

**Environmental
Resources
Management**

399 Boylston Street
6th Floor
Boston, MA 02116
(617) 646-7800
(617) 267-6447 (fax)

18 October 2010
Reference: 0114119

Mr. Anthony DeLuca
The Koffler Group
10 Memorial Boulevard
Suite 901
Providence, RI 02903



RE: Transmittal of Groundwater Analytical Data
Former Raytheon Facility
430 Boston Post Road, Wayland, Massachusetts

Dear Mr. DeLuca:

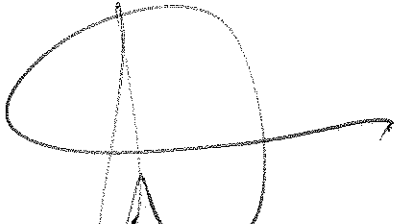
On behalf of Raytheon Company (Raytheon), Environmental Resources Management (ERM) is submitting the results of groundwater sample analyses related to the Former Raytheon Facility located at 430 Boston Post Road in Wayland, Massachusetts (Site). These results are submitted pursuant to 310 CMR 40.1403(10) of the Massachusetts Contingency Plan (MCP).

ERM collected groundwater samples from 38 wells on portions of the Site within the boundaries of your property on 4, 5, 6, and 7 October 2010. Samples were submitted to Alpha Analytical, Inc. of Westborough, Massachusetts for analysis of chlorinated volatile organic compounds by US EPA Method 8260B, sulfate by US EPA Method 9038, total organic carbon by US EPA Method 9060, and/or dissolved sodium and potassium by US EPA Method 6010B. Additionally, ERM used a colorimetric method to analyze groundwater samples from another 26 monitoring wells. Analytical results are attached to this letter. These analytical data will be provided to the Massachusetts Department of Environmental Protection in the next required MCP submittal.

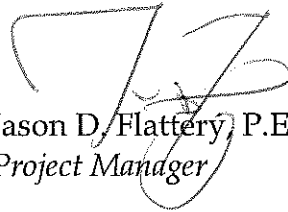
Raytheon has implemented the Public Involvement Process in accordance with 310 CMR 40.1405. Documents pertaining to the Site can be found at the Board of Health, the Wayland Public Library Public Involvement Plan files, or at www.ermne.com (username = raytheon, password = wayland).

If you have any questions or comments, please contact the undersigned at (617) 646-7800 or Jonathan Hone, Raytheon Company, at (978) 436-8298.

Sincerely,

A handwritten signature in black ink, appearing to be 'JD', with a large loop at the top and a horizontal stroke extending to the right.

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

A handwritten signature in black ink, appearing to be 'JDF', with a large loop at the top and a horizontal stroke extending to the right.

Jason D. Flattery, P.E.
Project Manager

enclosures: BWSC-123 - Notice of Environmental Sampling
Laboratory analytical reports

cc: Jonathan Hone, Raytheon Company
Louis Burkhardt, Raytheon Company
Ben Gould, CMG Environmental
PIP Repositories



NOTICE OF ENVIRONMENTAL SAMPLING

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

BWSC 123

This Notice is Related to Release Tracking Number

3 13302

A. The address of the disposal site related to this Notice and Release Tracking Number (provided above):

1. Street Address: 430 Boston Post Road
City/Town: Wayland Zip Code: 01778

B. This notice is being provided to the following party:

1. Name: The Koffler Group
2. Street Address: 10 Memorial Boulevard, Suite 901
City/Town: Providence, RI Zip Code: 02903

C. This notice is being given to inform its recipient (the party listed in Section B):

- 1. That environmental sampling will be/has been conducted at property owned by the recipient of this notice.
- 2. Of the results of environmental sampling conducted at property owned by the recipient of this notice.
- 3. Check to indicate if the analytical results are attached. (If item 2. above is checked, the analytical results from the environmental sampling must be attached to this notice.)

D. Location of the property where the environmental sampling will be/has been conducted:

1. Street Address: 430 Boston Post Road
City/Town: Wayland Zip Code: 01778

2. MCP phase of work during which the sampling will be/has been conducted:

- | | |
|---|---|
| <input type="checkbox"/> Immediate Response Action | <input type="checkbox"/> Phase III Feasibility Evaluation |
| <input type="checkbox"/> Release Abatement Measure | <input type="checkbox"/> Phase IV Remedy Implementation Plan |
| <input type="checkbox"/> Utility-related Abatement Measure | <input checked="" type="checkbox"/> Phase V/Remedy Operation Status |
| <input type="checkbox"/> Phase I Initial Site Investigation | <input type="checkbox"/> Post-Class C Operation, Maintenance and Monitoring |
| <input type="checkbox"/> Phase II Comprehensive Site Assessment | <input type="checkbox"/> Other _____ |
- (specify)

3. Description of property where sampling will be/has been conducted:

- residential commercial industrial school/playground Other _____
- (specify)

4. Description of the sampling locations and types (e.g., soil, groundwater) to the extent known at the time of this notice.

Collection of groundwater samples from existing monitoring wells.

E. Contact information related to the party providing this notice:

Contact Name: Louis J. Burkhardt
Street Address: 880 Technology Park Drive, T-3033
City/Town: Billerica Zip Code: 01821
Telephone: (978) 436-8238 Email: louis_j_burkhardt@raytheon.com

NOTICE OF ENVIRONMENTAL SAMPLING

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

MASSACHUSETTS REGULATIONS THAT REQUIRE THIS NOTICE

This notice is being provided pursuant to the Massachusetts Contingency Plan and the notification requirement at 310 CMR 40.1403(10). The Massachusetts Contingency Plan is a state regulation that specifies requirements for parties who are taking actions to address releases of chemicals (oil or hazardous material) to the environment.

THE PERSON(S) PROVIDING THIS NOTICE

This notice has been sent to you by the party who is addressing a release of oil or hazardous material to the environment at the location listed in **Section A** on the reverse side of this form. (The regulations refer to the area where the oil or hazardous material is present as the “disposal site”.)

PURPOSE OF THIS NOTICE

When environmental samples are taken as part of an investigation under the Massachusetts Contingency Plan at a property on behalf of someone other than the owner of the property, the regulations require that the property owner (listed in **Section B** on the reverse side of this form) be given notice of the environmental sampling. The regulations also require that the property owner subsequently receive the analytical results following the analysis of the environmental samples.

Section C on the reverse side of this form indicates the circumstance under which you are receiving this notice at this time. If you are receiving this notice to inform you of the analytical results following the analysis of the environmental samples, you should also have received, as an attachment, a copy of analytical results. These results should indicate the number and type(s) of samples (e.g., soil, groundwater) analyzed, any chemicals identified, and the measured concentrations of those chemicals.

Section D on the reverse side of this form identifies the property where the environmental sampling will be/has been conducted, provides a description of the sampling locations within the property, and indicates the phase of work under the Massachusetts Contingency Plan regulatory process during which the samples will be/were collected.

FOR MORE INFORMATION

Information about the general process for addressing releases of oil or hazardous material under the Massachusetts Contingency Plan and related public involvement opportunities may be found at <http://www.mass.gov/dep/cleanup/oview.htm>. For more information regarding this notice, you may contact the party listed in **Section E** on the reverse side of this form. Information about the disposal site identified in Section A is also available in files at the Massachusetts Department of Environmental Protection. See <http://mass.gov/dep/about/region/schedule.htm> if you would like to make an appointment to see these files. Please reference the **Release Tracking Number** listed in the upper right hand corner on the reverse side of this form when making file review appointments.



ANALYTICAL REPORT

Lab Number:	L1015465
Client:	ERM Consulting & Engineering, Inc. 399 Boylston Street 6th Floor Boston, MA 02116
ATTN:	Jason Flattery
Phone:	(617) 646-7816
Project Name:	RAYTHEON-WAYLAND
Project Number:	0114119
Report Date:	10/11/10

Certifications & Approvals: MA (M-MA086), NY NELAC (11148), CT (PH-0574), NH (2003), NJ (MA935), RI (LAO00065), ME (MA0086), 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: 0114119

Lab Number: L1015465
Report Date: 10/11/10

Alpha Sample ID	Client ID	Sample Location	Collection Date/Time
L1015465-01	MW-265M-20101004-01	WAYLAND, MA	10/04/10 09:00
L1015465-02	IW-2-20101004-01	WAYLAND, MA	10/04/10 15:25
L1015465-03	IW-15-20101004-01	WAYLAND, MA	10/04/10 10:30
L1015465-04	IW-17-20101004-01	WAYLAND, MA	10/04/10 11:55
L1015465-05	IW-18-20101004-01	WAYLAND, MA	10/04/10 13:40
L1015465-06	MW-266MA-20101004-01	WAYLAND, MA	10/04/10 14:00
L1015465-07	MW-266MB-20101004-01	WAYLAND, MA	10/04/10 12:10
L1015465-08	DUP-001-20101004-01	WAYLAND, MA	10/04/10 11:11
L1015465-09	DUP-002-20101004-01	WAYLAND, MA	10/04/10 11:14
L1015465-10	TB-001-20101004-01	WAYLAND, MA	10/04/10 12:34
L1015465-11	IW-5-20101004-01	WAYLAND, MA	10/04/10 10:20
L1015465-12	IW-8-20101004-01	WAYLAND, MA	10/04/10 09:10
L1015465-13	MW-551-20101004-01	WAYLAND, MA	10/04/10 13:00
L1015465-14	MW-552-20101004-01	WAYLAND, MA	10/04/10 10:40
L1015465-15	MW-553-20101004-01	WAYLAND, MA	10/04/10 09:10
L1015465-16	MW-261S-20101004-01	WAYLAND, MA	10/04/10 11:40
L1015465-17	MW-561-20101004-01	WAYLAND, MA	10/04/10 15:00
L1015465-18	MW-109-20101004-01	WAYLAND, MA	10/04/10 15:00

Project Name: RAYTHEON-WAYLAND
Project Number: 0114119

Lab Number: L1015465
Report Date: 10/11/10

MADEP MCP Response Action Analytical Report Certification

This form provides certifications for all samples performed by MCP methods. Please refer to the Sample Results and Container Information sections of this report for specification of MCP methods used for each analysis. The following questions pertain only to MCP Analytical Methods.

An affirmative response to questions A through F is required for "Presumptive Certainty" status		
A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	YES
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	YES
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	YES
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data?"	YES
E a.	VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	N/A
E b.	APH and TO-15 Methods only: Was the complete analyte list reported for each method?	N/A
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	YES
A response to questions G, H and I is required for "Presumptive Certainty" status		
G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	NO
H	Were all QC performance standards specified in the CAM protocol(s) achieved?	NO
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	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
Project Number: 0114119

Lab Number: L1015465
Report Date: 10/11/10

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

For additional information, please contact Client Services at 800-624-9220.

MCP Related Narratives

Sample Receipt

The samples were Field Filtered for Dissolved Metals only.

Volatile Organics

L1015465-01 through -04, -07, -08, -09, -11, -13, -14, -16, and -17 have elevated detection limits due to the dilutions required by the elevated concentrations of target compounds in the samples.

L1015465-08 was re-analyzed on dilution in order to quantitate the sample within the calibration range. The result should be considered estimated, and is qualified with an E flag, for any compound that exceeded the calibration on the initial analysis. The re-analysis was performed only for the compound that exceeded the calibration range.

In reference to question G:

Project Name: RAYTHEON-WAYLAND
Project Number: 0114119

Lab Number: L1015465
Report Date: 10/11/10

Case Narrative (continued)

L1015465-01 through -04, -07, -08, -09, -11, -13, -14, -16, and -17: One or more of the target analytes did not achieve the requested CAM reporting limits.

In reference to question H:

The WG436179-1/-2 LCS/LCSD RPD, associated with L1015465-06 and -07, are above the acceptance criteria for Bromoform (21%); however, the individual LCS/LCSD recoveries are within method limits.

The WG436461-6/-7 LCS/LCSD RPD, associated with L1015465-08, -09 and -15, is above the acceptance criteria for trans-1,2-Dichloroethene (21%); however, the individual LCS/LCSD recoveries are within method limits.

The WG436461-4/-5 MS/MSD recoveries, performed on L1015465-13, are outside the acceptance criteria for Trichloroethene (17%/10%). The unacceptable percent recoveries are attributed to the elevated concentrations of target compounds present in the sample utilized for the MS/MSD.

The initial calibration, associated with L1015465-01, -03, -04, -05 and -10, utilized a quadratic fit for Chloromethane and Chloroethane.

The initial calibration, associated with L1015465-02, -06 through -09, and -11 through -18, utilized a quadratic fit for Chloromethane, Chloroethane, and 1,1-Dichloroethane.

The continuing calibration standards, associated with L1015465-01 through -18, are outside the acceptance criteria for several compounds; however, they are within overall method allowances. Copies of the continuing calibration standards are included as an addendum to this report.

In reference to question I:

All samples were analyzed for a subset of MCP compounds per the Chain of Custody.

Metals

In reference to question I:

All samples were analyzed for a subset of MCP elements per the Chain of Custody.

Non-MCP Related Narratives

Total Organic Carbon

L1015465-01 through -03, -05, -12, -13, and -15 through -17 have elevated detection limits due to the

Project Name: RAYTHEON-WAYLAND
Project Number: 0114119

Lab Number: L1015465
Report Date: 10/11/10

Case Narrative (continued)

dilutions required by the sample matrix.

L1015465-04 and -11 have elevated detection limits due to the dilutions required by the elevated concentrations present in the samples.

Sulfate

L1015465-02, -03, and -12 have elevated detection limits due to the dilutions required to quantitate the results within the calibration range.

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:  Elizabeth Simmons

Title: Technical Director/Representative

Date: 10/11/10

ORGANICS

VOLATILES

Project Name: RAYTHEON-WAYLAND

Lab Number: L1015465

Project Number: 0114119

Report Date: 10/11/10

SAMPLE RESULTS

Lab ID: L1015465-01 D
 Client ID: MW-265M-20101004-01
 Sample Location: WAYLAND, MA
 Matrix: Water
 Analytical Method: 97,8260B
 Analytical Date: 10/06/10 16:36
 Analyst: MM

Date Collected: 10/04/10 09:00
 Date Received: 10/04/10
 Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND		ug/l	8.0	--	4
1,1-Dichloroethane	ND		ug/l	4.0	--	4
Chloroform	ND		ug/l	4.0	--	4
Carbon tetrachloride	ND		ug/l	4.0	--	4
1,2-Dichloropropane	ND		ug/l	4.0	--	4
Dibromochloromethane	ND		ug/l	4.0	--	4
1,1,2-Trichloroethane	ND		ug/l	4.0	--	4
Tetrachloroethene	26		ug/l	4.0	--	4
Chlorobenzene	ND		ug/l	4.0	--	4
1,2-Dichloroethane	ND		ug/l	4.0	--	4
1,1,1-Trichloroethane	ND		ug/l	4.0	--	4
Bromodichloromethane	ND		ug/l	4.0	--	4
trans-1,3-Dichloropropene	ND		ug/l	2.0	--	4
cis-1,3-Dichloropropene	ND		ug/l	2.0	--	4
Bromoform	ND		ug/l	8.0	--	4
1,1,2,2-Tetrachloroethane	ND		ug/l	4.0	--	4
Chloromethane	ND		ug/l	8.0	--	4
Vinyl chloride	65		ug/l	4.0	--	4
Chloroethane	ND		ug/l	8.0	--	4
1,1-Dichloroethene	ND		ug/l	4.0	--	4
trans-1,2-Dichloroethene	ND		ug/l	4.0	--	4
Trichloroethene	230		ug/l	4.0	--	4
1,2-Dichlorobenzene	ND		ug/l	4.0	--	4
1,3-Dichlorobenzene	ND		ug/l	4.0	--	4
1,4-Dichlorobenzene	ND		ug/l	4.0	--	4
cis-1,2-Dichloroethene	320		ug/l	4.0	--	4
Dichlorodifluoromethane	ND		ug/l	8.0	--	4
1,2-Dibromoethane	ND		ug/l	8.0	--	4
1,3-Dichloropropane	ND		ug/l	8.0	--	4
1,1,1,2-Tetrachloroethane	ND		ug/l	4.0	--	4

Project Name: RAYTHEON-WAYLAND**Lab Number:** L1015465**Project Number:** 0114119**Report Date:** 10/11/10**SAMPLE RESULTS**

Lab ID: L1015465-01 D
 Client ID: MW-265M-20101004-01
 Sample Location: WAYLAND, MA

Date Collected: 10/04/10 09:00
 Date Received: 10/04/10
 Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
o-Chlorotoluene	ND		ug/l	8.0	--	4
p-Chlorotoluene	ND		ug/l	8.0	--	4
Hexachlorobutadiene	ND		ug/l	2.4	--	4
1,2,4-Trichlorobenzene	ND		ug/l	8.0	--	4

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	109		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	109		70-130
Dibromofluoromethane	114		70-130

Project Name: RAYTHEON-WAYLAND

Lab Number: L1015465

Project Number: 0114119

Report Date: 10/11/10

SAMPLE RESULTS

Lab ID: L1015465-02 D
 Client ID: IW-2-20101004-01
 Sample Location: WAYLAND, MA
 Matrix: Water
 Analytical Method: 97,8260B
 Analytical Date: 10/07/10 11:57
 Analyst: MM

Date Collected: 10/04/10 15:25
 Date Received: 10/04/10
 Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND		ug/l	10	--	5
1,1-Dichloroethane	ND		ug/l	5.0	--	5
Chloroform	ND		ug/l	5.0	--	5
Carbon tetrachloride	ND		ug/l	5.0	--	5
1,2-Dichloropropane	ND		ug/l	5.0	--	5
Dibromochloromethane	ND		ug/l	5.0	--	5
1,1,2-Trichloroethane	ND		ug/l	5.0	--	5
Tetrachloroethene	ND		ug/l	5.0	--	5
Chlorobenzene	ND		ug/l	5.0	--	5
1,2-Dichloroethane	ND		ug/l	5.0	--	5
1,1,1-Trichloroethane	ND		ug/l	5.0	--	5
Bromodichloromethane	ND		ug/l	5.0	--	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	5.0	--	5
Chloromethane	ND		ug/l	10	--	5
Vinyl chloride	74		ug/l	5.0	--	5
Chloroethane	ND		ug/l	10	--	5
1,1-Dichloroethene	ND		ug/l	5.0	--	5
trans-1,2-Dichloroethene	ND		ug/l	5.0	--	5
Trichloroethene	ND		ug/l	5.0	--	5
1,2-Dichlorobenzene	ND		ug/l	5.0	--	5
1,3-Dichlorobenzene	ND		ug/l	5.0	--	5
1,4-Dichlorobenzene	ND		ug/l	5.0	--	5
cis-1,2-Dichloroethene	300		ug/l	5.0	--	5
Dichlorodifluoromethane	ND		ug/l	10	--	5
1,2-Dibromoethane	ND		ug/l	10	--	5
1,3-Dichloropropane	ND		ug/l	10	--	5
1,1,1,2-Tetrachloroethane	ND		ug/l	5.0	--	5

Project Name: RAYTHEON-WAYLAND**Lab Number:** L1015465**Project Number:** 0114119**Report Date:** 10/11/10**SAMPLE RESULTS**

Lab ID: L1015465-02 D

Date Collected: 10/04/10 15:25

Client ID: IW-2-20101004-01

Date Received: 10/04/10

Sample Location: WAYLAND, MA

Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
o-Chlorotoluene	ND		ug/l	10	--	5
p-Chlorotoluene	ND		ug/l	10	--	5
Hexachlorobutadiene	ND		ug/l	3.0	--	5
1,2,4-Trichlorobenzene	ND		ug/l	10	--	5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	112		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	114		70-130

Project Name: RAYTHEON-WAYLAND

Lab Number: L1015465

Project Number: 0114119

Report Date: 10/11/10

SAMPLE RESULTS

Lab ID: L1015465-03 D
 Client ID: IW-15-20101004-01
 Sample Location: WAYLAND, MA
 Matrix: Water
 Analytical Method: 97,8260B
 Analytical Date: 10/06/10 17:41
 Analyst: MM

Date Collected: 10/04/10 10:30
 Date Received: 10/04/10
 Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND		ug/l	100	--	50
1,1-Dichloroethane	ND		ug/l	50	--	50
Chloroform	ND		ug/l	50	--	50
Carbon tetrachloride	ND		ug/l	50	--	50
1,2-Dichloropropane	ND		ug/l	50	--	50
Dibromochloromethane	ND		ug/l	50	--	50
1,1,2-Trichloroethane	ND		ug/l	50	--	50
Tetrachloroethene	53		ug/l	50	--	50
Chlorobenzene	ND		ug/l	50	--	50
1,2-Dichloroethane	ND		ug/l	50	--	50
1,1,1-Trichloroethane	ND		ug/l	50	--	50
Bromodichloromethane	ND		ug/l	50	--	50
trans-1,3-Dichloropropene	ND		ug/l	25	--	50
cis-1,3-Dichloropropene	ND		ug/l	25	--	50
Bromoform	ND		ug/l	100	--	50
1,1,2,2-Tetrachloroethane	ND		ug/l	50	--	50
Chloromethane	ND		ug/l	100	--	50
Vinyl chloride	360		ug/l	50	--	50
Chloroethane	ND		ug/l	100	--	50
1,1-Dichloroethene	ND		ug/l	50	--	50
trans-1,2-Dichloroethene	ND		ug/l	50	--	50
Trichloroethene	2200		ug/l	50	--	50
1,2-Dichlorobenzene	ND		ug/l	50	--	50
1,3-Dichlorobenzene	ND		ug/l	50	--	50
1,4-Dichlorobenzene	ND		ug/l	50	--	50
cis-1,2-Dichloroethene	1000		ug/l	50	--	50
Dichlorodifluoromethane	ND		ug/l	100	--	50
1,2-Dibromoethane	ND		ug/l	100	--	50
1,3-Dichloropropane	ND		ug/l	100	--	50
1,1,1,2-Tetrachloroethane	ND		ug/l	50	--	50

Project Name: RAYTHEON-WAYLAND**Lab Number:** L1015465**Project Number:** 0114119**Report Date:** 10/11/10**SAMPLE RESULTS**

Lab ID: L1015465-03 D

Date Collected: 10/04/10 10:30

Client ID: IW-15-20101004-01

Date Received: 10/04/10

Sample Location: WAYLAND, MA

Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
o-Chlorotoluene	ND		ug/l	100	--	50
p-Chlorotoluene	ND		ug/l	100	--	50
Hexachlorobutadiene	ND		ug/l	30	--	50
1,2,4-Trichlorobenzene	ND		ug/l	100	--	50

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	106		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	120		70-130
Dibromofluoromethane	118		70-130

Project Name: RAYTHEON-WAYLAND

Lab Number: L1015465

Project Number: 0114119

Report Date: 10/11/10

SAMPLE RESULTS

Lab ID: L1015465-04 D
 Client ID: IW-17-20101004-01
 Sample Location: WAYLAND, MA
 Matrix: Water
 Analytical Method: 97,8260B
 Analytical Date: 10/06/10 18:13
 Analyst: MM

Date Collected: 10/04/10 11:55
 Date Received: 10/04/10
 Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND		ug/l	8.0	--	4
1,1-Dichloroethane	ND		ug/l	4.0	--	4
Chloroform	ND		ug/l	4.0	--	4
Carbon tetrachloride	ND		ug/l	4.0	--	4
1,2-Dichloropropane	ND		ug/l	4.0	--	4
Dibromochloromethane	ND		ug/l	4.0	--	4
1,1,2-Trichloroethane	ND		ug/l	4.0	--	4
Tetrachloroethene	ND		ug/l	4.0	--	4
Chlorobenzene	ND		ug/l	4.0	--	4
1,2-Dichloroethane	ND		ug/l	4.0	--	4
1,1,1-Trichloroethane	ND		ug/l	4.0	--	4
Bromodichloromethane	ND		ug/l	4.0	--	4
trans-1,3-Dichloropropene	ND		ug/l	2.0	--	4
cis-1,3-Dichloropropene	ND		ug/l	2.0	--	4
Bromoform	ND		ug/l	8.0	--	4
1,1,2,2-Tetrachloroethane	ND		ug/l	4.0	--	4
Chloromethane	ND		ug/l	8.0	--	4
Vinyl chloride	ND		ug/l	4.0	--	4
Chloroethane	ND		ug/l	8.0	--	4
1,1-Dichloroethene	ND		ug/l	4.0	--	4
trans-1,2-Dichloroethene	ND		ug/l	4.0	--	4
Trichloroethene	26		ug/l	4.0	--	4
1,2-Dichlorobenzene	ND		ug/l	4.0	--	4
1,3-Dichlorobenzene	ND		ug/l	4.0	--	4
1,4-Dichlorobenzene	ND		ug/l	4.0	--	4
cis-1,2-Dichloroethene	140		ug/l	4.0	--	4
Dichlorodifluoromethane	ND		ug/l	8.0	--	4
1,2-Dibromoethane	ND		ug/l	8.0	--	4
1,3-Dichloropropane	ND		ug/l	8.0	--	4
1,1,1,2-Tetrachloroethane	ND		ug/l	4.0	--	4

Project Name: RAYTHEON-WAYLAND**Lab Number:** L1015465**Project Number:** 0114119**Report Date:** 10/11/10**SAMPLE RESULTS**

Lab ID: L1015465-04 D

Date Collected: 10/04/10 11:55

Client ID: IW-17-20101004-01

Date Received: 10/04/10

Sample Location: WAYLAND, MA

Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
o-Chlorotoluene	ND		ug/l	8.0	--	4
p-Chlorotoluene	ND		ug/l	8.0	--	4
Hexachlorobutadiene	ND		ug/l	2.4	--	4
1,2,4-Trichlorobenzene	ND		ug/l	8.0	--	4

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	114		70-130
Dibromofluoromethane	118		70-130

Project Name: RAYTHEON-WAYLAND
Project Number: 0114119

Lab Number: L1015465
Report Date: 10/11/10

SAMPLE RESULTS

Lab ID: L1015465-05
Client ID: IW-18-20101004-01
Sample Location: WAYLAND, MA
Matrix: Water
Analytical Method: 97,8260B
Analytical Date: 10/06/10 18:45
Analyst: MM

Date Collected: 10/04/10 13:40
Date Received: 10/04/10
Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND		ug/l	2.0	--	1
1,1-Dichloroethane	ND		ug/l	1.0	--	1
Chloroform	ND		ug/l	1.0	--	1
Carbon tetrachloride	ND		ug/l	1.0	--	1
1,2-Dichloropropane	ND		ug/l	1.0	--	1
Dibromochloromethane	ND		ug/l	1.0	--	1
1,1,2-Trichloroethane	ND		ug/l	1.0	--	1
Tetrachloroethene	ND		ug/l	1.0	--	1
Chlorobenzene	ND		ug/l	1.0	--	1
1,2-Dichloroethane	ND		ug/l	1.0	--	1
1,1,1-Trichloroethane	ND		ug/l	1.0	--	1
Bromodichloromethane	ND		ug/l	1.0	--	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	1.0	--	1
Chloromethane	ND		ug/l	2.0	--	1
Vinyl chloride	ND		ug/l	1.0	--	1
Chloroethane	ND		ug/l	2.0	--	1
1,1-Dichloroethene	ND		ug/l	1.0	--	1
trans-1,2-Dichloroethene	ND		ug/l	1.0	--	1
Trichloroethene	9.9		ug/l	1.0	--	1
1,2-Dichlorobenzene	ND		ug/l	1.0	--	1
1,3-Dichlorobenzene	ND		ug/l	1.0	--	1
1,4-Dichlorobenzene	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	4.3		ug/l	1.0	--	1
Dichlorodifluoromethane	ND		ug/l	2.0	--	1
1,2-Dibromoethane	ND		ug/l	2.0	--	1
1,3-Dichloropropane	ND		ug/l	2.0	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--	1

Project Name: RAYTHEON-WAYLAND**Lab Number:** L1015465**Project Number:** 0114119**Report Date:** 10/11/10**SAMPLE RESULTS**

Lab ID: L1015465-05
 Client ID: IW-18-20101004-01
 Sample Location: WAYLAND, MA

Date Collected: 10/04/10 13:40
 Date Received: 10/04/10
 Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
o-Chlorotoluene	ND		ug/l	2.0	--	1
p-Chlorotoluene	ND		ug/l	2.0	--	1
Hexachlorobutadiene	ND		ug/l	0.60	--	1
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	112		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	113		70-130
Dibromofluoromethane	118		70-130

Project Name: RAYTHEON-WAYLAND**Lab Number:** L1015465**Project Number:** 0114119**Report Date:** 10/11/10**SAMPLE RESULTS**

Lab ID: L1015465-06
Client ID: MW-266MA-20101004-01
Sample Location: WAYLAND, MA
Matrix: Water
Analytical Method: 97,8260B
Analytical Date: 10/06/10 19:01
Analyst: MM

Date Collected: 10/04/10 14:00
Date Received: 10/04/10
Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND		ug/l	2.0	--	1
1,1-Dichloroethane	ND		ug/l	1.0	--	1
Chloroform	ND		ug/l	1.0	--	1
Carbon tetrachloride	ND		ug/l	1.0	--	1
1,2-Dichloropropane	ND		ug/l	1.0	--	1
Dibromochloromethane	ND		ug/l	1.0	--	1
1,1,2-Trichloroethane	ND		ug/l	1.0	--	1
Tetrachloroethene	1.4		ug/l	1.0	--	1
Chlorobenzene	ND		ug/l	1.0	--	1
1,2-Dichloroethane	ND		ug/l	1.0	--	1
1,1,1-Trichloroethane	ND		ug/l	1.0	--	1
Bromodichloromethane	ND		ug/l	1.0	--	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	1.0	--	1
Chloromethane	ND		ug/l	2.0	--	1
Vinyl chloride	ND		ug/l	1.0	--	1
Chloroethane	ND		ug/l	2.0	--	1
1,1-Dichloroethene	ND		ug/l	1.0	--	1
trans-1,2-Dichloroethene	ND		ug/l	1.0	--	1
Trichloroethene	40		ug/l	1.0	--	1
1,2-Dichlorobenzene	ND		ug/l	1.0	--	1
1,3-Dichlorobenzene	ND		ug/l	1.0	--	1
1,4-Dichlorobenzene	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	14		ug/l	1.0	--	1
Dichlorodifluoromethane	ND		ug/l	2.0	--	1
1,2-Dibromoethane	ND		ug/l	2.0	--	1
1,3-Dichloropropane	ND		ug/l	2.0	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--	1

Project Name: RAYTHEON-WAYLAND**Lab Number:** L1015465**Project Number:** 0114119**Report Date:** 10/11/10**SAMPLE RESULTS**

Lab ID: L1015465-06

Date Collected: 10/04/10 14:00

Client ID: MW-266MA-20101004-01

Date Received: 10/04/10

Sample Location: WAYLAND, MA

Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
o-Chlorotoluene	ND		ug/l	2.0	--	1
p-Chlorotoluene	ND		ug/l	2.0	--	1
Hexachlorobutadiene	ND		ug/l	0.60	--	1
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	114		70-130

Project Name: RAYTHEON-WAYLAND

Lab Number: L1015465

Project Number: 0114119

Report Date: 10/11/10

SAMPLE RESULTS

Lab ID: L1015465-07 D
 Client ID: MW-266MB-20101004-01
 Sample Location: WAYLAND, MA
 Matrix: Water
 Analytical Method: 97,8260B
 Analytical Date: 10/06/10 18:29
 Analyst: MM

Date Collected: 10/04/10 12:10
 Date Received: 10/04/10
 Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND		ug/l	5.0	--	2.5
1,1-Dichloroethane	ND		ug/l	2.5	--	2.5
Chloroform	ND		ug/l	2.5	--	2.5
Carbon tetrachloride	ND		ug/l	2.5	--	2.5
1,2-Dichloropropane	ND		ug/l	2.5	--	2.5
Dibromochloromethane	ND		ug/l	2.5	--	2.5
1,1,2-Trichloroethane	ND		ug/l	2.5	--	2.5
Tetrachloroethene	18		ug/l	2.5	--	2.5
Chlorobenzene	ND		ug/l	2.5	--	2.5
1,2-Dichloroethane	ND		ug/l	2.5	--	2.5
1,1,1-Trichloroethane	ND		ug/l	2.5	--	2.5
Bromodichloromethane	ND		ug/l	2.5	--	2.5
trans-1,3-Dichloropropene	ND		ug/l	1.2	--	2.5
cis-1,3-Dichloropropene	ND		ug/l	1.2	--	2.5
Bromoform	ND		ug/l	5.0	--	2.5
1,1,2,2-Tetrachloroethane	ND		ug/l	2.5	--	2.5
Chloromethane	ND		ug/l	5.0	--	2.5
Vinyl chloride	25		ug/l	2.5	--	2.5
Chloroethane	ND		ug/l	5.0	--	2.5
1,1-Dichloroethene	ND		ug/l	2.5	--	2.5
trans-1,2-Dichloroethene	ND		ug/l	2.5	--	2.5
Trichloroethene	95		ug/l	2.5	--	2.5
1,2-Dichlorobenzene	ND		ug/l	2.5	--	2.5
1,3-Dichlorobenzene	ND		ug/l	2.5	--	2.5
1,4-Dichlorobenzene	ND		ug/l	2.5	--	2.5
cis-1,2-Dichloroethene	230		ug/l	2.5	--	2.5
Dichlorodifluoromethane	ND		ug/l	5.0	--	2.5
1,2-Dibromoethane	ND		ug/l	5.0	--	2.5
1,3-Dichloropropane	ND		ug/l	5.0	--	2.5
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	--	2.5

Project Name: RAYTHEON-WAYLAND**Lab Number:** L1015465**Project Number:** 0114119**Report Date:** 10/11/10**SAMPLE RESULTS**

Lab ID: L1015465-07 D
 Client ID: MW-266MB-20101004-01
 Sample Location: WAYLAND, MA

Date Collected: 10/04/10 12:10
 Date Received: 10/04/10
 Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
o-Chlorotoluene	ND		ug/l	5.0	--	2.5
p-Chlorotoluene	ND		ug/l	5.0	--	2.5
Hexachlorobutadiene	ND		ug/l	1.5	--	2.5
1,2,4-Trichlorobenzene	ND		ug/l	5.0	--	2.5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	109		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	112		70-130

Project Name: RAYTHEON-WAYLAND**Lab Number:** L1015465**Project Number:** 0114119**Report Date:** 10/11/10**SAMPLE RESULTS**

Lab ID: L1015465-08 D2

Date Collected: 10/04/10 11:11

Client ID: DUP-001-20101004-01

Date Received: 10/04/10

Sample Location: WAYLAND, MA

Field Prep: Not Specified

Matrix: Water

Analytical Method: 97,8260B

Analytical Date: 10/08/10 16:13

Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Trichloroethene	1000		ug/l	25	--	25

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	116		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	115		70-130

Project Name: RAYTHEON-WAYLAND

Lab Number: L1015465

Project Number: 0114119

Report Date: 10/11/10

SAMPLE RESULTS

Lab ID: L1015465-08 D
 Client ID: DUP-001-20101004-01
 Sample Location: WAYLAND, MA
 Matrix: Water
 Analytical Method: 97,8260B
 Analytical Date: 10/07/10 12:29
 Analyst: MM

Date Collected: 10/04/10 11:11
 Date Received: 10/04/10
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND		ug/l	5.0	--	2.5
1,1-Dichloroethane	ND		ug/l	2.5	--	2.5
Chloroform	ND		ug/l	2.5	--	2.5
Carbon tetrachloride	ND		ug/l	2.5	--	2.5
1,2-Dichloropropane	ND		ug/l	2.5	--	2.5
Dibromochloromethane	ND		ug/l	2.5	--	2.5
1,1,2-Trichloroethane	ND		ug/l	2.5	--	2.5
Tetrachloroethene	20		ug/l	2.5	--	2.5
Chlorobenzene	ND		ug/l	2.5	--	2.5
1,2-Dichloroethane	ND		ug/l	2.5	--	2.5
1,1,1-Trichloroethane	ND		ug/l	2.5	--	2.5
Bromodichloromethane	ND		ug/l	2.5	--	2.5
trans-1,3-Dichloropropene	ND		ug/l	1.2	--	2.5
cis-1,3-Dichloropropene	ND		ug/l	1.2	--	2.5
Bromoform	ND		ug/l	5.0	--	2.5
1,1,2,2-Tetrachloroethane	ND		ug/l	2.5	--	2.5
Chloromethane	ND		ug/l	5.0	--	2.5
Vinyl chloride	ND		ug/l	2.5	--	2.5
Chloroethane	ND		ug/l	5.0	--	2.5
1,1-Dichloroethene	ND		ug/l	2.5	--	2.5
trans-1,2-Dichloroethene	ND		ug/l	2.5	--	2.5
Trichloroethene	1200	E	ug/l	2.5	--	2.5
1,2-Dichlorobenzene	ND		ug/l	2.5	--	2.5
1,3-Dichlorobenzene	ND		ug/l	2.5	--	2.5
1,4-Dichlorobenzene	ND		ug/l	2.5	--	2.5
cis-1,2-Dichloroethene	26		ug/l	2.5	--	2.5
Dichlorodifluoromethane	ND		ug/l	5.0	--	2.5
1,2-Dibromoethane	ND		ug/l	5.0	--	2.5
1,3-Dichloropropane	ND		ug/l	5.0	--	2.5
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	--	2.5

Project Name: RAYTHEON-WAYLAND**Lab Number:** L1015465**Project Number:** 0114119**Report Date:** 10/11/10**SAMPLE RESULTS**

Lab ID: L1015465-08 D

Date Collected: 10/04/10 11:11

Client ID: DUP-001-20101004-01

Date Received: 10/04/10

Sample Location: WAYLAND, MA

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
o-Chlorotoluene	ND		ug/l	5.0	--	2.5
p-Chlorotoluene	ND		ug/l	5.0	--	2.5
Hexachlorobutadiene	ND		ug/l	1.5	--	2.5
1,2,4-Trichlorobenzene	ND		ug/l	5.0	--	2.5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	108		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	111		70-130

Project Name: RAYTHEON-WAYLAND**Lab Number:** L1015465**Project Number:** 0114119**Report Date:** 10/11/10**SAMPLE RESULTS**

Lab ID: L1015465-09 D
Client ID: DUP-002-20101004-01
Sample Location: WAYLAND, MA
Matrix: Water
Analytical Method: 97,8260B
Analytical Date: 10/08/10 16:45
Analyst: MM

Date Collected: 10/04/10 11:14
Date Received: 10/04/10
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND		ug/l	10	--	5
1,1-Dichloroethane	ND		ug/l	5.0	--	5
Chloroform	ND		ug/l	5.0	--	5
Carbon tetrachloride	ND		ug/l	5.0	--	5
1,2-Dichloropropane	ND		ug/l	5.0	--	5
Dibromochloromethane	ND		ug/l	5.0	--	5
1,1,2-Trichloroethane	ND		ug/l	5.0	--	5
Tetrachloroethene	ND		ug/l	5.0	--	5
Chlorobenzene	ND		ug/l	5.0	--	5
1,2-Dichloroethane	ND		ug/l	5.0	--	5
1,1,1-Trichloroethane	ND		ug/l	5.0	--	5
Bromodichloromethane	ND		ug/l	5.0	--	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	5.0	--	5
Chloromethane	ND		ug/l	10	--	5
Vinyl chloride	54		ug/l	5.0	--	5
Chloroethane	ND		ug/l	10	--	5
1,1-Dichloroethene	ND		ug/l	5.0	--	5
trans-1,2-Dichloroethene	ND		ug/l	5.0	--	5
Trichloroethene	ND		ug/l	5.0	--	5
1,2-Dichlorobenzene	ND		ug/l	5.0	--	5
1,3-Dichlorobenzene	ND		ug/l	5.0	--	5
1,4-Dichlorobenzene	ND		ug/l	5.0	--	5
cis-1,2-Dichloroethene	310		ug/l	5.0	--	5
Dichlorodifluoromethane	ND		ug/l	10	--	5
1,2-Dibromoethane	ND		ug/l	10	--	5
1,3-Dichloropropane	ND		ug/l	10	--	5
1,1,1,2-Tetrachloroethane	ND		ug/l	5.0	--	5

Project Name: RAYTHEON-WAYLAND**Lab Number:** L1015465**Project Number:** 0114119**Report Date:** 10/11/10**SAMPLE RESULTS**

Lab ID: L1015465-09 D

Date Collected: 10/04/10 11:14

Client ID: DUP-002-20101004-01

Date Received: 10/04/10

Sample Location: WAYLAND, MA

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
o-Chlorotoluene	ND		ug/l	10	--	5
p-Chlorotoluene	ND		ug/l	10	--	5
Hexachlorobutadiene	ND		ug/l	3.0	--	5
1,2,4-Trichlorobenzene	ND		ug/l	10	--	5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	118		70-130
Toluene-d8	92		70-130
4-Bromofluorobenzene	94		70-130
Dibromofluoromethane	109		70-130

Project Name: RAYTHEON-WAYLAND
Project Number: 0114119

Lab Number: L1015465
Report Date: 10/11/10

SAMPLE RESULTS

Lab ID: L1015465-10
Client ID: TB-001-20101004-01
Sample Location: WAYLAND, MA
Matrix: Water
Analytical Method: 97,8260B
Analytical Date: 10/07/10 10:36
Analyst: MM

Date Collected: 10/04/10 12:34
Date Received: 10/04/10
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND		ug/l	2.0	--	1
1,1-Dichloroethane	ND		ug/l	1.0	--	1
Chloroform	ND		ug/l	1.0	--	1
Carbon tetrachloride	ND		ug/l	1.0	--	1
1,2-Dichloropropane	ND		ug/l	1.0	--	1
Dibromochloromethane	ND		ug/l	1.0	--	1
1,1,2-Trichloroethane	ND		ug/l	1.0	--	1
Tetrachloroethene	ND		ug/l	1.0	--	1
Chlorobenzene	ND		ug/l	1.0	--	1
1,2-Dichloroethane	ND		ug/l	1.0	--	1
1,1,1-Trichloroethane	ND		ug/l	1.0	--	1
Bromodichloromethane	ND		ug/l	1.0	--	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	1.0	--	1
Chloromethane	ND		ug/l	2.0	--	1
Vinyl chloride	ND		ug/l	1.0	--	1
Chloroethane	ND		ug/l	2.0	--	1
1,1-Dichloroethene	ND		ug/l	1.0	--	1
trans-1,2-Dichloroethene	ND		ug/l	1.0	--	1
Trichloroethene	ND		ug/l	1.0	--	1
1,2-Dichlorobenzene	ND		ug/l	1.0	--	1
1,3-Dichlorobenzene	ND		ug/l	1.0	--	1
1,4-Dichlorobenzene	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	ND		ug/l	1.0	--	1
Dichlorodifluoromethane	ND		ug/l	2.0	--	1
1,2-Dibromoethane	ND		ug/l	2.0	--	1
1,3-Dichloropropane	ND		ug/l	2.0	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--	1

Project Name: RAYTHEON-WAYLAND**Lab Number:** L1015465**Project Number:** 0114119**Report Date:** 10/11/10**SAMPLE RESULTS**

Lab ID: L1015465-10
 Client ID: TB-001-20101004-01
 Sample Location: WAYLAND, MA

Date Collected: 10/04/10 12:34
 Date Received: 10/04/10
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
o-Chlorotoluene	ND		ug/l	2.0	--	1
p-Chlorotoluene	ND		ug/l	2.0	--	1
Hexachlorobutadiene	ND		ug/l	0.60	--	1
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	108		70-130
Toluene-d8	93		70-130
4-Bromofluorobenzene	115		70-130
Dibromofluoromethane	111		70-130

Project Name: RAYTHEON-WAYLAND
Project Number: 0114119

Lab Number: L1015465
Report Date: 10/11/10

SAMPLE RESULTS

Lab ID: L1015465-11 D
Client ID: IW-5-20101004-01
Sample Location: WAYLAND, MA
Matrix: Water
Analytical Method: 97,8260B
Analytical Date: 10/07/10 13:34
Analyst: MM

Date Collected: 10/04/10 10:20
Date Received: 10/04/10
Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND		ug/l	40	--	20
1,1-Dichloroethane	ND		ug/l	20	--	20
Chloroform	ND		ug/l	20	--	20
Carbon tetrachloride	ND		ug/l	20	--	20
1,2-Dichloropropane	ND		ug/l	20	--	20
Dibromochloromethane	ND		ug/l	20	--	20
1,1,2-Trichloroethane	ND		ug/l	20	--	20
Tetrachloroethene	44		ug/l	20	--	20
Chlorobenzene	ND		ug/l	20	--	20
1,2-Dichloroethane	ND		ug/l	20	--	20
1,1,1-Trichloroethane	ND		ug/l	20	--	20
Bromodichloromethane	ND		ug/l	20	--	20
trans-1,3-Dichloropropene	ND		ug/l	10	--	20
cis-1,3-Dichloropropene	ND		ug/l	10	--	20
Bromoform	ND		ug/l	40	--	20
1,1,2,2-Tetrachloroethane	ND		ug/l	20	--	20
Chloromethane	ND		ug/l	40	--	20
Vinyl chloride	120		ug/l	20	--	20
Chloroethane	ND		ug/l	40	--	20
1,1-Dichloroethene	ND		ug/l	20	--	20
trans-1,2-Dichloroethene	ND		ug/l	20	--	20
Trichloroethene	1700		ug/l	20	--	20
1,2-Dichlorobenzene	ND		ug/l	20	--	20
1,3-Dichlorobenzene	ND		ug/l	20	--	20
1,4-Dichlorobenzene	ND		ug/l	20	--	20
cis-1,2-Dichloroethene	670		ug/l	20	--	20
Dichlorodifluoromethane	ND		ug/l	40	--	20
1,2-Dibromoethane	ND		ug/l	40	--	20
1,3-Dichloropropane	ND		ug/l	40	--	20
1,1,1,2-Tetrachloroethane	ND		ug/l	20	--	20

Project Name: RAYTHEON-WAYLAND**Lab Number:** L1015465**Project Number:** 0114119**Report Date:** 10/11/10**SAMPLE RESULTS**

Lab ID: L1015465-11 D

Date Collected: 10/04/10 10:20

Client ID: IW-5-20101004-01

Date Received: 10/04/10

Sample Location: WAYLAND, MA

Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
o-Chlorotoluene	ND		ug/l	40	--	20
p-Chlorotoluene	ND		ug/l	40	--	20
Hexachlorobutadiene	ND		ug/l	12	--	20
1,2,4-Trichlorobenzene	ND		ug/l	40	--	20

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		70-130
Toluene-d8	93		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	107		70-130

Project Name: RAYTHEON-WAYLAND

Lab Number: L1015465

Project Number: 0114119

Report Date: 10/11/10

SAMPLE RESULTS

Lab ID: L1015465-12
 Client ID: IW-8-20101004-01
 Sample Location: WAYLAND, MA
 Matrix: Water
 Analytical Method: 97,8260B
 Analytical Date: 10/07/10 14:06
 Analyst: MM

Date Collected: 10/04/10 09:10
 Date Received: 10/04/10
 Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND		ug/l	2.0	--	1
1,1-Dichloroethane	1.0		ug/l	1.0	--	1
Chloroform	ND		ug/l	1.0	--	1
Carbon tetrachloride	ND		ug/l	1.0	--	1
1,2-Dichloropropane	ND		ug/l	1.0	--	1
Dibromochloromethane	ND		ug/l	1.0	--	1
1,1,2-Trichloroethane	ND		ug/l	1.0	--	1
Tetrachloroethene	ND		ug/l	1.0	--	1
Chlorobenzene	ND		ug/l	1.0	--	1
1,2-Dichloroethane	ND		ug/l	1.0	--	1
1,1,1-Trichloroethane	ND		ug/l	1.0	--	1
Bromodichloromethane	ND		ug/l	1.0	--	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	1.0	--	1
Chloromethane	ND		ug/l	2.0	--	1
Vinyl chloride	7.3		ug/l	1.0	--	1
Chloroethane	ND		ug/l	2.0	--	1
1,1-Dichloroethene	ND		ug/l	1.0	--	1
trans-1,2-Dichloroethene	ND		ug/l	1.0	--	1
Trichloroethene	67		ug/l	1.0	--	1
1,2-Dichlorobenzene	ND		ug/l	1.0	--	1
1,3-Dichlorobenzene	ND		ug/l	1.0	--	1
1,4-Dichlorobenzene	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	8.8		ug/l	1.0	--	1
Dichlorodifluoromethane	ND		ug/l	2.0	--	1
1,2-Dibromoethane	ND		ug/l	2.0	--	1
1,3-Dichloropropane	ND		ug/l	2.0	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--	1

Project Name: RAYTHEON-WAYLAND**Lab Number:** L1015465**Project Number:** 0114119**Report Date:** 10/11/10**SAMPLE RESULTS**

Lab ID: L1015465-12
 Client ID: IW-8-20101004-01
 Sample Location: WAYLAND, MA

Date Collected: 10/04/10 09:10
 Date Received: 10/04/10
 Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
o-Chlorotoluene	ND		ug/l	2.0	--	1
p-Chlorotoluene	ND		ug/l	2.0	--	1
Hexachlorobutadiene	ND		ug/l	0.60	--	1
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	111		70-130
Toluene-d8	93		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	112		70-130

Project Name: RAYTHEON-WAYLAND**Lab Number:** L1015465**Project Number:** 0114119**Report Date:** 10/11/10**SAMPLE RESULTS**

Lab ID: L1015465-13 D
Client ID: MW-551-20101004-01
Sample Location: WAYLAND, MA
Matrix: Water
Analytical Method: 97,8260B
Analytical Date: 10/07/10 11:24
Analyst: MM

Date Collected: 10/04/10 13:00
Date Received: 10/04/10
Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND		ug/l	5.0	--	2.5
1,1-Dichloroethane	ND		ug/l	2.5	--	2.5
Chloroform	ND		ug/l	2.5	--	2.5
Carbon tetrachloride	ND		ug/l	2.5	--	2.5
1,2-Dichloropropane	ND		ug/l	2.5	--	2.5
Dibromochloromethane	ND		ug/l	2.5	--	2.5
1,1,2-Trichloroethane	ND		ug/l	2.5	--	2.5
Tetrachloroethene	2.5		ug/l	2.5	--	2.5
Chlorobenzene	ND		ug/l	2.5	--	2.5
1,2-Dichloroethane	ND		ug/l	2.5	--	2.5
1,1,1-Trichloroethane	ND		ug/l	2.5	--	2.5
Bromodichloromethane	ND		ug/l	2.5	--	2.5
trans-1,3-Dichloropropene	ND		ug/l	1.2	--	2.5
cis-1,3-Dichloropropene	ND		ug/l	1.2	--	2.5
Bromoform	ND		ug/l	5.0	--	2.5
1,1,2,2-Tetrachloroethane	ND		ug/l	2.5	--	2.5
Chloromethane	ND		ug/l	5.0	--	2.5
Vinyl chloride	ND		ug/l	2.5	--	2.5
Chloroethane	ND		ug/l	5.0	--	2.5
1,1-Dichloroethene	ND		ug/l	2.5	--	2.5
trans-1,2-Dichloroethene	ND		ug/l	2.5	--	2.5
Trichloroethene	120		ug/l	2.5	--	2.5
1,2-Dichlorobenzene	ND		ug/l	2.5	--	2.5
1,3-Dichlorobenzene	ND		ug/l	2.5	--	2.5
1,4-Dichlorobenzene	ND		ug/l	2.5	--	2.5
cis-1,2-Dichloroethene	ND		ug/l	2.5	--	2.5
Dichlorodifluoromethane	ND		ug/l	5.0	--	2.5
1,2-Dibromoethane	ND		ug/l	5.0	--	2.5
1,3-Dichloropropane	ND		ug/l	5.0	--	2.5
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	--	2.5

