	HEA		2:			2
-05	MW-104-20071004-01	10/4/07	15:50	GW	HEA		2:			2
-06	MW-209-20071004-01	10/4/07	08:30	GW	HEA	2: 1.				3
-07	MW-106M-20071004-01	10/4/07	11:00	GW	HEA	2: 1.				3
-08	MW-212-20071004-01	10/4/07	09:20	GW	HEA	2: 1.				3

SAMPLE HANDLING

Filtration: ☐ Done ☐ Not needed ☐ Lab to do

Preservation: ☐ Lab to do (Please specify below)

Container Type	V	P	V
Preservative	B	C	H

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT MA MCP *or* CT RCP?

Relinquished By:	Date/Time	Received By:	Date/Time
E-Mail	10/5/07	Don Banks	10.5.07 1240
Don Banks	10.5.07 14:10	from MWm	10/5/07 14:10

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 Payment Terms. See reverse side.

FORM NO: 01-01 (rev. 30-JUL-07)

10150710:56