Project Name: RAYTHEON-WAYLAND**Lab Number:** L1015465**Project Number:** 0114119**Report Date:** 10/11/10**SAMPLE RESULTS**

Lab ID: L1015465-13 D

Date Collected: 10/04/10 13:00

Client ID: MW-551-20101004-01

Date Received: 10/04/10

Sample Location: WAYLAND, MA

Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
o-Chlorotoluene	ND		ug/l	5.0	--	2.5
p-Chlorotoluene	ND		ug/l	5.0	--	2.5
Hexachlorobutadiene	ND		ug/l	1.5	--	2.5
1,2,4-Trichlorobenzene	ND		ug/l	5.0	--	2.5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	109		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	111		70-130

Project Name: RAYTHEON-WAYLAND**Lab Number:** L1015465**Project Number:** 0114119**Report Date:** 10/11/10**SAMPLE RESULTS**

Lab ID: L1015465-14 D
Client ID: MW-552-20101004-01
Sample Location: WAYLAND, MA
Matrix: Water
Analytical Method: 97,8260B
Analytical Date: 10/07/10 14:39
Analyst: MM

Date Collected: 10/04/10 10:40
Date Received: 10/04/10
Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND		ug/l	50	--	25
1,1-Dichloroethane	ND		ug/l	25	--	25
Chloroform	ND		ug/l	25	--	25
Carbon tetrachloride	ND		ug/l	25	--	25
1,2-Dichloropropane	ND		ug/l	25	--	25
Dibromochloromethane	ND		ug/l	25	--	25
1,1,2-Trichloroethane	ND		ug/l	25	--	25
Tetrachloroethene	210		ug/l	25	--	25
Chlorobenzene	ND		ug/l	25	--	25
1,2-Dichloroethane	ND		ug/l	25	--	25
1,1,1-Trichloroethane	ND		ug/l	25	--	25
Bromodichloromethane	ND		ug/l	25	--	25
trans-1,3-Dichloropropene	ND		ug/l	12	--	25
cis-1,3-Dichloropropene	ND		ug/l	12	--	25
Bromoform	ND		ug/l	50	--	25
1,1,2,2-Tetrachloroethane	ND		ug/l	25	--	25
Chloromethane	ND		ug/l	50	--	25
Vinyl chloride	ND		ug/l	25	--	25
Chloroethane	ND		ug/l	50	--	25
1,1-Dichloroethene	ND		ug/l	25	--	25
trans-1,2-Dichloroethene	ND		ug/l	25	--	25
Trichloroethene	2600		ug/l	25	--	25
1,2-Dichlorobenzene	ND		ug/l	25	--	25
1,3-Dichlorobenzene	ND		ug/l	25	--	25
1,4-Dichlorobenzene	ND		ug/l	25	--	25
cis-1,2-Dichloroethene	210		ug/l	25	--	25
Dichlorodifluoromethane	ND		ug/l	50	--	25
1,2-Dibromoethane	ND		ug/l	50	--	25
1,3-Dichloropropane	ND		ug/l	50	--	25
1,1,1,2-Tetrachloroethane	ND		ug/l	25	--	25

Project Name: RAYTHEON-WAYLAND**Lab Number:** L1015465**Project Number:** 0114119**Report Date:** 10/11/10**SAMPLE RESULTS**

Lab ID: L1015465-14 D

Date Collected: 10/04/10 10:40

Client ID: MW-552-20101004-01

Date Received: 10/04/10

Sample Location: WAYLAND, MA

Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
o-Chlorotoluene	ND		ug/l	50	--	25
p-Chlorotoluene	ND		ug/l	50	--	25
Hexachlorobutadiene	ND		ug/l	15	--	25
1,2,4-Trichlorobenzene	ND		ug/l	50	--	25

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	109		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	108		70-130

Project Name: RAYTHEON-WAYLAND
Project Number: 0114119

Lab Number: L1015465
Report Date: 10/11/10

SAMPLE RESULTS

Lab ID: L1015465-15
Client ID: MW-553-20101004-01
Sample Location: WAYLAND, MA
Matrix: Water
Analytical Method: 97,8260B
Analytical Date: 10/08/10 17:18
Analyst: MM

Date Collected: 10/04/10 09:10
Date Received: 10/04/10
Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND		ug/l	2.0	--	1
1,1-Dichloroethane	ND		ug/l	1.0	--	1
Chloroform	ND		ug/l	1.0	--	1
Carbon tetrachloride	ND		ug/l	1.0	--	1
1,2-Dichloropropane	ND		ug/l	1.0	--	1
Dibromochloromethane	ND		ug/l	1.0	--	1
1,1,2-Trichloroethane	ND		ug/l	1.0	--	1
Tetrachloroethene	10		ug/l	1.0	--	1
Chlorobenzene	ND		ug/l	1.0	--	1
1,2-Dichloroethane	ND		ug/l	1.0	--	1
1,1,1-Trichloroethane	ND		ug/l	1.0	--	1
Bromodichloromethane	ND		ug/l	1.0	--	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	1.0	--	1
Chloromethane	ND		ug/l	2.0	--	1
Vinyl chloride	ND		ug/l	1.0	--	1
Chloroethane	ND		ug/l	2.0	--	1
1,1-Dichloroethene	ND		ug/l	1.0	--	1
trans-1,2-Dichloroethene	ND		ug/l	1.0	--	1
Trichloroethene	65		ug/l	1.0	--	1
1,2-Dichlorobenzene	ND		ug/l	1.0	--	1
1,3-Dichlorobenzene	ND		ug/l	1.0	--	1
1,4-Dichlorobenzene	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	12		ug/l	1.0	--	1
Dichlorodifluoromethane	ND		ug/l	2.0	--	1
1,2-Dibromoethane	ND		ug/l	2.0	--	1
1,3-Dichloropropane	ND		ug/l	2.0	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--	1

Project Name: RAYTHEON-WAYLAND**Lab Number:** L1015465**Project Number:** 0114119**Report Date:** 10/11/10**SAMPLE RESULTS**

Lab ID: L1015465-15
 Client ID: MW-553-20101004-01
 Sample Location: WAYLAND, MA

Date Collected: 10/04/10 09:10
 Date Received: 10/04/10
 Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
o-Chlorotoluene	ND		ug/l	2.0	--	1
p-Chlorotoluene	ND		ug/l	2.0	--	1
Hexachlorobutadiene	ND		ug/l	0.60	--	1
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	118		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	119		70-130

Project Name: RAYTHEON-WAYLAND**Lab Number:** L1015465**Project Number:** 0114119**Report Date:** 10/11/10**SAMPLE RESULTS**

Lab ID: L1015465-16 D
Client ID: MW-261S-20101004-01
Sample Location: WAYLAND, MA
Matrix: Water
Analytical Method: 97,8260B
Analytical Date: 10/07/10 15:43
Analyst: MM

Date Collected: 10/04/10 11:40
Date Received: 10/04/10
Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND		ug/l	20	--	10
1,1-Dichloroethane	ND		ug/l	10	--	10
Chloroform	ND		ug/l	10	--	10
Carbon tetrachloride	ND		ug/l	10	--	10
1,2-Dichloropropane	ND		ug/l	10	--	10
Dibromochloromethane	ND		ug/l	10	--	10
1,1,2-Trichloroethane	ND		ug/l	10	--	10
Tetrachloroethene	22		ug/l	10	--	10
Chlorobenzene	ND		ug/l	10	--	10
1,2-Dichloroethane	ND		ug/l	10	--	10
1,1,1-Trichloroethane	ND		ug/l	10	--	10
Bromodichloromethane	ND		ug/l	10	--	10
trans-1,3-Dichloropropene	ND		ug/l	5.0	--	10
cis-1,3-Dichloropropene	ND		ug/l	5.0	--	10
Bromoform	ND		ug/l	20	--	10
1,1,2,2-Tetrachloroethane	ND		ug/l	10	--	10
Chloromethane	ND		ug/l	20	--	10
Vinyl chloride	ND		ug/l	10	--	10
Chloroethane	ND		ug/l	20	--	10
1,1-Dichloroethene	ND		ug/l	10	--	10
trans-1,2-Dichloroethene	ND		ug/l	10	--	10
Trichloroethene	1200		ug/l	10	--	10
1,2-Dichlorobenzene	ND		ug/l	10	--	10
1,3-Dichlorobenzene	ND		ug/l	10	--	10
1,4-Dichlorobenzene	ND		ug/l	10	--	10
cis-1,2-Dichloroethene	28		ug/l	10	--	10
Dichlorodifluoromethane	ND		ug/l	20	--	10
1,2-Dibromoethane	ND		ug/l	20	--	10
1,3-Dichloropropane	ND		ug/l	20	--	10
1,1,1,2-Tetrachloroethane	ND		ug/l	10	--	10

Project Name: RAYTHEON-WAYLAND**Lab Number:** L1015465**Project Number:** 0114119**Report Date:** 10/11/10**SAMPLE RESULTS**

Lab ID: L1015465-16 D
 Client ID: MW-261S-20101004-01
 Sample Location: WAYLAND, MA

Date Collected: 10/04/10 11:40
 Date Received: 10/04/10
 Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
o-Chlorotoluene	ND		ug/l	20	--	10
p-Chlorotoluene	ND		ug/l	20	--	10
Hexachlorobutadiene	ND		ug/l	6.0	--	10
1,2,4-Trichlorobenzene	ND		ug/l	20	--	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	112		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	107		70-130

Project Name: RAYTHEON-WAYLAND

Lab Number: L1015465

Project Number: 0114119

Report Date: 10/11/10

SAMPLE RESULTS

Lab ID: L1015465-17 D
 Client ID: MW-561-20101004-01
 Sample Location: WAYLAND, MA
 Matrix: Water
 Analytical Method: 97,8260B
 Analytical Date: 10/07/10 16:16
 Analyst: MM

Date Collected: 10/04/10 15:00
 Date Received: 10/04/10
 Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND		ug/l	40	--	20
1,1-Dichloroethane	ND		ug/l	20	--	20
Chloroform	ND		ug/l	20	--	20
Carbon tetrachloride	ND		ug/l	20	--	20
1,2-Dichloropropane	ND		ug/l	20	--	20
Dibromochloromethane	ND		ug/l	20	--	20
1,1,2-Trichloroethane	ND		ug/l	20	--	20
Tetrachloroethene	20		ug/l	20	--	20
Chlorobenzene	ND		ug/l	20	--	20
1,2-Dichloroethane	ND		ug/l	20	--	20
1,1,1-Trichloroethane	ND		ug/l	20	--	20
Bromodichloromethane	ND		ug/l	20	--	20
trans-1,3-Dichloropropene	ND		ug/l	10	--	20
cis-1,3-Dichloropropene	ND		ug/l	10	--	20
Bromoform	ND		ug/l	40	--	20
1,1,2,2-Tetrachloroethane	ND		ug/l	20	--	20
Chloromethane	ND		ug/l	40	--	20
Vinyl chloride	89		ug/l	20	--	20
Chloroethane	ND		ug/l	40	--	20
1,1-Dichloroethene	ND		ug/l	20	--	20
trans-1,2-Dichloroethene	ND		ug/l	20	--	20
Trichloroethene	550		ug/l	20	--	20
1,2-Dichlorobenzene	ND		ug/l	20	--	20
1,3-Dichlorobenzene	ND		ug/l	20	--	20
1,4-Dichlorobenzene	ND		ug/l	20	--	20
cis-1,2-Dichloroethene	140		ug/l	20	--	20
Dichlorodifluoromethane	ND		ug/l	40	--	20
1,2-Dibromoethane	ND		ug/l	40	--	20
1,3-Dichloropropane	ND		ug/l	40	--	20
1,1,1,2-Tetrachloroethane	ND		ug/l	20	--	20

Project Name: RAYTHEON-WAYLAND**Lab Number:** L1015465**Project Number:** 0114119**Report Date:** 10/11/10**SAMPLE RESULTS**

Lab ID: L1015465-17 D

Date Collected: 10/04/10 15:00

Client ID: MW-561-20101004-01

Date Received: 10/04/10

Sample Location: WAYLAND, MA

Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
o-Chlorotoluene	ND		ug/l	40	--	20
p-Chlorotoluene	ND		ug/l	40	--	20
Hexachlorobutadiene	ND		ug/l	12	--	20
1,2,4-Trichlorobenzene	ND		ug/l	40	--	20

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	109		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	115		70-130

Project Name: RAYTHEON-WAYLAND

Lab Number: L1015465

Project Number: 0114119

Report Date: 10/11/10

SAMPLE RESULTS

Lab ID: L1015465-18
 Client ID: MW-109-20101004-01
 Sample Location: WAYLAND, MA
 Matrix: Water
 Analytical Method: 97,8260B
 Analytical Date: 10/07/10 16:48
 Analyst: MM

Date Collected: 10/04/10 15:00
 Date Received: 10/04/10
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND		ug/l	2.0	--	1
1,1-Dichloroethane	ND		ug/l	1.0	--	1
Chloroform	ND		ug/l	1.0	--	1
Carbon tetrachloride	ND		ug/l	1.0	--	1
1,2-Dichloropropane	ND		ug/l	1.0	--	1
Dibromochloromethane	ND		ug/l	1.0	--	1
1,1,2-Trichloroethane	ND		ug/l	1.0	--	1
Tetrachloroethene	ND		ug/l	1.0	--	1
Chlorobenzene	ND		ug/l	1.0	--	1
1,2-Dichloroethane	ND		ug/l	1.0	--	1
1,1,1-Trichloroethane	ND		ug/l	1.0	--	1
Bromodichloromethane	ND		ug/l	1.0	--	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	1.0	--	1
Chloromethane	ND		ug/l	2.0	--	1
Vinyl chloride	ND		ug/l	1.0	--	1
Chloroethane	ND		ug/l	2.0	--	1
1,1-Dichloroethene	ND		ug/l	1.0	--	1
trans-1,2-Dichloroethene	ND		ug/l	1.0	--	1
Trichloroethene	16		ug/l	1.0	--	1
1,2-Dichlorobenzene	ND		ug/l	1.0	--	1
1,3-Dichlorobenzene	ND		ug/l	1.0	--	1
1,4-Dichlorobenzene	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	24		ug/l	1.0	--	1
Dichlorodifluoromethane	ND		ug/l	2.0	--	1
1,2-Dibromoethane	ND		ug/l	2.0	--	1
1,3-Dichloropropane	ND		ug/l	2.0	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--	1

Project Name: RAYTHEON-WAYLAND**Lab Number:** L1015465**Project Number:** 0114119**Report Date:** 10/11/10**SAMPLE RESULTS**

Lab ID: L1015465-18
 Client ID: MW-109-20101004-01
 Sample Location: WAYLAND, MA

Date Collected: 10/04/10 15:00
 Date Received: 10/04/10
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
o-Chlorotoluene	ND		ug/l	2.0	--	1
p-Chlorotoluene	ND		ug/l	2.0	--	1
Hexachlorobutadiene	ND		ug/l	0.60	--	1
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	116		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	118		70-130

Project Name: RAYTHEON-WAYLAND

Lab Number: L1015465

Project Number: 0114119

Report Date: 10/11/10

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 97,8260B
 Analytical Date: 10/06/10 09:20
 Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics - Westborough Lab for sample(s): 06-07 Batch: WG436179-3					
Methylene chloride	ND		ug/l	2.0	--
1,1-Dichloroethane	ND		ug/l	1.0	--
Chloroform	ND		ug/l	1.0	--
Carbon tetrachloride	ND		ug/l	1.0	--
1,2-Dichloropropane	ND		ug/l	1.0	--
Dibromochloromethane	ND		ug/l	1.0	--
1,1,2-Trichloroethane	ND		ug/l	1.0	--
Tetrachloroethene	ND		ug/l	1.0	--
Chlorobenzene	ND		ug/l	1.0	--
Trichlorofluoromethane	ND		ug/l	2.0	--
1,2-Dichloroethane	ND		ug/l	1.0	--
1,1,1-Trichloroethane	ND		ug/l	1.0	--
Bromodichloromethane	ND		ug/l	1.0	--
trans-1,3-Dichloropropene	ND		ug/l	0.50	--
cis-1,3-Dichloropropene	ND		ug/l	0.50	--
1,1-Dichloropropene	ND		ug/l	2.0	--
Bromoform	ND		ug/l	2.0	--
1,1,2,2-Tetrachloroethane	ND		ug/l	1.0	--
Benzene	ND		ug/l	1.0	--
Toluene	ND		ug/l	1.0	--
Ethylbenzene	ND		ug/l	1.0	--
Chloromethane	ND		ug/l	2.0	--
Bromomethane	ND		ug/l	2.0	--
Vinyl chloride	ND		ug/l	1.0	--
Chloroethane	ND		ug/l	2.0	--
1,1-Dichloroethene	ND		ug/l	1.0	--
trans-1,2-Dichloroethene	ND		ug/l	1.0	--
Trichloroethene	ND		ug/l	1.0	--
1,2-Dichlorobenzene	ND		ug/l	1.0	--
1,3-Dichlorobenzene	ND		ug/l	1.0	--
1,4-Dichlorobenzene	ND		ug/l	1.0	--

Project Name: RAYTHEON-WAYLAND

Lab Number: L1015465

Project Number: 0114119

Report Date: 10/11/10

Method Blank Analysis Batch Quality Control

Analytical Method: 97,8260B
 Analytical Date: 10/06/10 09:20
 Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics - Westborough Lab for sample(s): 06-07 Batch: WG436179-3					
Methyl tert butyl ether	ND		ug/l	2.0	--
p/m-Xylene	ND		ug/l	2.0	--
o-Xylene	ND		ug/l	1.0	--
cis-1,2-Dichloroethene	ND		ug/l	1.0	--
Dibromomethane	ND		ug/l	2.0	--
1,2,3-Trichloropropane	ND		ug/l	2.0	--
Styrene	ND		ug/l	1.0	--
Dichlorodifluoromethane	ND		ug/l	2.0	--
Acetone	ND		ug/l	5.0	--
Carbon disulfide	ND		ug/l	2.0	--
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	2.0	--
Tetrahydrofuran	ND		ug/l	10	--
2,2-Dichloropropane	ND		ug/l	2.0	--
1,2-Dibromoethane	ND		ug/l	2.0	--
1,3-Dichloropropane	ND		ug/l	2.0	--
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--
Bromobenzene	ND		ug/l	2.0	--
n-Butylbenzene	ND		ug/l	2.0	--
sec-Butylbenzene	ND		ug/l	2.0	--
tert-Butylbenzene	ND		ug/l	2.0	--
o-Chlorotoluene	ND		ug/l	2.0	--
p-Chlorotoluene	ND		ug/l	2.0	--
1,2-Dibromo-3-chloropropane	ND		ug/l	2.0	--
Hexachlorobutadiene	ND		ug/l	0.60	--
Isopropylbenzene	ND		ug/l	2.0	--
p-Isopropyltoluene	ND		ug/l	2.0	--
Naphthalene	ND		ug/l	2.0	--
n-Propylbenzene	ND		ug/l	2.0	--

Project Name: RAYTHEON-WAYLAND

Lab Number: L1015465

Project Number: 0114119

Report Date: 10/11/10

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260B
 Analytical Date: 10/06/10 09:20
 Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics - Westborough Lab for sample(s): 06-07 Batch: WG436179-3					
1,2,3-Trichlorobenzene	ND		ug/l	2.0	--
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--
1,3,5-Trimethylbenzene	ND		ug/l	2.0	--
1,2,4-Trimethylbenzene	ND		ug/l	2.0	--
Ethyl ether	ND		ug/l	2.0	--
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	102		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	111		70-130

Project Name: RAYTHEON-WAYLAND

Lab Number: L1015465

Project Number: 0114119

Report Date: 10/11/10

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 97,8260B
 Analytical Date: 10/06/10 09:04
 Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics - Westborough Lab for sample(s): 01,03-05 Batch: WG436188-3					
Methylene chloride	ND		ug/l	2.0	--
1,1-Dichloroethane	ND		ug/l	1.0	--
Chloroform	ND		ug/l	1.0	--
Carbon tetrachloride	ND		ug/l	1.0	--
1,2-Dichloropropane	ND		ug/l	1.0	--
Dibromochloromethane	ND		ug/l	1.0	--
1,1,2-Trichloroethane	ND		ug/l	1.0	--
Tetrachloroethene	ND		ug/l	1.0	--
Chlorobenzene	ND		ug/l	1.0	--
Trichlorofluoromethane	ND		ug/l	2.0	--
1,2-Dichloroethane	ND		ug/l	1.0	--
1,1,1-Trichloroethane	ND		ug/l	1.0	--
Bromodichloromethane	ND		ug/l	1.0	--
trans-1,3-Dichloropropene	ND		ug/l	0.50	--
cis-1,3-Dichloropropene	ND		ug/l	0.50	--
1,1-Dichloropropene	ND		ug/l	2.0	--
Bromoform	ND		ug/l	2.0	--
1,1,2,2-Tetrachloroethane	ND		ug/l	1.0	--
Benzene	ND		ug/l	1.0	--
Toluene	ND		ug/l	1.0	--
Ethylbenzene	ND		ug/l	1.0	--
Chloromethane	ND		ug/l	2.0	--
Bromomethane	ND		ug/l	2.0	--
Vinyl chloride	ND		ug/l	1.0	--
Chloroethane	ND		ug/l	2.0	--
1,1-Dichloroethene	ND		ug/l	1.0	--
trans-1,2-Dichloroethene	ND		ug/l	1.0	--
Trichloroethene	ND		ug/l	1.0	--
1,2-Dichlorobenzene	ND		ug/l	1.0	--
1,3-Dichlorobenzene	ND		ug/l	1.0	--
1,4-Dichlorobenzene	ND		ug/l	1.0	--

Project Name: RAYTHEON-WAYLAND
Project Number: 0114119

Lab Number: L1015465
Report Date: 10/11/10

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260B
Analytical Date: 10/06/10 09:04
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics - Westborough Lab for sample(s): 01,03-05 Batch: WG436188-3					
Methyl tert butyl ether	ND		ug/l	2.0	--
p/m-Xylene	ND		ug/l	2.0	--
o-Xylene	ND		ug/l	1.0	--
cis-1,2-Dichloroethene	ND		ug/l	1.0	--
Dibromomethane	ND		ug/l	2.0	--
1,2,3-Trichloropropane	ND		ug/l	2.0	--
Styrene	ND		ug/l	1.0	--
Dichlorodifluoromethane	ND		ug/l	2.0	--
Acetone	ND		ug/l	5.0	--
Carbon disulfide	ND		ug/l	2.0	--
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	2.0	--
Tetrahydrofuran	ND		ug/l	10	--
2,2-Dichloropropane	ND		ug/l	2.0	--
1,2-Dibromoethane	ND		ug/l	2.0	--
1,3-Dichloropropane	ND		ug/l	2.0	--
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--
Bromobenzene	ND		ug/l	2.0	--
n-Butylbenzene	ND		ug/l	2.0	--
sec-Butylbenzene	ND		ug/l	2.0	--
tert-Butylbenzene	ND		ug/l	2.0	--
o-Chlorotoluene	ND		ug/l	2.0	--
p-Chlorotoluene	ND		ug/l	2.0	--
1,2-Dibromo-3-chloropropane	ND		ug/l	2.0	--
Hexachlorobutadiene	ND		ug/l	0.60	--
Isopropylbenzene	ND		ug/l	2.0	--
p-Isopropyltoluene	ND		ug/l	2.0	--
Naphthalene	ND		ug/l	2.0	--
n-Propylbenzene	ND		ug/l	2.0	--

Project Name: RAYTHEON-WAYLAND
Project Number: 0114119

Lab Number: L1015465
Report Date: 10/11/10

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260B
Analytical Date: 10/06/10 09:04
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics - Westborough Lab for sample(s): 01,03-05 Batch: WG436188-3					
1,2,3-Trichlorobenzene	ND		ug/l	2.0	--
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--
1,3,5-Trimethylbenzene	ND		ug/l	2.0	--
1,2,4-Trimethylbenzene	ND		ug/l	2.0	--
Ethyl ether	ND		ug/l	2.0	--
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	98		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	119		70-130
Dibromofluoromethane	108		70-130

Project Name: RAYTHEON-WAYLAND

Lab Number: L1015465

Project Number: 0114119

Report Date: 10/11/10

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260B
 Analytical Date: 10/07/10 10:04
 Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics - Westborough Lab for sample(s): 10 Batch: WG436422-3					
Methylene chloride	ND		ug/l	2.0	--
1,1-Dichloroethane	ND		ug/l	1.0	--
Chloroform	ND		ug/l	1.0	--
Carbon tetrachloride	ND		ug/l	1.0	--
1,2-Dichloropropane	ND		ug/l	1.0	--
Dibromochloromethane	ND		ug/l	1.0	--
1,1,2-Trichloroethane	ND		ug/l	1.0	--
Tetrachloroethene	ND		ug/l	1.0	--
Chlorobenzene	ND		ug/l	1.0	--
Trichlorofluoromethane	ND		ug/l	2.0	--
1,2-Dichloroethane	ND		ug/l	1.0	--
1,1,1-Trichloroethane	ND		ug/l	1.0	--
Bromodichloromethane	ND		ug/l	1.0	--
trans-1,3-Dichloropropene	ND		ug/l	0.50	--
cis-1,3-Dichloropropene	ND		ug/l	0.50	--
1,1-Dichloropropene	ND		ug/l	2.0	--
Bromoform	ND		ug/l	2.0	--
1,1,2,2-Tetrachloroethane	ND		ug/l	1.0	--
Benzene	ND		ug/l	1.0	--
Toluene	ND		ug/l	1.0	--
Ethylbenzene	ND		ug/l	1.0	--
Chloromethane	ND		ug/l	2.0	--
Bromomethane	ND		ug/l	2.0	--
Vinyl chloride	ND		ug/l	1.0	--
Chloroethane	ND		ug/l	2.0	--
1,1-Dichloroethene	ND		ug/l	1.0	--
trans-1,2-Dichloroethene	ND		ug/l	1.0	--
Trichloroethene	ND		ug/l	1.0	--
1,2-Dichlorobenzene	ND		ug/l	1.0	--
1,3-Dichlorobenzene	ND		ug/l	1.0	--
1,4-Dichlorobenzene	ND		ug/l	1.0	--

Project Name: RAYTHEON-WAYLAND

Lab Number: L1015465

Project Number: 0114119

Report Date: 10/11/10

Method Blank Analysis Batch Quality Control

Analytical Method: 97,8260B
 Analytical Date: 10/07/10 10:04
 Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics - Westborough Lab for sample(s): 10 Batch: WG436422-3					
Methyl tert butyl ether	ND		ug/l	2.0	--
p/m-Xylene	ND		ug/l	2.0	--
o-Xylene	ND		ug/l	1.0	--
cis-1,2-Dichloroethene	ND		ug/l	1.0	--
Dibromomethane	ND		ug/l	2.0	--
1,2,3-Trichloropropane	ND		ug/l	2.0	--
Styrene	ND		ug/l	1.0	--
Dichlorodifluoromethane	ND		ug/l	2.0	--
Acetone	ND		ug/l	5.0	--
Carbon disulfide	ND		ug/l	2.0	--
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	2.0	--
Tetrahydrofuran	ND		ug/l	10	--
2,2-Dichloropropane	ND		ug/l	2.0	--
1,2-Dibromoethane	ND		ug/l	2.0	--
1,3-Dichloropropane	ND		ug/l	2.0	--
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--
Bromobenzene	ND		ug/l	2.0	--
n-Butylbenzene	ND		ug/l	2.0	--
sec-Butylbenzene	ND		ug/l	2.0	--
tert-Butylbenzene	ND		ug/l	2.0	--
o-Chlorotoluene	ND		ug/l	2.0	--
p-Chlorotoluene	ND		ug/l	2.0	--
1,2-Dibromo-3-chloropropane	ND		ug/l	2.0	--
Hexachlorobutadiene	ND		ug/l	0.60	--
Isopropylbenzene	ND		ug/l	2.0	--
p-Isopropyltoluene	ND		ug/l	2.0	--
Naphthalene	ND		ug/l	2.0	--
n-Propylbenzene	ND		ug/l	2.0	--

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Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260B
 Analytical Date: 10/07/10 10:04
 Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics - Westborough Lab for sample(s): 10 Batch: WG436422-3					
1,2,3-Trichlorobenzene	ND		ug/l	2.0	--
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--
1,3,5-Trimethylbenzene	ND		ug/l	2.0	--
1,2,4-Trimethylbenzene	ND		ug/l	2.0	--
Ethyl ether	ND		ug/l	2.0	--
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	105		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	115		70-130
Dibromofluoromethane	112		70-130

Project Name: RAYTHEON-WAYLAND

Lab Number: L1015465

Project Number: 0114119

Report Date: 10/11/10

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260B
 Analytical Date: 10/07/10 10:20
 Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics - Westborough Lab for sample(s): 02,08,11-14,16-18 Batch: WG436461-3					
Methylene chloride	ND		ug/l	2.0	--
1,1-Dichloroethane	ND		ug/l	1.0	--
Chloroform	ND		ug/l	1.0	--
Carbon tetrachloride	ND		ug/l	1.0	--
1,2-Dichloropropane	ND		ug/l	1.0	--
Dibromochloromethane	ND		ug/l	1.0	--
1,1,2-Trichloroethane	ND		ug/l	1.0	--
Tetrachloroethene	ND		ug/l	1.0	--
Chlorobenzene	ND		ug/l	1.0	--
Trichlorofluoromethane	ND		ug/l	2.0	--
1,2-Dichloroethane	ND		ug/l	1.0	--
1,1,1-Trichloroethane	ND		ug/l	1.0	--
Bromodichloromethane	ND		ug/l	1.0	--
trans-1,3-Dichloropropene	ND		ug/l	0.50	--
cis-1,3-Dichloropropene	ND		ug/l	0.50	--
1,1-Dichloropropene	ND		ug/l	2.0	--
Bromoform	ND		ug/l	2.0	--
1,1,2,2-Tetrachloroethane	ND		ug/l	1.0	--
Benzene	ND		ug/l	1.0	--
Toluene	ND		ug/l	1.0	--
Ethylbenzene	ND		ug/l	1.0	--
Chloromethane	ND		ug/l	2.0	--
Bromomethane	ND		ug/l	2.0	--
Vinyl chloride	ND		ug/l	1.0	--
Chloroethane	ND		ug/l	2.0	--
1,1-Dichloroethene	ND		ug/l	1.0	--
trans-1,2-Dichloroethene	ND		ug/l	1.0	--
Trichloroethene	ND		ug/l	1.0	--
1,2-Dichlorobenzene	ND		ug/l	1.0	--
1,3-Dichlorobenzene	ND		ug/l	1.0	--
1,4-Dichlorobenzene	ND		ug/l	1.0	--

Project Name: RAYTHEON-WAYLAND
Project Number: 0114119

Lab Number: L1015465
Report Date: 10/11/10

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260B
Analytical Date: 10/07/10 10:20
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics - Westborough Lab for sample(s): 02,08,11-14,16-18 Batch: WG436461-3					
Methyl tert butyl ether	ND		ug/l	2.0	--
p/m-Xylene	ND		ug/l	2.0	--
o-Xylene	ND		ug/l	1.0	--
cis-1,2-Dichloroethene	ND		ug/l	1.0	--
Dibromomethane	ND		ug/l	2.0	--
1,2,3-Trichloropropane	ND		ug/l	2.0	--
Styrene	ND		ug/l	1.0	--
Dichlorodifluoromethane	ND		ug/l	2.0	--
Acetone	ND		ug/l	5.0	--
Carbon disulfide	ND		ug/l	2.0	--
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	2.0	--
Tetrahydrofuran	ND		ug/l	10	--
2,2-Dichloropropane	ND		ug/l	2.0	--
1,2-Dibromoethane	ND		ug/l	2.0	--
1,3-Dichloropropane	ND		ug/l	2.0	--
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--
Bromobenzene	ND		ug/l	2.0	--
n-Butylbenzene	ND		ug/l	2.0	--
sec-Butylbenzene	ND		ug/l	2.0	--
tert-Butylbenzene	ND		ug/l	2.0	--
o-Chlorotoluene	ND		ug/l	2.0	--
p-Chlorotoluene	ND		ug/l	2.0	--
1,2-Dibromo-3-chloropropane	ND		ug/l	2.0	--
Hexachlorobutadiene	ND		ug/l	0.60	--
Isopropylbenzene	ND		ug/l	2.0	--
p-Isopropyltoluene	ND		ug/l	2.0	--
Naphthalene	ND		ug/l	2.0	--
n-Propylbenzene	ND		ug/l	2.0	--

Project Name: RAYTHEON-WAYLAND

Lab Number: L1015465

Project Number: 0114119

Report Date: 10/11/10

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260B
 Analytical Date: 10/07/10 10:20
 Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics - Westborough Lab for sample(s): 02,08,11-14,16-18 Batch: WG436461-3					
1,2,3-Trichlorobenzene	ND		ug/l	2.0	--
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--
1,3,5-Trimethylbenzene	ND		ug/l	2.0	--
1,2,4-Trimethylbenzene	ND		ug/l	2.0	--
Ethyl ether	ND		ug/l	2.0	--
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	102		70-130
Dibromofluoromethane	110		70-130

Project Name: RAYTHEON-WAYLAND

Lab Number: L1015465

Project Number: 0114119

Report Date: 10/11/10

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260B
 Analytical Date: 10/08/10 09:11
 Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics - Westborough Lab for sample(s): 08-09,15 Batch: WG436461-8					
Methylene chloride	ND		ug/l	2.0	--
1,1-Dichloroethane	ND		ug/l	1.0	--
Chloroform	ND		ug/l	1.0	--
Carbon tetrachloride	ND		ug/l	1.0	--
1,2-Dichloropropane	ND		ug/l	1.0	--
Dibromochloromethane	ND		ug/l	1.0	--
1,1,2-Trichloroethane	ND		ug/l	1.0	--
Tetrachloroethene	ND		ug/l	1.0	--
Chlorobenzene	ND		ug/l	1.0	--
Trichlorofluoromethane	ND		ug/l	2.0	--
1,2-Dichloroethane	ND		ug/l	1.0	--
1,1,1-Trichloroethane	ND		ug/l	1.0	--
Bromodichloromethane	ND		ug/l	1.0	--
trans-1,3-Dichloropropene	ND		ug/l	0.50	--
cis-1,3-Dichloropropene	ND		ug/l	0.50	--
1,1-Dichloropropene	ND		ug/l	2.0	--
Bromoform	ND		ug/l	2.0	--
1,1,2,2-Tetrachloroethane	ND		ug/l	1.0	--
Benzene	ND		ug/l	1.0	--
Toluene	ND		ug/l	1.0	--
Ethylbenzene	ND		ug/l	1.0	--
Chloromethane	ND		ug/l	2.0	--
Bromomethane	ND		ug/l	2.0	--
Vinyl chloride	ND		ug/l	1.0	--
Chloroethane	ND		ug/l	2.0	--
1,1-Dichloroethene	ND		ug/l	1.0	--
trans-1,2-Dichloroethene	ND		ug/l	1.0	--
Trichloroethene	ND		ug/l	1.0	--
1,2-Dichlorobenzene	ND		ug/l	1.0	--
1,3-Dichlorobenzene	ND		ug/l	1.0	--
1,4-Dichlorobenzene	ND		ug/l	1.0	--

Project Name: RAYTHEON-WAYLAND

Lab Number: L1015465

Project Number: 0114119

Report Date: 10/11/10

Method Blank Analysis Batch Quality Control

Analytical Method: 97,8260B
 Analytical Date: 10/08/10 09:11
 Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics - Westborough Lab for sample(s): 08-09,15 Batch: WG436461-8					
Methyl tert butyl ether	ND		ug/l	2.0	--
p/m-Xylene	ND		ug/l	2.0	--
o-Xylene	ND		ug/l	1.0	--
cis-1,2-Dichloroethene	ND		ug/l	1.0	--
Dibromomethane	ND		ug/l	2.0	--
1,2,3-Trichloropropane	ND		ug/l	2.0	--
Styrene	ND		ug/l	1.0	--
Dichlorodifluoromethane	ND		ug/l	2.0	--
Acetone	ND		ug/l	5.0	--
Carbon disulfide	ND		ug/l	2.0	--
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	2.0	--
Tetrahydrofuran	ND		ug/l	10	--
2,2-Dichloropropane	ND		ug/l	2.0	--
1,2-Dibromoethane	ND		ug/l	2.0	--
1,3-Dichloropropane	ND		ug/l	2.0	--
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--
Bromobenzene	ND		ug/l	2.0	--
n-Butylbenzene	ND		ug/l	2.0	--
sec-Butylbenzene	ND		ug/l	2.0	--
tert-Butylbenzene	ND		ug/l	2.0	--
o-Chlorotoluene	ND		ug/l	2.0	--
p-Chlorotoluene	ND		ug/l	2.0	--
1,2-Dibromo-3-chloropropane	ND		ug/l	2.0	--
Hexachlorobutadiene	ND		ug/l	0.60	--
Isopropylbenzene	ND		ug/l	2.0	--
p-Isopropyltoluene	ND		ug/l	2.0	--
Naphthalene	ND		ug/l	2.0	--
n-Propylbenzene	ND		ug/l	2.0	--

Project Name: RAYTHEON-WAYLAND
Project Number: 0114119

Lab Number: L1015465
Report Date: 10/11/10

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260B
 Analytical Date: 10/08/10 09:11
 Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics - Westborough Lab for sample(s): 08-09,15 Batch: WG436461-8					
1,2,3-Trichlorobenzene	ND		ug/l	2.0	--
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--
1,3,5-Trimethylbenzene	ND		ug/l	2.0	--
1,2,4-Trimethylbenzene	ND		ug/l	2.0	--
Ethyl ether	ND		ug/l	2.0	--
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	105		70-130
Toluene-d8	93		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	110		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: RAYTHEON-WAYLAND

Lab Number: L1015465

Project Number: 0114119

Report Date: 10/11/10

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
MCP Volatile Organics - Westborough Lab Associated sample(s): 06-07 Batch: WG436179-1 WG436179-2								
Methylene chloride	107		113		70-130	5		20
1,1-Dichloroethane	102		106		70-130	4		20
Chloroform	96		102		70-130	6		20
Carbon tetrachloride	98		108		70-130	10		20
1,2-Dichloropropane	100		106		70-130	6		20
Dibromochloromethane	99		106		70-130	7		20
1,1,2-Trichloroethane	96		106		70-130	10		20
Tetrachloroethene	101		105		70-130	4		20
Chlorobenzene	98		104		70-130	6		20
Trichlorofluoromethane	103		108		70-130	5		20
1,2-Dichloroethane	103		114		70-130	10		20
1,1,1-Trichloroethane	103		110		70-130	7		20
Bromodichloromethane	104		113		70-130	8		20
trans-1,3-Dichloropropene	98		108		70-130	10		20
cis-1,3-Dichloropropene	90		98		70-130	9		20
1,1-Dichloropropene	101		107		70-130	6		20
Bromoform	104		129		70-130	21	Q	20
1,1,2,2-Tetrachloroethane	109		130		70-130	18		20
Benzene	101		108		70-130	7		20
Toluene	98		103		70-130	5		20
Ethylbenzene	104		108		70-130	4		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: RAYTHEON-WAYLAND

Lab Number: L1015465

Project Number: 0114119

Report Date: 10/11/10

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
MCP Volatile Organics - Westborough Lab Associated sample(s): 06-07 Batch: WG436179-1 WG436179-2								
Chloromethane	96		111		70-130	14		20
Bromomethane	106		120		70-130	12		20
Vinyl chloride	99		102		70-130	3		20
Chloroethane	90		93		70-130	3		20
1,1-Dichloroethene	106		111		70-130	5		20
trans-1,2-Dichloroethene	102		106		70-130	4		20
Trichloroethene	98		103		70-130	5		20
1,2-Dichlorobenzene	104		113		70-130	8		20
1,3-Dichlorobenzene	106		113		70-130	6		20
1,4-Dichlorobenzene	104		112		70-130	7		20
Methyl tert butyl ether	96		110		70-130	14		20
p/m-Xylene	107		110		70-130	3		20
o-Xylene	108		112		70-130	4		20
cis-1,2-Dichloroethene	106		109		70-130	3		20
Dibromomethane	94		114		70-130	19		20
1,2,3-Trichloropropane	110		126		70-130	14		20
Styrene	110		113		70-130	3		20
Dichlorodifluoromethane	121		126		70-130	4		20
Acetone	120		139	Q	70-130	15		20
Carbon disulfide	90		94		70-130	4		20
2-Butanone	117		130		70-130	11		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: RAYTHEON-WAYLAND

Lab Number: L1015465

Project Number: 0114119

Report Date: 10/11/10

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics - Westborough Lab Associated sample(s): 06-07 Batch: WG436179-1 WG436179-2								
4-Methyl-2-pentanone	109		128		70-130	16		20
2-Hexanone	103		127		70-130	21	Q	20
Bromochloromethane	105		117		70-130	11		20
Tetrahydrofuran	111		126		70-130	13		20
2,2-Dichloropropane	98		105		70-130	7		20
1,2-Dibromoethane	96		105		70-130	9		20
1,3-Dichloropropane	98		109		70-130	11		20
1,1,1,2-Tetrachloroethane	109		113		70-130	4		20
Bromobenzene	106		119		70-130	12		20
n-Butylbenzene	109		120		70-130	10		20
sec-Butylbenzene	107		114		70-130	6		20
tert-Butylbenzene	103		113		70-130	9		20
o-Chlorotoluene	102		111		70-130	8		20
p-Chlorotoluene	114		122		70-130	7		20
1,2-Dibromo-3-chloropropane	100		136	Q	70-130	31	Q	20
Hexachlorobutadiene	106		111		70-130	5		20
Isopropylbenzene	104		109		70-130	5		20
p-Isopropyltoluene	110		119		70-130	8		20
Naphthalene	104		120		70-130	14		20
n-Propylbenzene	108		115		70-130	6		20
1,2,3-Trichlorobenzene	110		124		70-130	12		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: RAYTHEON-WAYLAND

Lab Number: L1015465

Project Number: 0114119

Report Date: 10/11/10

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
MCP Volatile Organics - Westborough Lab Associated sample(s): 06-07 Batch: WG436179-1 WG436179-2								
1,2,4-Trichlorobenzene	111		120		70-130	8		20
1,3,5-Trimethylbenzene	109		117		70-130	7		20
1,2,4-Trimethylbenzene	107		115		70-130	7		20
Ethyl ether	100		110		70-130	10		20
Isopropyl Ether	100		106		70-130	6		20
Ethyl-Tert-Butyl-Ether	98		113		70-130	14		20
Tertiary-Amyl Methyl Ether	105		119		70-130	13		20
1,4-Dioxane	134	Q	158	Q	70-130	16		20

Surrogate	LCS		LCSD		Acceptance Criteria
	%Recovery	Qual	%Recovery	Qual	
1,2-Dichloroethane-d4	96		99		70-130
Toluene-d8	102		99		70-130
4-Bromofluorobenzene	91		93		70-130
Dibromofluoromethane	103		101		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: RAYTHEON-WAYLAND

Lab Number: L1015465

Project Number: 0114119

Report Date: 10/11/10

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
MCP Volatile Organics - Westborough Lab Associated sample(s): 01,03-05 Batch: WG436188-1 WG436188-2								
Methylene chloride	101		101		70-130	0		20
1,1-Dichloroethane	100		95		70-130	5		20
Chloroform	100		98		70-130	2		20
Carbon tetrachloride	103		95		70-130	8		20
1,2-Dichloropropane	93		93		70-130	0		20
Dibromochloromethane	94		99		70-130	5		20
1,1,2-Trichloroethane	95		101		70-130	6		20
Tetrachloroethene	106		100		70-130	6		20
Chlorobenzene	100		93		70-130	7		20
Trichlorofluoromethane	103		97		70-130	6		20
1,2-Dichloroethane	94		99		70-130	5		20
1,1,1-Trichloroethane	102		96		70-130	6		20
Bromodichloromethane	99		99		70-130	0		20
trans-1,3-Dichloropropene	95		99		70-130	4		20
cis-1,3-Dichloropropene	88		87		70-130	1		20
1,1-Dichloropropene	105		98		70-130	7		20
Bromoform	95		103		70-130	8		20
1,1,2,2-Tetrachloroethane	97		110		70-130	13		20
Benzene	102		96		70-130	6		20
Toluene	102		95		70-130	7		20
Ethylbenzene	107		100		70-130	7		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: RAYTHEON-WAYLAND

Lab Number: L1015465

Project Number: 0114119

Report Date: 10/11/10

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
MCP Volatile Organics - Westborough Lab Associated sample(s): 01,03-05 Batch: WG436188-1 WG436188-2								
Chloromethane	98		91		70-130	7		20
Bromomethane	119		97		70-130	20		20
Vinyl chloride	100		87		70-130	14		20
Chloroethane	82		74		70-130	10		20
1,1-Dichloroethene	102		93		70-130	9		20
trans-1,2-Dichloroethene	103		93		70-130	10		20
Trichloroethene	102		98		70-130	4		20
1,2-Dichlorobenzene	105		106		70-130	1		20
1,3-Dichlorobenzene	106		102		70-130	4		20
1,4-Dichlorobenzene	108		106		70-130	2		20
Methyl tert butyl ether	87		100		70-130	14		20
p/m-Xylene	108		100		70-130	8		20
o-Xylene	110		105		70-130	5		20
cis-1,2-Dichloroethene	102		98		70-130	4		20
Dibromomethane	83		104		70-130	22	Q	20
1,2,3-Trichloropropane	98		106		70-130	8		20
Styrene	105		102		70-130	3		20
Dichlorodifluoromethane	115		107		70-130	7		20
Acetone	105		121		70-130	14		20
Carbon disulfide	94		84		70-130	11		20
2-Butanone	97		115		70-130	17		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: RAYTHEON-WAYLAND

Lab Number: L1015465

Project Number: 0114119

Report Date: 10/11/10

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics - Westborough Lab Associated sample(s): 01,03-05 Batch: WG436188-1 WG436188-2								
4-Methyl-2-pentanone	82		105		70-130	25	Q	20
2-Hexanone	82		102		70-130	22	Q	20
Bromochloromethane	99		98		70-130	1		20
Tetrahydrofuran	83		106		70-130	24	Q	20
2,2-Dichloropropane	102		97		70-130	5		20
1,2-Dibromoethane	91		100		70-130	9		20
1,3-Dichloropropane	96		101		70-130	5		20
1,1,1,2-Tetrachloroethane	104		100		70-130	4		20
Bromobenzene	105		105		70-130	0		20
n-Butylbenzene	123		113		70-130	8		20
sec-Butylbenzene	120		108		70-130	11		20
tert-Butylbenzene	116		109		70-130	6		20
o-Chlorotoluene	108		102		70-130	6		20
p-Chlorotoluene	113		106		70-130	6		20
1,2-Dibromo-3-chloropropane	89		110		70-130	21	Q	20
Hexachlorobutadiene	126		111		70-130	13		20
Isopropylbenzene	111		103		70-130	7		20
p-Isopropyltoluene	115		108		70-130	6		20
Naphthalene	94		103		70-130	9		20
n-Propylbenzene	117		108		70-130	8		20
1,2,3-Trichlorobenzene	100		104		70-130	4		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: RAYTHEON-WAYLAND

Lab Number: L1015465

Project Number: 0114119

Report Date: 10/11/10

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
MCP Volatile Organics - Westborough Lab Associated sample(s): 01,03-05 Batch: WG436188-1 WG436188-2								
1,2,4-Trichlorobenzene	104		105		70-130	1		20
1,3,5-Trimethylbenzene	113		105		70-130	7		20
1,2,4-Trimethylbenzene	112		108		70-130	4		20
Ethyl ether	91		97		70-130	6		20
Isopropyl Ether	94		99		70-130	5		20
Ethyl-Tert-Butyl-Ether	92		102		70-130	10		20
Tertiary-Amyl Methyl Ether	95		107		70-130	12		20
1,4-Dioxane	101		117		70-130	15		20

Surrogate	LCS		LCSD		Acceptance Criteria
	%Recovery	Qual	%Recovery	Qual	
1,2-Dichloroethane-d4	91		93		70-130
Toluene-d8	104		97		70-130
4-Bromofluorobenzene	103		103		70-130
Dibromofluoromethane	103		100		70-130

Lab Control Sample Analysis

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Project Name: RAYTHEON-WAYLAND

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Project Number: 0114119

Report Date: 10/11/10

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
MCP Volatile Organics - Westborough Lab Associated sample(s): 10 Batch: WG436422-1 WG436422-2								
Methylene chloride	114		108		70-130	5		20
1,1-Dichloroethane	108		102		70-130	6		20
Chloroform	108		105		70-130	3		20
Carbon tetrachloride	107		104		70-130	3		20
1,2-Dichloropropane	107		105		70-130	2		20
Dibromochloromethane	104		99		70-130	5		20
1,1,2-Trichloroethane	110		106		70-130	4		20
Tetrachloroethene	108		106		70-130	2		20
Chlorobenzene	102		99		70-130	3		20
Trichlorofluoromethane	130		125		70-130	4		20
1,2-Dichloroethane	112		105		70-130	6		20
1,1,1-Trichloroethane	109		106		70-130	3		20
Bromodichloromethane	114		109		70-130	4		20
trans-1,3-Dichloropropene	105		100		70-130	5		20
cis-1,3-Dichloropropene	96		95		70-130	1		20
1,1-Dichloropropene	112		106		70-130	6		20
Bromoform	106		104		70-130	2		20
1,1,2,2-Tetrachloroethane	115		108		70-130	6		20
Benzene	109		106		70-130	3		20
Toluene	106		103		70-130	3		20
Ethylbenzene	110		107		70-130	3		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: RAYTHEON-WAYLAND

Lab Number: L1015465

Project Number: 0114119

Report Date: 10/11/10

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
MCP Volatile Organics - Westborough Lab Associated sample(s): 10 Batch: WG436422-1 WG436422-2								
Chloromethane	104		98		70-130	6		20
Bromomethane	106		107		70-130	1		20
Vinyl chloride	99		99		70-130	0		20
Chloroethane	112		105		70-130	6		20
1,1-Dichloroethene	127		120		70-130	6		20
trans-1,2-Dichloroethene	104		103		70-130	1		20
Trichloroethene	111		106		70-130	5		20
1,2-Dichlorobenzene	110		107		70-130	3		20
1,3-Dichlorobenzene	108		107		70-130	1		20
1,4-Dichlorobenzene	111		107		70-130	4		20
Methyl tert butyl ether	104		103		70-130	1		20
p/m-Xylene	113		110		70-130	3		20
o-Xylene	114		111		70-130	3		20
cis-1,2-Dichloroethene	106		103		70-130	3		20
Dibromomethane	114		98		70-130	15		20
1,2,3-Trichloropropane	115		110		70-130	4		20
Styrene	110		108		70-130	2		20
Dichlorodifluoromethane	117		117		70-130	0		20
Acetone	130		120		70-130	8		20
Carbon disulfide	122		104		70-130	16		20
2-Butanone	114		121		70-130	6		20

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Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
MCP Volatile Organics - Westborough Lab Associated sample(s): 10 Batch: WG436422-1 WG436422-2								
4-Methyl-2-pentanone	113		109		70-130	4		20
2-Hexanone	115		107		70-130	7		20
Bromochloromethane	110		104		70-130	6		20
Tetrahydrofuran	111		108		70-130	3		20
2,2-Dichloropropane	106		102		70-130	4		20
1,2-Dibromoethane	107		103		70-130	4		20
1,3-Dichloropropane	108		106		70-130	2		20
1,1,1,2-Tetrachloroethane	109		106		70-130	3		20
Bromobenzene	109		104		70-130	5		20
n-Butylbenzene	121		118		70-130	3		20
sec-Butylbenzene	119		114		70-130	4		20
tert-Butylbenzene	117		113		70-130	3		20
o-Chlorotoluene	114		107		70-130	6		20
p-Chlorotoluene	115		108		70-130	6		20
1,2-Dibromo-3-chloropropane	108		104		70-130	4		20
Hexachlorobutadiene	106		111		70-130	5		20
Isopropylbenzene	113		109		70-130	4		20
p-Isopropyltoluene	114		110		70-130	4		20
Naphthalene	100		101		70-130	1		20
n-Propylbenzene	119		113		70-130	5		20
1,2,3-Trichlorobenzene	104		102		70-130	2		20

Lab Control Sample Analysis

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Project Name: RAYTHEON-WAYLAND

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Project Number: 0114119

Report Date: 10/11/10

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
MCP Volatile Organics - Westborough Lab Associated sample(s): 10 Batch: WG436422-1 WG436422-2								
1,2,4-Trichlorobenzene	105		106		70-130	1		20
1,3,5-Trimethylbenzene	115		110		70-130	4		20
1,2,4-Trimethylbenzene	114		110		70-130	4		20
Ethyl ether	126		121		70-130	4		20
Isopropyl Ether	107		103		70-130	4		20
Ethyl-Tert-Butyl-Ether	108		107		70-130	1		20
Tertiary-Amyl Methyl Ether	110		108		70-130	2		20
1,4-Dioxane	84		106		70-130	23	Q	20

Surrogate	LCS		LCSD		Acceptance Criteria
	%Recovery	Qual	%Recovery	Qual	
1,2-Dichloroethane-d4	102		100		70-130
Toluene-d8	100		100		70-130
4-Bromofluorobenzene	101		99		70-130
Dibromofluoromethane	104		100		70-130

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Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
MCP Volatile Organics - Westborough Lab Associated sample(s): 02,08,11-14,16-18 Batch: WG436461-1 WG436461-2								
Methylene chloride	117		115		70-130	2		20
1,1-Dichloroethane	104		103		70-130	1		20
Chloroform	100		100		70-130	0		20
Carbon tetrachloride	101		103		70-130	2		20
1,2-Dichloropropane	100		100		70-130	0		20
Dibromochloromethane	97		96		70-130	1		20
1,1,2-Trichloroethane	94		96		70-130	2		20
Tetrachloroethene	97		100		70-130	3		20
Chlorobenzene	96		97		70-130	1		20
Trichlorofluoromethane	125		125		70-130	0		20
1,2-Dichloroethane	110		110		70-130	0		20
1,1,1-Trichloroethane	104		107		70-130	3		20
Bromodichloromethane	108		108		70-130	0		20
trans-1,3-Dichloropropene	93		95		70-130	2		20
cis-1,3-Dichloropropene	91		94		70-130	3		20
1,1-Dichloropropene	103		104		70-130	1		20
Bromoform	104		107		70-130	3		20
1,1,2,2-Tetrachloroethane	107		106		70-130	1		20
Benzene	103		104		70-130	1		20
Toluene	96		98		70-130	2		20
Ethylbenzene	101		103		70-130	2		20

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Project Name: RAYTHEON-WAYLAND

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Project Number: 0114119

Report Date: 10/11/10

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
MCP Volatile Organics - Westborough Lab Associated sample(s): 02,08,11-14,16-18 Batch: WG436461-1 WG436461-2								
Chloromethane	97		98		70-130	1		20
Bromomethane	109		126		70-130	14		20
Vinyl chloride	99		96		70-130	3		20
Chloroethane	112		111		70-130	1		20
1,1-Dichloroethene	122		126		70-130	3		20
trans-1,2-Dichloroethene	100		104		70-130	4		20
Trichloroethene	103		106		70-130	3		20
1,2-Dichlorobenzene	100		103		70-130	3		20
1,3-Dichlorobenzene	104		104		70-130	0		20
1,4-Dichlorobenzene	98		102		70-130	4		20
Methyl tert butyl ether	100		100		70-130	0		20
p/m-Xylene	102		105		70-130	3		20
o-Xylene	105		106		70-130	1		20
cis-1,2-Dichloroethene	104		109		70-130	5		20
Dibromomethane	98		97		70-130	1		20
1,2,3-Trichloropropane	110		109		70-130	1		20
Styrene	105		107		70-130	2		20
Dichlorodifluoromethane	120		125		70-130	4		20
Acetone	119		123		70-130	3		20
Carbon disulfide	105		106		70-130	1		20
2-Butanone	120		116		70-130	3		20

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Batch Quality Control

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Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
MCP Volatile Organics - Westborough Lab Associated sample(s): 02,08,11-14,16-18 Batch: WG436461-1 WG436461-2								
4-Methyl-2-pentanone	115		120		70-130	4		20
2-Hexanone	106		102		70-130	4		20
Bromochloromethane	109		108		70-130	1		20
Tetrahydrofuran	116		104		70-130	11		20
2,2-Dichloropropane	103		102		70-130	1		20
1,2-Dibromoethane	96		100		70-130	4		20
1,3-Dichloropropane	101		97		70-130	4		20
1,1,1,2-Tetrachloroethane	105		106		70-130	1		20
Bromobenzene	107		106		70-130	1		20
n-Butylbenzene	104		108		70-130	4		20
sec-Butylbenzene	103		107		70-130	4		20
tert-Butylbenzene	102		105		70-130	3		20
o-Chlorotoluene	104		105		70-130	1		20
p-Chlorotoluene	101		117		70-130	15		20
1,2-Dibromo-3-chloropropane	104		100		70-130	4		20
Hexachlorobutadiene	98		106		70-130	8		20
Isopropylbenzene	100		104		70-130	4		20
p-Isopropyltoluene	104		107		70-130	3		20
Naphthalene	98		100		70-130	2		20
n-Propylbenzene	103		107		70-130	4		20
1,2,3-Trichlorobenzene	105		107		70-130	2		20

Lab Control Sample Analysis

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Project Name: RAYTHEON-WAYLAND

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Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
MCP Volatile Organics - Westborough Lab Associated sample(s): 02,08,11-14,16-18 Batch: WG436461-1 WG436461-2								
1,2,4-Trichlorobenzene	105		109		70-130	4		20
1,3,5-Trimethylbenzene	105		109		70-130	4		20
1,2,4-Trimethylbenzene	104		108		70-130	4		20
Ethyl ether	135	Q	128		70-130	5		20
Isopropyl Ether	102		102		70-130	0		20
Ethyl-Tert-Butyl-Ether	101		102		70-130	1		20
Tertiary-Amyl Methyl Ether	106		109		70-130	3		20
1,4-Dioxane	93		99		70-130	6		20

Surrogate	LCS		LCSD		Acceptance Criteria
	%Recovery	Qual	%Recovery	Qual	
1,2-Dichloroethane-d4	100		103		70-130
Toluene-d8	96		99		70-130
4-Bromofluorobenzene	93		89		70-130
Dibromofluoromethane	99		103		70-130

Lab Control Sample Analysis

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Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
MCP Volatile Organics - Westborough Lab Associated sample(s): 08-09,15 Batch: WG436461-6 WG436461-7								
Methylene chloride	101		83		70-130	20		20
1,1-Dichloroethane	92		79		70-130	15		20
Chloroform	90		93		70-130	3		20
Carbon tetrachloride	94		96		70-130	2		20
1,2-Dichloropropane	93		94		70-130	1		20
Dibromochloromethane	94		90		70-130	4		20
1,1,2-Trichloroethane	94		89		70-130	5		20
Tetrachloroethene	89		92		70-130	3		20
Chlorobenzene	88		90		70-130	2		20
Trichlorofluoromethane	106		111		70-130	5		20
1,2-Dichloroethane	102		104		70-130	2		20
1,1,1-Trichloroethane	96		99		70-130	3		20
Bromodichloromethane	100		99		70-130	1		20
trans-1,3-Dichloropropene	94		91		70-130	3		20
cis-1,3-Dichloropropene	87		88		70-130	1		20
1,1-Dichloropropene	93		98		70-130	5		20
Bromoform	108		108		70-130	0		20
1,1,2,2-Tetrachloroethane	109		106		70-130	3		20
Benzene	90		97		70-130	7		20
Toluene	87		91		70-130	4		20
Ethylbenzene	91		97		70-130	6		20

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Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
MCP Volatile Organics - Westborough Lab Associated sample(s): 08-09,15 Batch: WG436461-6 WG436461-7								
Chloromethane	80		83		70-130	4		20
Bromomethane	117		109		70-130	7		20
Vinyl chloride	85		90		70-130	6		20
Chloroethane	92		98		70-130	6		20
1,1-Dichloroethene	113		119		70-130	5		20
trans-1,2-Dichloroethene	90		73		70-130	21	Q	20
Trichloroethene	91		97		70-130	6		20
1,2-Dichlorobenzene	95		96		70-130	1		20
1,3-Dichlorobenzene	93		99		70-130	6		20
1,4-Dichlorobenzene	92		97		70-130	5		20
Methyl tert butyl ether	92		71		70-130	26	Q	20
p/m-Xylene	92		98		70-130	6		20
o-Xylene	91		95		70-130	4		20
cis-1,2-Dichloroethene	96		98		70-130	2		20
Dibromomethane	90		106		70-130	16		20
1,2,3-Trichloropropane	112		108		70-130	4		20
Styrene	90		94		70-130	4		20
Dichlorodifluoromethane	100		106		70-130	6		20
Acetone	117		102		70-130	14		20
Carbon disulfide	91		100		70-130	9		20
2-Butanone	126		115		70-130	9		20

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Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
MCP Volatile Organics - Westborough Lab Associated sample(s): 08-09,15 Batch: WG436461-6 WG436461-7								
4-Methyl-2-pentanone	109		101		70-130	8		20
2-Hexanone	112		98		70-130	13		20
Bromochloromethane	102		102		70-130	0		20
Tetrahydrofuran	102		94		70-130	8		20
2,2-Dichloropropane	94		99		70-130	5		20
1,2-Dibromoethane	99		94		70-130	5		20
1,3-Dichloropropane	97		95		70-130	2		20
1,1,1,2-Tetrachloroethane	101		100		70-130	1		20
Bromobenzene	96		102		70-130	6		20
n-Butylbenzene	96		100		70-130	4		20
sec-Butylbenzene	94		99		70-130	5		20
tert-Butylbenzene	94		98		70-130	4		20
o-Chlorotoluene	94		99		70-130	5		20
p-Chlorotoluene	104		110		70-130	6		20
1,2-Dibromo-3-chloropropane	114		110		70-130	4		20
Hexachlorobutadiene	90		96		70-130	6		20
Isopropylbenzene	92		96		70-130	4		20
p-Isopropyltoluene	97		101		70-130	4		20
Naphthalene	101		100		70-130	1		20
n-Propylbenzene	94		100		70-130	6		20
1,2,3-Trichlorobenzene	106		109		70-130	3		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: RAYTHEON-WAYLAND

Lab Number: L1015465

Project Number: 0114119

Report Date: 10/11/10

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
MCP Volatile Organics - Westborough Lab Associated sample(s): 08-09,15 Batch: WG436461-6 WG436461-7								
1,2,4-Trichlorobenzene	99		105		70-130	6		20
1,3,5-Trimethylbenzene	96		101		70-130	5		20
1,2,4-Trimethylbenzene	94		101		70-130	7		20
Ethyl ether	123		109		70-130	12		20
Isopropyl Ether	86		77		70-130	11		20
Ethyl-Tert-Butyl-Ether	91		88		70-130	3		20
Tertiary-Amyl Methyl Ether	96		96		70-130	0		20
1,4-Dioxane	110		89		70-130	21	Q	20

Surrogate	LCS		LCSD		Acceptance Criteria
	%Recovery	Qual	%Recovery	Qual	
1,2-Dichloroethane-d4	101		103		70-130
Toluene-d8	97		98		70-130
4-Bromofluorobenzene	94		92		70-130
Dibromofluoromethane	101		102		70-130

Matrix Spike Analysis

Batch Quality Control

Project Name: RAYTHEON-WAYLAND

Lab Number: L1015465

Project Number: 0114119

Report Date: 10/11/10

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics - Westborough Lab Associated sample(s): 02,08-09,11-18 QC Batch ID: WG436461-4 WG436461-5 QC Sample: L1015465-13												
Client ID: MW-551-20101004-01												
Methylene chloride	ND	25	27	109		27	110		70-130	0		20
1,1-Dichloroethane	ND	25	26	103		25	102		70-130	4		20
Chloroform	ND	25	25	99		24	98		70-130	4		20
Carbon tetrachloride	ND	25	26	102		25	101		70-130	4		20
1,2-Dichloropropane	ND	25	24	98		24	97		70-130	0		20
Dibromochloromethane	ND	25	23	92		24	98		70-130	4		20
1,1,2-Trichloroethane	ND	25	24	96		24	97		70-130	0		20
Tetrachloroethene	2.5	25	25	92		26	96		70-130	4		20
Chlorobenzene	ND	25	23	92		24	97		70-130	4		20
1,2-Dichloroethane	ND	25	28	110		27	110		70-130	4		20
1,1,1-Trichloroethane	ND	25	26	102		26	104		70-130	0		20
Bromodichloromethane	ND	25	26	106		27	108		70-130	4		20
trans-1,3-Dichloropropene	ND	25	22	90		24	95		70-130	9		20
cis-1,3-Dichloropropene	ND	25	21	82		21	85		70-130	0		20
Bromoform	ND	25	25	101		26	103		70-130	4		20
1,1,2,2-Tetrachloroethane	ND	25	27	108		28	112		70-130	4		20
Chloromethane	ND	25	23	94		23	92		70-130	0		20
Vinyl chloride	ND	25	25	100		25	99		70-130	0		20
Chloroethane	ND	25	24	97		24	95		70-130	0		20
1,1-Dichloroethene	ND	25	32	128		31	122		70-130	3		20
trans-1,2-Dichloroethene	ND	25	25	100		25	100		70-130	0		20

Matrix Spike Analysis Batch Quality Control

Project Name: RAYTHEON-WAYLAND
Project Number: 0114119

Lab Number: L1015465
Report Date: 10/11/10

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics - Westborough Lab Associated sample(s): 02,08-09,11-18 QC Batch ID: WG436461-4 WG436461-5 QC Sample: L1015465-13 Client ID: MW-551-20101004-01												
Trichloroethene	120	25	120	17	Q	120	10	Q	70-130	0		20
1,2-Dichlorobenzene	ND	25	24	97		25	100		70-130	4		20
1,3-Dichlorobenzene	ND	25	25	100		25	100		70-130	0		20
1,4-Dichlorobenzene	ND	25	24	98		24	98		70-130	0		20
cis-1,2-Dichloroethene	ND	25	27	108		26	106		70-130	4		20
Dichlorodifluoromethane	ND	25	28	112		28	113		70-130	0		20
1,2-Dibromoethane	ND	25	22	90		24	97		70-130	9		20
1,3-Dichloropropane	ND	25	24	98		24	98		70-130	0		20
1,1,1,2-Tetrachloroethane	ND	25	25	101		26	105		70-130	4		20
o-Chlorotoluene	ND	25	22	87		22	88		70-130	0		20
p-Chlorotoluene	ND	25	25	102		25	99		70-130	0		20
Hexachlorobutadiene	ND	25	24	95		24	97		70-130	0		20
1,2,4-Trichlorobenzene	ND	25	22	90		23	93		70-130	4		20

Surrogate	MS		MSD		Acceptance Criteria
	% Recovery	Qualifier	% Recovery	Qualifier	
1,2-Dichloroethane-d4	104		104		70-130
4-Bromofluorobenzene	90		91		70-130
Dibromofluoromethane	106		102		70-130
Toluene-d8	96		101		70-130

METALS

Project Name: RAYTHEON-WAYLAND**Lab Number:** L1015465**Project Number:** 0114119**Report Date:** 10/11/10**SAMPLE RESULTS**

Lab ID: L1015465-01

Date Collected: 10/04/10 09:00

Client ID: MW-265M-20101004-01

Date Received: 10/04/10

Sample Location: WAYLAND, MA

Field Prep: See Narrative

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
MCP Dissolved Metals - Westborough Lab											
Potassium, Dissolved	3.5		mg/l	2.5	--	1	10/07/10 14:00	10/09/10 16:00	EPA 3005A	97,6010B	AI
Sodium, Dissolved	14		mg/l	2.0	--	1	10/07/10 14:00	10/09/10 16:00	EPA 3005A	97,6010B	AI



Project Name: RAYTHEON-WAYLAND**Lab Number:** L1015465**Project Number:** 0114119**Report Date:** 10/11/10**SAMPLE RESULTS**

Lab ID: L1015465-02

Date Collected: 10/04/10 15:25

Client ID: IW-2-20101004-01

Date Received: 10/04/10

Sample Location: WAYLAND, MA

Field Prep: See Narrative

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
MCP Dissolved Metals - Westborough Lab											
Potassium, Dissolved	9.1		mg/l	2.5	--	1	10/07/10 14:00	10/09/10 15:06	EPA 3005A	97,6010B	AI
Sodium, Dissolved	26		mg/l	2.0	--	1	10/07/10 14:00	10/09/10 15:06	EPA 3005A	97,6010B	AI



Project Name: RAYTHEON-WAYLAND**Lab Number:** L1015465**Project Number:** 0114119**Report Date:** 10/11/10**SAMPLE RESULTS**

Lab ID: L1015465-03

Date Collected: 10/04/10 10:30

Client ID: IW-15-20101004-01

Date Received: 10/04/10

Sample Location: WAYLAND, MA

Field Prep: See Narrative

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
MCP Dissolved Metals - Westborough Lab											
Potassium, Dissolved	42		mg/l	2.5	--	1	10/07/10 14:00	10/09/10 15:10	EPA 3005A	97,6010B	AI
Sodium, Dissolved	19		mg/l	2.0	--	1	10/07/10 14:00	10/09/10 15:10	EPA 3005A	97,6010B	AI



Project Name: RAYTHEON-WAYLAND**Lab Number:** L1015465**Project Number:** 0114119**Report Date:** 10/11/10**SAMPLE RESULTS**

Lab ID: L1015465-04

Date Collected: 10/04/10 11:55

Client ID: IW-17-20101004-01

Date Received: 10/04/10

Sample Location: WAYLAND, MA

Field Prep: See Narrative

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
MCP Dissolved Metals - Westborough Lab											
Potassium, Dissolved	34		mg/l	2.5	--	1	10/07/10 14:00	10/09/10 15:13	EPA 3005A	97,6010B	AI
Sodium, Dissolved	27		mg/l	2.0	--	1	10/07/10 14:00	10/09/10 15:13	EPA 3005A	97,6010B	AI



Project Name: RAYTHEON-WAYLAND**Lab Number:** L1015465**Project Number:** 0114119**Report Date:** 10/11/10**SAMPLE RESULTS**

Lab ID: L1015465-05

Date Collected: 10/04/10 13:40

Client ID: IW-18-20101004-01

Date Received: 10/04/10

Sample Location: WAYLAND, MA

Field Prep: See Narrative

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
MCP Dissolved Metals - Westborough Lab											
Potassium, Dissolved	87		mg/l	2.5	--	1	10/07/10 14:00	10/09/10 15:16	EPA 3005A	97,6010B	AI
Sodium, Dissolved	15		mg/l	2.0	--	1	10/07/10 14:00	10/09/10 15:16	EPA 3005A	97,6010B	AI



Project Name: RAYTHEON-WAYLAND**Lab Number:** L1015465**Project Number:** 0114119**Report Date:** 10/11/10**SAMPLE RESULTS**

Lab ID: L1015465-06

Date Collected: 10/04/10 14:00

Client ID: MW-266MA-20101004-01

Date Received: 10/04/10

Sample Location: WAYLAND, MA

Field Prep: See Narrative

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
MCP Dissolved Metals - Westborough Lab											
Potassium, Dissolved	5.8		mg/l	2.5	--	1	10/07/10 14:00	10/09/10 15:20	EPA 3005A	97,6010B	AI
Sodium, Dissolved	33		mg/l	2.0	--	1	10/07/10 14:00	10/09/10 15:20	EPA 3005A	97,6010B	AI



Project Name: RAYTHEON-WAYLAND**Lab Number:** L1015465**Project Number:** 0114119**Report Date:** 10/11/10**SAMPLE RESULTS**

Lab ID: L1015465-07

Date Collected: 10/04/10 12:10

Client ID: MW-266MB-20101004-01

Date Received: 10/04/10

Sample Location: WAYLAND, MA

Field Prep: See Narrative

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
MCP Dissolved Metals - Westborough Lab											
Potassium, Dissolved	4.1		mg/l	2.5	--	1	10/07/10 14:00	10/09/10 15:23	EPA 3005A	97,6010B	AI
Sodium, Dissolved	14		mg/l	2.0	--	1	10/07/10 14:00	10/09/10 15:23	EPA 3005A	97,6010B	AI



Project Name: RAYTHEON-WAYLAND**Lab Number:** L1015465**Project Number:** 0114119**Report Date:** 10/11/10**SAMPLE RESULTS**

Lab ID: L1015465-11

Date Collected: 10/04/10 10:20

Client ID: IW-5-20101004-01

Date Received: 10/04/10

Sample Location: WAYLAND, MA

Field Prep: See Narrative

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
MCP Dissolved Metals - Westborough Lab											
Potassium, Dissolved	50		mg/l	2.5	--	1	10/07/10 14:00	10/09/10 15:26	EPA 3005A	97,6010B	AI
Sodium, Dissolved	21		mg/l	2.0	--	1	10/07/10 14:00	10/09/10 15:26	EPA 3005A	97,6010B	AI



Project Name: RAYTHEON-WAYLAND**Lab Number:** L1015465**Project Number:** 0114119**Report Date:** 10/11/10**SAMPLE RESULTS**

Lab ID: L1015465-12

Date Collected: 10/04/10 09:10

Client ID: IW-8-20101004-01

Date Received: 10/04/10

Sample Location: WAYLAND, MA

Field Prep: See Narrative

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
MCP Dissolved Metals - Westborough Lab											
Potassium, Dissolved	4.2		mg/l	2.5	--	1	10/07/10 14:00	10/09/10 15:29	EPA 3005A	97,6010B	AI
Sodium, Dissolved	22		mg/l	2.0	--	1	10/07/10 14:00	10/09/10 15:29	EPA 3005A	97,6010B	AI



Project Name: RAYTHEON-WAYLAND**Lab Number:** L1015465**Project Number:** 0114119**Report Date:** 10/11/10**SAMPLE RESULTS**

Lab ID: L1015465-13

Date Collected: 10/04/10 13:00

Client ID: MW-551-20101004-01

Date Received: 10/04/10

Sample Location: WAYLAND, MA

Field Prep: See Narrative

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
MCP Dissolved Metals - Westborough Lab											
Potassium, Dissolved	3.0		mg/l	2.5	--	1	10/07/10 14:00	10/09/10 15:43	EPA 3005A	97,6010B	AI
Sodium, Dissolved	14		mg/l	2.0	--	1	10/07/10 14:00	10/09/10 15:43	EPA 3005A	97,6010B	AI



Project Name: RAYTHEON-WAYLAND
Project Number: 0114119

Lab Number: L1015465
Report Date: 10/11/10

SAMPLE RESULTS

Lab ID: L1015465-14
 Client ID: MW-552-20101004-01
 Sample Location: WAYLAND, MA
 Matrix: Water

Date Collected: 10/04/10 10:40
 Date Received: 10/04/10
 Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
MCP Dissolved Metals - Westborough Lab											
Potassium, Dissolved	ND		mg/l	2.5	--	1	10/07/10 14:00	10/09/10 15:47	EPA 3005A	97,6010B	AI
Sodium, Dissolved	12		mg/l	2.0	--	1	10/07/10 14:00	10/09/10 15:47	EPA 3005A	97,6010B	AI



Project Name: RAYTHEON-WAYLAND**Lab Number:** L1015465**Project Number:** 0114119**Report Date:** 10/11/10**SAMPLE RESULTS**

Lab ID: L1015465-15

Date Collected: 10/04/10 09:10

Client ID: MW-553-20101004-01

Date Received: 10/04/10

Sample Location: WAYLAND, MA

Field Prep: See Narrative

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
MCP Dissolved Metals - Westborough Lab											
Potassium, Dissolved	13		mg/l	2.5	--	1	10/07/10 14:00	10/09/10 15:50	EPA 3005A	97,6010B	AI
Sodium, Dissolved	17		mg/l	2.0	--	1	10/07/10 14:00	10/09/10 15:50	EPA 3005A	97,6010B	AI



Project Name: RAYTHEON-WAYLAND**Lab Number:** L1015465**Project Number:** 0114119**Report Date:** 10/11/10**SAMPLE RESULTS**

Lab ID: L1015465-16

Date Collected: 10/04/10 11:40

Client ID: MW-261S-20101004-01

Date Received: 10/04/10

Sample Location: WAYLAND, MA

Field Prep: See Narrative

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
MCP Dissolved Metals - Westborough Lab											
Potassium, Dissolved	ND		mg/l	2.5	--	1	10/07/10 14:00	10/09/10 15:53	EPA 3005A	97,6010B	AI
Sodium, Dissolved	12		mg/l	2.0	--	1	10/07/10 14:00	10/09/10 15:53	EPA 3005A	97,6010B	AI



Project Name: RAYTHEON-WAYLAND**Lab Number:** L1015465**Project Number:** 0114119**Report Date:** 10/11/10**SAMPLE RESULTS**

Lab ID: L1015465-17

Date Collected: 10/04/10 15:00

Client ID: MW-561-20101004-01

Date Received: 10/04/10

Sample Location: WAYLAND, MA

Field Prep: See Narrative

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
MCP Dissolved Metals - Westborough Lab											
Potassium, Dissolved	4.2		mg/l	2.5	--	1	10/07/10 14:00	10/09/10 15:57	EPA 3005A	97,6010B	AI
Sodium, Dissolved	17		mg/l	2.0	--	1	10/07/10 14:00	10/09/10 15:57	EPA 3005A	97,6010B	AI



Project Name: RAYTHEON-WAYLAND

Lab Number: L1015465

Project Number: 0114119

Report Date: 10/11/10

Method Blank Analysis Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
MCP Dissolved Metals - Westborough Lab for sample(s): 01-07,11-17 Batch: WG436288-1										
Potassium, Dissolved	ND		mg/l	2.5	--	1	10/07/10 14:00	10/09/10 14:34	97,6010B	AI
Sodium, Dissolved	ND		mg/l	2.0	--	1	10/07/10 14:00	10/09/10 14:34	97,6010B	AI

Prep Information

Digestion Method: EPA 3005A

Lab Control Sample Analysis Batch Quality Control

Project Name: RAYTHEON-WAYLAND
Project Number: 0114119

Lab Number: L1015465
Report Date: 10/11/10

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Dissolved Metals - Westborough Lab Associated sample(s): 01-07,11-17 Batch: WG436288-2 WG436288-3								
Potassium, Dissolved	98		98		80-120	0		20
Sodium, Dissolved	100		100		80-120	0		20

INORGANICS & MISCELLANEOUS

Project Name: RAYTHEON-WAYLAND

Lab Number: L1015465

Project Number: 0114119

Report Date: 10/11/10

SAMPLE RESULTS

Lab ID: L1015465-01
 Client ID: MW-265M-20101004-01
 Sample Location: WAYLAND, MA
 Matrix: Water

Date Collected: 10/04/10 09:00
 Date Received: 10/04/10
 Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Sulfate	28		mg/l	10	--	1	10/08/10 11:00	10/08/10 11:00	30,450SO4-E	AW
Total Organic Carbon	3.2		mg/l	1.0	--	2	-	10/05/10 07:38	1,9060	DW



Project Name: RAYTHEON-WAYLAND

Lab Number: L1015465

Project Number: 0114119

Report Date: 10/11/10

SAMPLE RESULTS

Lab ID: L1015465-02
 Client ID: IW-2-20101004-01
 Sample Location: WAYLAND, MA
 Matrix: Water

Date Collected: 10/04/10 15:25
 Date Received: 10/04/10
 Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Sulfate	41		mg/l	20	--	2	10/08/10 11:00	10/08/10 11:00	30,450SO4-E	AW
Total Organic Carbon	2.6		mg/l	1.0	--	2	-	10/05/10 07:38	1,9060	DW



Project Name: RAYTHEON-WAYLAND

Lab Number: L1015465

Project Number: 0114119

Report Date: 10/11/10

SAMPLE RESULTS

Lab ID: L1015465-03
 Client ID: IW-15-20101004-01
 Sample Location: WAYLAND, MA
 Matrix: Water

Date Collected: 10/04/10 10:30
 Date Received: 10/04/10
 Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Sulfate	46		mg/l	20	--	2	10/08/10 11:00	10/08/10 11:00	30,450SO4-E	AW
Total Organic Carbon	2.7		mg/l	1.0	--	2	-	10/05/10 07:38	1,9060	DW



Project Name: RAYTHEON-WAYLAND

Lab Number: L1015465

Project Number: 0114119

Report Date: 10/11/10

SAMPLE RESULTS

Lab ID: L1015465-04
 Client ID: IW-17-20101004-01
 Sample Location: WAYLAND, MA
 Matrix: Water

Date Collected: 10/04/10 11:55
 Date Received: 10/04/10
 Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Sulfate	35		mg/l	10	--	1	10/08/10 11:00	10/08/10 11:00	30,450SO4-E	AW
Total Organic Carbon	12		mg/l	1.0	--	2	-	10/06/10 07:41	1,9060	DW



Project Name: RAYTHEON-WAYLAND

Lab Number: L1015465

Project Number: 0114119

Report Date: 10/11/10

SAMPLE RESULTS

Lab ID: L1015465-05
 Client ID: IW-18-20101004-01
 Sample Location: WAYLAND, MA
 Matrix: Water

Date Collected: 10/04/10 13:40
 Date Received: 10/04/10
 Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Sulfate	ND		mg/l	10	--	1	10/08/10 11:00	10/08/10 11:00	30,450SO4-E	AW
Total Organic Carbon	2.2		mg/l	1.0	--	2	-	10/06/10 07:41	1,9060	DW



Project Name: RAYTHEON-WAYLAND

Lab Number: L1015465

Project Number: 0114119

Report Date: 10/11/10

SAMPLE RESULTS

Lab ID: L1015465-06
 Client ID: MW-266MA-20101004-01
 Sample Location: WAYLAND, MA
 Matrix: Water

Date Collected: 10/04/10 14:00
 Date Received: 10/04/10
 Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Sulfate	32		mg/l	10	--	1	10/08/10 11:00	10/08/10 11:00	30,450SO4-E	AW
Total Organic Carbon	1.0		mg/l	0.50	--	1	-	10/06/10 07:41	1,9060	DW



Project Name: RAYTHEON-WAYLAND

Lab Number: L1015465

Project Number: 0114119

Report Date: 10/11/10

SAMPLE RESULTS

Lab ID: L1015465-07
 Client ID: MW-266MB-20101004-01
 Sample Location: WAYLAND, MA
 Matrix: Water

Date Collected: 10/04/10 12:10
 Date Received: 10/04/10
 Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Sulfate	26		mg/l	10	--	1	10/08/10 11:00	10/08/10 11:00	30,450SO4-E	AW
Total Organic Carbon	1.2		mg/l	0.50	--	1	-	10/06/10 07:41	1,9060	DW



Project Name: RAYTHEON-WAYLAND

Lab Number: L1015465

Project Number: 0114119

Report Date: 10/11/10

SAMPLE RESULTS

Lab ID: L1015465-11
 Client ID: IW-5-20101004-01
 Sample Location: WAYLAND, MA
 Matrix: Water

Date Collected: 10/04/10 10:20
 Date Received: 10/04/10
 Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Sulfate	18		mg/l	10	--	1	10/08/10 11:00	10/08/10 11:00	30,450SO4-E	AW
Total Organic Carbon	22		mg/l	2.0	--	4	-	10/06/10 07:41	1,9060	DW



Project Name: RAYTHEON-WAYLAND

Lab Number: L1015465

Project Number: 0114119

Report Date: 10/11/10

SAMPLE RESULTS

Lab ID: L1015465-12
 Client ID: IW-8-20101004-01
 Sample Location: WAYLAND, MA
 Matrix: Water

Date Collected: 10/04/10 09:10
 Date Received: 10/04/10
 Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Sulfate	57		mg/l	25	--	2.5	10/08/10 11:00	10/08/10 11:00	30,450SO4-E	AW
Total Organic Carbon	1.5		mg/l	1.0	--	2	-	10/06/10 07:41	1,9060	DW



Project Name: RAYTHEON-WAYLAND

Lab Number: L1015465

Project Number: 0114119

Report Date: 10/11/10

SAMPLE RESULTS

Lab ID: L1015465-13
 Client ID: MW-551-20101004-01
 Sample Location: WAYLAND, MA
 Matrix: Water

Date Collected: 10/04/10 13:00
 Date Received: 10/04/10
 Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Sulfate	31		mg/l	10	--	1	10/08/10 11:00	10/08/10 11:00	30,450SO4-E	AW
Total Organic Carbon	1.1		mg/l	1.0	--	2	-	10/06/10 07:41	1,9060	DW



Project Name: RAYTHEON-WAYLAND

Lab Number: L1015465

Project Number: 0114119

Report Date: 10/11/10

SAMPLE RESULTS

Lab ID: L1015465-14
 Client ID: MW-552-20101004-01
 Sample Location: WAYLAND, MA
 Matrix: Water

Date Collected: 10/04/10 10:40
 Date Received: 10/04/10
 Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Sulfate	30		mg/l	10	--	1	10/08/10 11:00	10/08/10 11:00	30,450SO4-E	AW
Total Organic Carbon	1.3		mg/l	0.50	--	1	-	10/06/10 07:41	1,9060	DW



Project Name: RAYTHEON-WAYLAND

Lab Number: L1015465

Project Number: 0114119

Report Date: 10/11/10

SAMPLE RESULTS

Lab ID: L1015465-15
 Client ID: MW-553-20101004-01
 Sample Location: WAYLAND, MA
 Matrix: Water

Date Collected: 10/04/10 09:10
 Date Received: 10/04/10
 Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Sulfate	16		mg/l	10	--	1	10/08/10 11:00	10/08/10 11:00	30,450SO4-E	AW
Total Organic Carbon	1.3		mg/l	1.0	--	2	-	10/06/10 07:41	1,9060	DW



Project Name: RAYTHEON-WAYLAND

Lab Number: L1015465

Project Number: 0114119

Report Date: 10/11/10

SAMPLE RESULTS

Lab ID: L1015465-16

Date Collected: 10/04/10 11:40

Client ID: MW-261S-20101004-01

Date Received: 10/04/10

Sample Location: WAYLAND, MA

Field Prep: See Narrative

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Sulfate	28		mg/l	10	--	1	10/08/10 11:00	10/08/10 11:00	30,450SO4-E	AW
Total Organic Carbon	1.3		mg/l	1.0	--	2	-	10/06/10 07:41	1,9060	DW



Project Name: RAYTHEON-WAYLAND

Lab Number: L1015465

Project Number: 0114119

Report Date: 10/11/10

SAMPLE RESULTS

Lab ID: L1015465-17
 Client ID: MW-561-20101004-01
 Sample Location: WAYLAND, MA
 Matrix: Water

Date Collected: 10/04/10 15:00
 Date Received: 10/04/10
 Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Sulfate	17		mg/l	10	--	1	10/08/10 11:00	10/08/10 11:00	30,450SO4-E	AW
Total Organic Carbon	9.9		mg/l	1.0	--	2	-	10/06/10 07:41	1,9060	DW



Project Name: RAYTHEON-WAYLAND

Lab Number: L1015465

Project Number: 0114119

Report Date: 10/11/10

Method Blank Analysis
Batch Quality Control

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 01-03 Batch: WG435806-1									
Total Organic Carbon	ND	mg/l	0.50	--	1	-	10/05/10 07:38	1,9060	DW
General Chemistry - Westborough Lab for sample(s): 04-07,11-17 Batch: WG436019-1									
Total Organic Carbon	ND	mg/l	0.50	--	1	-	10/06/10 07:41	1,9060	DW
General Chemistry - Westborough Lab for sample(s): 01-07,11-17 Batch: WG436468-1									
Sulfate	ND	mg/l	10	--	1	10/08/10 11:00	10/08/10 11:00	30,4500SO4-E	AW

Lab Control Sample Analysis

Batch Quality Control

Project Name: RAYTHEON-WAYLAND

Lab Number: L1015465

Project Number: 0114119

Report Date: 10/11/10

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
General Chemistry - Westborough Lab Associated sample(s): 01-03 Batch: WG435806-2								
Total Organic Carbon	98		-		90-110	-		
General Chemistry - Westborough Lab Associated sample(s): 04-07,11-17 Batch: WG436019-2								
Total Organic Carbon	98		-		90-110	-		
General Chemistry - Westborough Lab Associated sample(s): 01-07,11-17 Batch: WG436468-2								
Sulfate	95		-		90-115	-		

Matrix Spike Analysis Batch Quality Control

Project Name: RAYTHEON-WAYLAND

Lab Number: L1015465

Project Number: 0114119

Report Date: 10/11/10

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Qual	MSD Found	MSD %Recovery	MSD Qual	Recovery Limits	RPD	RPD Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG435806-3 QC Sample: L1014942-03 Client ID: MS Sample												
Total Organic Carbon	150	256	410	101	-	-	-	-	80-120	-	-	20
General Chemistry - Westborough Lab Associated sample(s): 04-07,11-17 QC Batch ID: WG436019-3 QC Sample: L1015372-04 Client ID: MS Sample												
Total Organic Carbon	ND	80	87	109	-	-	-	-	80-120	-	-	20
General Chemistry - Westborough Lab Associated sample(s): 01-07,11-17 QC Batch ID: WG436468-4 QC Sample: L1015465-13 Client ID: MW-551-20101004-01												
Sulfate	31	40	71	100	-	-	-	-	55-147	-	-	14

Lab Duplicate Analysis

Batch Quality Control

Project Name: RAYTHEON-WAYLAND

Project Number: 0114119

Lab Number: L1015465

Report Date: 10/11/10

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG435806-4 QC Sample: L1014942-03 Client ID: DUP Sample						
Total Organic Carbon	150	150	mg/l	0		20
General Chemistry - Westborough Lab Associated sample(s): 04-07,11-17 QC Batch ID: WG436019-4 QC Sample: L1015372-04 Client ID: DUP Sample						
Total Organic Carbon	ND	ND	mg/l	NC		20
General Chemistry - Westborough Lab Associated sample(s): 01-07,11-17 QC Batch ID: WG436468-3 QC Sample: L1015465-13 Client ID: MW-551-20101004-01						
Sulfate	31	30	mg/l	3		14

Project Name: RAYTHEON-WAYLAND

Lab Number: L1015465

Project Number: 0114119

Report Date: 10/11/10

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: NA

Cooler Information Custody Seal

Cooler

A Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1015465-01A	Vial HCl preserved	A	N/A	2	Y	Absent	MCP-8260-10(14)
L1015465-01B	Vial HCl preserved	A	N/A	2	Y	Absent	MCP-8260-10(14)
L1015465-01C	Vial H2SO4 preserved	A	N/A	2	Y	Absent	TOC-9060(28)
L1015465-01D	Vial H2SO4 preserved	A	N/A	2	Y	Absent	TOC-9060(28)
L1015465-01E	Plastic 250ml unpreserved	A	7	2	Y	Absent	SO4-4500(28)
L1015465-01F	Plastic 250ml HNO3 preserved	A	<2	2	Y	Absent	MCP-NA-6010S-10(180),MCP-K-6010S-10(180)
L1015465-02A	Vial HCl preserved	A	N/A	2	Y	Absent	MCP-8260-10(14)
L1015465-02B	Vial HCl preserved	A	N/A	2	Y	Absent	MCP-8260-10(14)
L1015465-02C	Vial H2SO4 preserved	A	N/A	2	Y	Absent	TOC-9060(28)
L1015465-02D	Vial H2SO4 preserved	A	N/A	2	Y	Absent	TOC-9060(28)
L1015465-02E	Plastic 250ml unpreserved	A	7	2	Y	Absent	SO4-4500(28)
L1015465-02F	Plastic 250ml HNO3 preserved	A	<2	2	Y	Absent	MCP-NA-6010S-10(180),MCP-K-6010S-10(180)
L1015465-03A	Vial HCl preserved	A	N/A	2	Y	Absent	MCP-8260-10(14)
L1015465-03B	Vial HCl preserved	A	N/A	2	Y	Absent	MCP-8260-10(14)
L1015465-03C	Vial H2SO4 preserved	A	N/A	2	Y	Absent	TOC-9060(28)
L1015465-03D	Vial H2SO4 preserved	A	N/A	2	Y	Absent	TOC-9060(28)
L1015465-03E	Plastic 250ml unpreserved	A	7	2	Y	Absent	SO4-4500(28)
L1015465-03F	Plastic 250ml HNO3 preserved	A	<2	2	Y	Absent	MCP-NA-6010S-10(180),MCP-K-6010S-10(180)
L1015465-04A	Vial HCl preserved	A	N/A	2	Y	Absent	MCP-8260-10(14)
L1015465-04B	Vial HCl preserved	A	N/A	2	Y	Absent	MCP-8260-10(14)
L1015465-04C	Vial H2SO4 preserved	A	N/A	2	Y	Absent	TOC-9060(28)
L1015465-04D	Vial H2SO4 preserved	A	N/A	2	Y	Absent	TOC-9060(28)
L1015465-04E	Plastic 250ml unpreserved	A	7	2	Y	Absent	SO4-4500(28)
L1015465-04F	Plastic 250ml HNO3 preserved	A	<2	2	Y	Absent	MCP-NA-6010S-10(180),MCP-K-6010S-10(180)
L1015465-05A	Vial HCl preserved	A	N/A	2	Y	Absent	MCP-8260-10(14)

*Values in parentheses indicate holding time in days



Project Name: RAYTHEON-WAYLAND

Project Number: 0114119

Lab Number: L1015465

Report Date: 10/11/10

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1015465-05B	Vial HCl preserved	A	N/A	2	Y	Absent	MCP-8260-10(14)
L1015465-05C	Vial H2SO4 preserved	A	N/A	2	Y	Absent	TOC-9060(28)
L1015465-05D	Vial H2SO4 preserved	A	N/A	2	Y	Absent	TOC-9060(28)
L1015465-05E	Plastic 250ml unpreserved	A	7	2	Y	Absent	SO4-4500(28)
L1015465-05F	Plastic 250ml HNO3 preserved	A	<2	2	Y	Absent	MCP-NA-6010S-10(180),MCP-K-6010S-10(180)
L1015465-06A	Vial HCl preserved	A	N/A	2	Y	Absent	MCP-8260-10(14)
L1015465-06B	Vial HCl preserved	A	N/A	2	Y	Absent	MCP-8260-10(14)
L1015465-06C	Vial H2SO4 preserved	A	N/A	2	Y	Absent	TOC-9060(28)
L1015465-06D	Vial H2SO4 preserved	A	N/A	2	Y	Absent	TOC-9060(28)
L1015465-06E	Plastic 250ml unpreserved	A	7	2	Y	Absent	SO4-4500(28)
L1015465-06F	Plastic 250ml HNO3 preserved	A	<2	2	Y	Absent	MCP-NA-6010S-10(180),MCP-K-6010S-10(180)
L1015465-07A	Vial HCl preserved	A	N/A	2	Y	Absent	MCP-8260-10(14)
L1015465-07B	Vial HCl preserved	A	N/A	2	Y	Absent	MCP-8260-10(14)
L1015465-07C	Vial H2SO4 preserved	A	N/A	2	Y	Absent	TOC-9060(28)
L1015465-07D	Vial H2SO4 preserved	A	N/A	2	Y	Absent	TOC-9060(28)
L1015465-07E	Plastic 250ml unpreserved	A	7	2	Y	Absent	SO4-4500(28)
L1015465-07F	Plastic 250ml HNO3 preserved	A	<2	2	Y	Absent	MCP-NA-6010S-10(180),MCP-K-6010S-10(180)
L1015465-08A	Vial HCl preserved	A	N/A	2	Y	Absent	MCP-8260-10(14)
L1015465-08B	Vial HCl preserved	A	N/A	2	Y	Absent	MCP-8260-10(14)
L1015465-09A	Vial HCl preserved	A	N/A	2	Y	Absent	MCP-8260-10(14)
L1015465-09B	Vial HCl preserved	A	N/A	2	Y	Absent	MCP-8260-10(14)
L1015465-10A	Vial HCl preserved	A	N/A	2	Y	Absent	MCP-8260-10(14)
L1015465-11A	Vial HCl preserved	A	N/A	2	Y	Absent	MCP-8260-10(14)
L1015465-11B	Vial HCl preserved	A	N/A	2	Y	Absent	MCP-8260-10(14)
L1015465-11C	Vial H2SO4 preserved	A	N/A	2	Y	Absent	TOC-9060(28)
L1015465-11D	Vial H2SO4 preserved	A	N/A	2	Y	Absent	TOC-9060(28)
L1015465-11E	Plastic 250ml unpreserved	A	7	2	Y	Absent	SO4-4500(28)
L1015465-11F	Plastic 250ml HNO3 preserved	A	<2	2	Y	Absent	MCP-NA-6010S-10(180),MCP-K-6010S-10(180)
L1015465-12A	Vial HCl preserved	A	N/A	2	Y	Absent	MCP-8260-10(14)
L1015465-12B	Vial HCl preserved	A	N/A	2	Y	Absent	MCP-8260-10(14)
L1015465-12C	Vial H2SO4 preserved	A	N/A	2	Y	Absent	TOC-9060(28)
L1015465-12D	Vial H2SO4 preserved	A	N/A	2	Y	Absent	TOC-9060(28)
L1015465-12E	Plastic 250ml unpreserved	A	7	2	Y	Absent	SO4-4500(28)
L1015465-12F	Plastic 250ml HNO3 preserved	A	<2	2	Y	Absent	MCP-NA-6010S-10(180),MCP-K-6010S-10(180)

*Values in parentheses indicate holding time in days



Project Name: RAYTHEON-WAYLAND

Project Number: 0114119

Lab Number: L1015465

Report Date: 10/11/10

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1015465-13A	Vial HCl preserved	A	N/A	2	Y	Absent	MCP-8260-10(14)
L1015465-13B	Vial HCl preserved	A	N/A	2	Y	Absent	MCP-8260-10(14)
L1015465-13C	Vial H2SO4 preserved	A	N/A	2	Y	Absent	TOC-9060(28)
L1015465-13D	Vial H2SO4 preserved	A	N/A	2	Y	Absent	TOC-9060(28)
L1015465-13E	Plastic 250ml unpreserved	A	7	2	Y	Absent	SO4-4500(28)
L1015465-13F	Plastic 250ml HNO3 preserved	A	<2	2	Y	Absent	MCP-NA-6010S-10(180),MCP-K-6010S-10(180)
L1015465-13G	Vial HCl preserved	A	N/A	2	Y	Absent	MCP-8260-10(14)
L1015465-13H	Vial HCl preserved	A	N/A	2	Y	Absent	MCP-8260-10(14)
L1015465-13I	Vial HCl preserved	A	N/A	2	Y	Absent	MCP-8260-10(14)
L1015465-13J	Vial HCl preserved	A	N/A	2	Y	Absent	MCP-8260-10(14)
L1015465-14A	Vial HCl preserved	A	N/A	2	Y	Absent	MCP-8260-10(14)
L1015465-14B	Vial HCl preserved	A	N/A	2	Y	Absent	MCP-8260-10(14)
L1015465-14C	Vial H2SO4 preserved	A	N/A	2	Y	Absent	TOC-9060(28)
L1015465-14D	Vial H2SO4 preserved	A	N/A	2	Y	Absent	TOC-9060(28)
L1015465-14E	Plastic 250ml unpreserved	A	7	2	Y	Absent	SO4-4500(28)
L1015465-14F	Plastic 250ml HNO3 preserved	A	<2	2	Y	Absent	MCP-NA-6010S-10(180),MCP-K-6010S-10(180)
L1015465-15A	Vial HCl preserved	A	N/A	2	Y	Absent	MCP-8260-10(14)
L1015465-15B	Vial HCl preserved	A	N/A	2	Y	Absent	MCP-8260-10(14)
L1015465-15C	Vial H2SO4 preserved	A	N/A	2	Y	Absent	TOC-9060(28)
L1015465-15D	Vial H2SO4 preserved	A	N/A	2	Y	Absent	TOC-9060(28)
L1015465-15E	Plastic 250ml unpreserved	A	7	2	Y	Absent	SO4-4500(28)
L1015465-15F	Plastic 250ml HNO3 preserved	A	<2	2	Y	Absent	MCP-NA-6010S-10(180),MCP-K-6010S-10(180)
L1015465-16A	Vial HCl preserved	A	N/A	2	Y	Absent	MCP-8260-10(14)
L1015465-16B	Vial HCl preserved	A	N/A	2	Y	Absent	MCP-8260-10(14)
L1015465-16C	Vial H2SO4 preserved	A	N/A	2	Y	Absent	TOC-9060(28)
L1015465-16D	Vial H2SO4 preserved	A	N/A	2	Y	Absent	TOC-9060(28)
L1015465-16E	Plastic 250ml unpreserved	A	7	2	Y	Absent	SO4-4500(28)
L1015465-16F	Plastic 250ml HNO3 preserved	A	<2	2	Y	Absent	MCP-NA-6010S-10(180),MCP-K-6010S-10(180)
L1015465-17A	Vial HCl preserved	A	N/A	2	Y	Absent	MCP-8260-10(14)
L1015465-17B	Vial HCl preserved	A	N/A	2	Y	Absent	MCP-8260-10(14)
L1015465-17C	Vial H2SO4 preserved	A	N/A	2	Y	Absent	TOC-9060(28)
L1015465-17D	Vial H2SO4 preserved	A	N/A	2	Y	Absent	TOC-9060(28)
L1015465-17E	Plastic 250ml unpreserved	A	7	2	Y	Absent	SO4-4500(28)
L1015465-17F	Plastic 250ml HNO3 preserved	A	<2	2	Y	Absent	MCP-NA-6010S-10(180),MCP-K-6010S-10(180)

*Values in parentheses indicate holding time in days



Project Name: RAYTHEON-WAYLAND**Project Number:** 0114119**Lab Number:** L1015465**Report Date:** 10/11/10**Container Information**

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1015465-18A	Vial HCl preserved	A	N/A	2	Y	Absent	MCP-8260-10(14)
L1015465-18B	Vial HCl preserved	A	N/A	2	Y	Absent	MCP-8260-10(14)

Project Name: RAYTHEON-WAYLAND
Project Number: 0114119

Lab Number: L1015465
Report Date: 10/11/10

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.
MDL	-Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	-Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	-Matrix Spike Sample Duplicate: Refer to MS.
NA	-Not Applicable.
NC	-Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NI	-Not Ignitable.
RL	-Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	-Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

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

A	-Spectra identified as "Aldol Condensation Product".
B	-The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than five times (5x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank.
D	-Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
E	-Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
H	-The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
I	-The RPD between the results for the two columns exceeds the method-specified criteria; however, the lower value has been reported due to obvious interference.
P	-The RPD between the results for the two columns exceeds the method-specified criteria.
Q	-The quality control sample exceeds the associated acceptance criteria. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
R	-Analytical results are from sample re-analysis.

Report Format: Data Usability Report



Project Name: RAYTHEON-WAYLAND

Lab Number: L1015465

Project Number: 0114119

Report Date: 10/11/10

Data Qualifiers

RE - Analytical results are from sample re-extraction.

J - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

ND - Not detected at the reporting limit (RL) for the sample.

Project Name: RAYTHEON-WAYLAND
Project Number: 0114119

Lab Number: L1015465
Report Date: 10/11/10

REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IIIA, 1997.
- 30 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.
- 97 EPA Test Methods (SW-846) with QC Requirements & Performance Standards for the Analysis of EPA SW-846 Methods under the Massachusetts Contingency Plan, WSC-CAM-IIA, IIB, IIIA, IIIB, IIIC, IIID, VA, VB, VC, VIA, VIB, VIIIA and VIIIB, July 2010.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



Certificate/Approval Program Summary

Last revised July 19, 2010 - Westboro Facility

The following list includes only those analytes/methods for which certification/approval is currently held.
For a complete listing of analytes for the referenced methods, please contact your Alpha Customer Service Representative.

Connecticut Department of Public Health Certificate/Lab ID: PH-0574. **NELAP Accredited Solid Waste/Soil.**

Drinking Water (Inorganic Parameters: Color, pH, Turbidity, Conductivity, Alkalinity, Chloride, Free Residual Chlorine, Fluoride, Calcium Hardness, Sulfate, Nitrate, Nitrite, Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Vanadium, Zinc, Total Dissolved Solids, Total Organic Carbon, Total Cyanide, Perchlorate. Organic Parameters: Volatile Organics 524.2, Total Trihalomethanes 524.2, 1,2-Dibromo-3-chloropropane (DBCP), Ethylene Dibromide (EDB), 1,4-Dioxane (Mod 8270). Microbiology Parameters: Total Coliform-MF mEndo (SM9222B), Total Coliform – Colilert (SM9223 P/A), E. Coli. – Colilert (SM9223 P/A), HPC – Pour Plate (SM9215B), Fecal Coliform – MF m-FC (SM9222D))

Wastewater/Non-Potable Water (Inorganic Parameters: Color, pH, Conductivity, Acidity, Alkalinity, Chloride, Total Residual Chlorine, Fluoride, Total Hardness, Silica, Sulfate, Sulfide, Ammonia, Kjeldahl Nitrogen, Nitrate, Nitrite, O-Phosphate, Total Phosphorus, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Tin, Titanium, Vanadium, Zinc, Total Residue (Solids), Total Dissolved Solids, Total Suspended Solids (non-filterable), BOD, CBOD, COD, TOC, Total Cyanide, Phenolics, Foaming Agents (MBAS), Bromide, Oil and Grease. Organic Parameters: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, 2,4-D, 2,4,5-T, 2,4,5-TP(Silvex), Acid Extractables (Phenols), Benzidines, Phthalate Esters, Nitrosamines, Nitroaromatics & Isophorone, Polynuclear Aromatic Hydrocarbons, Haloethers, Chlorinated Hydrocarbons, Volatile Organics, TPH (HEM/SGT), Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH. Microbiology Parameters: Total Coliform – MF mEndo (SM9222B), Total Coliform – MTF (SM9221B), HPC – Pour Plate (SM9215B), Fecal Coliform – MF m-FC (SM9222D), Fecal Coliform – A-1 Broth (SM9221E).)

Solid Waste/Soil (Inorganic Parameters: pH, Sulfide, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Tin, Vanadium, Zinc, Total Cyanide, Ignitability, Phenolics, Corrosivity, TCLP Leach (1311), SPLP Leach (1312 metals only), Reactivity. Organic Parameters: PCBs, PCBs in Oil, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH, Dicamba, 2,4-D, 2,4,5-T, 2,4,5-TP(Silvex), Volatile Organics, Acid Extractables (Phenols), 3,3'-Dichlorobenzidine, Phthalates, Nitrosamines, Nitroaromatics & Cyclic Ketones, PAHs, Haloethers, Chlorinated Hydrocarbons.)

Maine Department of Human Services Certificate/Lab ID: 2009024.

Drinking Water (Inorganic Parameters: SM9215B, 9222D, 9223B, EPA 180.1, 300.0, 353.2, SM2130B, 2320B, 4500CI-D, 4500CN-C, 4500CN-E, 4500F-C, 4500H+B, 4500NO3-F, EPA 200.7, EPA 200.8, 245.1, EPA 300.0. Organic Parameters: 504.1, 524.2.)

Wastewater/Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664A, 350.1, 351.1, 353.2, 410.4, 420.1, Lachat 10-107-06-1-B, SM2320B, 2340B, 2510B, 2540C, 2540D, 426C, 4500CI-D, 4500CI-E, 4500CN-C, 4500CN-E, 4500F-B, 4500F-C, 4500H+B, 4500Norg-B, 4500Norg-C, 4500NH3-B, 4500NH3-G, 4500NH3-H, 4500NO3-F, 4500P-B.5, 4500P-E, 5210B, 5220D, 5310C, EPA 200.7, 200.8, 245.1. Organic Parameters: 608, 624, ME DRO, ME GRO, MA EPH, MA VPH.)

Solid Waste/Soil (Organic Parameters: ME DRO, ME GRO, MA EPH, MA VPH.)

Massachusetts Department of Environmental Protection Certificate/Lab ID: M-MA086.

Drinking Water

Inorganic Parameters: (EPA 200.8 for: Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Tl)

(EPA 200.7 for: Ba,Be,Ca,Cd,Cr,Cu,Na,Ni) 245.1, (300.0 for: Nitrate-N, Fluoride, Sulfate)

353.2 for: Nitrate-N, Nitrite-N; SM4500NO3-F, 4500F-C, 4500CN-CE, EPA 180.1, SM2130B, SM4500CI-D, 2320B, SM2540C, SM4500H-B.

Organic Parameters: (EPA 524.2 for: Trihalomethanes, Volatile Organics)

(504.1 for: 1,2-Dibromoethane, 1,2-Dibromo-3-Chloropropane), 314.0, 332.

Microbiology Parameters: SM9215B; ENZ. SUB. SM9223; MF-SM9222D

Non-Potable Water

Inorganic Parameters: (EPA 200.8 for: Al,Sb,As,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,Zn)

(EPA 200.7 for: Al,Sb,As,Be,Cd,Cr,Co,Cu,Fe,Pb,Mn,Mo,Ni,Se,Ag,Sr,Ti,Tl, V,Zn,Ca,Mg,Na,K)

245.1, SM4500H,B, EPA 120.1, SM2510B, 2540C, 2540B, 2340B, 2320B, 4500CL-E, 4500F-BC, 426C, SM4500NH3-BH, (EPA 350.1 for: Ammonia-N), LACHAT 10-107-06-1-B for Ammonia-N, SM4500NO3-F, 353.2 for Nitrate-N, SM4500NH3-B,C-Titr, SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, 4500P-B,E, 5220D, EPA 410.4, SM 5210B, 5310C, 4500CL-D, EPA 1664, SM14 510AC, EPA 420, SM4500-CN-CE, SM2540D.

Organic Parameters: (EPA 624 for Volatile Halocarbons, Volatile Aromatics)

(608 for: Chlordane, Aldrin, Dieldrin, DDD, DDE, DDT, Heptachlor, Heptachlor Epoxide, PCBs-Water), EPA 625 for SVOC Acid Extractables and SVOC Base/Neutral Extractables, 600/4-81-045-PCB-Oil

New Hampshire Department of Environmental Services Certificate/Lab ID: 200307. *NELAP Accredited.*

Drinking Water (Inorganic Parameters: SM6215B, 9222B, 9223B Colilert, EPA 200.7, 200.8, 245.2, 120.1, 300.0, 314.0, SM4500CN-E, 4500H+B, 4500NO3-F, 2320B, 2510B, 2540C, 4500F-C, 5310C, 2120B, EPA 331.0. *Organic Parameters:* 504.1, 524.2, SM6251B.)

Non-Potable Water (Inorganic Parameters: SM9222D, 9221B, 9222B, 9221E-EC, EPA 200.7, 200.8, 245.1, 245.2, SW-846 6010B, 6020, 7196A, 7470A, SM3500-CR-D, EPA 120.1, 300.0, 350.1, 351.1, 353.2, 420.1, 1664A, SW-846 9010, 9030, 9040B, SM426C, SM2310B, 2540B, 2540D, 4500H+B, 4500NH3-H, 4500NH3-E, 4500NO2-B, 4500P-E, 4500-S2-D, 5210B, 2320B, 2540C, 4500F-C, 5310C, 5540C, LACHAT 10-117-07-1-B, LACHAT 10-107-06-1-B, LACHAT 10-107-04-1-C, LACHAT 10-107-04-1-J, LACHAT 10-117-07-1-A, SM4500CL-E, LACHAT 10-204-00-1-A, LACHAT 10-107-06-2-D. *Organic Parameters:* SW-846 3005A, 3015A, 3510C, 5030B, 8021B, 8260B, 8270C, 8330, EPA 624, 625, 608, SW-846 8082, 8081A.)

Solid & Chemical Materials (Inorganic Parameters: SW-846 6010B, 7196A, 7471A, 7.3.3.2, 7.3.4.2, 1010, 1030, 9010, 9012A, 9014, 9030B, 9040, 9045C, 9050C, 1311, 3005A, 3050B, 3051A. *Organic Parameters:* SW-846 3540C, 3545, 3580A, 5030B, 5035, 8021B, 8260B, 8270C, 8330, 8151A, 8082, 8081A.)

New Jersey Department of Environmental Protection Certificate/Lab ID: MA935. *NELAP Accredited.*

Drinking Water (Inorganic Parameters: SM9222B, 9221E, 9223B, 9215B, 4500NO3-F, 4500F-C, EPA 300.0, 200.7, 2540C, 2320B, 314.0, SM2120B, 2510B, 5310C, SM4500H-B, EPA 200.8, 245.2. *Organic Parameters:* 504.1, SM6251B, 524.2.)

Non-Potable Water (Inorganic Parameters: SM5210B, EPA 410.4, SM5220D, 4500CI-D, EPA 300.0, SM2120B, SM4500F-BC, EPA 200.7, 351.1, LACHAT 10-107-06-2-D, EPA 353.2, SM4500NO3-F, 4500NO2-B, EPA 1664A, SM5310B, C or D, 4500-PE, EPA 420.1, SM4500P-B5+E, 2540B, 2540C, 2540D, EPA 120.1, SM2510B, SM15 426C, SM9221CE, 9222D, 9221B, 9222B, 9215B, 2310B, 2320B, 4500NH3-H, 4500-S D, EPA 350.1, SM5210B, SW-846 3015, 6020, 7470A, 5540C, 4500H-B, EPA 200.8, SM3500Cr-D, EPA 245.1, 245.2, SW-846 9040B, 3005A, EPA 6010B, 7196A, SW-846 9010B, 9030B. *Organic Parameters:* SW-846 8260B, 8270C, 3510C, EPA 608, 624, 625, SW-846 5030B, 8021B, 8081A, 8082, 8151A, 8330, NJ OQA-QAM-025 Rev.7.)

Solid & Chemical Materials (Inorganic Parameters: SW-846 9040B, 3005A, 6010B, 7196A, 5030B, 9010B, 9030B, 1030, 1311, 3050B, 3051, 7471A, 9014, 9012A, 9045C, 9050A, 9065. *Organic Parameters:* SW-846 8021B, 8081A, 8082, 8151A, 8330, 8260B, 8270C, 1311, 1312, 3540C, 3545, 3550B, 3580A, 5035L, 5035H, NJ OQA-QAM-025 Rev.7.)

New York Department of Health Certificate/Lab ID: 11148. *NELAP Accredited.*

Drinking Water (Inorganic Parameters: SM9223B, 9222B, 9215B, EPA 200.8, 200.7, 245.2, SM5310C, EPA 314.0, 332.0, SM2320B, EPA 300.0, SM2120B, 4500CN-E, 4500F-C, 4500H-B, 4500NO3-F, 2540C, EPA 120.1, SM 2510B. *Organic Parameters:* EPA 524.2, 504.1.)

Non-Potable Water (Inorganic Parameters: SM9221E, 9222D, 9221B, 9222B, 9215B, 5210B, EPA 410.4, SM5220D, 2310B-4a, 2320B, EPA 200.7, 300.0, LACHAT 10-117-07-1A or B, SM4500CI-E, 4500F-C, SM15 426C, EPA 350.1, LACHAT 10-107-06-1-B, SM4500NH3-H, EPA 351.1, LACHAT 10-107-06-2, EPA 353.2, LACHAT 10-107-041-C, SM4500-NO3-F, 4500-NO2-B, 4500P-E, 2540C, 2540B, 2540D, EPA 200.8, EPA 6010B, 6020, EPA 7196A, SM3500Cr-D, EPA 245.1, 245.2, 7470A, SM2120B, SM4500-CN-E LACHAT 10-204-00-1-A, EPA 9040B, SM4500-HB, EPA 1664A, SM5310C, EPA 420.1, SM14 510C, EPA 120.1, SM2510B, SM4500S-D, SM5540C, EPA 3005A, 3015. *Organic Parameters:* EPA 624, 8260B, 8270C, 625, 608, 8081A, 8151A, 8330, 8082, EPA 3510C, 5030B, 9010B, 9030B.)

Solid & Hazardous Waste (Inorganic Parameters: 1010, 1030, SW-846 Ch 7 Sec 7.3, EPA 6010B, 7196A, 7471A, 9012A, 9014, 9040B, 9045C, 9065, 9050, EPA 1311, 1312, 3005A, 3050B, 9010B, 9030B. *Organic Parameters:* EPA 8260B, 8270C, 8081A, 8151A, 8330, 8082, 3540C, 3545, 3546, 3580, 5030B, 5035.)

North Carolina Department of the Environment and Natural Resources Certificate/Lab ID : 666. *Organic Parameters:* MA-EPH, MA-VPH.

Pennsylvania Department of Environmental Protection Certificate/Lab ID : 68-03671. *NELAP Accredited.*

Non-Potable Water (Organic Parameters: EPA 3510C, 5030B, 625, 624. 608, 8081A, 8082, 8151A, 8260B, 8270C, 8330)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1010, 1030, 1311, 3050B, 3051, 6010B, EPA 7.3.3.2, EPA 7.3.4.2, 7196A, 7471A, 9010B, 9012A, 9014, 9040B, 9045C, 9050, 9065. *Organic Parameters:* 3540C, 3545, 3580A, 5035, 8021B, 8081A, 8082, 8151A, 8260B, 8270C, 8330)

Rhode Island Department of Health Certificate/Lab ID: LAO00065. *NELAP Accredited via NY-DOH.*

Refer to MA-DEP Certificate for Potable and Non-Potable Water.

Refer to NY-DOH Certificate for Potable and Non-Potable Water.

Texas Commission on Environmental Quality Certificate/Lab ID: T104704476-09-1. *NELAP Accredited.*

Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664, 200.7, 200.8, 245.1, 245.2, 300.0, 350.1, 351.1, 353.2, 376.2, 410.4, 420.1, 6010, 6020, 7196, 7470, 9040, SM 2120B, 2310B, 2320B, 2510B, 2540B, 2540C, 2540D, 426C, 4500CL-E, 4500CN-E, 4500F-C, 4500H+B, 4500NH₃-H, 4500NO₂B, 4500P-E, 4500 S²⁻ D, 510C, 5210B, 5220D, 5310C, 5540C. *Organic Parameters:* EPA 608, 624, 625, 8081, 8082, 8151, 8260, 8270, 8330.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1311, 1312, 9012, 9014, 9040, 9045, 9050, 9065.)

Department of Defense Certificate/Lab ID: L2217.

Drinking Water (Inorganic Parameters: SM 4500H-B. *Organic Parameters:* EPA 524.2, 504.1.)

Non-Potable Water (Inorganic Parameters: EPA 200.7, 200.8, 6010B, 6020, 245.1, 245.2, 7470A, 9040B, 300.0, 9251, 9038, 350.1, 353.2, 351.1, 120.1, 9050A, 410.4, 9060, 1664, 420.1, LACHAT 10-107-06-1-B, SM 4500CN-E, 4500H-B, 4500CL-E, 4500F-BC, 4500SO₄-E, 426C, 4500NH₃-B, 4500NH₃-H, 4500NO₃-F, 4500NO₂-B, 4500Norg-C, 4500PE, 2510B, 5540C, 5220D, 5310C, 2540B, 2540C, 2540D, 510C, 4500S₂-AD, 3005A, 3015, 9010B, 9030B. *Organic Parameters:* EPA 8260B, 8270C, 8330, 625, 8082, 8151A, 8081A, 3510C, 5030B, MassDEP EPH, MassDEP VPH.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 200.7, 6010B, 7471A, 9040B, 9045C, 9065, 420.1, 9012A, 6860, 1311, 1312, 3050B, 9030B, 3051, 9010B, 3540C, SM 510ABC, 4500CN-CE, 2540G, SW-846 7.3, *Organic Parameters:* EPA 8260B, 8270C, 8330, 8082, 8081A, 8151A, 3545, 3546, 3580, 5035, MassDEP EPH, MassDEP VPH.)

Analytes Not Accredited by NELAP

Certification is not available by NELAP for the following analytes: **EPA 8260B:** Freon-113, 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene. **EPA 8330A:** PETN, Picric Acid, Nitroglycerine, 2,6-DANT, 2,4-DANT. **EPA 8270C:** Methyl naphthalene, Dimethyl naphthalene, Total Methylnaphthalenes, Total Dimethylnaphthalenes, 1,4-Diphenylhydrazine (Azobenzene). **EPA 625:** 4-Chloroaniline. **EPA 350.1** for Ammonia in a Soil matrix.



CHAIN OF CUSTODY

PAGE 1 OF 2

Eight Walkup Drive Westborough, MA 01581
TEL: 508-898-9220 FAX: 508-898-9193

Client Information

Client: ERM
Address: 399 Bowdoin St.
Wrentham Boston, MA
Phone: (617) 440-7800
Fax: (617) 267-6447
Email: jason.flattery@erm.com

These samples have been previously analyzed by Alpha
Other Project Specific Requirements/Comments/Detection Limits:

Project Information

Project Name: Raytheon Wayland
Project Location: Wayland, MA
Project #: 0114119
Project Manager: Jason Flattery
ALPHA Quote #:
Turn-Around Time

Standard RUSH (only confirmed if pre-approved)
Date Due: 10/11/10 Time:

Date Rec'd in Lab: 10/11/10

Report Information - Data Deliverables

FAX EMAIL
 ADDEX Add'l Deliverables

Regulatory Requirements/Report Limits

State/Fed Program: MA MCP Criteria: GW-2
MCP PRESUMPTIVE CERTAINTY - THESE QUESTIONS MUST BE ANSWERED

ALPHA Job #: L1015465

Billing Information

Same as Client Info PO #:

Yes No Are MCP Analytical Methods Required?
 Yes No Are Drinking Water Samples Submitted?
 Yes No Have you met minimum field QC requirements?

ANALYSIS
CVOCs (80216)
TOC
SO4
Diss. NatK

SAMPLE HANDLING
Filtration Done Not needed
 Lab to do
 Lab to do
 Lab to do
(Please specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials
		Date	Time		
	154651	10/11/10	0900	GW	EW
	2	IW-2-20101004-01	1525	EW	EW
	3	IW-15-20101004-01	1030	EW	EW
	4	IW-17-20101004-01	1155	EW	EW
	5	IW-18-20101004-01	1340	EW	EW
	6	MW-266Ma-20101004-01	1400	HEA SAC	EW
	7	MW-266Mb-20101004-01	1210	HEA SAC	EW
	8	DVP-001-20101004-01	1111	SMC	EW
	9	DVP-002-20101004-01	1114	EW	EW
	10	TB-001-20101004-01	10/11/10 1234	DS	EW

Container Type Preservative

Date/Time Received By: 10/11/10 1600 [Signature] Date/Time: 10/11/10 1705

QUESTIONS ABOVE MUST BE ANSWERED FOR PRESUMPTIVE CERTAINTY

IS YOUR PROJECT MCP?

Relinquished By: [Signature]

Date/Time: 10/11/10 1600

Received By: [Signature]

Date/Time: 10/11/10 1705

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.



CHAIN OF CUSTODY

PAGE 2 OF 2

WESTBORO, MA
TEL: 508-899-9220
FAX: 508-899-9193

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

Client Information

Client: BRM
Address: 399 Brighton Street
1st Floor Boston, MA
Phone: (617) 641-7900
Fax: (617) 267-6447
Email: Jason.Flatney@brm.com

Project Name: Raytheon Wayland
Project Location: Wayland, MA
Project #: 0114119
Project Manager: Jason Flatney
ALPHA Quote #:
Turn-Around Time
Date Due: 10/11/10 Time:
 Standard RUSH (only confirmed if pre-approved)

Other Project Specific Requirements/Comments/Detection Limits:

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials
		Date	Time		
154105	11	10/4/10	1020	GW	HEA
	12	FW-B-20101004-01	0910		HEA
	13	MMW-SS1-20101004-01	1300		SMC
	13	MMW-SS1-20101004-01-MS	1306		SMC
	13	MMW-SS1-20101004-01-MSD	1300		SMC
	13	MMW-SS2-20101004-01	1040		SMC
	14	MMW-SS3-20101004-01	910		SMC
	14	MMW-2615-20101004-01	1140		SMC
	17	MMW-511-20101004-01	1500		HEA
	18	MMW-109-20101004-01	1500	GW	SMC

Date Rec'd In Lab: 10/14/10

ALPHA Job #: 21015405

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
MA MRP GW-2

ANALYSIS
80216 by 8260B
TOC
Diss. NatK
SO4

SAMPLE HANDLING
Filtration Done For Diss. NatK
 Not needed
 Lab to do
Preservation Lab to do
(Please specify below)

Container Type	Preservative	Date/Time	Received By	Date/Time
V	V	10/11/10 1600	<u>[Signature]</u>	10/11/10 1705
B	P			
P	C			
P	A			

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

7A
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Alpha Analytical Labs

SDG No.: L1015465

Instrument ID: Jack.i Calibration Date: 06-OCT-2010 Time: 07:27

Lab File ID: 1006A01.D Init. Calib. Date(s): 05-OCT-2 05-OCT-2

Sample No: 8260 ccal Init. Calib. Times : 07:48 11:34

Compound	RRF	RRF	MIN RRF	%D	MAX %D
dichlorodifluoromethane	.61712	.70915	.1	-15	20
chloromethane	100	97.994	.1	2	20
vinyl chloride	.60439	.60593	.1	0	20
bromomethane	100	119	.1	-19	20
chloroethane	100	81.618	.1	18	20
trichlorofluoromethane	.93722	.96962	.1	-3	20
ethyl ether	.20661	.18847	.05	9	20
1,1,-dichloroethene	.51512	.52744	.1	-2	20
carbon disulfide	1.2385	1.1583	.1	6	20
methylene chloride	.68985	.69797	.1	-1	20
acetone	.07828	.08243	.1	-5	20
trans-1,2-dichloroethene	.75292	.77455	.1	-3	20
methyl tert butyl ether	1.1898	1.0372	.1	13	20
Ethyl-Tert-Butyl-Ether	1.3857	1.2770	.05	8	20
Diisopropyl Ether	1.7079	1.6065	.01	6	20
1,1-dichloroethane	1.2551	1.2529	.2	0	20
cis-1,2-dichloroethene	.80214	.81601	.1	-2	20
2,2-dichloropropane	.94869	.96423	.05	-2	20
bromochloromethane	.34642	.34345	.05	1	20
chloroform	1.2140	1.2158	.2	0	20
carbontetrachloride	.95483	.98424	.1	-3	20
tetrahydrofuran	.10877	.08988	.05	17	20
1,1,1-trichloroethane	1.0640	1.0821	.1	-2	20
Tertiary-Amyl Methyl Ether	1.2072	1.1418	.05	5	20
1,1-dichloropropene	.95913	1.0107	.05	-5	20
2-butanone	.12768	.1236	.1	3	20
benzene	2.864	2.9246	.5	-2	20
1,2-dichloroethane	.6711	.62968	.1	6	20
trichloroethene	.74779	.76461	.2	-2	20
dibromomethane	.35609	.29615	.05	17	20
1,2-dichloropropane	.68747	.64011	.1	7	20
bromodichloromethane	.80321	.79625	.2	1	20
1,4-dioxane	.00261	.00264	.05	-1	20
cis-1,3-dichloropropene	.92257	.81265	.2	12	20
toluene	2.2733	2.3241	.4	-2	20
tetrachloroethene	1.1213	1.1858	.2	-6	20
4-methyl-2-pentanone	.11685	.09608	.1	18	20
trans-1,3-dichloropropene	.8567	.81596	.1	5	20

FORM VII MCP-8260-10

7A
CONTINUING CALIBRATION CHECK

Lab Name: Alpha Analytical Labs

SDG No.: L1015465

Instrument ID: Jack.i Calibration Date: 06-OCT-2010 Time: 07:27

Lab File ID: 1006A01.D Init. Calib. Date(s): 05-OCT-2 05-OCT-2

Sample No: 8260 ccal Init. Calib. Times : 07:48 11:34

Compound	RRF	RRF	MIN RRF	%D	MAX %D
1,1,2-trichloroethane	.44519	.42312	.1	5	20
chlorodibromomethane	.68379	.64119	.1	6	20
1,3-dichloropropane	.93597	.89576	.05	4	20
1,2-dibromoethane	.53241	.48468	.1	9	20
2-hexanone	.21918	.17953	.1	18	20
chlorobenzene	2.5429	2.5296	.5	1	20
ethyl benzene	4.2068	4.5177	.1	-7	20
1,1,1,2-tetrachloroethane	.7917	.82048	.05	-4	20
p/m xylene	1.6839	1.8265	.1	-8	20
o xylene	1.5740	1.7321	.3	-10	20
styrene	2.6594	2.7931	.3	-5	20
bromoform	.68407	.64815	.1	5	20
isopropylbenzene	4.0710	4.5298	.1	-11	20
bromobenzene	1.8486	1.9487	.05	-5	20
n-propylbenzene	7.5749	8.8587	.05	-17	20
1,1,2,2,-tetrachloroethane	.95122	.9259	.3	3	20
2-chlorotoluene	5.3195	5.7688	.05	-8	20
1,2,3-trichloropropane	.75876	.73977	.05	3	20
1,3,5-trimethylbenzene	5.3641	6.0763	.05	-13	20
4-chorotoluene	4.7624	5.3653	.05	-13	20
tert-butylbenzene	4.5597	5.2892	.05	-16	20
1,2,4-trimethylbenzene	5.436	6.1112	.05	-12	20
sec-butylbenzene	6.2797	7.5232	.01	-20	20
p-isopropyltoluene	5.4602	6.2837	.05	-15	20
1,3-dichlorobenzene	3.5486	3.7623	.6	-6	20
1,4-dichlorobenzene	3.5049	3.7784	.5	-8	20
n-butylbenzene	4.0502	4.9826	.05	-23	20
1,2-dichlorobenzene	3.1071	3.2715	.4	-5	20
1,2-dibromo-3-chloropropane	.12483	.11065	.05	11	20
hexachlorobutadiene	.71831	.90743	.05	-26	20
1,2,4-trichlorobenzene	1.6561	1.7185	.2	-4	20
naphthalene	100	93.705	.05	6	20
1,2,3-trichlorobenzene	1.3009	1.3053	.05	0	20
dibromofluoromethane	.25944	.26601	.05	-3	20
1,2-dichloroethane-d4	.23246	.21052	.05	9	20
toluene-d8	1.2443	1.2972	.01	-4	20
4-bromofluorobenzene	.7302	.75526	.05	-3	20

F

F

FORM VII MCP-8260-10

7A
CONTINUING CALIBRATION CHECK

Lab Name: Alpha Analytical Labs

SDG No.: L1015465

Instrument ID: Jack.i Calibration Date: 07-OCT-2010 Time: 08:43

Lab File ID: 1007A08.D Init. Calib. Date(s): 05-OCT-2 05-OCT-2

Sample No: 8260 CCAL Init. Calib. Times : 08:04 11:50

Compound	RRF	RRF	MIN RRF	%D	MAX %D	
dichlorodifluoromethane	.53632	.64194	.1	-20	20	
chloromethane	100	97.272	.1	3	20	
vinyl chloride	.54172	.53485	.1	1	20	
bromomethane	.37902	.41372	.1	-9	20	
chloroethane	100	112	.1	-12	20	
trichlorofluoromethane	.85518	1.0695	.1	-25	20	F
ethyl ether	.17755	.24056	.05	-35	20	F
1,1,-dichloroethene	100	122	.1	-22	20	F
carbon disulfide	1.1497	1.2088	.05	-5	20	
freon-113	.473	.79736	.1	-69	20	F
iodomethane	.57373	.34821	.05	39	20	F
acrolin	.01265	.04478	.05	-254	20	F
methylene chloride	.64173	.75335	.05	-17	20	
acetone	100	119	.1	-19	20	
trans-1,2-dichloroethene	.7052	.70704	.1	0	20	
methyl acetate	.21724	.27277	.1	-26	20	F
methyl tert butyl ether	.98412	.98079	.1	0	20	
tert butyl alcohol	.03303	.03321	.05	-1	20	F
Diisopropyl Ether	1.4077	1.4330	.05	-2	20	
1,1-dichloroethane	1.1628	1.2069	.2	-4	20	
halothane	.53168	.52793	.05	1	20	
Ethyl-Tert-Butyl-Ether	1.1098	1.1226	.05	-1	20	
vinyl acetate	.50009	.57582	.05	-15	20	
cis-1,2-dichloroethene	.73624	.76936	.1	-4	20	
2,2-dichloropropane	.8822	.91123	.05	-3	20	
bromochloromethane	.31835	.34695	.05	-9	20	
chloroform	1.2066	1.2086	.2	0	20	
carbontetrachloride	.87612	.88863	.1	-1	20	
ethyl acetate	.26373	.27692	.05	-5	20	
1,1,1-trichloroethane	.97303	1.0165	.1	-4	20	
1,1-dichloropropene	.87214	.9011	.05	-3	20	
2-butanone	.10225	.12277	.1	-20	20	F
benzene	2.5796	2.6514	.5	-3	20	
Tertiary-Amyl Methyl Ether	.91931	.97674	.05	-6	20	
tetrahydrofuran	.09369	.1088	.05	-16	20	
1,2-dichloroethane	.61374	.67475	.1	-10	20	
trichloroethene	.68086	.69907	.2	-3	20	
dibromomethane	.33762	.33037	.05	2	20	

FORM VII MCP-8260-10

7A
CONTINUING CALIBRATION CHECK

Lab Name: Alpha Analytical Labs

SDG No.: L1015465

Instrument ID: Jack.i Calibration Date: 07-OCT-2010 Time: 08:43

Lab File ID: 1007A08.D Init. Calib. Date(s): 05-OCT-2 05-OCT-2

Sample No: 8260 CCAL Init. Calib. Times : 08:04 11:50

Compound	RRF	RRF	MIN RRF	%D	MAX %D
1,2-dichloropropane	.5829	.58087	.1	0	20
bromodichloromethane	.72679	.78691	.2	-8	20
1,4-dioxane	.00194	.0018	.05	7	20
2-chloroethylvinyl ether	.21087	.23719	.05	-12	20
cis-1,3-dichloropropene	.81389	.74359	.2	9	20
toluene	2.0947	2.0039	.4	4	20
tetrachloroethene	1.0509	1.0217	.2	3	20
4-methyl-2-pentanone	.08403	.09677	.1	-15	20
trans-1,3-dichloropropene	.77191	.72006	.1	7	20
1,1,2-trichloroethane	.4174	.3929	.1	6	20
chlorodibromomethane	.61278	.59238	.1	3	20
1,3-dichloropropane	.838	.84402	.05	-1	20
1,2-dibromoethane	.4927	.4713	.1	4	20
2-hexanone	.17157	.18287	.1	-7	20
chlorobenzene	2.2999	2.2123	.5	4	20
ethyl benzene	3.8645	3.9116	.1	-1	20
1,1,1,2-tetrachloroethane	.65284	.68675	.05	-5	20
p/m xylene	1.5739	1.6086	.1	-2	20
o xylene	1.4664	1.5402	.3	-5	20
bromoform	.54059	.56262	.1	-4	20
styrene	2.4058	2.5166	.3	-5	20
isopropylbenzene	3.8767	3.8789	.1	0	20
bromobenzene	1.5603	1.6736	.05	-7	20
n-propylbenzene	6.8713	7.0635	.05	-3	20
1,1,2,2,-tetrachloroethane	.78826	.84592	.3	-7	20
2-chlorotoluene	4.6231	4.7955	.05	-4	20
1,2,3-trichloropropane	.64064	.70369	.05	-10	20
1,3,5-trimethybenzene	5.8345	6.1429	.05	-5	20
trans-1,4-dichloro-2-butene	.18562	.20397	.05	-10	20
4-chorotoluene	4.1862	4.2173	.05	-1	20
tert-butylbenzene	4.2081	4.2851	.05	-2	20
1,2,4-trimethylbenzene	4.8376	5.0213	.05	-4	20
sec-butylbenzene	5.9625	6.1429	.05	-3	20
p-isopropyltoluene	4.9269	5.1351	.05	-4	20
1,3-dichlorobenzene	3.0954	3.2116	.6	-4	20
1,4-dichlorobenzene	3.2173	3.1367	.5	3	20
n-butylbenzene	4.0098	4.1889	.05	-4	20
1,2-dichlorobenzene	2.8389	2.8425	.4	0	20

FORM VII MCP-8260-10

7A
CONTINUING CALIBRATION CHECK

Lab Name: Alpha Analytical Labs

SDG No.: L1015465

Instrument ID: Jack.i

Calibration Date: 07-OCT-2010

Time: 08:43

Lab File ID: 1007A08.D

Init. Calib. Date(s): 05-OCT-2

05-OCT-2

Sample No: 8260 CCAL

Init. Calib. Times : 08:04

11:50

Compound	RRF	RRF	MIN RRF	%D	MAX %D
1,2-dibromo-3-chloropropane_____	.1168	.12125	.05	-4	20
hexachlorobutadiene_____	.7541	.74145	.05	2	20
1,2,4-trichlorobenzene_____	1.6472	1.7263	.2	-5	20
naphthalene_____	2.6299	2.5716	.05	2	20
1,2,3-trichlorobenzene_____	1.3219	1.3898	.05	-5	20
dibromofluoromethane_____	.27846	.27451	.05	1	20
1,2-dichloroethane-d4_____	.24541	.24536	.05	0	20
toluene-d8_____	1.2461	1.1913	.05	4	20
4-bromofluorobenzene_____	.77738	.72151	.05	7	20

7A
CONTINUING CALIBRATION CHECK

Lab Name: Alpha Analytical Labs

SDG No.: L1015465

Instrument ID: Jack.i Calibration Date: 07-OCT-2010 Time: 08:27

Lab File ID: 1007A07.D Init. Calib. Date(s): 05-OCT-2 05-OCT-2

Sample No: ccal Init. Calib. Times : 07:48 11:34

Compound	RRF	RRF	MIN RRF	%D	MAX %D	
dichlorodifluoromethane	.61712	.72046	.1	-17	20	
chloromethane	100	104	.1	-4	20	
vinyl chloride	.60439	.59594	.1	1	20	
bromomethane	100	106	.1	-6	20	
chloroethane	100	112	.1	-12	20	
trichlorofluoromethane	.93722	1.2222	.1	-30	20	F
ethyl ether	.20661	.26069	.05	-26	20	F
1,1,-dichloroethene	.51512	.65436	.1	-27	20	F
carbon disulfide	1.2385	1.5093	.1	-22	20	F
methylene chloride	.68985	.78515	.1	-14	20	
acetone	.07828	.10195	.1	-30	20	F
trans-1,2-dichloroethene	.75292	.78278	.1	-4	20	
methyl tert butyl ether	1.1898	1.2435	.1	-5	20	
Ethyl-Tert-Butyl-Ether	1.3857	1.4960	.05	-8	20	
Diisopropyl Ether	1.7079	1.8212	.01	-7	20	
1,1-dichloroethane	1.2551	1.3523	.2	-8	20	
cis-1,2-dichloroethene	.80214	.84807	.1	-6	20	
2,2-dichloropropane	.94869	1.0075	.05	-6	20	
bromochloromethane	.34642	.38237	.05	-10	20	
chloroform	1.2140	1.3140	.2	-8	20	
carbontetrachloride	.95483	1.0228	.1	-7	20	
tetrahydrofuran	.10877	.121	.05	-11	20	
1,1,1-trichloroethane	1.0640	1.1592	.1	-9	20	
Tertiary-Amyl Methyl Ether	1.2072	1.3323	.05	-10	20	
1,1-dichloropropene	.95913	1.0729	.05	-12	20	
2-butanone	.12768	.14497	.1	-14	20	
benzene	2.864	3.1147	.5	-9	20	
1,2-dichloroethane	.6711	.75179	.1	-12	20	
trichloroethene	.74779	.83206	.2	-11	20	
dibromomethane	.35609	.40547	.05	-14	20	
1,2-dichloropropane	.68747	.73361	.1	-7	20	
bromodichloromethane	.80321	.91261	.2	-14	20	
1,4-dioxane	.00261	.00221	.05	16	20	F
cis-1,3-dichloropropene	.92257	.88704	.2	4	20	
toluene	2.2733	2.4203	.4	-6	20	
tetrachloroethene	1.1213	1.2158	.2	-8	20	
4-methyl-2-pentanone	.11685	.1325	.1	-13	20	
trans-1,3-dichloropropene	.8567	.89966	.1	-5	20	

FORM VII MCP-8260-10

7A
CONTINUING CALIBRATION CHECK

Lab Name: Alpha Analytical Labs

SDG No.: L1015465

Instrument ID: Jack.i Calibration Date: 07-OCT-2010 Time: 08:27

Lab File ID: 1007A07.D Init. Calib. Date(s): 05-OCT-2 05-OCT-2

Sample No: ccal Init. Calib. Times : 07:48 11:34

Compound	RRF	RRF	MIN RRF	%D	MAX %D
1,1,2-trichloroethane	.44519	.49054	.1	-10	20
chlorodibromomethane	.68379	.71204	.1	-4	20
1,3-dichloropropane	.93597	1.0102	.05	-8	20
1,2-dibromoethane	.53241	.57205	.1	-7	20
2-hexanone	.21918	.25209	.1	-15	20
chlorobenzene	2.5429	2.5847	.5	-2	20
ethyl benzene	4.2068	4.6349	.1	-10	20
1,1,1,2-tetrachloroethane	.7917	.86342	.05	-9	20
p/m xylene	1.6839	1.8971	.1	-13	20
o xylene	1.5740	1.8019	.3	-14	20
styrene	2.6594	2.9402	.3	-11	20
bromoform	.68407	.72488	.1	-6	20
isopropylbenzene	4.0710	4.6137	.1	-13	20
bromobenzene	1.8486	2.0154	.05	-9	20
n-propylbenzene	7.5749	9.0148	.05	-19	20
1,1,2,2,-tetrachloroethane	.95122	1.092	.3	-15	20
2-chlorotoluene	5.3195	6.0597	.05	-14	20
1,2,3-trichloropropane	.75876	.87465	.05	-15	20
1,3,5-trimethylbenzene	5.3641	6.1683	.05	-15	20
4-chorotoluene	4.7624	5.4751	.05	-15	20
tert-butylbenzene	4.5597	5.3556	.05	-17	20
1,2,4-trimethylbenzene	5.436	6.2139	.05	-14	20
sec-butylbenzene	6.2797	7.4639	.01	-19	20
p-isopropyltoluene	5.4602	6.2188	.05	-14	20
1,3-dichlorobenzene	3.5486	3.8525	.6	-9	20
1,4-dichlorobenzene	3.5049	3.8858	.5	-11	20
n-butylbenzene	4.0502	4.912	.05	-21	20
1,2-dichlorobenzene	3.1071	3.4320	.4	-10	20
1,2-dibromo-3-chloropropane	.12483	.1346	.05	-8	20
hexachlorobutadiene	.71831	.764	.05	-6	20
1,2,4-trichlorobenzene	1.6561	1.7470	.2	-5	20
naphthalene	100	100	.05	0	20
1,2,3-trichlorobenzene	1.3009	1.3475	.05	-4	20
dibromofluoromethane	.25944	.26912	.05	-4	20
1,2-dichloroethane-d4	.23246	.23672	.05	-2	20
toluene-d8	1.2443	1.2404	.01	0	20
4-bromofluorobenzene	.7302	.73748	.05	-1	20

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FORM VII MCP-8260-10

7A
CONTINUING CALIBRATION CHECK

Lab Name: Alpha Analytical Labs

SDG No.: L1015465

Instrument ID: Jack.i Calibration Date: 08-OCT-2010 Time: 07:34

Lab File ID: 1008A02.D Init. Calib. Date(s): 05-OCT-2 05-OCT-2

Sample No: 8260 CCAL Init. Calib. Times : 08:04 11:50

Compound	RRF	RRF	MIN RRF	%D	MAX %D
dichlorodifluoromethane	.53632	.53349	.1	1	20
chloromethane	100	80.064	.1	20	20
vinyl chloride	.54172	.45958	.1	15	20
bromomethane	.37902	.4438	.1	-17	20
chloroethane	100	91.908	.1	8	20
trichlorofluoromethane	.85518	.90699	.1	-6	20
ethyl ether	.17755	.21772	.05	-23	20
1,1,-dichloroethene	100	113	.1	-13	20
carbon disulfide	1.1497	1.0470	.05	9	20
freon-113	.473	.52175	.1	-10	20
iodomethane	.57373	.29271	.05	49	20
acrolin	.01265	.04176	.05	-230	20
methylene chloride	.64173	.65083	.05	-1	20
acetone	100	117	.1	-17	20
trans-1,2-dichloroethene	.7052	.63566	.1	10	20
methyl acetate	.21724	.23084	.1	-6	20
methyl tert butyl ether	.98412	.90433	.1	8	20
tert butyl alcohol	.03303	.02908	.05	12	20
Diisopropyl Ether	1.4077	1.2064	.05	14	20
1,1-dichloroethane	1.1628	1.0667	.2	8	20
halothane	.53168	.47875	.05	10	20
Ethyl-Tert-Butyl-Ether	1.1098	1.0073	.05	9	20
vinyl acetate	.50009	.59937	.05	-20	20
cis-1,2-dichloroethene	.73624	.70333	.1	4	20
2,2-dichloropropane	.8822	.82922	.05	6	20
bromochloromethane	.31835	.32378	.05	-2	20
chloroform	1.2066	1.084	.2	10	20
carbontetrachloride	.87612	.82615	.1	6	20
ethyl acetate	.26373	.25972	.05	2	20
1,1,1-trichloroethane	.97303	.92946	.1	4	20
1,1-dichloropropene	.87214	.80895	.05	7	20
2-butanone	.10225	.12936	.1	-27	20
benzene	2.5796	2.3334	.5	10	20
Tertiary-Amyl Methyl Ether	.91931	.87833	.05	4	20
tetrahydrofuran	.09369	.0956	.05	-2	20
1,2-dichloroethane	.61374	.62479	.1	-2	20
trichloroethene	.68086	.61746	.2	9	20
dibromomethane	.33762	.30292	.05	10	20

FORM VII MCP-8260-10

7A
CONTINUING CALIBRATION CHECK

Lab Name: Alpha Analytical Labs

SDG No.: L1015465

Instrument ID: Jack.i Calibration Date: 08-OCT-2010 Time: 07:34

Lab File ID: 1008A02.D Init. Calib. Date(s): 05-OCT-2 05-OCT-2

Sample No: 8260 CCAL Init. Calib. Times : 08:04 11:50

Compound	RRF	RRF	MIN RRF	%D	MAX %D
1,2-dichloropropane	.5829	.54206	.1	7	20
bromodichloromethane	.72679	.72481	.2	0	20
1,4-dioxane	.00194	.00214	.05	-10	20
2-chloroethylvinyl ether	.21087	.2248	.05	-7	20
cis-1,3-dichloropropene	.81389	.71056	.2	13	20
toluene	2.0947	1.8175	.4	13	20
tetrachloroethene	1.0509	.93807	.2	11	20
4-methyl-2-pentanone	.08403	.09198	.1	-9	20
trans-1,3-dichloropropene	.77191	.72303	.1	6	20
1,1,2-trichloroethane	.4174	.39132	.1	6	20
chlorodibromomethane	.61278	.57468	.1	6	20
1,3-dichloropropane	.838	.80972	.05	3	20
1,2-dibromoethane	.4927	.48879	.1	1	20
2-hexanone	.17157	.19225	.1	-12	20
chlorobenzene	2.2999	2.0158	.5	12	20
ethyl benzene	3.8645	3.5143	.1	9	20
1,1,1,2-tetrachloroethane	.65284	.65972	.05	-1	20
p/m xylene	1.5739	1.4481	.1	8	20
o xylene	1.4664	1.3294	.3	9	20
bromoform	.54059	.5859	.1	-8	20
styrene	2.4058	2.1661	.3	10	20
isopropylbenzene	3.8767	3.5862	.1	7	20
bromobenzene	1.5603	1.5031	.05	4	20
n-propylbenzene	6.8713	6.4754	.05	6	20
1,1,2,2,-tetrachloroethane	.78826	.85712	.3	-9	20
2-chlorotoluene	4.6231	4.3656	.05	6	20
1,2,3-trichloropropane	.64064	.71489	.05	-12	20
1,3,5-trimethybenzene	5.8345	5.5747	.05	4	20
trans-1,4-dichloro-2-butene	.18562	.21483	.05	-16	20
4-chorotoluene	4.1862	4.3656	.05	-4	20
tert-butylbenzene	4.2081	3.9497	.05	6	20
1,2,4-trimethylbenzene	4.8376	4.5689	.05	6	20
sec-butylbenzene	5.9625	5.5747	.05	7	20
p-isopropyltoluene	4.9269	4.7682	.05	3	20
1,3-dichlorobenzene	3.0954	2.8888	.6	7	20
1,4-dichlorobenzene	3.2173	2.9486	.5	8	20
n-butylbenzene	4.0098	3.8463	.05	4	20
1,2-dichlorobenzene	2.8389	2.6856	.4	5	20

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7A
CONTINUING CALIBRATION CHECK

Lab Name: Alpha Analytical Labs

SDG No.: L1015465

Instrument ID: Jack.i Calibration Date: 08-OCT-2010 Time: 07:34

Lab File ID: 1008A02.D Init. Calib. Date(s): 05-OCT-2 05-OCT-2

Sample No: 8260 CCAL Init. Calib. Times : 08:04 11:50

Compound	RRF	RRF	MIN RRF	%D	MAX %D
1,2-dibromo-3-chloropropane	.1168	.13344	.05	-14	20
hexachlorobutadiene	.7541	.67684	.05	10	20
1,2,4-trichlorobenzene	1.6472	1.6274	.2	1	20
naphthalene	2.6299	2.6685	.05	-1	20
1,2,3-trichlorobenzene	1.3219	1.3960	.05	-6	20
dibromofluoromethane	.27846	.28088	.05	-1	20
1,2-dichloroethane-d4	.24541	.24702	.05	-1	20
toluene-d8	1.2461	1.2049	.05	3	20
4-bromofluorobenzene	.77738	.72929	.05	6	20

7A
CONTINUING CALIBRATION CHECK

Lab Name: Alpha Analytical Labs

SDG No.: L1015465

Instrument ID: Jack.i Calibration Date: 06-OCT-2010 Time: 08:15

Lab File ID: 1006A04.D Init. Calib. Date(s): 05-OCT-2 05-OCT-2

Sample No: 8260 CCAL Init. Calib. Times : 08:04 11:50

Compound	RRF	RRF	MIN RRF	%D	MAX %D	
dichlorodifluoromethane	.53632	.64939	.1	-21	20	F
chloromethane	100	95.672	.1	4	20	
vinyl chloride	.54172	.53579	.1	1	20	
bromomethane	.37902	.4014	.1	-6	20	
chloroethane	100	90.328	.1	10	20	
trichlorofluoromethane	.85518	.88134	.1	-3	20	
ethyl ether	.17755	.17813	.05	0	20	
1,1,-dichloroethene	100	106	.1	-6	20	
carbon disulfide	1.1497	1.0326	.05	10	20	
methylene chloride	.64173	.68687	.05	-7	20	
acetone	100	120	.1	-20	20	
trans-1,2-dichloroethene	.7052	.71678	.1	-2	20	
methyl tert butyl ether	.98412	.947	.1	4	20	
Ethyl-Tert-Butyl-Ether	1.1098	1.0931	.05	1	20	
Diisopropyl Ether	1.4077	1.4112	.05	0	20	
1,1-dichloroethane	1.1628	1.1860	.2	-2	20	
cis-1,2-dichloroethene	.73624	.77878	.1	-6	20	
2,2-dichloropropane	.8822	.86754	.05	2	20	
bromochloromethane	.31835	.33576	.05	-5	20	
chloroform	1.2066	1.1615	.2	4	20	
carbontetrachloride	.87612	.86225	.1	2	20	
tetrahydrofuran	.09369	.1044	.05	-11	20	
1,1,1-trichloroethane	.97303	1.0011	.1	-3	20	
Tertiary-Amyl Methyl Ether	.91931	.96866	.05	-5	20	
1,1-dichloropropene	.87214	.88286	.05	-1	20	
2-butanone	.10225	.12011	.1	-17	20	
benzene	2.5796	2.6051	.5	-1	20	
1,2-dichloroethane	.61374	.63323	.1	-3	20	
trichloroethene	.68086	.66629	.2	2	20	
dibromomethane	.33762	.31564	.05	7	20	
1,2-dichloropropane	.5829	.58338	.1	0	20	
bromodichloromethane	.72679	.75388	.2	-4	20	
1,4-dioxane	.00194	.00261	.05	-34	20	F
cis-1,3-dichloropropene	.81389	.73204	.2	10	20	
toluene	2.0947	2.0543	.4	2	20	
tetrachloroethene	1.0509	1.0606	.2	-1	20	
4-methyl-2-pentanone	.08403	.09152	.1	-9	20	F
trans-1,3-dichloropropene	.77191	.7543	.1	2	20	

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7A
CONTINUING CALIBRATION CHECK

Lab Name: Alpha Analytical Labs

SDG No.: L1015465

Instrument ID: Jack.i Calibration Date: 06-OCT-2010 Time: 08:15

Lab File ID: 1006A04.D Init. Calib. Date(s): 05-OCT-2 05-OCT-2

Sample No: 8260 CCAL Init. Calib. Times : 08:04 11:50

Compound	RRF	RRF	MIN RRF	%D	MAX %D
1,1,2-trichloroethane	.4174	.3994	.1	4	20
chlorodibromomethane	.61278	.60535	.1	1	20
1,3-dichloropropane	.838	.81749	.05	2	20
1,2-dibromoethane	.4927	.47494	.1	4	20
2-hexanone	.17157	.1769	.1	-3	20
chlorobenzene	2.2999	2.2637	.5	2	20
ethyl benzene	3.8645	4.0214	.1	-4	20
1,1,1,2-tetrachloroethane	.65284	.7099	.05	-9	20
p/m xylene	1.5739	1.6795	.1	-7	20
o xylene	1.4664	1.5891	.3	-8	20
styrene	2.4058	2.6349	.3	-10	20
bromoform	.54059	.56501	.1	-5	20
isopropylbenzene	3.8767	4.0239	.1	-4	20
bromobenzene	1.5603	1.6509	.05	-6	20
n-propylbenzene	6.8713	7.4593	.05	-9	20
1,1,2,2,-tetrachloroethane	.78826	.85643	.3	-9	20
2-chlorotoluene	4.6231	4.7242	.05	-2	20
1,2,3-trichloropropane	.64064	.70479	.05	-10	20
1,3,5-trimethylbenzene	5.8345	6.3640	.05	-9	20
4-chorotoluene	4.1862	4.7636	.05	-14	20
tert-butylbenzene	4.2081	4.3543	.05	-3	20
1,2,4-trimethylbenzene	4.8376	5.1952	.05	-7	20
sec-butylbenzene	5.9625	6.3640	.05	-7	20
p-isopropyltoluene	4.9269	5.4212	.05	-10	20
1,3-dichlorobenzene	3.0954	3.2744	.6	-6	20
1,4-dichlorobenzene	3.2173	3.3462	.5	-4	20
n-butylbenzene	4.0098	4.3688	.05	-9	20
1,2-dichlorobenzene	2.8389	2.9437	.4	-4	20
1,2-dibromo-3-chloropropane	.1168	.11647	.05	0	20
hexachlorobutadiene	.7541	.80314	.05	-7	20
1,2,4-trichlorobenzene	1.6472	1.8328	.2	-11	20
naphthalene	2.6299	2.7283	.05	-4	20
1,2,3-trichlorobenzene	1.3219	1.4532	.05	-10	20
dibromofluoromethane	.27846	.28547	.05	-3	20
1,2-dichloroethane-d4	.24541	.23616	.05	4	20
toluene-d8	1.2461	1.2713	.05	-2	20
4-bromofluorobenzene	.77738	.71037	.05	9	20

FORM VII MCP-8260-10



ANALYTICAL REPORT

Lab Number:	L1015551
Client:	ERM Consulting & Engineering, Inc. 399 Boylston Street 6th Floor Boston, MA 02116
ATTN:	Jason Flattery
Phone:	(617) 646-7816
Project Name:	RAYTHEON WAYLAND
Project Number:	0114119
Report Date:	10/12/10

Certifications & Approvals: MA (M-MA086), NY NELAC (11148), CT (PH-0574), NH (2003), NJ (MA935), RI (LAO00065), ME (MA0086), 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: 0114119

Lab Number: L1015551
Report Date: 10/12/10

Alpha Sample ID	Client ID	Sample Location	Collection Date/Time
L1015551-01	MW-115-201004-01	WAYLAND, MA	10/04/10 16:15
L1015551-02	MW-205M-201005-01	WAYLAND, MA	10/05/10 12:00
L1015551-03	MW-40-201005-01	WAYLAND, MA	10/05/10 13:55
L1015551-04	MW-40S-201005-01	WAYLAND, MA	10/05/10 15:25
L1015551-05	MW-207M-201005-01	WAYLAND, MA	10/05/10 14:00
L1015551-06	MW-208M-201005-01	WAYLAND, MA	10/05/10 14:30
L1015551-07	MW-208D-201005-01	WAYLAND, MA	10/05/10 14:00
L1015551-08	DUP-003-201005-01	WAYLAND, MA	10/05/10 07:00
L1015551-09	DUP-004-201005-01	WAYLAND, MA	10/05/10 11:11
L1015551-10	TB-002-201005-01	WAYLAND, MA	10/04/10 00:00

Project Name: RAYTHEON WAYLAND

Lab Number: L1015551

Project Number: 0114119

Report Date: 10/12/10

MADEP MCP Response Action Analytical Report Certification

This form provides certifications for all samples performed by MCP methods. Please refer to the Sample Results and Container Information sections of this report for specification of MCP methods used for each analysis. The following questions pertain only to MCP Analytical Methods.

An affirmative response to questions A through F is required for "Presumptive Certainty" status		
A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	YES
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	YES
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	YES
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data?"	YES
E a.	VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	N/A
E b.	APH and TO-15 Methods only: Was the complete analyte list reported for each method?	N/A
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	YES
A response to questions G, H and I is required for "Presumptive Certainty" status		
G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	NO
H	Were all QC performance standards specified in the CAM protocol(s) achieved?	NO
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	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
Project Number: 0114119

Lab Number: L1015551
Report Date: 10/12/10

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

For additional information, please contact Client Services at 800-624-9220.

MCP Related Narratives

Volatile Organics

L1015551-02 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 G:

L1015551-02 and -08: One or more of the target analytes did not achieve the requested CAM reporting limits.

In reference to question H:

The WG436706-1/-2 LCS/LCSD RPD, associated with L1015551-02 through -09, is above the acceptance criteria for trans-1,2-Dichloroethene (21%); however, the individual LCS/LCSD recoveries are within method limits.

The initial calibration, associated with L1015551-01, utilized a quadratic fit for Chloromethane and

Project Name: RAYTHEON WAYLAND
Project Number: 0114119

Lab Number: L1015551
Report Date: 10/12/10

Case Narrative (continued)

Chloroethane.

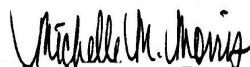
The initial calibration, associated with L1015551-02 through -10, utilized a quadratic fit for Chloromethane, Chloroethane and 1,1-Dichloroethane.

In reference to question I:

All samples were analyzed for a subset of MCP compounds per the Chain of Custody.

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: 10/12/10

ORGANICS

VOLATILES

Project Name: RAYTHEON WAYLAND
Project Number: 0114119

Lab Number: L1015551
Report Date: 10/12/10

SAMPLE RESULTS

Lab ID: L1015551-01
Client ID: MW-115-201004-01
Sample Location: WAYLAND, MA
Matrix: Water
Analytical Method: 97,8260B
Analytical Date: 10/11/10 14:52
Analyst: MM

Date Collected: 10/04/10 16:15
Date Received: 10/05/10
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND		ug/l	2.0	--	1
1,1-Dichloroethane	ND		ug/l	1.0	--	1
Chloroform	ND		ug/l	1.0	--	1
Carbon tetrachloride	ND		ug/l	1.0	--	1
1,2-Dichloropropane	ND		ug/l	1.0	--	1
Dibromochloromethane	ND		ug/l	1.0	--	1
1,1,2-Trichloroethane	ND		ug/l	1.0	--	1
Tetrachloroethene	ND		ug/l	1.0	--	1
Chlorobenzene	ND		ug/l	1.0	--	1
1,2-Dichloroethane	ND		ug/l	1.0	--	1
1,1,1-Trichloroethane	2.5		ug/l	1.0	--	1
Bromodichloromethane	ND		ug/l	1.0	--	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	1.0	--	1
Chloromethane	ND		ug/l	2.0	--	1
Vinyl chloride	ND		ug/l	1.0	--	1
Chloroethane	ND		ug/l	2.0	--	1
1,1-Dichloroethene	ND		ug/l	1.0	--	1
trans-1,2-Dichloroethene	ND		ug/l	1.0	--	1
Trichloroethene	19		ug/l	1.0	--	1
1,2-Dichlorobenzene	ND		ug/l	1.0	--	1
1,3-Dichlorobenzene	ND		ug/l	1.0	--	1
1,4-Dichlorobenzene	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	1.5		ug/l	1.0	--	1
Dichlorodifluoromethane	ND		ug/l	2.0	--	1
1,2-Dibromoethane	ND		ug/l	2.0	--	1
1,3-Dichloropropane	ND		ug/l	2.0	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--	1

Project Name: RAYTHEON WAYLAND**Lab Number:** L1015551**Project Number:** 0114119**Report Date:** 10/12/10**SAMPLE RESULTS**

Lab ID: L1015551-01
 Client ID: MW-115-201004-01
 Sample Location: WAYLAND, MA

Date Collected: 10/04/10 16:15
 Date Received: 10/05/10
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
o-Chlorotoluene	ND		ug/l	2.0	--	1
p-Chlorotoluene	ND		ug/l	2.0	--	1
Hexachlorobutadiene	ND		ug/l	0.60	--	1
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	118		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	113		70-130
Dibromofluoromethane	122		70-130

Project Name: RAYTHEON WAYLAND

Lab Number: L1015551

Project Number: 0114119

Report Date: 10/12/10

SAMPLE RESULTS

Lab ID: L1015551-02 D
 Client ID: MW-205M-201005-01
 Sample Location: WAYLAND, MA
 Matrix: Water
 Analytical Method: 97,8260B
 Analytical Date: 10/08/10 11:53
 Analyst: MM

Date Collected: 10/05/10 12:00
 Date Received: 10/05/10
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND		ug/l	8.0	--	4
1,1-Dichloroethane	ND		ug/l	4.0	--	4
Chloroform	ND		ug/l	4.0	--	4
Carbon tetrachloride	ND		ug/l	4.0	--	4
1,2-Dichloropropane	ND		ug/l	4.0	--	4
Dibromochloromethane	ND		ug/l	4.0	--	4
1,1,2-Trichloroethane	ND		ug/l	4.0	--	4
Tetrachloroethene	ND		ug/l	4.0	--	4
Chlorobenzene	ND		ug/l	4.0	--	4
1,2-Dichloroethane	ND		ug/l	4.0	--	4
1,1,1-Trichloroethane	59		ug/l	4.0	--	4
Bromodichloromethane	ND		ug/l	4.0	--	4
trans-1,3-Dichloropropene	ND		ug/l	2.0	--	4
cis-1,3-Dichloropropene	ND		ug/l	2.0	--	4
Bromoform	ND		ug/l	8.0	--	4
1,1,2,2-Tetrachloroethane	ND		ug/l	4.0	--	4
Chloromethane	ND		ug/l	8.0	--	4
Vinyl chloride	ND		ug/l	4.0	--	4
Chloroethane	ND		ug/l	8.0	--	4
1,1-Dichloroethene	ND		ug/l	4.0	--	4
trans-1,2-Dichloroethene	ND		ug/l	4.0	--	4
Trichloroethene	210		ug/l	4.0	--	4
1,2-Dichlorobenzene	ND		ug/l	4.0	--	4
1,3-Dichlorobenzene	ND		ug/l	4.0	--	4
1,4-Dichlorobenzene	ND		ug/l	4.0	--	4
cis-1,2-Dichloroethene	ND		ug/l	4.0	--	4
Dichlorodifluoromethane	ND		ug/l	8.0	--	4
1,2-Dibromoethane	ND		ug/l	8.0	--	4
1,3-Dichloropropane	ND		ug/l	8.0	--	4
1,1,1,2-Tetrachloroethane	ND		ug/l	4.0	--	4

Project Name: RAYTHEON WAYLAND**Lab Number:** L1015551**Project Number:** 0114119**Report Date:** 10/12/10**SAMPLE RESULTS**

Lab ID: L1015551-02 D

Date Collected: 10/05/10 12:00

Client ID: MW-205M-201005-01

Date Received: 10/05/10

Sample Location: WAYLAND, MA

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
o-Chlorotoluene	ND		ug/l	8.0	--	4
p-Chlorotoluene	ND		ug/l	8.0	--	4
Hexachlorobutadiene	ND		ug/l	2.4	--	4
1,2,4-Trichlorobenzene	ND		ug/l	8.0	--	4

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	116		70-130
Toluene-d8	93		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	109		70-130

Project Name: RAYTHEON WAYLAND
Project Number: 0114119

Lab Number: L1015551
Report Date: 10/12/10

SAMPLE RESULTS

Lab ID: L1015551-03
Client ID: MW-40-201005-01
Sample Location: WAYLAND, MA
Matrix: Water
Analytical Method: 97,8260B
Analytical Date: 10/08/10 12:26
Analyst: MM

Date Collected: 10/05/10 13:55
Date Received: 10/05/10
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND		ug/l	2.0	--	1
1,1-Dichloroethane	ND		ug/l	1.0	--	1
Chloroform	ND		ug/l	1.0	--	1
Carbon tetrachloride	ND		ug/l	1.0	--	1
1,2-Dichloropropane	ND		ug/l	1.0	--	1
Dibromochloromethane	ND		ug/l	1.0	--	1
1,1,2-Trichloroethane	ND		ug/l	1.0	--	1
Tetrachloroethene	ND		ug/l	1.0	--	1
Chlorobenzene	ND		ug/l	1.0	--	1
1,2-Dichloroethane	ND		ug/l	1.0	--	1
1,1,1-Trichloroethane	ND		ug/l	1.0	--	1
Bromodichloromethane	ND		ug/l	1.0	--	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	1.0	--	1
Chloromethane	ND		ug/l	2.0	--	1
Vinyl chloride	ND		ug/l	1.0	--	1
Chloroethane	ND		ug/l	2.0	--	1
1,1-Dichloroethene	ND		ug/l	1.0	--	1
trans-1,2-Dichloroethene	ND		ug/l	1.0	--	1
Trichloroethene	3.9		ug/l	1.0	--	1
1,2-Dichlorobenzene	ND		ug/l	1.0	--	1
1,3-Dichlorobenzene	ND		ug/l	1.0	--	1
1,4-Dichlorobenzene	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	ND		ug/l	1.0	--	1
Dichlorodifluoromethane	ND		ug/l	2.0	--	1
1,2-Dibromoethane	ND		ug/l	2.0	--	1
1,3-Dichloropropane	ND		ug/l	2.0	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--	1

Project Name: RAYTHEON WAYLAND**Lab Number:** L1015551**Project Number:** 0114119**Report Date:** 10/12/10**SAMPLE RESULTS**

Lab ID: L1015551-03
 Client ID: MW-40-201005-01
 Sample Location: WAYLAND, MA

Date Collected: 10/05/10 13:55
 Date Received: 10/05/10
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
o-Chlorotoluene	ND		ug/l	2.0	--	1
p-Chlorotoluene	ND		ug/l	2.0	--	1
Hexachlorobutadiene	ND		ug/l	0.60	--	1
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	114		70-130
Toluene-d8	93		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	114		70-130

Project Name: RAYTHEON WAYLAND
Project Number: 0114119

Lab Number: L1015551
Report Date: 10/12/10

SAMPLE RESULTS

Lab ID: L1015551-04
Client ID: MW-40S-201005-01
Sample Location: WAYLAND, MA
Matrix: Water
Analytical Method: 97,8260B
Analytical Date: 10/08/10 12:58
Analyst: MM

Date Collected: 10/05/10 15:25
Date Received: 10/05/10
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND		ug/l	2.0	--	1
1,1-Dichloroethane	ND		ug/l	1.0	--	1
Chloroform	11		ug/l	1.0	--	1
Carbon tetrachloride	ND		ug/l	1.0	--	1
1,2-Dichloropropane	ND		ug/l	1.0	--	1
Dibromochloromethane	ND		ug/l	1.0	--	1
1,1,2-Trichloroethane	ND		ug/l	1.0	--	1
Tetrachloroethene	ND		ug/l	1.0	--	1
Chlorobenzene	ND		ug/l	1.0	--	1
1,2-Dichloroethane	ND		ug/l	1.0	--	1
1,1,1-Trichloroethane	ND		ug/l	1.0	--	1
Bromodichloromethane	ND		ug/l	1.0	--	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	1.0	--	1
Chloromethane	ND		ug/l	2.0	--	1
Vinyl chloride	ND		ug/l	1.0	--	1
Chloroethane	ND		ug/l	2.0	--	1
1,1-Dichloroethene	ND		ug/l	1.0	--	1
trans-1,2-Dichloroethene	ND		ug/l	1.0	--	1
Trichloroethene	4.5		ug/l	1.0	--	1
1,2-Dichlorobenzene	ND		ug/l	1.0	--	1
1,3-Dichlorobenzene	ND		ug/l	1.0	--	1
1,4-Dichlorobenzene	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	ND		ug/l	1.0	--	1
Dichlorodifluoromethane	ND		ug/l	2.0	--	1
1,2-Dibromoethane	ND		ug/l	2.0	--	1
1,3-Dichloropropane	ND		ug/l	2.0	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--	1

Project Name: RAYTHEON WAYLAND**Lab Number:** L1015551**Project Number:** 0114119**Report Date:** 10/12/10**SAMPLE RESULTS**

Lab ID: L1015551-04
 Client ID: MW-40S-201005-01
 Sample Location: WAYLAND, MA

Date Collected: 10/05/10 15:25
 Date Received: 10/05/10
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
o-Chlorotoluene	ND		ug/l	2.0	--	1
p-Chlorotoluene	ND		ug/l	2.0	--	1
Hexachlorobutadiene	ND		ug/l	0.60	--	1
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	116		70-130
Toluene-d8	92		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	121		70-130

Project Name: RAYTHEON WAYLAND
Project Number: 0114119

Lab Number: L1015551
Report Date: 10/12/10

SAMPLE RESULTS

Lab ID: L1015551-05
Client ID: MW-207M-201005-01
Sample Location: WAYLAND, MA
Matrix: Water
Analytical Method: 97,8260B
Analytical Date: 10/08/10 13:31
Analyst: MM

Date Collected: 10/05/10 14:00
Date Received: 10/05/10
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND		ug/l	2.0	--	1
1,1-Dichloroethane	1.2		ug/l	1.0	--	1
Chloroform	ND		ug/l	1.0	--	1
Carbon tetrachloride	ND		ug/l	1.0	--	1
1,2-Dichloropropane	ND		ug/l	1.0	--	1
Dibromochloromethane	ND		ug/l	1.0	--	1
1,1,2-Trichloroethane	ND		ug/l	1.0	--	1
Tetrachloroethene	ND		ug/l	1.0	--	1
Chlorobenzene	ND		ug/l	1.0	--	1
1,2-Dichloroethane	ND		ug/l	1.0	--	1
1,1,1-Trichloroethane	ND		ug/l	1.0	--	1
Bromodichloromethane	ND		ug/l	1.0	--	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	1.0	--	1
Chloromethane	ND		ug/l	2.0	--	1
Vinyl chloride	ND		ug/l	1.0	--	1
Chloroethane	ND		ug/l	2.0	--	1
1,1-Dichloroethene	1.4		ug/l	1.0	--	1
trans-1,2-Dichloroethene	ND		ug/l	1.0	--	1
Trichloroethene	27		ug/l	1.0	--	1
1,2-Dichlorobenzene	ND		ug/l	1.0	--	1
1,3-Dichlorobenzene	ND		ug/l	1.0	--	1
1,4-Dichlorobenzene	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	2.1		ug/l	1.0	--	1
Dichlorodifluoromethane	ND		ug/l	2.0	--	1
1,2-Dibromoethane	ND		ug/l	2.0	--	1
1,3-Dichloropropane	ND		ug/l	2.0	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--	1

Project Name: RAYTHEON WAYLAND**Lab Number:** L1015551**Project Number:** 0114119**Report Date:** 10/12/10**SAMPLE RESULTS**

Lab ID: L1015551-05
 Client ID: MW-207M-201005-01
 Sample Location: WAYLAND, MA

Date Collected: 10/05/10 14:00
 Date Received: 10/05/10
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
o-Chlorotoluene	ND		ug/l	2.0	--	1
p-Chlorotoluene	ND		ug/l	2.0	--	1
Hexachlorobutadiene	ND		ug/l	0.60	--	1
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	115		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	113		70-130

Project Name: RAYTHEON WAYLAND
Project Number: 0114119

Lab Number: L1015551
Report Date: 10/12/10

SAMPLE RESULTS

Lab ID: L1015551-06
Client ID: MW-208M-201005-01
Sample Location: WAYLAND, MA
Matrix: Water
Analytical Method: 97,8260B
Analytical Date: 10/08/10 14:03
Analyst: MM

Date Collected: 10/05/10 14:30
Date Received: 10/05/10
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND		ug/l	2.0	--	1
1,1-Dichloroethane	ND		ug/l	1.0	--	1
Chloroform	ND		ug/l	1.0	--	1
Carbon tetrachloride	ND		ug/l	1.0	--	1
1,2-Dichloropropane	ND		ug/l	1.0	--	1
Dibromochloromethane	ND		ug/l	1.0	--	1
1,1,2-Trichloroethane	ND		ug/l	1.0	--	1
Tetrachloroethene	ND		ug/l	1.0	--	1
Chlorobenzene	ND		ug/l	1.0	--	1
1,2-Dichloroethane	ND		ug/l	1.0	--	1
1,1,1-Trichloroethane	ND		ug/l	1.0	--	1
Bromodichloromethane	ND		ug/l	1.0	--	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	1.0	--	1
Chloromethane	ND		ug/l	2.0	--	1
Vinyl chloride	ND		ug/l	1.0	--	1
Chloroethane	ND		ug/l	2.0	--	1
1,1-Dichloroethene	ND		ug/l	1.0	--	1
trans-1,2-Dichloroethene	ND		ug/l	1.0	--	1
Trichloroethene	6.5		ug/l	1.0	--	1
1,2-Dichlorobenzene	ND		ug/l	1.0	--	1
1,3-Dichlorobenzene	ND		ug/l	1.0	--	1
1,4-Dichlorobenzene	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	ND		ug/l	1.0	--	1
Dichlorodifluoromethane	ND		ug/l	2.0	--	1
1,2-Dibromoethane	ND		ug/l	2.0	--	1
1,3-Dichloropropane	ND		ug/l	2.0	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--	1

Project Name: RAYTHEON WAYLAND**Lab Number:** L1015551**Project Number:** 0114119**Report Date:** 10/12/10**SAMPLE RESULTS**

Lab ID: L1015551-06
 Client ID: MW-208M-201005-01
 Sample Location: WAYLAND, MA

Date Collected: 10/05/10 14:30
 Date Received: 10/05/10
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
o-Chlorotoluene	ND		ug/l	2.0	--	1
p-Chlorotoluene	ND		ug/l	2.0	--	1
Hexachlorobutadiene	ND		ug/l	0.60	--	1
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	114		70-130
Toluene-d8	93		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	118		70-130

Project Name: RAYTHEON WAYLAND
Project Number: 0114119

Lab Number: L1015551
Report Date: 10/12/10

SAMPLE RESULTS

Lab ID: L1015551-07
Client ID: MW-208D-201005-01
Sample Location: WAYLAND, MA
Matrix: Water
Analytical Method: 97,8260B
Analytical Date: 10/08/10 14:36
Analyst: MM

Date Collected: 10/05/10 14:00
Date Received: 10/05/10
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND		ug/l	2.0	--	1
1,1-Dichloroethane	ND		ug/l	1.0	--	1
Chloroform	ND		ug/l	1.0	--	1
Carbon tetrachloride	ND		ug/l	1.0	--	1
1,2-Dichloropropane	ND		ug/l	1.0	--	1
Dibromochloromethane	ND		ug/l	1.0	--	1
1,1,2-Trichloroethane	ND		ug/l	1.0	--	1
Tetrachloroethene	ND		ug/l	1.0	--	1
Chlorobenzene	ND		ug/l	1.0	--	1
1,2-Dichloroethane	ND		ug/l	1.0	--	1
1,1,1-Trichloroethane	ND		ug/l	1.0	--	1
Bromodichloromethane	ND		ug/l	1.0	--	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	1.0	--	1
Chloromethane	ND		ug/l	2.0	--	1
Vinyl chloride	ND		ug/l	1.0	--	1
Chloroethane	ND		ug/l	2.0	--	1
1,1-Dichloroethene	ND		ug/l	1.0	--	1
trans-1,2-Dichloroethene	ND		ug/l	1.0	--	1
Trichloroethene	5.2		ug/l	1.0	--	1
1,2-Dichlorobenzene	ND		ug/l	1.0	--	1
1,3-Dichlorobenzene	ND		ug/l	1.0	--	1
1,4-Dichlorobenzene	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	1.3		ug/l	1.0	--	1
Dichlorodifluoromethane	ND		ug/l	2.0	--	1
1,2-Dibromoethane	ND		ug/l	2.0	--	1
1,3-Dichloropropane	ND		ug/l	2.0	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--	1

Project Name: RAYTHEON WAYLAND**Lab Number:** L1015551**Project Number:** 0114119**Report Date:** 10/12/10**SAMPLE RESULTS**

Lab ID: L1015551-07
 Client ID: MW-208D-201005-01
 Sample Location: WAYLAND, MA

Date Collected: 10/05/10 14:00
 Date Received: 10/05/10
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
o-Chlorotoluene	ND		ug/l	2.0	--	1
p-Chlorotoluene	ND		ug/l	2.0	--	1
Hexachlorobutadiene	ND		ug/l	0.60	--	1
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	116		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	92		70-130
Dibromofluoromethane	116		70-130

Project Name: RAYTHEON WAYLAND

Lab Number: L1015551

Project Number: 0114119

Report Date: 10/12/10

SAMPLE RESULTS

Lab ID: L1015551-08 D
 Client ID: DUP-003-201005-01
 Sample Location: WAYLAND, MA
 Matrix: Water
 Analytical Method: 97,8260B
 Analytical Date: 10/08/10 15:08
 Analyst: MM

Date Collected: 10/05/10 07:00
 Date Received: 10/05/10
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND		ug/l	8.0	--	4
1,1-Dichloroethane	ND		ug/l	4.0	--	4
Chloroform	ND		ug/l	4.0	--	4
Carbon tetrachloride	ND		ug/l	4.0	--	4
1,2-Dichloropropane	ND		ug/l	4.0	--	4
Dibromochloromethane	ND		ug/l	4.0	--	4
1,1,2-Trichloroethane	ND		ug/l	4.0	--	4
Tetrachloroethene	ND		ug/l	4.0	--	4
Chlorobenzene	ND		ug/l	4.0	--	4
1,2-Dichloroethane	ND		ug/l	4.0	--	4
1,1,1-Trichloroethane	59		ug/l	4.0	--	4
Bromodichloromethane	ND		ug/l	4.0	--	4
trans-1,3-Dichloropropene	ND		ug/l	2.0	--	4
cis-1,3-Dichloropropene	ND		ug/l	2.0	--	4
Bromoform	ND		ug/l	8.0	--	4
1,1,2,2-Tetrachloroethane	ND		ug/l	4.0	--	4
Chloromethane	ND		ug/l	8.0	--	4
Vinyl chloride	ND		ug/l	4.0	--	4
Chloroethane	ND		ug/l	8.0	--	4
1,1-Dichloroethene	ND		ug/l	4.0	--	4
trans-1,2-Dichloroethene	ND		ug/l	4.0	--	4
Trichloroethene	220		ug/l	4.0	--	4
1,2-Dichlorobenzene	ND		ug/l	4.0	--	4
1,3-Dichlorobenzene	ND		ug/l	4.0	--	4
1,4-Dichlorobenzene	ND		ug/l	4.0	--	4
cis-1,2-Dichloroethene	ND		ug/l	4.0	--	4
Dichlorodifluoromethane	ND		ug/l	8.0	--	4
1,2-Dibromoethane	ND		ug/l	8.0	--	4
1,3-Dichloropropane	ND		ug/l	8.0	--	4
1,1,1,2-Tetrachloroethane	ND		ug/l	4.0	--	4

Project Name: RAYTHEON WAYLAND**Lab Number:** L1015551**Project Number:** 0114119**Report Date:** 10/12/10**SAMPLE RESULTS**

Lab ID: L1015551-08 D

Date Collected: 10/05/10 07:00

Client ID: DUP-003-201005-01

Date Received: 10/05/10

Sample Location: WAYLAND, MA

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
o-Chlorotoluene	ND		ug/l	8.0	--	4
p-Chlorotoluene	ND		ug/l	8.0	--	4
Hexachlorobutadiene	ND		ug/l	2.4	--	4
1,2,4-Trichlorobenzene	ND		ug/l	8.0	--	4

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	111		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	115		70-130

Project Name: RAYTHEON WAYLAND
Project Number: 0114119

Lab Number: L1015551
Report Date: 10/12/10

SAMPLE RESULTS

Lab ID: L1015551-09
Client ID: DUP-004-201005-01
Sample Location: WAYLAND, MA
Matrix: Water
Analytical Method: 97,8260B
Analytical Date: 10/08/10 15:40
Analyst: MM

Date Collected: 10/05/10 11:11
Date Received: 10/05/10
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND		ug/l	2.0	--	1
1,1-Dichloroethane	1.2		ug/l	1.0	--	1
Chloroform	ND		ug/l	1.0	--	1
Carbon tetrachloride	ND		ug/l	1.0	--	1
1,2-Dichloropropane	ND		ug/l	1.0	--	1
Dibromochloromethane	ND		ug/l	1.0	--	1
1,1,2-Trichloroethane	ND		ug/l	1.0	--	1
Tetrachloroethene	ND		ug/l	1.0	--	1
Chlorobenzene	ND		ug/l	1.0	--	1
1,2-Dichloroethane	ND		ug/l	1.0	--	1
1,1,1-Trichloroethane	ND		ug/l	1.0	--	1
Bromodichloromethane	ND		ug/l	1.0	--	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	1.0	--	1
Chloromethane	ND		ug/l	2.0	--	1
Vinyl chloride	ND		ug/l	1.0	--	1
Chloroethane	ND		ug/l	2.0	--	1
1,1-Dichloroethene	1.2		ug/l	1.0	--	1
trans-1,2-Dichloroethene	ND		ug/l	1.0	--	1
Trichloroethene	27		ug/l	1.0	--	1
1,2-Dichlorobenzene	ND		ug/l	1.0	--	1
1,3-Dichlorobenzene	ND		ug/l	1.0	--	1
1,4-Dichlorobenzene	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	2.0		ug/l	1.0	--	1
Dichlorodifluoromethane	ND		ug/l	2.0	--	1
1,2-Dibromoethane	ND		ug/l	2.0	--	1
1,3-Dichloropropane	ND		ug/l	2.0	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--	1

Project Name: RAYTHEON WAYLAND**Lab Number:** L1015551**Project Number:** 0114119**Report Date:** 10/12/10**SAMPLE RESULTS**

Lab ID: L1015551-09
 Client ID: DUP-004-201005-01
 Sample Location: WAYLAND, MA

Date Collected: 10/05/10 11:11
 Date Received: 10/05/10
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
o-Chlorotoluene	ND		ug/l	2.0	--	1
p-Chlorotoluene	ND		ug/l	2.0	--	1
Hexachlorobutadiene	ND		ug/l	0.60	--	1
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	114		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	115		70-130

Project Name: RAYTHEON WAYLAND
Project Number: 0114119

Lab Number: L1015551
Report Date: 10/12/10

SAMPLE RESULTS

Lab ID: L1015551-10
Client ID: TB-002-201005-01
Sample Location: WAYLAND, MA
Matrix: Water
Analytical Method: 97,8260B
Analytical Date: 10/07/10 10:52
Analyst: MM

Date Collected: 10/04/10 00:00
Date Received: 10/05/10
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND		ug/l	2.0	--	1
1,1-Dichloroethane	ND		ug/l	1.0	--	1
Chloroform	ND		ug/l	1.0	--	1
Carbon tetrachloride	ND		ug/l	1.0	--	1
1,2-Dichloropropane	ND		ug/l	1.0	--	1
Dibromochloromethane	ND		ug/l	1.0	--	1
1,1,2-Trichloroethane	ND		ug/l	1.0	--	1
Tetrachloroethene	ND		ug/l	1.0	--	1
Chlorobenzene	ND		ug/l	1.0	--	1
1,2-Dichloroethane	ND		ug/l	1.0	--	1
1,1,1-Trichloroethane	ND		ug/l	1.0	--	1
Bromodichloromethane	ND		ug/l	1.0	--	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	1.0	--	1
Chloromethane	ND		ug/l	2.0	--	1
Vinyl chloride	ND		ug/l	1.0	--	1
Chloroethane	ND		ug/l	2.0	--	1
1,1-Dichloroethene	ND		ug/l	1.0	--	1
trans-1,2-Dichloroethene	ND		ug/l	1.0	--	1
Trichloroethene	ND		ug/l	1.0	--	1
1,2-Dichlorobenzene	ND		ug/l	1.0	--	1
1,3-Dichlorobenzene	ND		ug/l	1.0	--	1
1,4-Dichlorobenzene	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	ND		ug/l	1.0	--	1
Dichlorodifluoromethane	ND		ug/l	2.0	--	1
1,2-Dibromoethane	ND		ug/l	2.0	--	1
1,3-Dichloropropane	ND		ug/l	2.0	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--	1

Project Name: RAYTHEON WAYLAND**Lab Number:** L1015551**Project Number:** 0114119**Report Date:** 10/12/10**SAMPLE RESULTS**

Lab ID: L1015551-10
 Client ID: TB-002-201005-01
 Sample Location: WAYLAND, MA

Date Collected: 10/04/10 00:00
 Date Received: 10/05/10
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
o-Chlorotoluene	ND		ug/l	2.0	--	1
p-Chlorotoluene	ND		ug/l	2.0	--	1
Hexachlorobutadiene	ND		ug/l	0.60	--	1
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	111		70-130

Project Name: RAYTHEON WAYLAND
Project Number: 0114119

Lab Number: L1015551
Report Date: 10/12/10

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260B
Analytical Date: 10/07/10 10:20
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics - Westborough Lab for sample(s): 10 Batch: WG436460-3					
Methylene chloride	ND		ug/l	2.0	--
1,1-Dichloroethane	ND		ug/l	1.0	--
Chloroform	ND		ug/l	1.0	--
Carbon tetrachloride	ND		ug/l	1.0	--
1,2-Dichloropropane	ND		ug/l	1.0	--
Dibromochloromethane	ND		ug/l	1.0	--
1,1,2-Trichloroethane	ND		ug/l	1.0	--
Tetrachloroethene	ND		ug/l	1.0	--
Chlorobenzene	ND		ug/l	1.0	--
Trichlorofluoromethane	ND		ug/l	2.0	--
1,2-Dichloroethane	ND		ug/l	1.0	--
1,1,1-Trichloroethane	ND		ug/l	1.0	--
Bromodichloromethane	ND		ug/l	1.0	--
trans-1,3-Dichloropropene	ND		ug/l	0.50	--
cis-1,3-Dichloropropene	ND		ug/l	0.50	--
1,1-Dichloropropene	ND		ug/l	2.0	--
Bromoform	ND		ug/l	2.0	--
1,1,2,2-Tetrachloroethane	ND		ug/l	1.0	--
Benzene	ND		ug/l	1.0	--
Toluene	ND		ug/l	1.0	--
Ethylbenzene	ND		ug/l	1.0	--
Chloromethane	ND		ug/l	2.0	--
Bromomethane	ND		ug/l	2.0	--
Vinyl chloride	ND		ug/l	1.0	--
Chloroethane	ND		ug/l	2.0	--
1,1-Dichloroethene	ND		ug/l	1.0	--
trans-1,2-Dichloroethene	ND		ug/l	1.0	--
Trichloroethene	ND		ug/l	1.0	--
1,2-Dichlorobenzene	ND		ug/l	1.0	--
1,3-Dichlorobenzene	ND		ug/l	1.0	--
1,4-Dichlorobenzene	ND		ug/l	1.0	--

Project Name: RAYTHEON WAYLAND
Project Number: 0114119

Lab Number: L1015551
Report Date: 10/12/10

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260B
Analytical Date: 10/07/10 10:20
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics - Westborough Lab for sample(s): 10 Batch: WG436460-3					
Methyl tert butyl ether	ND		ug/l	2.0	--
p/m-Xylene	ND		ug/l	2.0	--
o-Xylene	ND		ug/l	1.0	--
cis-1,2-Dichloroethene	ND		ug/l	1.0	--
Dibromomethane	ND		ug/l	2.0	--
1,2,3-Trichloropropane	ND		ug/l	2.0	--
Styrene	ND		ug/l	1.0	--
Dichlorodifluoromethane	ND		ug/l	2.0	--
Acetone	ND		ug/l	5.0	--
Carbon disulfide	ND		ug/l	2.0	--
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	2.0	--
Tetrahydrofuran	ND		ug/l	10	--
2,2-Dichloropropane	ND		ug/l	2.0	--
1,2-Dibromoethane	ND		ug/l	2.0	--
1,3-Dichloropropane	ND		ug/l	2.0	--
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--
Bromobenzene	ND		ug/l	2.0	--
n-Butylbenzene	ND		ug/l	2.0	--
sec-Butylbenzene	ND		ug/l	2.0	--
tert-Butylbenzene	ND		ug/l	2.0	--
o-Chlorotoluene	ND		ug/l	2.0	--
p-Chlorotoluene	ND		ug/l	2.0	--
1,2-Dibromo-3-chloropropane	ND		ug/l	2.0	--
Hexachlorobutadiene	ND		ug/l	0.60	--
Isopropylbenzene	ND		ug/l	2.0	--
p-Isopropyltoluene	ND		ug/l	2.0	--
Naphthalene	ND		ug/l	2.0	--
n-Propylbenzene	ND		ug/l	2.0	--

Project Name: RAYTHEON WAYLAND

Lab Number: L1015551

Project Number: 0114119

Report Date: 10/12/10

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 97,8260B
 Analytical Date: 10/07/10 10:20
 Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics - Westborough Lab for sample(s): 10 Batch: WG436460-3					
1,2,3-Trichlorobenzene	ND		ug/l	2.0	--
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--
1,3,5-Trimethylbenzene	ND		ug/l	2.0	--
1,2,4-Trimethylbenzene	ND		ug/l	2.0	--
Ethyl ether	ND		ug/l	2.0	--
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	102		70-130
Dibromofluoromethane	110		70-130

Project Name: RAYTHEON WAYLAND
Project Number: 0114119

Lab Number: L1015551
Report Date: 10/12/10

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260B
Analytical Date: 10/08/10 09:11
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics - Westborough Lab for sample(s): 02-09 Batch: WG436706-3					
Methylene chloride	ND		ug/l	2.0	--
1,1-Dichloroethane	ND		ug/l	1.0	--
Chloroform	ND		ug/l	1.0	--
Carbon tetrachloride	ND		ug/l	1.0	--
1,2-Dichloropropane	ND		ug/l	1.0	--
Dibromochloromethane	ND		ug/l	1.0	--
1,1,2-Trichloroethane	ND		ug/l	1.0	--
Tetrachloroethene	ND		ug/l	1.0	--
Chlorobenzene	ND		ug/l	1.0	--
Trichlorofluoromethane	ND		ug/l	2.0	--
1,2-Dichloroethane	ND		ug/l	1.0	--
1,1,1-Trichloroethane	ND		ug/l	1.0	--
Bromodichloromethane	ND		ug/l	1.0	--
trans-1,3-Dichloropropene	ND		ug/l	0.50	--
cis-1,3-Dichloropropene	ND		ug/l	0.50	--
1,1-Dichloropropene	ND		ug/l	2.0	--
Bromoform	ND		ug/l	2.0	--
1,1,2,2-Tetrachloroethane	ND		ug/l	1.0	--
Benzene	ND		ug/l	1.0	--
Toluene	ND		ug/l	1.0	--
Ethylbenzene	ND		ug/l	1.0	--
Chloromethane	ND		ug/l	2.0	--
Bromomethane	ND		ug/l	2.0	--
Vinyl chloride	ND		ug/l	1.0	--
Chloroethane	ND		ug/l	2.0	--
1,1-Dichloroethene	ND		ug/l	1.0	--
trans-1,2-Dichloroethene	ND		ug/l	1.0	--
Trichloroethene	ND		ug/l	1.0	--
1,2-Dichlorobenzene	ND		ug/l	1.0	--
1,3-Dichlorobenzene	ND		ug/l	1.0	--
1,4-Dichlorobenzene	ND		ug/l	1.0	--

Project Name: RAYTHEON WAYLAND
Project Number: 0114119

Lab Number: L1015551
Report Date: 10/12/10

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260B
Analytical Date: 10/08/10 09:11
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics - Westborough Lab for sample(s): 02-09 Batch: WG436706-3					
Methyl tert butyl ether	ND		ug/l	2.0	--
p/m-Xylene	ND		ug/l	2.0	--
o-Xylene	ND		ug/l	1.0	--
cis-1,2-Dichloroethene	ND		ug/l	1.0	--
Dibromomethane	ND		ug/l	2.0	--
1,2,3-Trichloropropane	ND		ug/l	2.0	--
Styrene	ND		ug/l	1.0	--
Dichlorodifluoromethane	ND		ug/l	2.0	--
Acetone	ND		ug/l	5.0	--
Carbon disulfide	ND		ug/l	2.0	--
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	2.0	--
Tetrahydrofuran	ND		ug/l	10	--
2,2-Dichloropropane	ND		ug/l	2.0	--
1,2-Dibromoethane	ND		ug/l	2.0	--
1,3-Dichloropropane	ND		ug/l	2.0	--
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--
Bromobenzene	ND		ug/l	2.0	--
n-Butylbenzene	ND		ug/l	2.0	--
sec-Butylbenzene	ND		ug/l	2.0	--
tert-Butylbenzene	ND		ug/l	2.0	--
o-Chlorotoluene	ND		ug/l	2.0	--
p-Chlorotoluene	ND		ug/l	2.0	--
1,2-Dibromo-3-chloropropane	ND		ug/l	2.0	--
Hexachlorobutadiene	ND		ug/l	0.60	--
Isopropylbenzene	ND		ug/l	2.0	--
p-Isopropyltoluene	ND		ug/l	2.0	--
Naphthalene	ND		ug/l	2.0	--
n-Propylbenzene	ND		ug/l	2.0	--

Project Name: RAYTHEON WAYLAND

Lab Number: L1015551

Project Number: 0114119

Report Date: 10/12/10

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 97,8260B
 Analytical Date: 10/08/10 09:11
 Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics - Westborough Lab for sample(s): 02-09 Batch: WG436706-3					
1,2,3-Trichlorobenzene	ND		ug/l	2.0	--
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--
1,3,5-Trimethylbenzene	ND		ug/l	2.0	--
1,2,4-Trimethylbenzene	ND		ug/l	2.0	--
Ethyl ether	ND		ug/l	2.0	--
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	105		70-130
Toluene-d8	93		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	110		70-130

Project Name: RAYTHEON WAYLAND
Project Number: 0114119

Lab Number: L1015551
Report Date: 10/12/10

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260B
Analytical Date: 10/11/10 10:00
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics - Westborough Lab for sample(s): 01 Batch: WG436841-3					
Methylene chloride	ND		ug/l	2.0	--
1,1-Dichloroethane	ND		ug/l	1.0	--
Chloroform	ND		ug/l	1.0	--
Carbon tetrachloride	ND		ug/l	1.0	--
1,2-Dichloropropane	ND		ug/l	1.0	--
Dibromochloromethane	ND		ug/l	1.0	--
1,1,2-Trichloroethane	ND		ug/l	1.0	--
Tetrachloroethene	ND		ug/l	1.0	--
Chlorobenzene	ND		ug/l	1.0	--
Trichlorofluoromethane	ND		ug/l	2.0	--
1,2-Dichloroethane	ND		ug/l	1.0	--
1,1,1-Trichloroethane	ND		ug/l	1.0	--
Bromodichloromethane	ND		ug/l	1.0	--
trans-1,3-Dichloropropene	ND		ug/l	0.50	--
cis-1,3-Dichloropropene	ND		ug/l	0.50	--
1,1-Dichloropropene	ND		ug/l	2.0	--
Bromoform	ND		ug/l	2.0	--
1,1,2,2-Tetrachloroethane	ND		ug/l	1.0	--
Benzene	ND		ug/l	1.0	--
Toluene	ND		ug/l	1.0	--
Ethylbenzene	ND		ug/l	1.0	--
Chloromethane	ND		ug/l	2.0	--
Bromomethane	ND		ug/l	2.0	--
Vinyl chloride	ND		ug/l	1.0	--
Chloroethane	ND		ug/l	2.0	--
1,1-Dichloroethene	ND		ug/l	1.0	--
trans-1,2-Dichloroethene	ND		ug/l	1.0	--
Trichloroethene	ND		ug/l	1.0	--
1,2-Dichlorobenzene	ND		ug/l	1.0	--
1,3-Dichlorobenzene	ND		ug/l	1.0	--
1,4-Dichlorobenzene	ND		ug/l	1.0	--

Project Name: RAYTHEON WAYLAND
Project Number: 0114119

Lab Number: L1015551
Report Date: 10/12/10

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260B
Analytical Date: 10/11/10 10:00
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics - Westborough Lab for sample(s): 01 Batch: WG436841-3					
Methyl tert butyl ether	ND		ug/l	2.0	--
p/m-Xylene	ND		ug/l	2.0	--
o-Xylene	ND		ug/l	1.0	--
cis-1,2-Dichloroethene	ND		ug/l	1.0	--
Dibromomethane	ND		ug/l	2.0	--
1,2,3-Trichloropropane	ND		ug/l	2.0	--
Styrene	ND		ug/l	1.0	--
Dichlorodifluoromethane	ND		ug/l	2.0	--
Acetone	ND		ug/l	5.0	--
Carbon disulfide	ND		ug/l	2.0	--
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	2.0	--
Tetrahydrofuran	ND		ug/l	10	--
2,2-Dichloropropane	ND		ug/l	2.0	--
1,2-Dibromoethane	ND		ug/l	2.0	--
1,3-Dichloropropane	ND		ug/l	2.0	--
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--
Bromobenzene	ND		ug/l	2.0	--
n-Butylbenzene	ND		ug/l	2.0	--
sec-Butylbenzene	ND		ug/l	2.0	--
tert-Butylbenzene	ND		ug/l	2.0	--
o-Chlorotoluene	ND		ug/l	2.0	--
p-Chlorotoluene	ND		ug/l	2.0	--
1,2-Dibromo-3-chloropropane	ND		ug/l	2.0	--
Hexachlorobutadiene	ND		ug/l	0.60	--
Isopropylbenzene	ND		ug/l	2.0	--
p-Isopropyltoluene	ND		ug/l	2.0	--
Naphthalene	ND		ug/l	2.0	--
n-Propylbenzene	ND		ug/l	2.0	--

Project Name: RAYTHEON WAYLAND
Project Number: 0114119

Lab Number: L1015551
Report Date: 10/12/10

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260B
Analytical Date: 10/11/10 10:00
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics - Westborough Lab for sample(s): 01 Batch: WG436841-3					
1,2,3-Trichlorobenzene	ND		ug/l	2.0	--
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--
1,3,5-Trimethylbenzene	ND		ug/l	2.0	--
1,2,4-Trimethylbenzene	ND		ug/l	2.0	--
Ethyl ether	ND		ug/l	2.0	--
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	93		70-130
4-Bromofluorobenzene	111		70-130
Dibromofluoromethane	113		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: RAYTHEON WAYLAND

Lab Number: L1015551

Project Number: 0114119

Report Date: 10/12/10

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
MCP Volatile Organics - Westborough Lab Associated sample(s): 10 Batch: WG436460-1 WG436460-2								
Methylene chloride	117		115		70-130	2		20
1,1-Dichloroethane	104		103		70-130	1		20
Chloroform	100		100		70-130	0		20
Carbon tetrachloride	101		103		70-130	2		20
1,2-Dichloropropane	100		100		70-130	0		20
Dibromochloromethane	97		96		70-130	1		20
1,1,2-Trichloroethane	94		96		70-130	2		20
Tetrachloroethene	97		100		70-130	3		20
Chlorobenzene	96		97		70-130	1		20
Trichlorofluoromethane	125		125		70-130	0		20
1,2-Dichloroethane	110		110		70-130	0		20
1,1,1-Trichloroethane	104		107		70-130	3		20
Bromodichloromethane	108		108		70-130	0		20
trans-1,3-Dichloropropene	93		95		70-130	2		20
cis-1,3-Dichloropropene	91		94		70-130	3		20
1,1-Dichloropropene	103		104		70-130	1		20
Bromoform	104		107		70-130	3		20
1,1,2,2-Tetrachloroethane	107		106		70-130	1		20
Benzene	103		104		70-130	1		20
Toluene	96		98		70-130	2		20
Ethylbenzene	101		103		70-130	2		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: RAYTHEON WAYLAND

Lab Number: L1015551

Project Number: 0114119

Report Date: 10/12/10

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
MCP Volatile Organics - Westborough Lab Associated sample(s): 10 Batch: WG436460-1 WG436460-2								
Chloromethane	97		98		70-130	1		20
Bromomethane	109		126		70-130	14		20
Vinyl chloride	99		96		70-130	3		20
Chloroethane	112		111		70-130	1		20
1,1-Dichloroethene	122		126		70-130	3		20
trans-1,2-Dichloroethene	100		104		70-130	4		20
Trichloroethene	103		106		70-130	3		20
1,2-Dichlorobenzene	100		103		70-130	3		20
1,3-Dichlorobenzene	104		104		70-130	0		20
1,4-Dichlorobenzene	98		102		70-130	4		20
Methyl tert butyl ether	100		100		70-130	0		20
p/m-Xylene	102		105		70-130	3		20
o-Xylene	105		106		70-130	1		20
cis-1,2-Dichloroethene	104		109		70-130	5		20
Dibromomethane	98		97		70-130	1		20
1,2,3-Trichloropropane	110		109		70-130	1		20
Styrene	105		107		70-130	2		20
Dichlorodifluoromethane	120		125		70-130	4		20
Acetone	119		123		70-130	3		20
Carbon disulfide	105		106		70-130	1		20
2-Butanone	120		116		70-130	3		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: RAYTHEON WAYLAND

Lab Number: L1015551

Project Number: 0114119

Report Date: 10/12/10

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
MCP Volatile Organics - Westborough Lab Associated sample(s): 10 Batch: WG436460-1 WG436460-2								
4-Methyl-2-pentanone	115		120		70-130	4		20
2-Hexanone	106		102		70-130	4		20
Bromochloromethane	109		108		70-130	1		20
Tetrahydrofuran	116		104		70-130	11		20
2,2-Dichloropropane	103		102		70-130	1		20
1,2-Dibromoethane	96		100		70-130	4		20
1,3-Dichloropropane	101		97		70-130	4		20
1,1,1,2-Tetrachloroethane	105		106		70-130	1		20
Bromobenzene	107		106		70-130	1		20
n-Butylbenzene	104		108		70-130	4		20
sec-Butylbenzene	103		107		70-130	4		20
tert-Butylbenzene	102		105		70-130	3		20
o-Chlorotoluene	104		105		70-130	1		20
p-Chlorotoluene	101		117		70-130	15		20
1,2-Dibromo-3-chloropropane	104		100		70-130	4		20
Hexachlorobutadiene	98		106		70-130	8		20
Isopropylbenzene	100		104		70-130	4		20
p-Isopropyltoluene	104		107		70-130	3		20
Naphthalene	98		100		70-130	2		20
n-Propylbenzene	103		107		70-130	4		20
1,2,3-Trichlorobenzene	105		107		70-130	2		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: RAYTHEON WAYLAND

Lab Number: L1015551

Project Number: 0114119

Report Date: 10/12/10

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
MCP Volatile Organics - Westborough Lab Associated sample(s): 10 Batch: WG436460-1 WG436460-2								
1,2,4-Trichlorobenzene	105		109		70-130	4		20
1,3,5-Trimethylbenzene	105		109		70-130	4		20
1,2,4-Trimethylbenzene	104		108		70-130	4		20
Ethyl ether	135	Q	128		70-130	5		20
Isopropyl Ether	102		102		70-130	0		20
Ethyl-Tert-Butyl-Ether	101		102		70-130	1		20
Tertiary-Amyl Methyl Ether	106		109		70-130	3		20
1,4-Dioxane	93		99		70-130	6		20

Surrogate	LCS		LCSD		Acceptance Criteria
	%Recovery	Qual	%Recovery	Qual	
1,2-Dichloroethane-d4	100		103		70-130
Toluene-d8	96		99		70-130
4-Bromofluorobenzene	93		89		70-130
Dibromofluoromethane	99		103		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: RAYTHEON WAYLAND

Lab Number: L1015551

Project Number: 0114119

Report Date: 10/12/10

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
MCP Volatile Organics - Westborough Lab Associated sample(s): 02-09 Batch: WG436706-1 WG436706-2								
Methylene chloride	101		83		70-130	20		20
1,1-Dichloroethane	92		79		70-130	15		20
Chloroform	90		93		70-130	3		20
Carbon tetrachloride	94		96		70-130	2		20
1,2-Dichloropropane	93		94		70-130	1		20
Dibromochloromethane	94		90		70-130	4		20
1,1,2-Trichloroethane	94		89		70-130	5		20
Tetrachloroethene	89		92		70-130	3		20
Chlorobenzene	88		90		70-130	2		20
Trichlorofluoromethane	106		111		70-130	5		20
1,2-Dichloroethane	102		104		70-130	2		20
1,1,1-Trichloroethane	96		99		70-130	3		20
Bromodichloromethane	100		99		70-130	1		20
trans-1,3-Dichloropropene	94		91		70-130	3		20
cis-1,3-Dichloropropene	87		88		70-130	1		20
1,1-Dichloropropene	93		98		70-130	5		20
Bromoform	108		108		70-130	0		20
1,1,2,2-Tetrachloroethane	109		106		70-130	3		20
Benzene	90		97		70-130	7		20
Toluene	87		91		70-130	4		20
Ethylbenzene	91		97		70-130	6		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: RAYTHEON WAYLAND

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Report Date: 10/12/10

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics - Westborough Lab Associated sample(s): 02-09 Batch: WG436706-1 WG436706-2								
Chloromethane	80		83		70-130	4		20
Bromomethane	117		109		70-130	7		20
Vinyl chloride	85		90		70-130	6		20
Chloroethane	92		98		70-130	6		20
1,1-Dichloroethene	113		119		70-130	5		20
trans-1,2-Dichloroethene	90		73		70-130	21	Q	20
Trichloroethene	91		97		70-130	6		20
1,2-Dichlorobenzene	95		96		70-130	1		20
1,3-Dichlorobenzene	93		99		70-130	6		20
1,4-Dichlorobenzene	92		97		70-130	5		20
Methyl tert butyl ether	92		71		70-130	26	Q	20
p/m-Xylene	92		98		70-130	6		20
o-Xylene	91		95		70-130	4		20
cis-1,2-Dichloroethene	96		98		70-130	2		20
Dibromomethane	90		106		70-130	16		20
1,2,3-Trichloropropane	112		108		70-130	4		20
Styrene	90		94		70-130	4		20
Dichlorodifluoromethane	100		106		70-130	6		20
Acetone	117		102		70-130	14		20
Carbon disulfide	91		100		70-130	9		20
2-Butanone	126		115		70-130	9		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: RAYTHEON WAYLAND

Lab Number: L1015551

Project Number: 0114119

Report Date: 10/12/10

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
MCP Volatile Organics - Westborough Lab Associated sample(s): 02-09 Batch: WG436706-1 WG436706-2								
4-Methyl-2-pentanone	109		101		70-130	8		20
2-Hexanone	112		98		70-130	13		20
Bromochloromethane	102		102		70-130	0		20
Tetrahydrofuran	102		94		70-130	8		20
2,2-Dichloropropane	94		99		70-130	5		20
1,2-Dibromoethane	99		94		70-130	5		20
1,3-Dichloropropane	97		95		70-130	2		20
1,1,1,2-Tetrachloroethane	101		100		70-130	1		20
Bromobenzene	96		102		70-130	6		20
n-Butylbenzene	96		100		70-130	4		20
sec-Butylbenzene	94		99		70-130	5		20
tert-Butylbenzene	94		98		70-130	4		20
o-Chlorotoluene	94		99		70-130	5		20
p-Chlorotoluene	104		110		70-130	6		20
1,2-Dibromo-3-chloropropane	114		110		70-130	4		20
Hexachlorobutadiene	90		96		70-130	6		20
Isopropylbenzene	92		96		70-130	4		20
p-Isopropyltoluene	97		101		70-130	4		20
Naphthalene	101		100		70-130	1		20
n-Propylbenzene	94		100		70-130	6		20
1,2,3-Trichlorobenzene	106		109		70-130	3		20

Lab Control Sample Analysis

Batch Quality Control

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Project Number: 0114119

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Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
MCP Volatile Organics - Westborough Lab Associated sample(s): 02-09 Batch: WG436706-1 WG436706-2								
1,2,4-Trichlorobenzene	99		105		70-130	6		20
1,3,5-Trimethylbenzene	96		101		70-130	5		20
1,2,4-Trimethylbenzene	94		101		70-130	7		20
Ethyl ether	123		109		70-130	12		20
Isopropyl Ether	86		77		70-130	11		20
Ethyl-Tert-Butyl-Ether	91		88		70-130	3		20
Tertiary-Amyl Methyl Ether	96		96		70-130	0		20
1,4-Dioxane	110		89		70-130	21	Q	20

Surrogate	LCS		LCSD		Acceptance Criteria
	%Recovery	Qual	%Recovery	Qual	
1,2-Dichloroethane-d4	101		103		70-130
Toluene-d8	97		98		70-130
4-Bromofluorobenzene	94		92		70-130
Dibromofluoromethane	101		102		70-130

Lab Control Sample Analysis

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Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
MCP Volatile Organics - Westborough Lab Associated sample(s): 01 Batch: WG436841-1 WG436841-2								
Methylene chloride	106		102		70-130	4		20
1,1-Dichloroethane	104		98		70-130	6		20
Chloroform	106		101		70-130	5		20
Carbon tetrachloride	111		106		70-130	5		20
1,2-Dichloropropane	97		99		70-130	2		20
Dibromochloromethane	105		105		70-130	0		20
1,1,2-Trichloroethane	105		105		70-130	0		20
Tetrachloroethene	111		106		70-130	5		20
Chlorobenzene	102		100		70-130	2		20
Trichlorofluoromethane	126		118		70-130	7		20
1,2-Dichloroethane	104		104		70-130	0		20
1,1,1-Trichloroethane	110		105		70-130	5		20
Bromodichloromethane	109		106		70-130	3		20
trans-1,3-Dichloropropene	107		107		70-130	0		20
cis-1,3-Dichloropropene	99		97		70-130	2		20
1,1-Dichloropropene	107		101		70-130	6		20
Bromoform	105		106		70-130	1		20
1,1,2,2-Tetrachloroethane	106		105		70-130	1		20
Benzene	105		100		70-130	5		20
Toluene	104		98		70-130	6		20
Ethylbenzene	110		105		70-130	5		20

Lab Control Sample Analysis

Batch Quality Control

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Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
MCP Volatile Organics - Westborough Lab Associated sample(s): 01 Batch: WG436841-1 WG436841-2								
Chloromethane	89		84		70-130	6		20
Bromomethane	119		109		70-130	9		20
Vinyl chloride	93		88		70-130	6		20
Chloroethane	100		92		70-130	8		20
1,1-Dichloroethene	122		111		70-130	9		20
trans-1,2-Dichloroethene	103		100		70-130	3		20
Trichloroethene	106		103		70-130	3		20
1,2-Dichlorobenzene	108		102		70-130	6		20
1,3-Dichlorobenzene	108		100		70-130	8		20
1,4-Dichlorobenzene	108		102		70-130	6		20
Methyl tert butyl ether	90		98		70-130	9		20
p/m-Xylene	113		107		70-130	5		20
o-Xylene	110		106		70-130	4		20
cis-1,2-Dichloroethene	105		102		70-130	3		20
Dibromomethane	93		108		70-130	15		20
1,2,3-Trichloropropane	104		104		70-130	0		20
Styrene	104		103		70-130	1		20
Dichlorodifluoromethane	97		92		70-130	5		20
Acetone	110		120		70-130	9		20
Carbon disulfide	109		96		70-130	13		20
2-Butanone	105		111		70-130	6		20

Lab Control Sample Analysis

Batch Quality Control

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Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
MCP Volatile Organics - Westborough Lab Associated sample(s): 01 Batch: WG436841-1 WG436841-2								
4-Methyl-2-pentanone	91		107		70-130	16		20
2-Hexanone	95		106		70-130	11		20
Bromochloromethane	105		102		70-130	3		20
Tetrahydrofuran	88		99		70-130	12		20
2,2-Dichloropropane	115		108		70-130	6		20
1,2-Dibromoethane	100		107		70-130	7		20
1,3-Dichloropropane	100		105		70-130	5		20
1,1,1,2-Tetrachloroethane	112		111		70-130	1		20
Bromobenzene	106		100		70-130	6		20
n-Butylbenzene	121		107		70-130	12		20
sec-Butylbenzene	117		105		70-130	11		20
tert-Butylbenzene	118		104		70-130	13		20
o-Chlorotoluene	108		100		70-130	8		20
p-Chlorotoluene	109		100		70-130	9		20
1,2-Dibromo-3-chloropropane	108		116		70-130	7		20
Hexachlorobutadiene	119		110		70-130	8		20
Isopropylbenzene	114		107		70-130	6		20
p-Isopropyltoluene	119		103		70-130	14		20
Naphthalene	96		102		70-130	6		20
n-Propylbenzene	115		103		70-130	11		20
1,2,3-Trichlorobenzene	101		104		70-130	3		20

Lab Control Sample Analysis

Batch Quality Control

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Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
MCP Volatile Organics - Westborough Lab Associated sample(s): 01 Batch: WG436841-1 WG436841-2								
1,2,4-Trichlorobenzene	104		104		70-130	0		20
1,3,5-Trimethylbenzene	112		100		70-130	11		20
1,2,4-Trimethylbenzene	112		102		70-130	9		20
Ethyl ether	107		106		70-130	1		20
Isopropyl Ether	89		91		70-130	2		20
Ethyl-Tert-Butyl-Ether	96		98		70-130	2		20
Tertiary-Amyl Methyl Ether	100		104		70-130	4		20
1,4-Dioxane	124		124		70-130	0		20

Surrogate	LCS		LCSD		Acceptance Criteria
	%Recovery	Qual	%Recovery	Qual	
1,2-Dichloroethane-d4	95		100		70-130
Toluene-d8	100		98		70-130
4-Bromofluorobenzene	98		99		70-130
Dibromofluoromethane	106		102		70-130

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Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: NA

Cooler Information Custody Seal

Cooler

A Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1015551-01A	Vial HCl preserved	A	N/A	2.8	Y	Absent	MCP-8260-10(14)
L1015551-01B	Vial HCl preserved	A	N/A	2.8	Y	Absent	MCP-8260-10(14)
L1015551-02A	Vial HCl preserved	A	N/A	2.8	Y	Absent	MCP-8260-10(14)
L1015551-02B	Vial HCl preserved	A	N/A	2.8	Y	Absent	MCP-8260-10(14)
L1015551-03A	Vial HCl preserved	A	N/A	2.8	Y	Absent	MCP-8260-10(14)
L1015551-03B	Vial HCl preserved	A	N/A	2.8	Y	Absent	MCP-8260-10(14)
L1015551-04A	Vial HCl preserved	A	N/A	2.8	Y	Absent	MCP-8260-10(14)
L1015551-04B	Vial HCl preserved	A	N/A	2.8	Y	Absent	MCP-8260-10(14)
L1015551-05A	Vial HCl preserved	A	N/A	2.8	Y	Absent	MCP-8260-10(14)
L1015551-05B	Vial HCl preserved	A	N/A	2.8	Y	Absent	MCP-8260-10(14)
L1015551-06A	Vial HCl preserved	A	N/A	2.8	Y	Absent	MCP-8260-10(14)
L1015551-06B	Vial HCl preserved	A	N/A	2.8	Y	Absent	MCP-8260-10(14)
L1015551-07A	Vial HCl preserved	A	N/A	2.8	Y	Absent	MCP-8260-10(14)
L1015551-07B	Vial HCl preserved	A	N/A	2.8	Y	Absent	MCP-8260-10(14)
L1015551-08A	Vial HCl preserved	A	N/A	2.8	Y	Absent	MCP-8260-10(14)
L1015551-08B	Vial HCl preserved	A	N/A	2.8	Y	Absent	MCP-8260-10(14)
L1015551-09A	Vial HCl preserved	A	N/A	2.8	Y	Absent	MCP-8260-10(14)
L1015551-09B	Vial HCl preserved	A	N/A	2.8	Y	Absent	MCP-8260-10(14)
L1015551-10A	Vial HCl preserved	A	N/A	2.8	Y	Absent	MCP-8260-10(14)

*Values in parentheses indicate holding time in days



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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.
MDL	-Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	-Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	-Matrix Spike Sample Duplicate: Refer to MS.
NA	-Not Applicable.
NC	-Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NI	-Not Ignitable.
RL	-Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	-Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

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

A	-Spectra identified as "Aldol Condensation Product".
B	-The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than five times (5x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank.
D	-Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
E	-Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
H	-The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
I	-The RPD between the results for the two columns exceeds the method-specified criteria; however, the lower value has been reported due to obvious interference.
P	-The RPD between the results for the two columns exceeds the method-specified criteria.
Q	-The quality control sample exceeds the associated acceptance criteria. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
R	-Analytical results are from sample re-analysis.

Report Format: Data Usability Report



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Data Qualifiers

RE - Analytical results are from sample re-extraction.

J - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

ND - Not detected at the reporting limit (RL) for the sample.

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Project Number: 0114119

Lab Number: L1015551
Report Date: 10/12/10

REFERENCES

- 97 EPA Test Methods (SW-846) with QC Requirements & Performance Standards for the Analysis of EPA SW-846 Methods under the Massachusetts Contingency Plan, WSC-CAM-IIA, IIB, IIIA, IIIB, IIIC, IIID, VA, VB, VC, VIA, VIB, VIIIA and VIIIB, July 2010.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



Certificate/Approval Program Summary

Last revised July 19, 2010 - Westboro Facility

The following list includes only those analytes/methods for which certification/approval is currently held.
For a complete listing of analytes for the referenced methods, please contact your Alpha Customer Service Representative.

Connecticut Department of Public Health Certificate/Lab ID: PH-0574. **NELAP Accredited Solid Waste/Soil.**

Drinking Water (Inorganic Parameters: Color, pH, Turbidity, Conductivity, Alkalinity, Chloride, Free Residual Chlorine, Fluoride, Calcium Hardness, Sulfate, Nitrate, Nitrite, Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Vanadium, Zinc, Total Dissolved Solids, Total Organic Carbon, Total Cyanide, Perchlorate. Organic Parameters: Volatile Organics 524.2, Total Trihalomethanes 524.2, 1,2-Dibromo-3-chloropropane (DBCP), Ethylene Dibromide (EDB), 1,4-Dioxane (Mod 8270). Microbiology Parameters: Total Coliform-MF mEndo (SM9222B), Total Coliform – Colilert (SM9223 P/A), E. Coli. – Colilert (SM9223 P/A), HPC – Pour Plate (SM9215B), Fecal Coliform – MF m-FC (SM9222D))

Wastewater/Non-Potable Water (Inorganic Parameters: Color, pH, Conductivity, Acidity, Alkalinity, Chloride, Total Residual Chlorine, Fluoride, Total Hardness, Silica, Sulfate, Sulfide, Ammonia, Kjeldahl Nitrogen, Nitrate, Nitrite, O-Phosphate, Total Phosphorus, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Tin, Titanium, Vanadium, Zinc, Total Residue (Solids), Total Dissolved Solids, Total Suspended Solids (non-filterable), BOD, CBOD, COD, TOC, Total Cyanide, Phenolics, Foaming Agents (MBAS), Bromide, Oil and Grease. Organic Parameters: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, 2,4-D, 2,4,5-T, 2,4,5-TP(Silvex), Acid Extractables (Phenols), Benzidines, Phthalate Esters, Nitrosamines, Nitroaromatics & Isophorone, Polynuclear Aromatic Hydrocarbons, Haloethers, Chlorinated Hydrocarbons, Volatile Organics, TPH (HEM/SGT), Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH. Microbiology Parameters: Total Coliform – MF mEndo (SM9222B), Total Coliform – MTF (SM9221B), HPC – Pour Plate (SM9215B), Fecal Coliform – MF m-FC (SM9222D), Fecal Coliform – A-1 Broth (SM9221E).)

Solid Waste/Soil (Inorganic Parameters: pH, Sulfide, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Tin, Vanadium, Zinc, Total Cyanide, Ignitability, Phenolics, Corrosivity, TCLP Leach (1311), SPLP Leach (1312 metals only), Reactivity. Organic Parameters: PCBs, PCBs in Oil, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH, Dicamba, 2,4-D, 2,4,5-T, 2,4,5-TP(Silvex), Volatile Organics, Acid Extractables (Phenols), 3,3'-Dichlorobenzidine, Phthalates, Nitrosamines, Nitroaromatics & Cyclic Ketones, PAHs, Haloethers, Chlorinated Hydrocarbons.)

Maine Department of Human Services Certificate/Lab ID: 2009024.

Drinking Water (Inorganic Parameters: SM9215B, 9222D, 9223B, EPA 180.1, 300.0, 353.2, SM2130B, 2320B, 4500CI-D, 4500CN-C, 4500CN-E, 4500F-C, 4500H+B, 4500NO3-F, EPA 200.7, EPA 200.8, 245.1, EPA 300.0. Organic Parameters: 504.1, 524.2.)

Wastewater/Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664A, 350.1, 351.1, 353.2, 410.4, 420.1, Lachat 10-107-06-1-B, SM2320B, 2340B, 2510B, 2540C, 2540D, 426C, 4500CI-D, 4500CI-E, 4500CN-C, 4500CN-E, 4500F-B, 4500F-C, 4500H+B, 4500Norg-B, 4500Norg-C, 4500NH3-B, 4500NH3-G, 4500NH3-H, 4500NO3-F, 4500P-B.5, 4500P-E, 5210B, 5220D, 5310C, EPA 200.7, 200.8, 245.1. Organic Parameters: 608, 624, ME DRO, ME GRO, MA EPH, MA VPH.)

Solid Waste/Soil (Organic Parameters: ME DRO, ME GRO, MA EPH, MA VPH.)

Massachusetts Department of Environmental Protection Certificate/Lab ID: M-MA086.

Drinking Water

Inorganic Parameters: (EPA 200.8 for: Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Tl)

(EPA 200.7 for: Ba,Be,Ca,Cd,Cr,Cu,Na,Ni) 245.1, (300.0 for: Nitrate-N, Fluoride, Sulfate)

353.2 for: Nitrate-N, Nitrite-N; SM4500NO3-F, 4500F-C, 4500CN-CE, EPA 180.1, SM2130B, SM4500CI-D, 2320B, SM2540C, SM4500H-B.

Organic Parameters: (EPA 524.2 for: Trihalomethanes, Volatile Organics)

(504.1 for: 1,2-Dibromoethane, 1,2-Dibromo-3-Chloropropane), 314.0, 332.

Microbiology Parameters: SM9215B; ENZ. SUB. SM9223; MF-SM9222D

Non-Potable Water

Inorganic Parameters: (EPA 200.8 for: Al,Sb,As,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,Zn)

(EPA 200.7 for: Al,Sb,As,Be,Cd,Cr,Co,Cu,Fe,Pb,Mn,Mo,Ni,Se,Ag,Sr,Ti,Tl, V,Zn,Ca,Mg,Na,K)

245.1, SM4500H,B, EPA 120.1, SM2510B, 2540C, 2540B, 2340B, 2320B, 4500CL-E, 4500F-BC, 426C, SM4500NH3-BH, (EPA 350.1 for: Ammonia-N), LACHAT 10-107-06-1-B for Ammonia-N, SM4500NO3-F, 353.2 for Nitrate-N, SM4500NH3-B,C-Titr, SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, 4500P-B,E, 5220D, EPA 410.4, SM 5210B, 5310C, 4500CL-D, EPA 1664, SM14 510AC, EPA 420, SM4500-CN-CE, SM2540D.

Organic Parameters: (EPA 624 for Volatile Halocarbons, Volatile Aromatics)

(608 for: Chlordane, Aldrin, Dieldrin, DDD, DDE, DDT, Heptachlor, Heptachlor Epoxide, PCBs-Water), EPA 625 for SVOC Acid Extractables and SVOC Base/Neutral Extractables, 600/4-81-045-PCB-Oil

New Hampshire Department of Environmental Services Certificate/Lab ID: 200307. *NELAP Accredited.*

Drinking Water (Inorganic Parameters: SM6215B, 9222B, 9223B Colilert, EPA 200.7, 200.8, 245.2, 120.1, 300.0, 314.0, SM4500CN-E, 4500H+B, 4500NO3-F, 2320B, 2510B, 2540C, 4500F-C, 5310C, 2120B, EPA 331.0. *Organic Parameters:* 504.1, 524.2, SM6251B.)

Non-Potable Water (Inorganic Parameters: SM9222D, 9221B, 9222B, 9221E-EC, EPA 200.7, 200.8, 245.1, 245.2, SW-846 6010B, 6020, 7196A, 7470A, SM3500-CR-D, EPA 120.1, 300.0, 350.1, 351.1, 353.2, 420.1, 1664A, SW-846 9010, 9030, 9040B, SM426C, SM2310B, 2540B, 2540D, 4500H+B, 4500NH3-H, 4500NH3-E, 4500NO2-B, 4500P-E, 4500-S2-D, 5210B, 2320B, 2540C, 4500F-C, 5310C, 5540C, LACHAT 10-117-07-1-B, LACHAT 10-107-06-1-B, LACHAT 10-107-04-1-C, LACHAT 10-107-04-1-J, LACHAT 10-117-07-1-A, SM4500CL-E, LACHAT 10-204-00-1-A, LACHAT 10-107-06-2-D. *Organic Parameters:* SW-846 3005A, 3015A, 3510C, 5030B, 8021B, 8260B, 8270C, 8330, EPA 624, 625, 608, SW-846 8082, 8081A.)

Solid & Chemical Materials (Inorganic Parameters: SW-846 6010B, 7196A, 7471A, 7.3.3.2, 7.3.4.2, 1010, 1030, 9010, 9012A, 9014, 9030B, 9040, 9045C, 9050C, 1311, 3005A, 3050B, 3051A. *Organic Parameters:* SW-846 3540C, 3545, 3580A, 5030B, 5035, 8021B, 8260B, 8270C, 8330, 8151A, 8082, 8081A.)

New Jersey Department of Environmental Protection Certificate/Lab ID: MA935. *NELAP Accredited.*

Drinking Water (Inorganic Parameters: SM9222B, 9221E, 9223B, 9215B, 4500NO3-F, 4500F-C, EPA 300.0, 200.7, 2540C, 2320B, 314.0, SM2120B, 2510B, 5310C, SM4500H-B, EPA 200.8, 245.2. *Organic Parameters:* 504.1, SM6251B, 524.2.)

Non-Potable Water (Inorganic Parameters: SM5210B, EPA 410.4, SM5220D, 4500CI-D, EPA 300.0, SM2120B, SM4500F-BC, EPA 200.7, 351.1, LACHAT 10-107-06-2-D, EPA 353.2, SM4500NO3-F, 4500NO2-B, EPA 1664A, SM5310B, C or D, 4500-PE, EPA 420.1, SM4500P-B5+E, 2540B, 2540C, 2540D, EPA 120.1, SM2510B, SM15 426C, SM9221CE, 9222D, 9221B, 9222B, 9215B, 2310B, 2320B, 4500NH3-H, 4500-S D, EPA 350.1, SM5210B, SW-846 3015, 6020, 7470A, 5540C, 4500H-B, EPA 200.8, SM3500Cr-D, EPA 245.1, 245.2, SW-846 9040B, 3005A, EPA 6010B, 7196A, SW-846 9010B, 9030B. *Organic Parameters:* SW-846 8260B, 8270C, 3510C, EPA 608, 624, 625, SW-846 5030B, 8021B, 8081A, 8082, 8151A, 8330, NJ OQA-QAM-025 Rev.7.)

Solid & Chemical Materials (Inorganic Parameters: SW-846 9040B, 3005A, 6010B, 7196A, 5030B, 9010B, 9030B, 1030, 1311, 3050B, 3051, 7471A, 9014, 9012A, 9045C, 9050A, 9065. *Organic Parameters:* SW-846 8021B, 8081A, 8082, 8151A, 8330, 8260B, 8270C, 1311, 1312, 3540C, 3545, 3550B, 3580A, 5035L, 5035H, NJ OQA-QAM-025 Rev.7.)

New York Department of Health Certificate/Lab ID: 11148. *NELAP Accredited.*

Drinking Water (Inorganic Parameters: SM9223B, 9222B, 9215B, EPA 200.8, 200.7, 245.2, SM5310C, EPA 314.0, 332.0, SM2320B, EPA 300.0, SM2120B, 4500CN-E, 4500F-C, 4500H-B, 4500NO3-F, 2540C, EPA 120.1, SM 2510B. *Organic Parameters:* EPA 524.2, 504.1.)

Non-Potable Water (Inorganic Parameters: SM9221E, 9222D, 9221B, 9222B, 9215B, 5210B, EPA 410.4, SM5220D, 2310B-4a, 2320B, EPA 200.7, 300.0, LACHAT 10-117-07-1A or B, SM4500CI-E, 4500F-C, SM15 426C, EPA 350.1, LACHAT 10-107-06-1-B, SM4500NH3-H, EPA 351.1, LACHAT 10-107-06-2, EPA 353.2, LACHAT 10-107-041-C, SM4500-NO3-F, 4500-NO2-B, 4500P-E, 2540C, 2540B, 2540D, EPA 200.8, EPA 6010B, 6020, EPA 7196A, SM3500Cr-D, EPA 245.1, 245.2, 7470A, SM2120B, SM4500-CN-E LACHAT 10-204-00-1-A, EPA 9040B, SM4500-HB, EPA 1664A, SM5310C, EPA 420.1, SM14 510C, EPA 120.1, SM2510B, SM4500S-D, SM5540C, EPA 3005A, 3015. *Organic Parameters:* EPA 624, 8260B, 8270C, 625, 608, 8081A, 8151A, 8330, 8082, EPA 3510C, 5030B, 9010B, 9030B.)

Solid & Hazardous Waste (Inorganic Parameters: 1010, 1030, SW-846 Ch 7 Sec 7.3, EPA 6010B, 7196A, 7471A, 9012A, 9014, 9040B, 9045C, 9065, 9050, EPA 1311, 1312, 3005A, 3050B, 9010B, 9030B. *Organic Parameters:* EPA 8260B, 8270C, 8081A, 8151A, 8330, 8082, 3540C, 3545, 3546, 3580, 5030B, 5035.)

North Carolina Department of the Environment and Natural Resources Certificate/Lab ID : 666. *Organic Parameters:* MA-EPH, MA-VPH.

Pennsylvania Department of Environmental Protection Certificate/Lab ID : 68-03671. *NELAP Accredited.*

Non-Potable Water (Organic Parameters: EPA 3510C, 5030B, 625, 624. 608, 8081A, 8082, 8151A, 8260B, 8270C, 8330)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1010, 1030, 1311, 3050B, 3051, 6010B, EPA 7.3.3.2, EPA 7.3.4.2, 7196A, 7471A, 9010B, 9012A, 9014, 9040B, 9045C, 9050, 9065. *Organic Parameters:* 3540C, 3545, 3580A, 5035, 8021B, 8081A, 8082, 8151A, 8260B, 8270C, 8330)

Rhode Island Department of Health Certificate/Lab ID: LAO00065. *NELAP Accredited via NY-DOH.*

Refer to MA-DEP Certificate for Potable and Non-Potable Water.

Refer to NY-DOH Certificate for Potable and Non-Potable Water.

Texas Commission on Environmental Quality Certificate/Lab ID: T104704476-09-1. NELAP Accredited.

Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664, 200.7, 200.8, 245.1, 245.2, 300.0, 350.1, 351.1, 353.2, 376.2, 410.4, 420.1, 6010, 6020, 7196, 7470, 9040, SM 2120B, 2310B, 2320B, 2510B, 2540B, 2540C, 2540D, 426C, 4500CL-E, 4500CN-E, 4500F-C, 4500H+B, 4500NH3-H, 4500NO2B, 4500P-E, 4500 S²⁻ D, 510C, 5210B, 5220D, 5310C, 5540C. Organic Parameters: EPA 608, 624, 625, 8081, 8082, 8151, 8260, 8270, 8330.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1311, 1312, 9012, 9014, 9040, 9045, 9050, 9065.)

Department of Defense Certificate/Lab ID: L2217.

Drinking Water (Inorganic Parameters: SM 4500H-B. Organic Parameters: EPA 524.2, 504.1.)

Non-Potable Water (Inorganic Parameters: EPA 200.7, 200.8, 6010B, 6020, 245.1, 245.2, 7470A, 9040B, 300.0, 9251, 9038, 350.1, 353.2, 351.1, 120.1, 9050A, 410.4, 9060, 1664, 420.1, LACHAT 10-107-06-1-B, SM 4500CN-E, 4500H-B, 4500CL-E, 4500F-BC, 4500SO4-E, 426C, 4500NH3-B, 4500NH3-H, 4500NO3-F, 4500NO2-B, 4500Norg-C, 4500PE, 2510B, 5540C, 5220D, 5310C, 2540B, 2540C, 2540D, 510C, 4500S2-AD, 3005A, 3015, 9010B, 9030B. Organic Parameters: EPA 8260B, 8270C, 8330, 625, 8082, 8151A, 8081A, 3510C, 5030B, MassDEP EPH, MassDEP VPH.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 200.7, 6010B, 7471A, 9040B, 9045C, 9065, 420.1, 9012A, 6860, 1311, 1312, 3050B, 9030B, 3051, 9010B, 3540C, SM 510ABC, 4500CN-CE, 2540G, SW-846 7.3, Organic Parameters: EPA 8260B, 8270C, 8330, 8082, 8081A, 8151A, 3545, 3546, 3580, 5035, MassDEP EPH, MassDEP VPH.)

Analytes Not Accredited by NELAP

Certification is not available by NELAP for the following analytes: **EPA 8260B:** Freon-113, 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene. **EPA 8330A:** PETN, Picric Acid, Nitroglycerine, 2,6-DANT, 2,4-DANT. **EPA 8270C:** Methyl naphthalene, Dimethyl naphthalene, Total Methylnaphthalenes, Total Dimethylnaphthalenes, 1,4-Diphenylhydrazine (Azobenzene). **EPA 625:** 4-Chloroaniline. **EPA 350.1** for Ammonia in a Soil matrix.



CHAIN OF CUSTODY

PAGE 1 OF 1

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

RAYNHAM, MA
TEL: 508-422-9300
FAX: 508-422-3288

Client Information

Client: ERM

Address: 399 Baylston St.

Wth-City Boston, MA

Phone: (617) 446-3800

Fax: (617) 217-6447

Email: jason.flattery@erm.com

These samples have been previously analyzed by Alpha
Other Project Specific Requirements/Comments/Detection Limits:

Project Information

Project Name: Raytheon Bayland

Project Location: Weymouth, MA

Project #: 0114119

Project Manager: Jason Flattery

ALPHA Quote #:

Turn-Around Time

Standard

RUSH (only confirmed if pre-approved!)

Date Due: 10/12/10

Time:

Date Rec'd In Lab:

10/15/10

ALPHA Job #:

L1015551

Report Information - Data Deliverables

FAX

EMAIL

ADEX

Add'l Deliverables

Billing Information

Same as Client info

PO #:

Regulatory Requirements/Report Limits

State/Fed Program

MA MCP

GW-1

Criteria

MA MCP PRESUMPTIVE CERTAINTY... CT REASONABLE CONFIDENCE PROTOCOLS

Yes No Are MCP Analytical Methods Required?

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

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials
		Date	Time		

1	1 MW-115-20101004-01	10/11/10	1615	GW	SMC	2			
2	2 MW-205M-20101005-01	10/15/10	1200		CC	2			
3	3 MW-40-20101005-01		1355		EW	2			
4	4 MW-40S-20101005-01		1525		EW	2			
5	5 MW-207M-20101005-01		1400		SMC	2			
6	6 MW-208M-20101005-01		1430		HEA	2			
7	7 MW-208D-20101005-01		1400		HEA	2			
8	8 DVP-003-20101005-01		0900		CC	2			
9	9 DVP-004-20101005-01		1111		SMC	2			
10	10 TB-002-20101005-01	10/11/10	1345		DS	1			

ANALYSIS	
80216 by 0260.B	

SAMPLE HANDLING	
Filtration	<input type="checkbox"/> Done
	<input type="checkbox"/> Not needed
	<input type="checkbox"/> Lab to do
	<input type="checkbox"/> Preservation
	<input type="checkbox"/> Lab to do

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT

MA MCP or CT RCP?

Relinquished By:	Date/Time
<u>Quincy V...</u>	<u>10/15/10 1600</u>
Container Type	Date/Time
Preservative	<u>10/15/10 1655</u>

Received By:	Date/Time
<u>[Signature]</u>	<u>10/15/10 1600</u>
	<u>10/15/10 1655</u>

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.



ANALYTICAL REPORT

Lab Number:	L1015652
Client:	ERM Consulting & Engineering, Inc. 399 Boylston Street 6th Floor Boston, MA 02116
ATTN:	Jason Flattery
Phone:	(617) 646-7816
Project Name:	RAYTHEON WAYLAND
Project Number:	0114119
Report Date:	10/13/10

Certifications & Approvals: MA (M-MA086), NY NELAC (11148), CT (PH-0574), NH (2003), NJ (MA935), RI (LAO00065), ME (MA0086), 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: 0114119

Lab Number: L1015652
Report Date: 10/13/10

Alpha Sample ID	Client ID	Sample Location	Collection Date/Time
L1015652-01	MW-206D-20101005-01	WAYLAND, MA	10/05/10 15:50
L1015652-02	MW-205D-20101005-01	WAYLAND, MA	10/05/10 16:00
L1015652-03	MW-404-20101006-01	WAYLAND, MA	10/06/10 09:25
L1015652-04	MW-118-20101006-01	WAYLAND, MA	10/06/10 09:55
L1015652-05	MW-47M-20101006-01	WAYLAND, MA	10/06/10 09:45
L1015652-06	MW-203D-20101006-01	WAYLAND, MA	10/06/10 10:50
L1015652-07	MW-201M-20101006-01	WAYLAND, MA	10/06/10 11:40
L1015652-08	MW-43S-20101006-01	WAYLAND, MA	10/06/10 09:50
L1015652-09	TB-003-20101006-01	WAYLAND, MA	10/06/10 00:00
L1015652-10	MW-105M-20101006-01	WAYLAND, MA	10/06/10 11:00
L1015652-11	MW-33S-20101006-01	WAYLAND, MA	10/06/10 13:00
L1015652-12	MW-33M-20101006-01	WAYLAND, MA	10/06/10 14:05
L1015652-13	MW-202M-20101006-01	WAYLAND, MA	10/06/10 12:10

Project Name: RAYTHEON WAYLAND

Lab Number: L1015652

Project Number: 0114119

Report Date: 10/13/10

MADEP MCP Response Action Analytical Report Certification

This form provides certifications for all samples performed by MCP methods. Please refer to the Sample Results and Container Information sections of this report for specification of MCP methods used for each analysis. The following questions pertain only to MCP Analytical Methods.

An affirmative response to questions A through F is required for "Presumptive Certainty" status		
A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	YES
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	YES
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	YES
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data?"	YES
E a.	VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	N/A
E b.	APH and TO-15 Methods only: Was the complete analyte list reported for each method?	N/A
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	YES
A response to questions G, H and I is required for "Presumptive Certainty" status		
G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	NO
H	Were all QC performance standards specified in the CAM protocol(s) achieved?	NO
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	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
Project Number: 0114119

Lab Number: L1015652
Report Date: 10/13/10

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

Please see the associated ADEX data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

For additional information, please contact Client Services at 800-624-9220.

MCP Related Narratives

Volatile Organics

In reference to question G:

One or more of the target analytes did not achieve the requested CAM reporting limits.

In reference to question H:

The WG436706-1/-2 LCS/LCSD RPD, associated with L1015652-01 and -02 is above the acceptance criteria for trans-1,2-Dichloroethene (21%); however, the individual LCS/LCSD recoveries are within method limits.

The WG437128-4/-5 MS/MSD recoveries, performed on L1015652-10, were above the acceptance criteria for 1,1-Dichloroethene (141%/143%); however, the associated LCS/LCSD recoveries were within criteria. The results of the sample utilized for the MS/MSD are considered to have a potentially high bias for this compound.

The initial calibration, associated with L1015652-01, -02 -05 through -08 and -10 through -13, utilized a quadratic fit for Chloromethane, Chloroethane, and 1,1-Dichloroethane.

Project Name: RAYTHEON WAYLAND
Project Number: 0114119

Lab Number: L1015652
Report Date: 10/13/10

Case Narrative (continued)

The initial calibration, associated with L1015652-03, -04 and -09, utilized a quadratic fit for trans-1,3-Dichloropropene, Dibromochloromethane, Bromoform and 1,1,2,2-Tetrachloroethane.

In reference to question I:

All samples were analyzed for a subset of MCP compounds per the Chain of Custody.

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:  Elizabeth Simmons

Title: Technical Director/Representative

Date: 10/13/10

ORGANICS

VOLATILES

Project Name: RAYTHEON WAYLAND

Lab Number: L1015652

Project Number: 0114119

Report Date: 10/13/10

SAMPLE RESULTS

Lab ID: L1015652-01
 Client ID: MW-206D-20101005-01
 Sample Location: WAYLAND, MA
 Matrix: Water
 Analytical Method: 97,8260B
 Analytical Date: 10/08/10 18:23
 Analyst: MM

Date Collected: 10/05/10 15:50
 Date Received: 10/06/10
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND		ug/l	2.0	--	1
1,1-Dichloroethane	ND		ug/l	1.0	--	1
Chloroform	ND		ug/l	1.0	--	1
Carbon tetrachloride	ND		ug/l	1.0	--	1
1,2-Dichloropropane	ND		ug/l	1.0	--	1
Dibromochloromethane	ND		ug/l	1.0	--	1
1,1,2-Trichloroethane	ND		ug/l	1.0	--	1
Tetrachloroethene	ND		ug/l	1.0	--	1
Chlorobenzene	ND		ug/l	1.0	--	1
1,2-Dichloroethane	ND		ug/l	1.0	--	1
1,1,1-Trichloroethane	ND		ug/l	1.0	--	1
Bromodichloromethane	ND		ug/l	1.0	--	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	1.0	--	1
Chloromethane	ND		ug/l	2.0	--	1
Vinyl chloride	ND		ug/l	1.0	--	1
Chloroethane	ND		ug/l	2.0	--	1
1,1-Dichloroethene	ND		ug/l	1.0	--	1
trans-1,2-Dichloroethene	ND		ug/l	1.0	--	1
Trichloroethene	37		ug/l	1.0	--	1
1,2-Dichlorobenzene	ND		ug/l	1.0	--	1
1,3-Dichlorobenzene	ND		ug/l	1.0	--	1
1,4-Dichlorobenzene	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	6.0		ug/l	1.0	--	1
Dichlorodifluoromethane	ND		ug/l	2.0	--	1
1,2-Dibromoethane	ND		ug/l	2.0	--	1
1,3-Dichloropropane	ND		ug/l	2.0	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--	1

Project Name: RAYTHEON WAYLAND**Lab Number:** L1015652**Project Number:** 0114119**Report Date:** 10/13/10**SAMPLE RESULTS**

Lab ID: L1015652-01

Date Collected: 10/05/10 15:50

Client ID: MW-206D-20101005-01

Date Received: 10/06/10

Sample Location: WAYLAND, MA

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
o-Chlorotoluene	ND		ug/l	2.0	--	1
p-Chlorotoluene	ND		ug/l	2.0	--	1
Hexachlorobutadiene	ND		ug/l	0.60	--	1
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	115		70-130
Toluene-d8	93		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	111		70-130

Project Name: RAYTHEON WAYLAND**Lab Number:** L1015652**Project Number:** 0114119**Report Date:** 10/13/10**SAMPLE RESULTS**

Lab ID: L1015652-02
Client ID: MW-205D-20101005-01
Sample Location: WAYLAND, MA
Matrix: Water
Analytical Method: 97,8260B
Analytical Date: 10/08/10 18:55
Analyst: MM

Date Collected: 10/05/10 16:00
Date Received: 10/06/10
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND		ug/l	2.0	--	1
1,1-Dichloroethane	ND		ug/l	1.0	--	1
Chloroform	ND		ug/l	1.0	--	1
Carbon tetrachloride	ND		ug/l	1.0	--	1
1,2-Dichloropropane	ND		ug/l	1.0	--	1
Dibromochloromethane	ND		ug/l	1.0	--	1
1,1,2-Trichloroethane	ND		ug/l	1.0	--	1
Tetrachloroethene	ND		ug/l	1.0	--	1
Chlorobenzene	ND		ug/l	1.0	--	1
1,2-Dichloroethane	ND		ug/l	1.0	--	1
1,1,1-Trichloroethane	ND		ug/l	1.0	--	1
Bromodichloromethane	ND		ug/l	1.0	--	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	1.0	--	1
Chloromethane	ND		ug/l	2.0	--	1
Vinyl chloride	ND		ug/l	1.0	--	1
Chloroethane	ND		ug/l	2.0	--	1
1,1-Dichloroethene	ND		ug/l	1.0	--	1
trans-1,2-Dichloroethene	ND		ug/l	1.0	--	1
Trichloroethene	20		ug/l	1.0	--	1
1,2-Dichlorobenzene	ND		ug/l	1.0	--	1
1,3-Dichlorobenzene	ND		ug/l	1.0	--	1
1,4-Dichlorobenzene	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	4.2		ug/l	1.0	--	1
Dichlorodifluoromethane	ND		ug/l	2.0	--	1
1,2-Dibromoethane	ND		ug/l	2.0	--	1
1,3-Dichloropropane	ND		ug/l	2.0	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--	1

Project Name: RAYTHEON WAYLAND**Lab Number:** L1015652**Project Number:** 0114119**Report Date:** 10/13/10**SAMPLE RESULTS**

Lab ID: L1015652-02

Date Collected: 10/05/10 16:00

Client ID: MW-205D-20101005-01

Date Received: 10/06/10

Sample Location: WAYLAND, MA

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
o-Chlorotoluene	ND		ug/l	2.0	--	1
p-Chlorotoluene	ND		ug/l	2.0	--	1
Hexachlorobutadiene	ND		ug/l	0.60	--	1
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	113		70-130
Toluene-d8	93		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	115		70-130

Project Name: RAYTHEON WAYLAND**Lab Number:** L1015652**Project Number:** 0114119**Report Date:** 10/13/10**SAMPLE RESULTS**

Lab ID: L1015652-03
Client ID: MW-404-20101006-01
Sample Location: WAYLAND, MA
Matrix: Water
Analytical Method: 97,8260B
Analytical Date: 10/07/10 17:43
Analyst: MM

Date Collected: 10/06/10 09:25
Date Received: 10/06/10
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND		ug/l	2.0	--	1
1,1-Dichloroethane	ND		ug/l	1.0	--	1
Chloroform	ND		ug/l	1.0	--	1
Carbon tetrachloride	ND		ug/l	1.0	--	1
1,2-Dichloropropane	ND		ug/l	1.0	--	1
Dibromochloromethane	ND		ug/l	1.0	--	1
1,1,2-Trichloroethane	ND		ug/l	1.0	--	1
Tetrachloroethene	ND		ug/l	1.0	--	1
Chlorobenzene	ND		ug/l	1.0	--	1
1,2-Dichloroethane	ND		ug/l	1.0	--	1
1,1,1-Trichloroethane	ND		ug/l	1.0	--	1
Bromodichloromethane	ND		ug/l	1.0	--	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	1.0	--	1
Chloromethane	ND		ug/l	2.0	--	1
Vinyl chloride	ND		ug/l	1.0	--	1
Chloroethane	ND		ug/l	2.0	--	1
1,1-Dichloroethene	ND		ug/l	1.0	--	1
trans-1,2-Dichloroethene	ND		ug/l	1.0	--	1
Trichloroethene	13		ug/l	1.0	--	1
1,2-Dichlorobenzene	ND		ug/l	1.0	--	1
1,3-Dichlorobenzene	ND		ug/l	1.0	--	1
1,4-Dichlorobenzene	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	ND		ug/l	1.0	--	1
Dichlorodifluoromethane	ND		ug/l	2.0	--	1
1,2-Dibromoethane	ND		ug/l	2.0	--	1
1,3-Dichloropropane	ND		ug/l	2.0	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--	1

Project Name: RAYTHEON WAYLAND**Lab Number:** L1015652**Project Number:** 0114119**Report Date:** 10/13/10**SAMPLE RESULTS**

Lab ID: L1015652-03
 Client ID: MW-404-20101006-01
 Sample Location: WAYLAND, MA

Date Collected: 10/06/10 09:25
 Date Received: 10/06/10
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
o-Chlorotoluene	ND		ug/l	2.0	--	1
p-Chlorotoluene	ND		ug/l	2.0	--	1
Hexachlorobutadiene	ND		ug/l	0.60	--	1
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	103		70-130

Project Name: RAYTHEON WAYLAND**Lab Number:** L1015652**Project Number:** 0114119**Report Date:** 10/13/10**SAMPLE RESULTS**

Lab ID: L1015652-04
Client ID: MW-118-20101006-01
Sample Location: WAYLAND, MA
Matrix: Water
Analytical Method: 97,8260B
Analytical Date: 10/07/10 18:14
Analyst: MM

Date Collected: 10/06/10 09:55
Date Received: 10/06/10
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND		ug/l	2.0	--	1
1,1-Dichloroethane	ND		ug/l	1.0	--	1
Chloroform	ND		ug/l	1.0	--	1
Carbon tetrachloride	ND		ug/l	1.0	--	1
1,2-Dichloropropane	ND		ug/l	1.0	--	1
Dibromochloromethane	ND		ug/l	1.0	--	1
1,1,2-Trichloroethane	ND		ug/l	1.0	--	1
Tetrachloroethene	ND		ug/l	1.0	--	1
Chlorobenzene	ND		ug/l	1.0	--	1
1,2-Dichloroethane	ND		ug/l	1.0	--	1
1,1,1-Trichloroethane	ND		ug/l	1.0	--	1
Bromodichloromethane	ND		ug/l	1.0	--	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	1.0	--	1
Chloromethane	ND		ug/l	2.0	--	1
Vinyl chloride	ND		ug/l	1.0	--	1
Chloroethane	ND		ug/l	2.0	--	1
1,1-Dichloroethene	ND		ug/l	1.0	--	1
trans-1,2-Dichloroethene	ND		ug/l	1.0	--	1
Trichloroethene	25		ug/l	1.0	--	1
1,2-Dichlorobenzene	ND		ug/l	1.0	--	1
1,3-Dichlorobenzene	ND		ug/l	1.0	--	1
1,4-Dichlorobenzene	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	ND		ug/l	1.0	--	1
Dichlorodifluoromethane	ND		ug/l	2.0	--	1
1,2-Dibromoethane	ND		ug/l	2.0	--	1
1,3-Dichloropropane	ND		ug/l	2.0	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--	1

Project Name: RAYTHEON WAYLAND**Lab Number:** L1015652**Project Number:** 0114119**Report Date:** 10/13/10**SAMPLE RESULTS**

Lab ID: L1015652-04
 Client ID: MW-118-20101006-01
 Sample Location: WAYLAND, MA

Date Collected: 10/06/10 09:55
 Date Received: 10/06/10
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
o-Chlorotoluene	ND		ug/l	2.0	--	1
p-Chlorotoluene	ND		ug/l	2.0	--	1
Hexachlorobutadiene	ND		ug/l	0.60	--	1
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	104		70-130

Project Name: RAYTHEON WAYLAND

Lab Number: L1015652

Project Number: 0114119

Report Date: 10/13/10

SAMPLE RESULTS

Lab ID: L1015652-05
 Client ID: MW-47M-20101006-01
 Sample Location: WAYLAND, MA
 Matrix: Water
 Analytical Method: 97,8260B
 Analytical Date: 10/12/10 09:19
 Analyst: MM

Date Collected: 10/06/10 09:45
 Date Received: 10/06/10
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND		ug/l	2.0	--	1
1,1-Dichloroethane	ND		ug/l	1.0	--	1
Chloroform	ND		ug/l	1.0	--	1
Carbon tetrachloride	ND		ug/l	1.0	--	1
1,2-Dichloropropane	ND		ug/l	1.0	--	1
Dibromochloromethane	ND		ug/l	1.0	--	1
1,1,2-Trichloroethane	ND		ug/l	1.0	--	1
Tetrachloroethene	5.4		ug/l	1.0	--	1
Chlorobenzene	ND		ug/l	1.0	--	1
1,2-Dichloroethane	ND		ug/l	1.0	--	1
1,1,1-Trichloroethane	ND		ug/l	1.0	--	1
Bromodichloromethane	ND		ug/l	1.0	--	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	1.0	--	1
Chloromethane	ND		ug/l	2.0	--	1
Vinyl chloride	ND		ug/l	1.0	--	1
Chloroethane	ND		ug/l	2.0	--	1
1,1-Dichloroethene	ND		ug/l	1.0	--	1
trans-1,2-Dichloroethene	ND		ug/l	1.0	--	1
Trichloroethene	15		ug/l	1.0	--	1
1,2-Dichlorobenzene	ND		ug/l	1.0	--	1
1,3-Dichlorobenzene	ND		ug/l	1.0	--	1
1,4-Dichlorobenzene	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	2.4		ug/l	1.0	--	1
Dichlorodifluoromethane	ND		ug/l	2.0	--	1
1,2-Dibromoethane	ND		ug/l	2.0	--	1
1,3-Dichloropropane	ND		ug/l	2.0	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--	1

Project Name: RAYTHEON WAYLAND**Lab Number:** L1015652**Project Number:** 0114119**Report Date:** 10/13/10**SAMPLE RESULTS**

Lab ID: L1015652-05

Date Collected: 10/06/10 09:45

Client ID: MW-47M-20101006-01

Date Received: 10/06/10

Sample Location: WAYLAND, MA

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
o-Chlorotoluene	ND		ug/l	2.0	--	1
p-Chlorotoluene	ND		ug/l	2.0	--	1
Hexachlorobutadiene	ND		ug/l	0.60	--	1
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	106		70-130
Toluene-d8	93		70-130
4-Bromofluorobenzene	95		70-130
Dibromofluoromethane	116		70-130

Project Name: RAYTHEON WAYLAND**Lab Number:** L1015652**Project Number:** 0114119**Report Date:** 10/13/10**SAMPLE RESULTS**

Lab ID: L1015652-06
Client ID: MW-203D-20101006-01
Sample Location: WAYLAND, MA
Matrix: Water
Analytical Method: 97,8260B
Analytical Date: 10/12/10 09:51
Analyst: MM

Date Collected: 10/06/10 10:50
Date Received: 10/06/10
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND		ug/l	2.0	--	1
1,1-Dichloroethane	ND		ug/l	1.0	--	1
Chloroform	ND		ug/l	1.0	--	1
Carbon tetrachloride	ND		ug/l	1.0	--	1
1,2-Dichloropropane	ND		ug/l	1.0	--	1
Dibromochloromethane	ND		ug/l	1.0	--	1
1,1,2-Trichloroethane	ND		ug/l	1.0	--	1
Tetrachloroethene	3.0		ug/l	1.0	--	1
Chlorobenzene	ND		ug/l	1.0	--	1
1,2-Dichloroethane	ND		ug/l	1.0	--	1
1,1,1-Trichloroethane	ND		ug/l	1.0	--	1
Bromodichloromethane	ND		ug/l	1.0	--	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	1.0	--	1
Chloromethane	ND		ug/l	2.0	--	1
Vinyl chloride	ND		ug/l	1.0	--	1
Chloroethane	ND		ug/l	2.0	--	1
1,1-Dichloroethene	ND		ug/l	1.0	--	1
trans-1,2-Dichloroethene	ND		ug/l	1.0	--	1
Trichloroethene	98		ug/l	1.0	--	1
1,2-Dichlorobenzene	ND		ug/l	1.0	--	1
1,3-Dichlorobenzene	ND		ug/l	1.0	--	1
1,4-Dichlorobenzene	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	8.0		ug/l	1.0	--	1
Dichlorodifluoromethane	ND		ug/l	2.0	--	1
1,2-Dibromoethane	ND		ug/l	2.0	--	1
1,3-Dichloropropane	ND		ug/l	2.0	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--	1

Project Name: RAYTHEON WAYLAND**Lab Number:** L1015652**Project Number:** 0114119**Report Date:** 10/13/10**SAMPLE RESULTS**

Lab ID: L1015652-06

Date Collected: 10/06/10 10:50

Client ID: MW-203D-20101006-01

Date Received: 10/06/10

Sample Location: WAYLAND, MA

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
o-Chlorotoluene	ND		ug/l	2.0	--	1
p-Chlorotoluene	ND		ug/l	2.0	--	1
Hexachlorobutadiene	ND		ug/l	0.60	--	1
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	109		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	91		70-130
Dibromofluoromethane	116		70-130

Project Name: RAYTHEON WAYLAND

Lab Number: L1015652

Project Number: 0114119

Report Date: 10/13/10

SAMPLE RESULTS

Lab ID: L1015652-07
 Client ID: MW-201M-20101006-01
 Sample Location: WAYLAND, MA
 Matrix: Water
 Analytical Method: 97,8260B
 Analytical Date: 10/12/10 10:23
 Analyst: MM

Date Collected: 10/06/10 11:40
 Date Received: 10/06/10
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND		ug/l	2.0	--	1
1,1-Dichloroethane	2.4		ug/l	1.0	--	1
Chloroform	ND		ug/l	1.0	--	1
Carbon tetrachloride	ND		ug/l	1.0	--	1
1,2-Dichloropropane	ND		ug/l	1.0	--	1
Dibromochloromethane	ND		ug/l	1.0	--	1
1,1,2-Trichloroethane	ND		ug/l	1.0	--	1
Tetrachloroethene	ND		ug/l	1.0	--	1
Chlorobenzene	ND		ug/l	1.0	--	1
1,2-Dichloroethane	ND		ug/l	1.0	--	1
1,1,1-Trichloroethane	ND		ug/l	1.0	--	1
Bromodichloromethane	ND		ug/l	1.0	--	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	1.0	--	1
Chloromethane	ND		ug/l	2.0	--	1
Vinyl chloride	ND		ug/l	1.0	--	1
Chloroethane	ND		ug/l	2.0	--	1
1,1-Dichloroethene	4.1		ug/l	1.0	--	1
trans-1,2-Dichloroethene	ND		ug/l	1.0	--	1
Trichloroethene	56		ug/l	1.0	--	1
1,2-Dichlorobenzene	ND		ug/l	1.0	--	1
1,3-Dichlorobenzene	ND		ug/l	1.0	--	1
1,4-Dichlorobenzene	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	48		ug/l	1.0	--	1
Dichlorodifluoromethane	ND		ug/l	2.0	--	1
1,2-Dibromoethane	ND		ug/l	2.0	--	1
1,3-Dichloropropane	ND		ug/l	2.0	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--	1

Project Name: RAYTHEON WAYLAND**Lab Number:** L1015652**Project Number:** 0114119**Report Date:** 10/13/10**SAMPLE RESULTS**

Lab ID: L1015652-07

Date Collected: 10/06/10 11:40

Client ID: MW-201M-20101006-01

Date Received: 10/06/10

Sample Location: WAYLAND, MA

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
o-Chlorotoluene	ND		ug/l	2.0	--	1
p-Chlorotoluene	ND		ug/l	2.0	--	1
Hexachlorobutadiene	ND		ug/l	0.60	--	1
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	98		70-130
Toluene-d8	91		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	111		70-130

Project Name: RAYTHEON WAYLAND

Lab Number: L1015652

Project Number: 0114119

Report Date: 10/13/10

SAMPLE RESULTS

Lab ID: L1015652-08
 Client ID: MW-43S-20101006-01
 Sample Location: WAYLAND, MA
 Matrix: Water
 Analytical Method: 97,8260B
 Analytical Date: 10/12/10 10:55
 Analyst: MM

Date Collected: 10/06/10 09:50
 Date Received: 10/06/10
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND		ug/l	2.0	--	1
1,1-Dichloroethane	ND		ug/l	1.0	--	1
Chloroform	ND		ug/l	1.0	--	1
Carbon tetrachloride	ND		ug/l	1.0	--	1
1,2-Dichloropropane	ND		ug/l	1.0	--	1
Dibromochloromethane	ND		ug/l	1.0	--	1
1,1,2-Trichloroethane	ND		ug/l	1.0	--	1
Tetrachloroethene	1.3		ug/l	1.0	--	1
Chlorobenzene	ND		ug/l	1.0	--	1
1,2-Dichloroethane	ND		ug/l	1.0	--	1
1,1,1-Trichloroethane	ND		ug/l	1.0	--	1
Bromodichloromethane	ND		ug/l	1.0	--	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	1.0	--	1
Chloromethane	ND		ug/l	2.0	--	1
Vinyl chloride	ND		ug/l	1.0	--	1
Chloroethane	ND		ug/l	2.0	--	1
1,1-Dichloroethene	ND		ug/l	1.0	--	1
trans-1,2-Dichloroethene	ND		ug/l	1.0	--	1
Trichloroethene	7.3		ug/l	1.0	--	1
1,2-Dichlorobenzene	ND		ug/l	1.0	--	1
1,3-Dichlorobenzene	ND		ug/l	1.0	--	1
1,4-Dichlorobenzene	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	ND		ug/l	1.0	--	1
Dichlorodifluoromethane	ND		ug/l	2.0	--	1
1,2-Dibromoethane	ND		ug/l	2.0	--	1
1,3-Dichloropropane	ND		ug/l	2.0	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--	1

Project Name: RAYTHEON WAYLAND**Lab Number:** L1015652**Project Number:** 0114119**Report Date:** 10/13/10**SAMPLE RESULTS**

Lab ID: L1015652-08
 Client ID: MW-43S-20101006-01
 Sample Location: WAYLAND, MA

Date Collected: 10/06/10 09:50
 Date Received: 10/06/10
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
o-Chlorotoluene	ND		ug/l	2.0	--	1
p-Chlorotoluene	ND		ug/l	2.0	--	1
Hexachlorobutadiene	ND		ug/l	0.60	--	1
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	107		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	112		70-130

Project Name: RAYTHEON WAYLAND
Project Number: 0114119

Lab Number: L1015652
Report Date: 10/13/10

SAMPLE RESULTS

Lab ID: L1015652-09
Client ID: TB-003-20101006-01
Sample Location: WAYLAND, MA
Matrix: Water
Analytical Method: 97,8260B
Analytical Date: 10/07/10 17:11
Analyst: MM

Date Collected: 10/06/10 00:00
Date Received: 10/06/10
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND		ug/l	2.0	--	1
1,1-Dichloroethane	ND		ug/l	1.0	--	1
Chloroform	ND		ug/l	1.0	--	1
Carbon tetrachloride	ND		ug/l	1.0	--	1
1,2-Dichloropropane	ND		ug/l	1.0	--	1
Dibromochloromethane	ND		ug/l	1.0	--	1
1,1,2-Trichloroethane	ND		ug/l	1.0	--	1
Tetrachloroethene	ND		ug/l	1.0	--	1
Chlorobenzene	ND		ug/l	1.0	--	1
1,2-Dichloroethane	ND		ug/l	1.0	--	1
1,1,1-Trichloroethane	ND		ug/l	1.0	--	1
Bromodichloromethane	ND		ug/l	1.0	--	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	1.0	--	1
Chloromethane	ND		ug/l	2.0	--	1
Vinyl chloride	ND		ug/l	1.0	--	1
Chloroethane	ND		ug/l	2.0	--	1
1,1-Dichloroethene	ND		ug/l	1.0	--	1
trans-1,2-Dichloroethene	ND		ug/l	1.0	--	1
Trichloroethene	ND		ug/l	1.0	--	1
1,2-Dichlorobenzene	ND		ug/l	1.0	--	1
1,3-Dichlorobenzene	ND		ug/l	1.0	--	1
1,4-Dichlorobenzene	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	ND		ug/l	1.0	--	1
Dichlorodifluoromethane	ND		ug/l	2.0	--	1
1,2-Dibromoethane	ND		ug/l	2.0	--	1
1,3-Dichloropropane	ND		ug/l	2.0	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--	1

Project Name: RAYTHEON WAYLAND**Lab Number:** L1015652**Project Number:** 0114119**Report Date:** 10/13/10**SAMPLE RESULTS**

Lab ID: L1015652-09
 Client ID: TB-003-20101006-01
 Sample Location: WAYLAND, MA

Date Collected: 10/06/10 00:00
 Date Received: 10/06/10
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
o-Chlorotoluene	ND		ug/l	2.0	--	1
p-Chlorotoluene	ND		ug/l	2.0	--	1
Hexachlorobutadiene	ND		ug/l	0.60	--	1
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--	1

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

Project Name: RAYTHEON WAYLAND
Project Number: 0114119

Lab Number: L1015652
Report Date: 10/13/10

SAMPLE RESULTS

Lab ID: L1015652-10
Client ID: MW-105M-20101006-01
Sample Location: WAYLAND, MA
Matrix: Water
Analytical Method: 97,8260B
Analytical Date: 10/12/10 08:46
Analyst: MM

Date Collected: 10/06/10 11:00
Date Received: 10/06/10
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND		ug/l	2.0	--	1
1,1-Dichloroethane	ND		ug/l	1.0	--	1
Chloroform	ND		ug/l	1.0	--	1
Carbon tetrachloride	ND		ug/l	1.0	--	1
1,2-Dichloropropane	ND		ug/l	1.0	--	1
Dibromochloromethane	ND		ug/l	1.0	--	1
1,1,2-Trichloroethane	ND		ug/l	1.0	--	1
Tetrachloroethene	ND		ug/l	1.0	--	1
Chlorobenzene	ND		ug/l	1.0	--	1
1,2-Dichloroethane	ND		ug/l	1.0	--	1
1,1,1-Trichloroethane	ND		ug/l	1.0	--	1
Bromodichloromethane	ND		ug/l	1.0	--	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	1.0	--	1
Chloromethane	ND		ug/l	2.0	--	1
Vinyl chloride	ND		ug/l	1.0	--	1
Chloroethane	ND		ug/l	2.0	--	1
1,1-Dichloroethene	ND		ug/l	1.0	--	1
trans-1,2-Dichloroethene	ND		ug/l	1.0	--	1
Trichloroethene	1.1		ug/l	1.0	--	1
1,2-Dichlorobenzene	1.4		ug/l	1.0	--	1
1,3-Dichlorobenzene	ND		ug/l	1.0	--	1
1,4-Dichlorobenzene	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	ND		ug/l	1.0	--	1
Dichlorodifluoromethane	ND		ug/l	2.0	--	1
1,2-Dibromoethane	ND		ug/l	2.0	--	1
1,3-Dichloropropane	ND		ug/l	2.0	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--	1

Project Name: RAYTHEON WAYLAND**Lab Number:** L1015652**Project Number:** 0114119**Report Date:** 10/13/10**SAMPLE RESULTS**

Lab ID: L1015652-10

Date Collected: 10/06/10 11:00

Client ID: MW-105M-20101006-01

Date Received: 10/06/10

Sample Location: WAYLAND, MA

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
o-Chlorotoluene	ND		ug/l	2.0	--	1
p-Chlorotoluene	ND		ug/l	2.0	--	1
Hexachlorobutadiene	ND		ug/l	0.60	--	1
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	106		70-130
Toluene-d8	93		70-130
4-Bromofluorobenzene	93		70-130
Dibromofluoromethane	114		70-130

Project Name: RAYTHEON WAYLAND**Lab Number:** L1015652**Project Number:** 0114119**Report Date:** 10/13/10**SAMPLE RESULTS**

Lab ID: L1015652-11
Client ID: MW-33S-20101006-01
Sample Location: WAYLAND, MA
Matrix: Water
Analytical Method: 97,8260B
Analytical Date: 10/12/10 11:28
Analyst: MM

Date Collected: 10/06/10 13:00
Date Received: 10/06/10
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND		ug/l	2.0	--	1
1,1-Dichloroethane	ND		ug/l	1.0	--	1
Chloroform	ND		ug/l	1.0	--	1
Carbon tetrachloride	ND		ug/l	1.0	--	1
1,2-Dichloropropane	ND		ug/l	1.0	--	1
Dibromochloromethane	ND		ug/l	1.0	--	1
1,1,2-Trichloroethane	ND		ug/l	1.0	--	1
Tetrachloroethene	ND		ug/l	1.0	--	1
Chlorobenzene	ND		ug/l	1.0	--	1
1,2-Dichloroethane	ND		ug/l	1.0	--	1
1,1,1-Trichloroethane	ND		ug/l	1.0	--	1
Bromodichloromethane	ND		ug/l	1.0	--	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	1.0	--	1
Chloromethane	ND		ug/l	2.0	--	1
Vinyl chloride	ND		ug/l	1.0	--	1
Chloroethane	ND		ug/l	2.0	--	1
1,1-Dichloroethene	ND		ug/l	1.0	--	1
trans-1,2-Dichloroethene	ND		ug/l	1.0	--	1
Trichloroethene	6.9		ug/l	1.0	--	1
1,2-Dichlorobenzene	ND		ug/l	1.0	--	1
1,3-Dichlorobenzene	ND		ug/l	1.0	--	1
1,4-Dichlorobenzene	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	2.9		ug/l	1.0	--	1
Dichlorodifluoromethane	ND		ug/l	2.0	--	1
1,2-Dibromoethane	ND		ug/l	2.0	--	1
1,3-Dichloropropane	ND		ug/l	2.0	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--	1

Project Name: RAYTHEON WAYLAND**Lab Number:** L1015652**Project Number:** 0114119**Report Date:** 10/13/10**SAMPLE RESULTS**

Lab ID: L1015652-11
 Client ID: MW-33S-20101006-01
 Sample Location: WAYLAND, MA

Date Collected: 10/06/10 13:00
 Date Received: 10/06/10
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
o-Chlorotoluene	ND		ug/l	2.0	--	1
p-Chlorotoluene	ND		ug/l	2.0	--	1
Hexachlorobutadiene	ND		ug/l	0.60	--	1
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	112		70-130
Toluene-d8	93		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	120		70-130

Project Name: RAYTHEON WAYLAND

Lab Number: L1015652

Project Number: 0114119

Report Date: 10/13/10

SAMPLE RESULTS

Lab ID: L1015652-12
 Client ID: MW-33M-20101006-01
 Sample Location: WAYLAND, MA
 Matrix: Water
 Analytical Method: 97,8260B
 Analytical Date: 10/12/10 12:00
 Analyst: MM

Date Collected: 10/06/10 14:05
 Date Received: 10/06/10
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND		ug/l	2.0	--	1
1,1-Dichloroethane	ND		ug/l	1.0	--	1
Chloroform	ND		ug/l	1.0	--	1
Carbon tetrachloride	ND		ug/l	1.0	--	1
1,2-Dichloropropane	ND		ug/l	1.0	--	1
Dibromochloromethane	ND		ug/l	1.0	--	1
1,1,2-Trichloroethane	ND		ug/l	1.0	--	1
Tetrachloroethene	ND		ug/l	1.0	--	1
Chlorobenzene	ND		ug/l	1.0	--	1
1,2-Dichloroethane	ND		ug/l	1.0	--	1
1,1,1-Trichloroethane	ND		ug/l	1.0	--	1
Bromodichloromethane	ND		ug/l	1.0	--	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	1.0	--	1
Chloromethane	ND		ug/l	2.0	--	1
Vinyl chloride	ND		ug/l	1.0	--	1
Chloroethane	ND		ug/l	2.0	--	1
1,1-Dichloroethene	ND		ug/l	1.0	--	1
trans-1,2-Dichloroethene	ND		ug/l	1.0	--	1
Trichloroethene	ND		ug/l	1.0	--	1
1,2-Dichlorobenzene	ND		ug/l	1.0	--	1
1,3-Dichlorobenzene	ND		ug/l	1.0	--	1
1,4-Dichlorobenzene	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	ND		ug/l	1.0	--	1
Dichlorodifluoromethane	ND		ug/l	2.0	--	1
1,2-Dibromoethane	ND		ug/l	2.0	--	1
1,3-Dichloropropane	ND		ug/l	2.0	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--	1

Project Name: RAYTHEON WAYLAND**Lab Number:** L1015652**Project Number:** 0114119**Report Date:** 10/13/10**SAMPLE RESULTS**

Lab ID: L1015652-12

Date Collected: 10/06/10 14:05

Client ID: MW-33M-20101006-01

Date Received: 10/06/10

Sample Location: WAYLAND, MA

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
o-Chlorotoluene	ND		ug/l	2.0	--	1
p-Chlorotoluene	ND		ug/l	2.0	--	1
Hexachlorobutadiene	ND		ug/l	0.60	--	1
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	109		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	116		70-130

Project Name: RAYTHEON WAYLAND

Lab Number: L1015652

Project Number: 0114119

Report Date: 10/13/10

SAMPLE RESULTS

Lab ID: L1015652-13
 Client ID: MW-202M-20101006-01
 Sample Location: WAYLAND, MA
 Matrix: Water
 Analytical Method: 97,8260B
 Analytical Date: 10/12/10 12:32
 Analyst: MM

Date Collected: 10/06/10 12:10
 Date Received: 10/06/10
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND		ug/l	2.0	--	1
1,1-Dichloroethane	ND		ug/l	1.0	--	1
Chloroform	ND		ug/l	1.0	--	1
Carbon tetrachloride	ND		ug/l	1.0	--	1
1,2-Dichloropropane	ND		ug/l	1.0	--	1
Dibromochloromethane	ND		ug/l	1.0	--	1
1,1,2-Trichloroethane	ND		ug/l	1.0	--	1
Tetrachloroethene	ND		ug/l	1.0	--	1
Chlorobenzene	ND		ug/l	1.0	--	1
1,2-Dichloroethane	ND		ug/l	1.0	--	1
1,1,1-Trichloroethane	10		ug/l	1.0	--	1
Bromodichloromethane	ND		ug/l	1.0	--	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	1.0	--	1
Chloromethane	ND		ug/l	2.0	--	1
Vinyl chloride	ND		ug/l	1.0	--	1
Chloroethane	ND		ug/l	2.0	--	1
1,1-Dichloroethene	ND		ug/l	1.0	--	1
trans-1,2-Dichloroethene	ND		ug/l	1.0	--	1
Trichloroethene	32		ug/l	1.0	--	1
1,2-Dichlorobenzene	ND		ug/l	1.0	--	1
1,3-Dichlorobenzene	ND		ug/l	1.0	--	1
1,4-Dichlorobenzene	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	ND		ug/l	1.0	--	1
Dichlorodifluoromethane	ND		ug/l	2.0	--	1
1,2-Dibromoethane	ND		ug/l	2.0	--	1
1,3-Dichloropropane	ND		ug/l	2.0	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--	1

Project Name: RAYTHEON WAYLAND**Lab Number:** L1015652**Project Number:** 0114119**Report Date:** 10/13/10**SAMPLE RESULTS**

Lab ID: L1015652-13
 Client ID: MW-202M-20101006-01
 Sample Location: WAYLAND, MA

Date Collected: 10/06/10 12:10
 Date Received: 10/06/10
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
o-Chlorotoluene	ND		ug/l	2.0	--	1
p-Chlorotoluene	ND		ug/l	2.0	--	1
Hexachlorobutadiene	ND		ug/l	0.60	--	1
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	111		70-130
Toluene-d8	92		70-130
4-Bromofluorobenzene	91		70-130
Dibromofluoromethane	115		70-130

Project Name: RAYTHEON WAYLAND
Project Number: 0114119

Lab Number: L1015652
Report Date: 10/13/10

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260B
Analytical Date: 10/07/10 08:46
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics - Westborough Lab for sample(s): 03-04,09 Batch: WG436442-3					
Methylene chloride	ND		ug/l	2.0	--
1,1-Dichloroethane	ND		ug/l	1.0	--
Chloroform	ND		ug/l	1.0	--
Carbon tetrachloride	ND		ug/l	1.0	--
1,2-Dichloropropane	ND		ug/l	1.0	--
Dibromochloromethane	ND		ug/l	1.0	--
1,1,2-Trichloroethane	ND		ug/l	1.0	--
Tetrachloroethene	ND		ug/l	1.0	--
Chlorobenzene	ND		ug/l	1.0	--
Trichlorofluoromethane	ND		ug/l	2.0	--
1,2-Dichloroethane	ND		ug/l	1.0	--
1,1,1-Trichloroethane	ND		ug/l	1.0	--
Bromodichloromethane	ND		ug/l	1.0	--
trans-1,3-Dichloropropene	ND		ug/l	0.50	--
cis-1,3-Dichloropropene	ND		ug/l	0.50	--
1,1-Dichloropropene	ND		ug/l	2.0	--
Bromoform	ND		ug/l	2.0	--
1,1,2,2-Tetrachloroethane	ND		ug/l	1.0	--
Benzene	ND		ug/l	1.0	--
Toluene	ND		ug/l	1.0	--
Ethylbenzene	ND		ug/l	1.0	--
Chloromethane	ND		ug/l	2.0	--
Bromomethane	ND		ug/l	2.0	--
Vinyl chloride	ND		ug/l	1.0	--
Chloroethane	ND		ug/l	2.0	--
1,1-Dichloroethene	ND		ug/l	1.0	--
trans-1,2-Dichloroethene	ND		ug/l	1.0	--
Trichloroethene	ND		ug/l	1.0	--
1,2-Dichlorobenzene	ND		ug/l	1.0	--
1,3-Dichlorobenzene	ND		ug/l	1.0	--
1,4-Dichlorobenzene	ND		ug/l	1.0	--

Project Name: RAYTHEON WAYLAND
Project Number: 0114119

Lab Number: L1015652
Report Date: 10/13/10

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260B
Analytical Date: 10/07/10 08:46
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics - Westborough Lab for sample(s): 03-04,09 Batch: WG436442-3					
Methyl tert butyl ether	ND		ug/l	2.0	--
p/m-Xylene	ND		ug/l	2.0	--
o-Xylene	ND		ug/l	1.0	--
cis-1,2-Dichloroethene	ND		ug/l	1.0	--
Dibromomethane	ND		ug/l	2.0	--
1,2,3-Trichloropropane	ND		ug/l	2.0	--
Styrene	ND		ug/l	1.0	--
Dichlorodifluoromethane	ND		ug/l	2.0	--
Acetone	ND		ug/l	5.0	--
Carbon disulfide	ND		ug/l	2.0	--
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	2.0	--
Tetrahydrofuran	ND		ug/l	10	--
2,2-Dichloropropane	ND		ug/l	2.0	--
1,2-Dibromoethane	ND		ug/l	2.0	--
1,3-Dichloropropane	ND		ug/l	2.0	--
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--
Bromobenzene	ND		ug/l	2.0	--
n-Butylbenzene	ND		ug/l	2.0	--
sec-Butylbenzene	ND		ug/l	2.0	--
tert-Butylbenzene	ND		ug/l	2.0	--
o-Chlorotoluene	ND		ug/l	2.0	--
p-Chlorotoluene	ND		ug/l	2.0	--
1,2-Dibromo-3-chloropropane	ND		ug/l	2.0	--
Hexachlorobutadiene	ND		ug/l	0.60	--
Isopropylbenzene	ND		ug/l	2.0	--
p-Isopropyltoluene	ND		ug/l	2.0	--
Naphthalene	ND		ug/l	2.0	--
n-Propylbenzene	ND		ug/l	2.0	--

Project Name: RAYTHEON WAYLAND
Project Number: 0114119

Lab Number: L1015652
Report Date: 10/13/10

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260B
Analytical Date: 10/07/10 08:46
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics - Westborough Lab for sample(s): 03-04,09 Batch: WG436442-3					
1,2,3-Trichlorobenzene	ND		ug/l	2.0	--
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--
1,3,5-Trimethylbenzene	ND		ug/l	2.0	--
1,2,4-Trimethylbenzene	ND		ug/l	2.0	--
Ethyl ether	ND		ug/l	2.0	--
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	98		70-130
Dibromofluoromethane	109		70-130

Project Name: RAYTHEON WAYLAND
Project Number: 0114119

Lab Number: L1015652
Report Date: 10/13/10

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260B
Analytical Date: 10/08/10 09:11
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics - Westborough Lab for sample(s): 01-02 Batch: WG436706-3					
Methylene chloride	ND		ug/l	2.0	--
1,1-Dichloroethane	ND		ug/l	1.0	--
Chloroform	ND		ug/l	1.0	--
Carbon tetrachloride	ND		ug/l	1.0	--
1,2-Dichloropropane	ND		ug/l	1.0	--
Dibromochloromethane	ND		ug/l	1.0	--
1,1,2-Trichloroethane	ND		ug/l	1.0	--
Tetrachloroethene	ND		ug/l	1.0	--
Chlorobenzene	ND		ug/l	1.0	--
Trichlorofluoromethane	ND		ug/l	2.0	--
1,2-Dichloroethane	ND		ug/l	1.0	--
1,1,1-Trichloroethane	ND		ug/l	1.0	--
Bromodichloromethane	ND		ug/l	1.0	--
trans-1,3-Dichloropropene	ND		ug/l	0.50	--
cis-1,3-Dichloropropene	ND		ug/l	0.50	--
1,1-Dichloropropene	ND		ug/l	2.0	--
Bromoform	ND		ug/l	2.0	--
1,1,2,2-Tetrachloroethane	ND		ug/l	1.0	--
Benzene	ND		ug/l	1.0	--
Toluene	ND		ug/l	1.0	--
Ethylbenzene	ND		ug/l	1.0	--
Chloromethane	ND		ug/l	2.0	--
Bromomethane	ND		ug/l	2.0	--
Vinyl chloride	ND		ug/l	1.0	--
Chloroethane	ND		ug/l	2.0	--
1,1-Dichloroethene	ND		ug/l	1.0	--
trans-1,2-Dichloroethene	ND		ug/l	1.0	--
Trichloroethene	ND		ug/l	1.0	--
1,2-Dichlorobenzene	ND		ug/l	1.0	--
1,3-Dichlorobenzene	ND		ug/l	1.0	--
1,4-Dichlorobenzene	ND		ug/l	1.0	--

Project Name: RAYTHEON WAYLAND
Project Number: 0114119

Lab Number: L1015652
Report Date: 10/13/10

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260B
Analytical Date: 10/08/10 09:11
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics - Westborough Lab for sample(s): 01-02 Batch: WG436706-3					
Methyl tert butyl ether	ND		ug/l	2.0	--
p/m-Xylene	ND		ug/l	2.0	--
o-Xylene	ND		ug/l	1.0	--
cis-1,2-Dichloroethene	ND		ug/l	1.0	--
Dibromomethane	ND		ug/l	2.0	--
1,2,3-Trichloropropane	ND		ug/l	2.0	--
Styrene	ND		ug/l	1.0	--
Dichlorodifluoromethane	ND		ug/l	2.0	--
Acetone	ND		ug/l	5.0	--
Carbon disulfide	ND		ug/l	2.0	--
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	2.0	--
Tetrahydrofuran	ND		ug/l	10	--
2,2-Dichloropropane	ND		ug/l	2.0	--
1,2-Dibromoethane	ND		ug/l	2.0	--
1,3-Dichloropropane	ND		ug/l	2.0	--
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--
Bromobenzene	ND		ug/l	2.0	--
n-Butylbenzene	ND		ug/l	2.0	--
sec-Butylbenzene	ND		ug/l	2.0	--
tert-Butylbenzene	ND		ug/l	2.0	--
o-Chlorotoluene	ND		ug/l	2.0	--
p-Chlorotoluene	ND		ug/l	2.0	--
1,2-Dibromo-3-chloropropane	ND		ug/l	2.0	--
Hexachlorobutadiene	ND		ug/l	0.60	--
Isopropylbenzene	ND		ug/l	2.0	--
p-Isopropyltoluene	ND		ug/l	2.0	--
Naphthalene	ND		ug/l	2.0	--
n-Propylbenzene	ND		ug/l	2.0	--

Project Name: RAYTHEON WAYLAND
Project Number: 0114119

Lab Number: L1015652
Report Date: 10/13/10

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260B
Analytical Date: 10/08/10 09:11
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics - Westborough Lab for sample(s): 01-02 Batch: WG436706-3					
1,2,3-Trichlorobenzene	ND		ug/l	2.0	--
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--
1,3,5-Trimethylbenzene	ND		ug/l	2.0	--
1,2,4-Trimethylbenzene	ND		ug/l	2.0	--
Ethyl ether	ND		ug/l	2.0	--
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	105		70-130
Toluene-d8	93		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	110		70-130

Project Name: RAYTHEON WAYLAND
Project Number: 0114119

Lab Number: L1015652
Report Date: 10/13/10

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260B
Analytical Date: 10/12/10 08:14
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics - Westborough Lab for sample(s): 05-08,10-13 Batch: WG437128-3					
Methylene chloride	ND		ug/l	2.0	--
1,1-Dichloroethane	ND		ug/l	1.0	--
Chloroform	ND		ug/l	1.0	--
Carbon tetrachloride	ND		ug/l	1.0	--
1,2-Dichloropropane	ND		ug/l	1.0	--
Dibromochloromethane	ND		ug/l	1.0	--
1,1,2-Trichloroethane	ND		ug/l	1.0	--
Tetrachloroethene	ND		ug/l	1.0	--
Chlorobenzene	ND		ug/l	1.0	--
1,2-Dichloroethane	ND		ug/l	1.0	--
1,1,1-Trichloroethane	ND		ug/l	1.0	--
Bromodichloromethane	ND		ug/l	1.0	--
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	1.0	--
Chloromethane	ND		ug/l	2.0	--
Vinyl chloride	ND		ug/l	1.0	--
Chloroethane	ND		ug/l	2.0	--
1,1-Dichloroethene	ND		ug/l	1.0	--
trans-1,2-Dichloroethene	ND		ug/l	1.0	--
Trichloroethene	ND		ug/l	1.0	--
1,2-Dichlorobenzene	ND		ug/l	1.0	--
1,3-Dichlorobenzene	ND		ug/l	1.0	--
1,4-Dichlorobenzene	ND		ug/l	1.0	--
cis-1,2-Dichloroethene	ND		ug/l	1.0	--
Dichlorodifluoromethane	ND		ug/l	2.0	--
1,2-Dibromoethane	ND		ug/l	2.0	--
1,3-Dichloropropane	ND		ug/l	2.0	--
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--
o-Chlorotoluene	ND		ug/l	2.0	--

Project Name: RAYTHEON WAYLAND

Lab Number: L1015652

Project Number: 0114119

Report Date: 10/13/10

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 97,8260B
 Analytical Date: 10/12/10 08:14
 Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics - Westborough Lab for sample(s): 05-08,10-13 Batch: WG437128-3					
p-Chlorotoluene	ND		ug/l	2.0	--
Hexachlorobutadiene	ND		ug/l	0.60	--
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	93		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	119		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: RAYTHEON WAYLAND

Lab Number: L1015652

Project Number: 0114119

Report Date: 10/13/10

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
MCP Volatile Organics - Westborough Lab Associated sample(s): 03-04,09 Batch: WG436442-1 WG436442-2								
Methylene chloride	100		107		70-130	7		20
1,1-Dichloroethane	100		108		70-130	8		20
Chloroform	99		109		70-130	10		20
Carbon tetrachloride	94		104		70-130	10		20
1,2-Dichloropropane	102		114		70-130	11		20
Dibromochloromethane	100		112		70-130	11		20
1,1,2-Trichloroethane	102		109		70-130	7		20
Tetrachloroethene	98		106		70-130	8		20
Chlorobenzene	96		103		70-130	7		20
Trichlorofluoromethane	108		119		70-130	10		20
1,2-Dichloroethane	104		114		70-130	9		20
1,1,1-Trichloroethane	95		106		70-130	11		20
Bromodichloromethane	98		109		70-130	11		20
trans-1,3-Dichloropropene	104		112		70-130	7		20
cis-1,3-Dichloropropene	103		115		70-130	11		20
1,1-Dichloropropene	96		108		70-130	12		20
Bromoform	100		102		70-130	2		20
1,1,2,2-Tetrachloroethane	103		106		70-130	3		20
Benzene	99		112		70-130	12		20
Toluene	94		102		70-130	8		20
Ethylbenzene	99		108		70-130	9		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: RAYTHEON WAYLAND

Lab Number: L1015652

Project Number: 0114119

Report Date: 10/13/10

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
MCP Volatile Organics - Westborough Lab Associated sample(s): 03-04,09 Batch: WG436442-1 WG436442-2								
Chloromethane	108		117		70-130	8		20
Bromomethane	95		106		70-130	11		20
Vinyl chloride	107		118		70-130	10		20
Chloroethane	96		104		70-130	8		20
1,1-Dichloroethene	97		106		70-130	9		20
trans-1,2-Dichloroethene	96		105		70-130	9		20
Trichloroethene	92		104		70-130	12		20
1,2-Dichlorobenzene	93		100		70-130	7		20
1,3-Dichlorobenzene	93		102		70-130	9		20
1,4-Dichlorobenzene	94		100		70-130	6		20
Methyl tert butyl ether	81		90		70-130	11		20
p/m-Xylene	101		108		70-130	7		20
o-Xylene	98		104		70-130	6		20
cis-1,2-Dichloroethene	100		108		70-130	8		20
Dibromomethane	113		122		70-130	8		20
1,2,3-Trichloropropane	99		105		70-130	6		20
Styrene	95		102		70-130	7		20
Dichlorodifluoromethane	118		130		70-130	10		20
Acetone	117		139	Q	70-130	17		20
Carbon disulfide	83		90		70-130	8		20
2-Butanone	105		105		70-130	0		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: RAYTHEON WAYLAND

Lab Number: L1015652

Project Number: 0114119

Report Date: 10/13/10

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
MCP Volatile Organics - Westborough Lab Associated sample(s): 03-04,09 Batch: WG436442-1 WG436442-2								
4-Methyl-2-pentanone	104		92		70-130	12		20
2-Hexanone	84		94		70-130	11		20
Bromochloromethane	97		109		70-130	12		20
Tetrahydrofuran	89		95		70-130	7		20
2,2-Dichloropropane	94		104		70-130	10		20
1,2-Dibromoethane	96		104		70-130	8		20
1,3-Dichloropropane	100		108		70-130	8		20
1,1,1,2-Tetrachloroethane	97		104		70-130	7		20
Bromobenzene	96		101		70-130	5		20
n-Butylbenzene	80		84		70-130	5		20
sec-Butylbenzene	93		98		70-130	5		20
tert-Butylbenzene	92		100		70-130	8		20
o-Chlorotoluene	94		101		70-130	7		20
p-Chlorotoluene	96		101		70-130	5		20
1,2-Dibromo-3-chloropropane	95		110		70-130	15		20
Hexachlorobutadiene	98		104		70-130	6		20
Isopropylbenzene	96		102		70-130	6		20
p-Isopropyltoluene	98		106		70-130	8		20
Naphthalene	74		82		70-130	10		20
n-Propylbenzene	96		101		70-130	5		20
1,2,3-Trichlorobenzene	82		91		70-130	10		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: RAYTHEON WAYLAND

Lab Number: L1015652

Project Number: 0114119

Report Date: 10/13/10

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
MCP Volatile Organics - Westborough Lab Associated sample(s): 03-04,09 Batch: WG436442-1 WG436442-2								
1,2,4-Trichlorobenzene	80		91		70-130	13		20
1,3,5-Trimethylbenzene	91		97		70-130	6		20
1,2,4-Trimethylbenzene	99		105		70-130	6		20
Ethyl ether	95		107		70-130	12		20
Isopropyl Ether	89		96		70-130	8		20
Ethyl-Tert-Butyl-Ether	86		92		70-130	7		20
Tertiary-Amyl Methyl Ether	96		104		70-130	8		20
1,4-Dioxane	94		89		70-130	5		20

Surrogate	LCS		LCSD		Acceptance Criteria
	%Recovery	Qual	%Recovery	Qual	
1,2-Dichloroethane-d4	100		106		70-130
Toluene-d8	101		100		70-130
4-Bromofluorobenzene	97		94		70-130
Dibromofluoromethane	105		101		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: RAYTHEON WAYLAND

Lab Number: L1015652

Project Number: 0114119

Report Date: 10/13/10

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
MCP Volatile Organics - Westborough Lab Associated sample(s): 01-02 Batch: WG436706-1 WG436706-2								
Methylene chloride	101		83		70-130	20		20
1,1-Dichloroethane	92		79		70-130	15		20
Chloroform	90		93		70-130	3		20
Carbon tetrachloride	94		96		70-130	2		20
1,2-Dichloropropane	93		94		70-130	1		20
Dibromochloromethane	94		90		70-130	4		20
1,1,2-Trichloroethane	94		89		70-130	5		20
Tetrachloroethene	89		92		70-130	3		20
Chlorobenzene	88		90		70-130	2		20
Trichlorofluoromethane	106		111		70-130	5		20
1,2-Dichloroethane	102		104		70-130	2		20
1,1,1-Trichloroethane	96		99		70-130	3		20
Bromodichloromethane	100		99		70-130	1		20
trans-1,3-Dichloropropene	94		91		70-130	3		20
cis-1,3-Dichloropropene	87		88		70-130	1		20
1,1-Dichloropropene	93		98		70-130	5		20
Bromoform	108		108		70-130	0		20
1,1,2,2-Tetrachloroethane	109		106		70-130	3		20
Benzene	90		97		70-130	7		20
Toluene	87		91		70-130	4		20
Ethylbenzene	91		97		70-130	6		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: RAYTHEON WAYLAND

Project Number: 0114119

Lab Number: L1015652

Report Date: 10/13/10

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
MCP Volatile Organics - Westborough Lab Associated sample(s): 01-02 Batch: WG436706-1 WG436706-2								
Chloromethane	80		83		70-130	4		20
Bromomethane	117		109		70-130	7		20
Vinyl chloride	85		90		70-130	6		20
Chloroethane	92		98		70-130	6		20
1,1-Dichloroethene	113		119		70-130	5		20
trans-1,2-Dichloroethene	90		73		70-130	21	Q	20
Trichloroethene	91		97		70-130	6		20
1,2-Dichlorobenzene	95		96		70-130	1		20
1,3-Dichlorobenzene	93		99		70-130	6		20
1,4-Dichlorobenzene	92		97		70-130	5		20
Methyl tert butyl ether	92		71		70-130	26	Q	20
p/m-Xylene	92		98		70-130	6		20
o-Xylene	91		95		70-130	4		20
cis-1,2-Dichloroethene	96		98		70-130	2		20
Dibromomethane	90		106		70-130	16		20
1,2,3-Trichloropropane	112		108		70-130	4		20
Styrene	90		94		70-130	4		20
Dichlorodifluoromethane	100		106		70-130	6		20
Acetone	117		102		70-130	14		20
Carbon disulfide	91		100		70-130	9		20
2-Butanone	126		115		70-130	9		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: RAYTHEON WAYLAND

Lab Number: L1015652

Project Number: 0114119

Report Date: 10/13/10

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
MCP Volatile Organics - Westborough Lab Associated sample(s): 01-02 Batch: WG436706-1 WG436706-2								
4-Methyl-2-pentanone	109		101		70-130	8		20
2-Hexanone	112		98		70-130	13		20
Bromochloromethane	102		102		70-130	0		20
Tetrahydrofuran	102		94		70-130	8		20
2,2-Dichloropropane	94		99		70-130	5		20
1,2-Dibromoethane	99		94		70-130	5		20
1,3-Dichloropropane	97		95		70-130	2		20
1,1,1,2-Tetrachloroethane	101		100		70-130	1		20
Bromobenzene	96		102		70-130	6		20
n-Butylbenzene	96		100		70-130	4		20
sec-Butylbenzene	94		99		70-130	5		20
tert-Butylbenzene	94		98		70-130	4		20
o-Chlorotoluene	94		99		70-130	5		20
p-Chlorotoluene	104		110		70-130	6		20
1,2-Dibromo-3-chloropropane	114		110		70-130	4		20
Hexachlorobutadiene	90		96		70-130	6		20
Isopropylbenzene	92		96		70-130	4		20
p-Isopropyltoluene	97		101		70-130	4		20
Naphthalene	101		100		70-130	1		20
n-Propylbenzene	94		100		70-130	6		20
1,2,3-Trichlorobenzene	106		109		70-130	3		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: RAYTHEON WAYLAND

Lab Number: L1015652

Project Number: 0114119

Report Date: 10/13/10

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
MCP Volatile Organics - Westborough Lab Associated sample(s): 01-02 Batch: WG436706-1 WG436706-2								
1,2,4-Trichlorobenzene	99		105		70-130	6		20
1,3,5-Trimethylbenzene	96		101		70-130	5		20
1,2,4-Trimethylbenzene	94		101		70-130	7		20
Ethyl ether	123		109		70-130	12		20
Isopropyl Ether	86		77		70-130	11		20
Ethyl-Tert-Butyl-Ether	91		88		70-130	3		20
Tertiary-Amyl Methyl Ether	96		96		70-130	0		20
1,4-Dioxane	110		89		70-130	21	Q	20

Surrogate	LCS		LCSD		Acceptance Criteria
	%Recovery	Qual	%Recovery	Qual	
1,2-Dichloroethane-d4	101		103		70-130
Toluene-d8	97		98		70-130
4-Bromofluorobenzene	94		92		70-130
Dibromofluoromethane	101		102		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: RAYTHEON WAYLAND

Lab Number: L1015652

Project Number: 0114119

Report Date: 10/13/10

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
MCP Volatile Organics - Westborough Lab Associated sample(s): 05-08,10-13 Batch: WG437128-1 WG437128-2								
Methylene chloride	110		106		70-130	4		20
1,1-Dichloroethane	100		99		70-130	1		20
Chloroform	99		98		70-130	1		20
Carbon tetrachloride	106		102		70-130	4		20
1,2-Dichloropropane	98		89		70-130	10		20
Dibromochloromethane	98		90		70-130	9		20
1,1,2-Trichloroethane	94		88		70-130	7		20
Tetrachloroethene	94		93		70-130	1		20
Chlorobenzene	92		91		70-130	1		20
1,2-Dichloroethane	112		107		70-130	5		20
1,1,1-Trichloroethane	104		104		70-130	0		20
Bromodichloromethane	110		104		70-130	6		20
trans-1,3-Dichloropropene	95		91		70-130	4		20
cis-1,3-Dichloropropene	94		91		70-130	3		20
Bromoform	109		104		70-130	5		20
1,1,2,2-Tetrachloroethane	112		103		70-130	8		20
Chloromethane	88		87		70-130	1		20
Vinyl chloride	109		100		70-130	9		20
Chloroethane	100		100		70-130	0		20
1,1-Dichloroethene	120		117		70-130	3		20
trans-1,2-Dichloroethene	98		101		70-130	3		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: RAYTHEON WAYLAND
Project Number: 0114119

Lab Number: L1015652
Report Date: 10/13/10

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
MCP Volatile Organics - Westborough Lab Associated sample(s): 05-08,10-13 Batch: WG437128-1 WG437128-2								
Trichloroethene	98		99		70-130	1		20
1,2-Dichlorobenzene	96		97		70-130	1		20
1,3-Dichlorobenzene	96		101		70-130	5		20
1,4-Dichlorobenzene	96		97		70-130	1		20
cis-1,2-Dichloroethene	104		105		70-130	1		20
Dichlorodifluoromethane	94		94		70-130	0		20
1,2-Dibromoethane	100		90		70-130	11		20
1,3-Dichloropropane	100		91		70-130	9		20
1,1,1,2-Tetrachloroethane	106		101		70-130	5		20
o-Chlorotoluene	96		100		70-130	4		20
p-Chlorotoluene	106		110		70-130	4		20
Hexachlorobutadiene	99		106		70-130	7		20
1,2,4-Trichlorobenzene	105		105		70-130	0		20

Surrogate	LCS		LCSD		Acceptance Criteria
	%Recovery	Qual	%Recovery	Qual	
1,2-Dichloroethane-d4	108		101		70-130
Toluene-d8	96		97		70-130
4-Bromofluorobenzene	87		94		70-130
Dibromofluoromethane	106		105		70-130

Matrix Spike Analysis

Batch Quality Control

Project Name: RAYTHEON WAYLAND

Lab Number: L1015652

Project Number: 0114119

Report Date: 10/13/10

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics - Westborough Lab Associated sample(s): 05-08,10-13 QC Batch ID: WG437128-4 WG437128-5 QC Sample: L1015652-10 Client ID: MW-105M-20101006-01												
Methylene chloride	ND	10	12	121		12	123		70-130	0		20
1,1-Dichloroethane	ND	10	11	114		12	117		70-130	9		20
Chloroform	ND	10	11	114		12	116		70-130	9		20
Carbon tetrachloride	ND	10	12	121		12	126		70-130	0		20
1,2-Dichloropropane	ND	10	11	109		11	113		70-130	0		20
Dibromochloromethane	ND	10	11	108		11	110		70-130	0		20
1,1,2-Trichloroethane	ND	10	10	103		10	104		70-130	0		20
Tetrachloroethene	ND	10	11	111		11	114		70-130	0		20
Chlorobenzene	ND	10	10	104		11	108		70-130	10		20
1,2-Dichloroethane	ND	10	12	125		13	128		70-130	8		20
1,1,1-Trichloroethane	ND	10	12	119		12	125		70-130	0		20
Bromodichloromethane	ND	10	12	119		12	125		70-130	0		20
trans-1,3-Dichloropropene	ND	10	9.9	99		11	107		70-130	11		20
cis-1,3-Dichloropropene	ND	10	9.7	97		10	101		70-130	3		20
Bromoform	ND	10	11	112		12	120		70-130	9		20
1,1,2,2-Tetrachloroethane	ND	10	12	122		12	123		70-130	0		20
Chloromethane	ND	10	10	103		10	104		70-130	0		20
Vinyl chloride	ND	10	12	118		12	122		70-130	0		20
Chloroethane	ND	10	11	115		12	123		70-130	9		20
1,1-Dichloroethene	ND	10	14	141	Q	14	143	Q	70-130	0		20
trans-1,2-Dichloroethene	ND	10	11	112		12	115		70-130	9		20

Matrix Spike Analysis

Batch Quality Control

Project Name: RAYTHEON WAYLAND

Lab Number: L1015652

Project Number: 0114119

Report Date: 10/13/10

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
MCP Volatile Organics - Westborough Lab Associated sample(s): 05-08,10-13 QC Batch ID: WG437128-4 WG437128-5 QC Sample: L1015652-10 Client ID: MW-105M-20101006-01												
Trichloroethene	1.1	10	12	114		13	119		70-130	8		20
1,2-Dichlorobenzene	1.4	10	12	110		13	115		70-130	8		20
1,3-Dichlorobenzene	ND	10	11	111		11	114		70-130	0		20
1,4-Dichlorobenzene	ND	10	11	114		12	119		70-130	9		20
cis-1,2-Dichloroethene	ND	10	12	122		12	125		70-130	0		20
Dichlorodifluoromethane	ND	10	11	106		11	107		70-130	0		20
1,2-Dibromoethane	ND	10	11	107		11	109		70-130	0		20
1,3-Dichloropropane	ND	10	11	108		11	112		70-130	0		20
1,1,1,2-Tetrachloroethane	ND	10	12	119		12	118		70-130	0		20
o-Chlorotoluene	ND	10	9.5	95		9.9	99		70-130	4		20
p-Chlorotoluene	ND	10	11	111		12	115		70-130	9		20
Hexachlorobutadiene	ND	10	11	107		12	116		70-130	9		20
1,2,4-Trichlorobenzene	ND	10	11	114		12	120		70-130	9		20

Surrogate	MS		MSD		Acceptance Criteria
	% Recovery	Qualifier	% Recovery	Qualifier	
1,2-Dichloroethane-d4	108		112		70-130
4-Bromofluorobenzene	89		91		70-130
Dibromofluoromethane	107		106		70-130
Toluene-d8	94		97		70-130

Project Name: RAYTHEON WAYLAND

Lab Number: L1015652

Project Number: 0114119

Report Date: 10/13/10

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: NA

Cooler Information Custody Seal

Cooler

A Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1015652-01A	Vial HCl preserved	A	N/A	3.3	Y	Absent	MCP-8260-10(14)
L1015652-01B	Vial HCl preserved	A	N/A	3.3	Y	Absent	MCP-8260-10(14)
L1015652-02A	Vial HCl preserved	A	N/A	3.3	Y	Absent	MCP-8260-10(14)
L1015652-02B	Vial HCl preserved	A	N/A	3.3	Y	Absent	MCP-8260-10(14)
L1015652-03A	Vial Ascorbic Acid preserved	A	N/A	3.3	Y	Absent	MCP-8260-10(14)
L1015652-03B	Vial Ascorbic Acid preserved	A	N/A	3.3	Y	Absent	MCP-8260-10(14)
L1015652-04A	Vial Ascorbic Acid preserved	A	N/A	3.3	Y	Absent	MCP-8260-10(14)
L1015652-04B	Vial Ascorbic Acid preserved	A	N/A	3.3	Y	Absent	MCP-8260-10(14)
L1015652-05A	Vial HCl preserved	A	N/A	3.3	Y	Absent	MCP-8260-10(14)
L1015652-05B	Vial HCl preserved	A	N/A	3.3	Y	Absent	MCP-8260-10(14)
L1015652-06A	Vial HCl preserved	A	N/A	3.3	Y	Absent	MCP-8260-10(14)
L1015652-06B	Vial HCl preserved	A	N/A	3.3	Y	Absent	MCP-8260-10(14)
L1015652-07A	Vial HCl preserved	A	N/A	3.3	Y	Absent	MCP-8260-10(14)
L1015652-07B	Vial HCl preserved	A	N/A	3.3	Y	Absent	MCP-8260-10(14)
L1015652-08A	Vial HCl preserved	A	N/A	3.3	Y	Absent	MCP-8260-10(14)
L1015652-08B	Vial HCl preserved	A	N/A	3.3	Y	Absent	MCP-8260-10(14)
L1015652-09A	Vial HCl preserved	A	N/A	3.3	Y	Absent	MCP-8260-10(14)
L1015652-10A	Vial HCl preserved	A	N/A	3.3	Y	Absent	MCP-8260-10(14)
L1015652-10B	Vial HCl preserved	A	N/A	3.3	Y	Absent	MCP-8260-10(14)
L1015652-10C	Vial HCl preserved	A	N/A	3.3	Y	Absent	MCP-8260-10(14)
L1015652-10D	Vial HCl preserved	A	N/A	3.3	Y	Absent	MCP-8260-10(14)
L1015652-10E	Vial HCl preserved	A	N/A	3.3	Y	Absent	MCP-8260-10(14)
L1015652-10F	Vial HCl preserved	A	N/A	3.3	Y	Absent	MCP-8260-10(14)
L1015652-11A	Vial HCl preserved	A	N/A	3.3	Y	Absent	MCP-8260-10(14)
L1015652-11B	Vial HCl preserved	A	N/A	3.3	Y	Absent	MCP-8260-10(14)
L1015652-12A	Vial HCl preserved	A	N/A	3.3	Y	Absent	MCP-8260-10(14)
L1015652-12B	Vial HCl preserved	A	N/A	3.3	Y	Absent	MCP-8260-10(14)

*Values in parentheses indicate holding time in days

Project Name: RAYTHEON WAYLAND**Project Number:** 0114119**Lab Number:** L1015652**Report Date:** 10/13/10**Container Information**

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1015652-13A	Vial HCl preserved	A	N/A	3.3	Y	Absent	MCP-8260-10(14)
L1015652-13B	Vial HCl preserved	A	N/A	3.3	Y	Absent	MCP-8260-10(14)

*Values in parentheses indicate holding time in days

Project Name: RAYTHEON WAYLAND
Project Number: 0114119

Lab Number: L1015652
Report Date: 10/13/10

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.
MDL	-Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	-Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	-Matrix Spike Sample Duplicate: Refer to MS.
NA	-Not Applicable.
NC	-Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NI	-Not Ignitable.
RL	-Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	-Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

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

A	-Spectra identified as "Aldol Condensation Product".
B	-The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than five times (5x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank.
D	-Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
E	-Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
H	-The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
I	-The RPD between the results for the two columns exceeds the method-specified criteria; however, the lower value has been reported due to obvious interference.
P	-The RPD between the results for the two columns exceeds the method-specified criteria.
Q	-The quality control sample exceeds the associated acceptance criteria. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
R	-Analytical results are from sample re-analysis.

Report Format: Data Usability Report



Project Name: RAYTHEON WAYLAND

Lab Number: L1015652

Project Number: 0114119

Report Date: 10/13/10

Data Qualifiers

RE - Analytical results are from sample re-extraction.

J - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

ND - Not detected at the reporting limit (RL) for the sample.

Project Name: RAYTHEON WAYLAND
Project Number: 0114119

Lab Number: L1015652
Report Date: 10/13/10

REFERENCES

- 97 EPA Test Methods (SW-846) with QC Requirements & Performance Standards for the Analysis of EPA SW-846 Methods under the Massachusetts Contingency Plan, WSC-CAM-IIA, IIB, IIIA, IIIB, IIIC, IIID, VA, VB, VC, VIA, VIB, VIIIA and VIIIB, July 2010.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



Certificate/Approval Program Summary

Last revised July 19, 2010 - Westboro Facility

The following list includes only those analytes/methods for which certification/approval is currently held.
For a complete listing of analytes for the referenced methods, please contact your Alpha Customer Service Representative.

Connecticut Department of Public Health Certificate/Lab ID: PH-0574. **NELAP Accredited Solid Waste/Soil.**

Drinking Water (Inorganic Parameters: Color, pH, Turbidity, Conductivity, Alkalinity, Chloride, Free Residual Chlorine, Fluoride, Calcium Hardness, Sulfate, Nitrate, Nitrite, Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Vanadium, Zinc, Total Dissolved Solids, Total Organic Carbon, Total Cyanide, Perchlorate. Organic Parameters: Volatile Organics 524.2, Total Trihalomethanes 524.2, 1,2-Dibromo-3-chloropropane (DBCP), Ethylene Dibromide (EDB), 1,4-Dioxane (Mod 8270). Microbiology Parameters: Total Coliform-MF mEndo (SM9222B), Total Coliform – Colilert (SM9223 P/A), E. Coli. – Colilert (SM9223 P/A), HPC – Pour Plate (SM9215B), Fecal Coliform – MF m-FC (SM9222D))

Wastewater/Non-Potable Water (Inorganic Parameters: Color, pH, Conductivity, Acidity, Alkalinity, Chloride, Total Residual Chlorine, Fluoride, Total Hardness, Silica, Sulfate, Sulfide, Ammonia, Kjeldahl Nitrogen, Nitrate, Nitrite, O-Phosphate, Total Phosphorus, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Tin, Titanium, Vanadium, Zinc, Total Residue (Solids), Total Dissolved Solids, Total Suspended Solids (non-filterable), BOD, CBOD, COD, TOC, Total Cyanide, Phenolics, Foaming Agents (MBAS), Bromide, Oil and Grease. Organic Parameters: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, 2,4-D, 2,4,5-T, 2,4,5-TP(Silvex), Acid Extractables (Phenols), Benzidines, Phthalate Esters, Nitrosamines, Nitroaromatics & Isophorone, Polynuclear Aromatic Hydrocarbons, Haloethers, Chlorinated Hydrocarbons, Volatile Organics, TPH (HEM/SGT), Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH. Microbiology Parameters: Total Coliform – MF mEndo (SM9222B), Total Coliform – MTF (SM9221B), HPC – Pour Plate (SM9215B), Fecal Coliform – MF m-FC (SM9222D), Fecal Coliform – A-1 Broth (SM9221E).)

Solid Waste/Soil (Inorganic Parameters: pH, Sulfide, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Tin, Vanadium, Zinc, Total Cyanide, Ignitability, Phenolics, Corrosivity, TCLP Leach (1311), SPLP Leach (1312 metals only), Reactivity. Organic Parameters: PCBs, PCBs in Oil, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH, Dicamba, 2,4-D, 2,4,5-T, 2,4,5-TP(Silvex), Volatile Organics, Acid Extractables (Phenols), 3,3'-Dichlorobenzidine, Phthalates, Nitrosamines, Nitroaromatics & Cyclic Ketones, PAHs, Haloethers, Chlorinated Hydrocarbons.)

Maine Department of Human Services Certificate/Lab ID: 2009024.

Drinking Water (Inorganic Parameters: SM9215B, 9222D, 9223B, EPA 180.1, 300.0, 353.2, SM2130B, 2320B, 4500CI-D, 4500CN-C, 4500CN-E, 4500F-C, 4500H+B, 4500NO3-F, EPA 200.7, EPA 200.8, 245.1, EPA 300.0. Organic Parameters: 504.1, 524.2.)

Wastewater/Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664A, 350.1, 351.1, 353.2, 410.4, 420.1, Lachat 10-107-06-1-B, SM2320B, 2340B, 2510B, 2540C, 2540D, 426C, 4500CI-D, 4500CI-E, 4500CN-C, 4500CN-E, 4500F-B, 4500F-C, 4500H+B, 4500Norg-B, 4500Norg-C, 4500NH3-B, 4500NH3-G, 4500NH3-H, 4500NO3-F, 4500P-B.5, 4500P-E, 5210B, 5220D, 5310C, EPA 200.7, 200.8, 245.1. Organic Parameters: 608, 624, ME DRO, ME GRO, MA EPH, MA VPH.)

Solid Waste/Soil (Organic Parameters: ME DRO, ME GRO, MA EPH, MA VPH.)

Massachusetts Department of Environmental Protection Certificate/Lab ID: M-MA086.

Drinking Water

Inorganic Parameters: (EPA 200.8 for: Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Tl)

(EPA 200.7 for: Ba,Be,Ca,Cd,Cr,Cu,Na,Ni) 245.1, (300.0 for: Nitrate-N, Fluoride, Sulfate)

353.2 for: Nitrate-N, Nitrite-N; SM4500NO3-F, 4500F-C, 4500CN-CE, EPA 180.1, SM2130B, SM4500CI-D, 2320B, SM2540C, SM4500H-B.

Organic Parameters: (EPA 524.2 for: Trihalomethanes, Volatile Organics)

(504.1 for: 1,2-Dibromoethane, 1,2-Dibromo-3-Chloropropane), 314.0, 332.

Microbiology Parameters: SM9215B; ENZ. SUB. SM9223; MF-SM9222D

Non-Potable Water

Inorganic Parameters: (EPA 200.8 for: Al,Sb,As,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,Zn)

(EPA 200.7 for: Al,Sb,As,Be,Cd,Cr,Co,Cu,Fe,Pb,Mn,Mo,Ni,Se,Ag,Sr,Ti,Tl, V,Zn,Ca,Mg,Na,K)

245.1, SM4500H,B, EPA 120.1, SM2510B, 2540C, 2540B, 2340B, 2320B, 4500CL-E, 4500F-BC, 426C, SM4500NH3-BH, (EPA 350.1 for: Ammonia-N), LACHAT 10-107-06-1-B for Ammonia-N, SM4500NO3-F, 353.2 for Nitrate-N, SM4500NH3-B,C-Titr, SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, 4500P-B,E, 5220D, EPA 410.4, SM 5210B, 5310C, 4500CL-D, EPA 1664, SM14 510AC, EPA 420, SM4500-CN-CE, SM2540D.

Organic Parameters: (EPA 624 for Volatile Halocarbons, Volatile Aromatics)

(608 for: Chlordane, Aldrin, Dieldrin, DDD, DDE, DDT, Heptachlor, Heptachlor Epoxide, PCBs-Water), EPA 625 for SVOC Acid Extractables and SVOC Base/Neutral Extractables, 600/4-81-045-PCB-Oil

New Hampshire Department of Environmental Services Certificate/Lab ID: 200307. *NELAP Accredited.*

Drinking Water (Inorganic Parameters: SM6215B, 9222B, 9223B Colilert, EPA 200.7, 200.8, 245.2, 120.1, 300.0, 314.0, SM4500CN-E, 4500H+B, 4500NO3-F, 2320B, 2510B, 2540C, 4500F-C, 5310C, 2120B, EPA 331.0. *Organic Parameters:* 504.1, 524.2, SM6251B.)

Non-Potable Water (Inorganic Parameters: SM9222D, 9221B, 9222B, 9221E-EC, EPA 200.7, 200.8, 245.1, 245.2, SW-846 6010B, 6020, 7196A, 7470A, SM3500-CR-D, EPA 120.1, 300.0, 350.1, 351.1, 353.2, 420.1, 1664A, SW-846 9010, 9030, 9040B, SM426C, SM2310B, 2540B, 2540D, 4500H+B, 4500NH3-H, 4500NH3-E, 4500NO2-B, 4500P-E, 4500-S2-D, 5210B, 2320B, 2540C, 4500F-C, 5310C, 5540C, LACHAT 10-117-07-1-B, LACHAT 10-107-06-1-B, LACHAT 10-107-04-1-C, LACHAT 10-107-04-1-J, LACHAT 10-117-07-1-A, SM4500CL-E, LACHAT 10-204-00-1-A, LACHAT 10-107-06-2-D. *Organic Parameters:* SW-846 3005A, 3015A, 3510C, 5030B, 8021B, 8260B, 8270C, 8330, EPA 624, 625, 608, SW-846 8082, 8081A.)

Solid & Chemical Materials (Inorganic Parameters: SW-846 6010B, 7196A, 7471A, 7.3.3.2, 7.3.4.2, 1010, 1030, 9010, 9012A, 9014, 9030B, 9040, 9045C, 9050C, 1311, 3005A, 3050B, 3051A. *Organic Parameters:* SW-846 3540C, 3545, 3580A, 5030B, 5035, 8021B, 8260B, 8270C, 8330, 8151A, 8082, 8081A.)

New Jersey Department of Environmental Protection Certificate/Lab ID: MA935. *NELAP Accredited.*

Drinking Water (Inorganic Parameters: SM9222B, 9221E, 9223B, 9215B, 4500NO3-F, 4500F-C, EPA 300.0, 200.7, 2540C, 2320B, 314.0, SM2120B, 2510B, 5310C, SM4500H-B, EPA 200.8, 245.2. *Organic Parameters:* 504.1, SM6251B, 524.2.)

Non-Potable Water (Inorganic Parameters: SM5210B, EPA 410.4, SM5220D, 4500CI-D, EPA 300.0, SM2120B, SM4500F-BC, EPA 200.7, 351.1, LACHAT 10-107-06-2-D, EPA 353.2, SM4500NO3-F, 4500NO2-B, EPA 1664A, SM5310B, C or D, 4500-PE, EPA 420.1, SM4500P-B5+E, 2540B, 2540C, 2540D, EPA 120.1, SM2510B, SM15 426C, SM9221CE, 9222D, 9221B, 9222B, 9215B, 2310B, 2320B, 4500NH3-H, 4500-S D, EPA 350.1, SM5210B, SW-846 3015, 6020, 7470A, 5540C, 4500H-B, EPA 200.8, SM3500Cr-D, EPA 245.1, 245.2, SW-846 9040B, 3005A, EPA 6010B, 7196A, SW-846 9010B, 9030B. *Organic Parameters:* SW-846 8260B, 8270C, 3510C, EPA 608, 624, 625, SW-846 5030B, 8021B, 8081A, 8082, 8151A, 8330, NJ OQA-QAM-025 Rev.7.)

Solid & Chemical Materials (Inorganic Parameters: SW-846 9040B, 3005A, 6010B, 7196A, 5030B, 9010B, 9030B, 1030, 1311, 3050B, 3051, 7471A, 9014, 9012A, 9045C, 9050A, 9065. *Organic Parameters:* SW-846 8021B, 8081A, 8082, 8151A, 8330, 8260B, 8270C, 1311, 1312, 3540C, 3545, 3550B, 3580A, 5035L, 5035H, NJ OQA-QAM-025 Rev.7.)

New York Department of Health Certificate/Lab ID: 11148. *NELAP Accredited.*

Drinking Water (Inorganic Parameters: SM9223B, 9222B, 9215B, EPA 200.8, 200.7, 245.2, SM5310C, EPA 314.0, 332.0, SM2320B, EPA 300.0, SM2120B, 4500CN-E, 4500F-C, 4500H-B, 4500NO3-F, 2540C, EPA 120.1, SM 2510B. *Organic Parameters:* EPA 524.2, 504.1.)

Non-Potable Water (Inorganic Parameters: SM9221E, 9222D, 9221B, 9222B, 9215B, 5210B, EPA 410.4, SM5220D, 2310B-4a, 2320B, EPA 200.7, 300.0, LACHAT 10-117-07-1A or B, SM4500CI-E, 4500F-C, SM15 426C, EPA 350.1, LACHAT 10-107-06-1-B, SM4500NH3-H, EPA 351.1, LACHAT 10-107-06-2, EPA 353.2, LACHAT 10-107-041-C, SM4500-NO3-F, 4500-NO2-B, 4500P-E, 2540C, 2540B, 2540D, EPA 200.8, EPA 6010B, 6020, EPA 7196A, SM3500Cr-D, EPA 245.1, 245.2, 7470A, SM2120B, SM4500-CN-E LACHAT 10-204-00-1-A, EPA 9040B, SM4500-HB, EPA 1664A, SM5310C, EPA 420.1, SM14 510C, EPA 120.1, SM2510B, SM4500S-D, SM5540C, EPA 3005A, 3015. *Organic Parameters:* EPA 624, 8260B, 8270C, 625, 608, 8081A, 8151A, 8330, 8082, EPA 3510C, 5030B, 9010B, 9030B.)

Solid & Hazardous Waste (Inorganic Parameters: 1010, 1030, SW-846 Ch 7 Sec 7.3, EPA 6010B, 7196A, 7471A, 9012A, 9014, 9040B, 9045C, 9065, 9050, EPA 1311, 1312, 3005A, 3050B, 9010B, 9030B. *Organic Parameters:* EPA 8260B, 8270C, 8081A, 8151A, 8330, 8082, 3540C, 3545, 3546, 3580, 5030B, 5035.)

North Carolina Department of the Environment and Natural Resources Certificate/Lab ID : 666. *Organic Parameters:* MA-EPH, MA-VPH.

Pennsylvania Department of Environmental Protection Certificate/Lab ID : 68-03671. *NELAP Accredited.*

Non-Potable Water (Organic Parameters: EPA 3510C, 5030B, 625, 624. 608, 8081A, 8082, 8151A, 8260B, 8270C, 8330)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1010, 1030, 1311, 3050B, 3051, 6010B, EPA 7.3.3.2, EPA 7.3.4.2, 7196A, 7471A, 9010B, 9012A, 9014, 9040B, 9045C, 9050, 9065. *Organic Parameters:* 3540C, 3545, 3580A, 5035, 8021B, 8081A, 8082, 8151A, 8260B, 8270C, 8330)

Rhode Island Department of Health Certificate/Lab ID: LAO00065. *NELAP Accredited via NY-DOH.*

Refer to MA-DEP Certificate for Potable and Non-Potable Water.

Refer to NY-DOH Certificate for Potable and Non-Potable Water.

Texas Commission on Environmental Quality Certificate/Lab ID: T104704476-09-1. NELAP Accredited.

Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664, 200.7, 200.8, 245.1, 245.2, 300.0, 350.1, 351.1, 353.2, 376.2, 410.4, 420.1, 6010, 6020, 7196, 7470, 9040, SM 2120B, 2310B, 2320B, 2510B, 2540B, 2540C, 2540D, 426C, 4500CL-E, 4500CN-E, 4500F-C, 4500H+B, 4500NH3-H, 4500NO2B, 4500P-E, 4500 S²⁻ D, 510C, 5210B, 5220D, 5310C, 5540C. Organic Parameters: EPA 608, 624, 625, 8081, 8082, 8151, 8260, 8270, 8330.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1311, 1312, 9012, 9014, 9040, 9045, 9050, 9065.)

Department of Defense Certificate/Lab ID: L2217.

Drinking Water (Inorganic Parameters: SM 4500H-B. Organic Parameters: EPA 524.2, 504.1.)

Non-Potable Water (Inorganic Parameters: EPA 200.7, 200.8, 6010B, 6020, 245.1, 245.2, 7470A, 9040B, 300.0, 9251, 9038, 350.1, 353.2, 351.1, 120.1, 9050A, 410.4, 9060, 1664, 420.1, LACHAT 10-107-06-1-B, SM 4500CN-E, 4500H-B, 4500CL-E, 4500F-BC, 4500SO4-E, 426C, 4500NH3-B, 4500NH3-H, 4500NO3-F, 4500NO2-B, 4500Norg-C, 4500PE, 2510B, 5540C, 5220D, 5310C, 2540B, 2540C, 2540D, 510C, 4500S2-AD, 3005A, 3015, 9010B, 9030B. Organic Parameters: EPA 8260B, 8270C, 8330, 625, 8082, 8151A, 8081A, 3510C, 5030B, MassDEP EPH, MassDEP VPH.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 200.7, 6010B, 7471A, 9040B, 9045C, 9065, 420.1, 9012A, 6860, 1311, 1312, 3050B, 9030B, 3051, 9010B, 3540C, SM 510ABC, 4500CN-CE, 2540G, SW-846 7.3, Organic Parameters: EPA 8260B, 8270C, 8330, 8082, 8081A, 8151A, 3545, 3546, 3580, 5035, MassDEP EPH, MassDEP VPH.)

Analytes Not Accredited by NELAP

Certification is not available by NELAP for the following analytes: **EPA 8260B:** Freon-113, 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene. **EPA 8330A:** PETN, Picric Acid, Nitroglycerine, 2,6-DANT, 2,4-DANT. **EPA 8270C:** Methyl naphthalene, Dimethyl naphthalene, Total Methylnaphthalenes, Total Dimethylnaphthalenes, 1,4-Diphenylhydrazine (Azobenzene). **EPA 625:** 4-Chloroaniline. **EPA 350.1** for Ammonia in a Soil matrix.



CHAIN OF CUSTODY

PAGE 1 OF 2

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

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

Client Information

Client: **PRM**
 Address: **399 Baylston St.**
LYM Floor Boston, MA
 Phone: **(617) 646-2800**
 Fax: **(617) 267-6447**
 Email: **Jason.Flattery@prmi.com**

Project Name: **Raytheon Wayland**
 Project Location: **Wayland, MA**
 Project #: **0114119**
 Project Manager: **Jason Flattery**
 ALPHA Quote #:
 Turn-Around Time

Project Information
 Project Name: **Raytheon Wayland**
 Project Location: **Wayland, MA**
 Project #: **0114119**
 Project Manager: **Jason Flattery**
 ALPHA Quote #:
 Turn-Around Time

Other Project Specific Requirements/Comments/Detection Limits:
 If MS is required, indicate in Sample Specific Comments which samples and what tests MS to be performed.
 (Note: All CAM methods for Inorganic analyses require MS every 20 soil samples)
samples preserved w/ ascorbic acid have a shortened hold time.

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials	Container Type	Preservative	Date/Time	Received By:	Date/Time
		Date	Time							
15602	MW-206D-20101005-01	10/5/10	1550	GW	HEA	V	V	10/6/10 1550	Sam Turner	10/6/10 1550
2	MW-205D-20101005-01	10/5/10	1600		SMC	V	V			
3	MW-404-20101005-01	10/6/10	6925		EW	I	B			
4	MW-118-20101005-01		6955		EW	I	B			
5	MW-47M-20101005-01		6945		SMC	I	B			
6	MW-203D-20101006-01		1050		HEA	I	B			
7	MW-201M-20101006-01		1140		SMC	I	B			
8	MW-435-20101006-01		0950		EC	I	B			
9	AWTB-003-20101006-01	10/1/10	1450		DS	I	B			

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT MAMCP or CT RCP?

FORM NO: 01-01 (rev. 18-Jan-2010)

Date Rec'd in Lab: **10/6/10**
 Report Information - Data Deliverables
 Report Information - Data Deliverables
 Regulatory Requirements/Report Limits
 State/Fed Program **MA MCP** Criteria **GW-2**
 MA MCP PRESUMPTIVE CERTAINTY --- CT REASONABLE CONFIDENCE PROTO
 ALPHA Job #: **1015652**
 Billing Information
 Same as Client info PO #:

ANALYSIS
 80216 by 8260B
 80216 by 8260B
 Yes No
 Yes No
 No No
 Are MCP Analytical Methods Required?
 Is Matrix Spike (MS) Required on this SDG? (If yes see note in Comments)
 Are CT RCP (Reasonable Confidence Protocols) Required?

SAMPLE HANDLING
 Filtration Done Not needed
 Lab to do Preservation Lab to do
 (Please specify below)
 Sample Specific Comments

Relinquished By: **Sam Turner** Date/Time: **10/6/10 1550**
 Received By: **Sam Turner** Date/Time: **10/6/10 1550**
 Container Type: **V** Preservative: **I B**
 Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.



CHAIN OF CUSTODY

PAGE 2 OF 2

WESTBORO, MA
TEL: 508-998-9220
FAX: 508-998-9193

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

Client Information

Client: **ERM**
Address: **399 Baylston St.**
4th Floor Boston, MA
Phone: **(617) 646-7800**
Fax: **(617) 267-4447**

Email: **jason.flattery@erm.com**
 These samples have been previously analyzed by Alpha

Other Project Specific Requirements/Comments/Detection Limits:
If MS is required, indicate in Sample Specific Comments which samples and what tests MS to be performed.
(Note: All CAM methods for inorganic analyses require MS every 20 soil samples)

Project Information

Project Name: **Raytheon Wayland**
Project Location: **Wayland, MA**
Project #: **0114119**
Project Manager: **Jason Flattery**
ALPHA Quote #:
Turn-Around Time

Standard RUSH (only confirmed if pre-approved)
Date Due: **10/31/10** Time:

Date Rec'd in Lab:

10/6/10

ALPHA Job #:

1015652

Report Information - Data Deliverables

FAX EMAIL
 ADEX Add'l Deliverables

Billing Information

Same as Client info
PO #:

Regulatory Requirements/Report Limits

State/Fed Program: **MA MCP** Criteria: **GW-1**
MA MCP PRESUMPTIVE CERTAINTY --- CT REASONABLE CONFIDENCE PROTO

Yes No Are MCP Analytical Methods Required?
 Yes No Is Matrix Spike (MS) Required on this SDG? (If yes see note in Comments)
 No Are CT RCP (Reasonable Confidence Protocols) Required?
Supplied by ERM

SAMPLE HANDLING

Filtration Done Not needed
 Lab to do
 Lab to do
(Please specify below)

Sample Specific Comments

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials	Container Type	Preservative	Date/Time	Received By:	Date/Time	Sample Specific Comments
		Date	Time								
10652	10 MW-10SM-20101000-01	10/6/10	1100	GW	CC	V	B	10/6/10 1530	10/6/10 1530	10/6/10 1535	2
	10 MW-10SM-20101000-01 MS		1100		CC						2
	10 MW-10SM-20101000-01 MSD		1100		CC						2
	11 MW-33S-20101000-01		1300		SMC						2
	12 MW-33M-20101000-01		1465		SMC						2
	13 MW-202M-20101000-01		1210		HEA						2
	14 MW-45B-20101000-01				HEA						2

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT MAMCP or CT RCP?

Relinquished By:

[Signature]

Date/Time

10/6/10 1530

Received By:

[Signature]

Date/Time

10/6/10 1535

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.



ANALYTICAL REPORT

Lab Number:	L1015737
Client:	ERM Consulting & Engineering, Inc. 399 Boylston Street 6th Floor Boston, MA 02116
ATTN:	Jason Flattery
Phone:	(617) 646-7816
Project Name:	RAYTHEON WAYLAND
Project Number:	0114119
Report Date:	10/18/10

Certifications & Approvals: MA (M-MA086), NY NELAC (11148), CT (PH-0574), NH (2003), NJ (MA935), RI (LAO00065), ME (MA0086), 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: 0114119

Lab Number: L1015737
Report Date: 10/18/10

Alpha Sample ID	Client ID	Sample Location	Collection Date/Time
L1015737-01	MW-45B-20101007-01	WAYLAND, MA	10/07/10 08:30
L1015737-02	MW-113-20101007-01	WAYLAND, MA	10/07/10 10:00
L1015737-03	MW-403-20101007-01	WAYLAND, MA	10/07/10 11:55
L1015737-04	TB-004-20101007-01	WAYLAND, MA	10/07/10 18:18
L1015737-05	DUP-005-20101007-01	WAYLAND, MA	10/07/10 14:14
L1015737-06	MW-117-20101007-01	WAYLAND, MA	10/07/10 13:30

Project Name: RAYTHEON WAYLAND

Lab Number: L1015737

Project Number: 0114119

Report Date: 10/18/10

MADEP MCP Response Action Analytical Report Certification

This form provides certifications for all samples performed by MCP methods. Please refer to the Sample Results and Container Information sections of this report for specification of MCP methods used for each analysis. The following questions pertain only to MCP Analytical Methods.

An affirmative response to questions A through F is required for "Presumptive Certainty" status		
A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	YES
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	YES
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	YES
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data?"	YES
E a.	VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	N/A
E b.	APH and TO-15 Methods only: Was the complete analyte list reported for each method?	N/A
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	YES
A response to questions G, H and I is required for "Presumptive Certainty" status		
G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	YES
H	Were all QC performance standards specified in the CAM protocol(s) achieved?	NO
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	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
Project Number: 0114119

Lab Number: L1015737
Report Date: 10/18/10

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

For additional information, please contact Client Services at 800-624-9220.

Report Submission

This report replaces the report issued October 14, 2010. The Client ID has been changed on L1015737-01.

MCP Related Narratives

Volatile Organics

In reference to question H:

The initial calibrations, associated with L1015737-01 through -06, utilized a quadratic fit for Chloromethane, Bromomethane and Chloroethane.

The continuing calibration standard, associated with L1015737-01 through -06, is outside the acceptance criteria for several compounds; however, it is within overall method allowances. A copy of the continuing calibration standard is included as an addendum to this report.

Project Name: RAYTHEON WAYLAND
Project Number: 0114119

Lab Number: L1015737
Report Date: 10/18/10

Case Narrative (continued)

In reference to question I:

All samples were analyzed for a subset of MCP elements per the Chain of Custody.

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:  Elizabeth Simmons

Title: Technical Director/Representative

Date: 10/18/10

ORGANICS

VOLATILES

Project Name: RAYTHEON WAYLAND
Project Number: 0114119

Lab Number: L1015737
Report Date: 10/18/10

SAMPLE RESULTS

Lab ID: L1015737-01
Client ID: MW-45B-20101007-01
Sample Location: WAYLAND, MA
Matrix: Water
Analytical Method: 97,8260B
Analytical Date: 10/11/10 11:37
Analyst: MM

Date Collected: 10/07/10 08:30
Date Received: 10/07/10
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND		ug/l	2.0	--	1
1,1-Dichloroethane	ND		ug/l	1.0	--	1
Chloroform	ND		ug/l	1.0	--	1
Carbon tetrachloride	ND		ug/l	1.0	--	1
1,2-Dichloropropane	ND		ug/l	1.0	--	1
Dibromochloromethane	ND		ug/l	1.0	--	1
1,1,2-Trichloroethane	ND		ug/l	1.0	--	1
Tetrachloroethene	ND		ug/l	1.0	--	1
Chlorobenzene	ND		ug/l	1.0	--	1
1,2-Dichloroethane	ND		ug/l	1.0	--	1
1,1,1-Trichloroethane	ND		ug/l	1.0	--	1
Bromodichloromethane	ND		ug/l	1.0	--	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	1.0	--	1
Chloromethane	ND		ug/l	2.0	--	1
Vinyl chloride	ND		ug/l	1.0	--	1
Chloroethane	ND		ug/l	2.0	--	1
1,1-Dichloroethene	ND		ug/l	1.0	--	1
trans-1,2-Dichloroethene	1.3		ug/l	1.0	--	1
Trichloroethene	70		ug/l	1.0	--	1
1,2-Dichlorobenzene	ND		ug/l	1.0	--	1
1,3-Dichlorobenzene	ND		ug/l	1.0	--	1
1,4-Dichlorobenzene	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	11		ug/l	1.0	--	1
Dichlorodifluoromethane	ND		ug/l	2.0	--	1
1,2-Dibromoethane	ND		ug/l	2.0	--	1
1,3-Dichloropropane	ND		ug/l	2.0	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--	1

Project Name: RAYTHEON WAYLAND**Lab Number:** L1015737**Project Number:** 0114119**Report Date:** 10/18/10**SAMPLE RESULTS**

Lab ID: L1015737-01
 Client ID: MW-45B-20101007-01
 Sample Location: WAYLAND, MA

Date Collected: 10/07/10 08:30
 Date Received: 10/07/10
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
o-Chlorotoluene	ND		ug/l	2.0	--	1
p-Chlorotoluene	ND		ug/l	2.0	--	1
Hexachlorobutadiene	ND		ug/l	0.60	--	1
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	108		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	117		70-130
Dibromofluoromethane	114		70-130

Project Name: RAYTHEON WAYLAND
Project Number: 0114119

Lab Number: L1015737
Report Date: 10/18/10

SAMPLE RESULTS

Lab ID: L1015737-02
Client ID: MW-113-20101007-01
Sample Location: WAYLAND, MA
Matrix: Water
Analytical Method: 97,8260B
Analytical Date: 10/11/10 12:09
Analyst: MM

Date Collected: 10/07/10 10:00
Date Received: 10/07/10
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND		ug/l	2.0	--	1
1,1-Dichloroethane	ND		ug/l	1.0	--	1
Chloroform	ND		ug/l	1.0	--	1
Carbon tetrachloride	ND		ug/l	1.0	--	1
1,2-Dichloropropane	ND		ug/l	1.0	--	1
Dibromochloromethane	ND		ug/l	1.0	--	1
1,1,2-Trichloroethane	ND		ug/l	1.0	--	1
Tetrachloroethene	ND		ug/l	1.0	--	1
Chlorobenzene	ND		ug/l	1.0	--	1
1,2-Dichloroethane	ND		ug/l	1.0	--	1
1,1,1-Trichloroethane	ND		ug/l	1.0	--	1
Bromodichloromethane	ND		ug/l	1.0	--	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	1.0	--	1
Chloromethane	ND		ug/l	2.0	--	1
Vinyl chloride	ND		ug/l	1.0	--	1
Chloroethane	ND		ug/l	2.0	--	1
1,1-Dichloroethene	ND		ug/l	1.0	--	1
trans-1,2-Dichloroethene	ND		ug/l	1.0	--	1
Trichloroethene	17		ug/l	1.0	--	1
1,2-Dichlorobenzene	ND		ug/l	1.0	--	1
1,3-Dichlorobenzene	ND		ug/l	1.0	--	1
1,4-Dichlorobenzene	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	1.9		ug/l	1.0	--	1
Dichlorodifluoromethane	ND		ug/l	2.0	--	1
1,2-Dibromoethane	ND		ug/l	2.0	--	1
1,3-Dichloropropane	ND		ug/l	2.0	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--	1

Project Name: RAYTHEON WAYLAND**Lab Number:** L1015737**Project Number:** 0114119**Report Date:** 10/18/10**SAMPLE RESULTS**

Lab ID: L1015737-02
 Client ID: MW-113-20101007-01
 Sample Location: WAYLAND, MA

Date Collected: 10/07/10 10:00
 Date Received: 10/07/10
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
o-Chlorotoluene	ND		ug/l	2.0	--	1
p-Chlorotoluene	ND		ug/l	2.0	--	1
Hexachlorobutadiene	ND		ug/l	0.60	--	1
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	111		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	111		70-130
Dibromofluoromethane	118		70-130

Project Name: RAYTHEON WAYLAND

Lab Number: L1015737

Project Number: 0114119

Report Date: 10/18/10

SAMPLE RESULTS

Lab ID: L1015737-03
 Client ID: MW-403-20101007-01
 Sample Location: WAYLAND, MA
 Matrix: Water
 Analytical Method: 97,8260B
 Analytical Date: 10/11/10 12:42
 Analyst: MM

Date Collected: 10/07/10 11:55
 Date Received: 10/07/10
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND		ug/l	2.0	--	1
1,1-Dichloroethane	ND		ug/l	1.0	--	1
Chloroform	1.2		ug/l	1.0	--	1
Carbon tetrachloride	ND		ug/l	1.0	--	1
1,2-Dichloropropane	ND		ug/l	1.0	--	1
Dibromochloromethane	ND		ug/l	1.0	--	1
1,1,2-Trichloroethane	ND		ug/l	1.0	--	1
Tetrachloroethene	1.4		ug/l	1.0	--	1
Chlorobenzene	ND		ug/l	1.0	--	1
1,2-Dichloroethane	ND		ug/l	1.0	--	1
1,1,1-Trichloroethane	ND		ug/l	1.0	--	1
Bromodichloromethane	ND		ug/l	1.0	--	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	1.0	--	1
Chloromethane	ND		ug/l	2.0	--	1
Vinyl chloride	ND		ug/l	1.0	--	1
Chloroethane	ND		ug/l	2.0	--	1
1,1-Dichloroethene	ND		ug/l	1.0	--	1
trans-1,2-Dichloroethene	ND		ug/l	1.0	--	1
Trichloroethene	30		ug/l	1.0	--	1
1,2-Dichlorobenzene	ND		ug/l	1.0	--	1
1,3-Dichlorobenzene	ND		ug/l	1.0	--	1
1,4-Dichlorobenzene	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	1.6		ug/l	1.0	--	1
Dichlorodifluoromethane	ND		ug/l	2.0	--	1
1,2-Dibromoethane	ND		ug/l	2.0	--	1
1,3-Dichloropropane	ND		ug/l	2.0	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--	1

Project Name: RAYTHEON WAYLAND**Lab Number:** L1015737**Project Number:** 0114119**Report Date:** 10/18/10**SAMPLE RESULTS**

Lab ID: L1015737-03
 Client ID: MW-403-20101007-01
 Sample Location: WAYLAND, MA

Date Collected: 10/07/10 11:55
 Date Received: 10/07/10
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
o-Chlorotoluene	ND		ug/l	2.0	--	1
p-Chlorotoluene	ND		ug/l	2.0	--	1
Hexachlorobutadiene	ND		ug/l	0.60	--	1
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	110		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	113		70-130
Dibromofluoromethane	120		70-130

Project Name: RAYTHEON WAYLAND
Project Number: 0114119

Lab Number: L1015737
Report Date: 10/18/10

SAMPLE RESULTS

Lab ID: L1015737-04
Client ID: TB-004-20101007-01
Sample Location: WAYLAND, MA
Matrix: Water
Analytical Method: 97,8260B
Analytical Date: 10/11/10 13:14
Analyst: MM

Date Collected: 10/07/10 18:18
Date Received: 10/07/10
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND		ug/l	2.0	--	1
1,1-Dichloroethane	ND		ug/l	1.0	--	1
Chloroform	ND		ug/l	1.0	--	1
Carbon tetrachloride	ND		ug/l	1.0	--	1
1,2-Dichloropropane	ND		ug/l	1.0	--	1
Dibromochloromethane	ND		ug/l	1.0	--	1
1,1,2-Trichloroethane	ND		ug/l	1.0	--	1
Tetrachloroethene	ND		ug/l	1.0	--	1
Chlorobenzene	ND		ug/l	1.0	--	1
1,2-Dichloroethane	ND		ug/l	1.0	--	1
1,1,1-Trichloroethane	ND		ug/l	1.0	--	1
Bromodichloromethane	ND		ug/l	1.0	--	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	1.0	--	1
Chloromethane	ND		ug/l	2.0	--	1
Vinyl chloride	ND		ug/l	1.0	--	1
Chloroethane	ND		ug/l	2.0	--	1
1,1-Dichloroethene	ND		ug/l	1.0	--	1
trans-1,2-Dichloroethene	ND		ug/l	1.0	--	1
Trichloroethene	ND		ug/l	1.0	--	1
1,2-Dichlorobenzene	ND		ug/l	1.0	--	1
1,3-Dichlorobenzene	ND		ug/l	1.0	--	1
1,4-Dichlorobenzene	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	ND		ug/l	1.0	--	1
Dichlorodifluoromethane	ND		ug/l	2.0	--	1
1,2-Dibromoethane	ND		ug/l	2.0	--	1
1,3-Dichloropropane	ND		ug/l	2.0	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--	1

Project Name: RAYTHEON WAYLAND**Lab Number:** L1015737**Project Number:** 0114119**Report Date:** 10/18/10**SAMPLE RESULTS**

Lab ID: L1015737-04
 Client ID: TB-004-20101007-01
 Sample Location: WAYLAND, MA

Date Collected: 10/07/10 18:18
 Date Received: 10/07/10
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
o-Chlorotoluene	ND		ug/l	2.0	--	1
p-Chlorotoluene	ND		ug/l	2.0	--	1
Hexachlorobutadiene	ND		ug/l	0.60	--	1
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	113		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	112		70-130
Dibromofluoromethane	122		70-130

Project Name: RAYTHEON WAYLAND

Lab Number: L1015737

Project Number: 0114119

Report Date: 10/18/10

SAMPLE RESULTS

Lab ID: L1015737-05
 Client ID: DUP-005-20101007-01
 Sample Location: WAYLAND, MA
 Matrix: Water
 Analytical Method: 97,8260B
 Analytical Date: 10/11/10 13:47
 Analyst: MM

Date Collected: 10/07/10 14:14
 Date Received: 10/07/10
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND		ug/l	2.0	--	1
1,1-Dichloroethane	ND		ug/l	1.0	--	1
Chloroform	ND		ug/l	1.0	--	1
Carbon tetrachloride	ND		ug/l	1.0	--	1
1,2-Dichloropropane	ND		ug/l	1.0	--	1
Dibromochloromethane	ND		ug/l	1.0	--	1
1,1,2-Trichloroethane	ND		ug/l	1.0	--	1
Tetrachloroethene	ND		ug/l	1.0	--	1
Chlorobenzene	ND		ug/l	1.0	--	1
1,2-Dichloroethane	ND		ug/l	1.0	--	1
1,1,1-Trichloroethane	ND		ug/l	1.0	--	1
Bromodichloromethane	ND		ug/l	1.0	--	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	1.0	--	1
Chloromethane	ND		ug/l	2.0	--	1
Vinyl chloride	ND		ug/l	1.0	--	1
Chloroethane	ND		ug/l	2.0	--	1
1,1-Dichloroethene	ND		ug/l	1.0	--	1
trans-1,2-Dichloroethene	1.4		ug/l	1.0	--	1
Trichloroethene	74		ug/l	1.0	--	1
1,2-Dichlorobenzene	ND		ug/l	1.0	--	1
1,3-Dichlorobenzene	ND		ug/l	1.0	--	1
1,4-Dichlorobenzene	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	12		ug/l	1.0	--	1
Dichlorodifluoromethane	ND		ug/l	2.0	--	1
1,2-Dibromoethane	ND		ug/l	2.0	--	1
1,3-Dichloropropane	ND		ug/l	2.0	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--	1

Project Name: RAYTHEON WAYLAND**Lab Number:** L1015737**Project Number:** 0114119**Report Date:** 10/18/10**SAMPLE RESULTS**

Lab ID: L1015737-05

Date Collected: 10/07/10 14:14

Client ID: DUP-005-20101007-01

Date Received: 10/07/10

Sample Location: WAYLAND, MA

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
o-Chlorotoluene	ND		ug/l	2.0	--	1
p-Chlorotoluene	ND		ug/l	2.0	--	1
Hexachlorobutadiene	ND		ug/l	0.60	--	1
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	116		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	117		70-130
Dibromofluoromethane	119		70-130

Project Name: RAYTHEON WAYLAND

Lab Number: L1015737

Project Number: 0114119

Report Date: 10/18/10

SAMPLE RESULTS

Lab ID: L1015737-06
 Client ID: MW-117-20101007-01
 Sample Location: WAYLAND, MA
 Matrix: Water
 Analytical Method: 97,8260B
 Analytical Date: 10/11/10 14:19
 Analyst: MM

Date Collected: 10/07/10 13:30
 Date Received: 10/07/10
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
Methylene chloride	ND		ug/l	2.0	--	1
1,1-Dichloroethane	ND		ug/l	1.0	--	1
Chloroform	ND		ug/l	1.0	--	1
Carbon tetrachloride	ND		ug/l	1.0	--	1
1,2-Dichloropropane	ND		ug/l	1.0	--	1
Dibromochloromethane	ND		ug/l	1.0	--	1
1,1,2-Trichloroethane	ND		ug/l	1.0	--	1
Tetrachloroethene	ND		ug/l	1.0	--	1
Chlorobenzene	ND		ug/l	1.0	--	1
1,2-Dichloroethane	ND		ug/l	1.0	--	1
1,1,1-Trichloroethane	ND		ug/l	1.0	--	1
Bromodichloromethane	ND		ug/l	1.0	--	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	1.0	--	1
Chloromethane	ND		ug/l	2.0	--	1
Vinyl chloride	ND		ug/l	1.0	--	1
Chloroethane	ND		ug/l	2.0	--	1
1,1-Dichloroethene	ND		ug/l	1.0	--	1
trans-1,2-Dichloroethene	ND		ug/l	1.0	--	1
Trichloroethene	6.9		ug/l	1.0	--	1
1,2-Dichlorobenzene	ND		ug/l	1.0	--	1
1,3-Dichlorobenzene	ND		ug/l	1.0	--	1
1,4-Dichlorobenzene	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	ND		ug/l	1.0	--	1
Dichlorodifluoromethane	ND		ug/l	2.0	--	1
1,2-Dibromoethane	ND		ug/l	2.0	--	1
1,3-Dichloropropane	ND		ug/l	2.0	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--	1

Project Name: RAYTHEON WAYLAND**Lab Number:** L1015737**Project Number:** 0114119**Report Date:** 10/18/10**SAMPLE RESULTS**

Lab ID: L1015737-06
 Client ID: MW-117-20101007-01
 Sample Location: WAYLAND, MA

Date Collected: 10/07/10 13:30
 Date Received: 10/07/10
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
o-Chlorotoluene	ND		ug/l	2.0	--	1
p-Chlorotoluene	ND		ug/l	2.0	--	1
Hexachlorobutadiene	ND		ug/l	0.60	--	1
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	114		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	112		70-130
Dibromofluoromethane	123		70-130

Project Name: RAYTHEON WAYLAND
Project Number: 0114119

Lab Number: L1015737
Report Date: 10/18/10

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260B
Analytical Date: 10/11/10 10:00
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics - Westborough Lab for sample(s): 01-06 Batch: WG436841-3					
Methylene chloride	ND		ug/l	2.0	--
1,1-Dichloroethane	ND		ug/l	1.0	--
Chloroform	ND		ug/l	1.0	--
Carbon tetrachloride	ND		ug/l	1.0	--
1,2-Dichloropropane	ND		ug/l	1.0	--
Dibromochloromethane	ND		ug/l	1.0	--
1,1,2-Trichloroethane	ND		ug/l	1.0	--
Tetrachloroethene	ND		ug/l	1.0	--
Chlorobenzene	ND		ug/l	1.0	--
Trichlorofluoromethane	ND		ug/l	2.0	--
1,2-Dichloroethane	ND		ug/l	1.0	--
1,1,1-Trichloroethane	ND		ug/l	1.0	--
Bromodichloromethane	ND		ug/l	1.0	--
trans-1,3-Dichloropropene	ND		ug/l	0.50	--
cis-1,3-Dichloropropene	ND		ug/l	0.50	--
1,1-Dichloropropene	ND		ug/l	2.0	--
Bromoform	ND		ug/l	2.0	--
1,1,2,2-Tetrachloroethane	ND		ug/l	1.0	--
Benzene	ND		ug/l	1.0	--
Toluene	ND		ug/l	1.0	--
Ethylbenzene	ND		ug/l	1.0	--
Chloromethane	ND		ug/l	2.0	--
Bromomethane	ND		ug/l	2.0	--
Vinyl chloride	ND		ug/l	1.0	--
Chloroethane	ND		ug/l	2.0	--
1,1-Dichloroethene	ND		ug/l	1.0	--
trans-1,2-Dichloroethene	ND		ug/l	1.0	--
Trichloroethene	ND		ug/l	1.0	--
1,2-Dichlorobenzene	ND		ug/l	1.0	--
1,3-Dichlorobenzene	ND		ug/l	1.0	--
1,4-Dichlorobenzene	ND		ug/l	1.0	--

Project Name: RAYTHEON WAYLAND
Project Number: 0114119

Lab Number: L1015737
Report Date: 10/18/10

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260B
Analytical Date: 10/11/10 10:00
Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics - Westborough Lab for sample(s): 01-06 Batch: WG436841-3					
Methyl tert butyl ether	ND		ug/l	2.0	--
p/m-Xylene	ND		ug/l	2.0	--
o-Xylene	ND		ug/l	1.0	--
cis-1,2-Dichloroethene	ND		ug/l	1.0	--
Dibromomethane	ND		ug/l	2.0	--
1,2,3-Trichloropropane	ND		ug/l	2.0	--
Styrene	ND		ug/l	1.0	--
Dichlorodifluoromethane	ND		ug/l	2.0	--
Acetone	ND		ug/l	5.0	--
Carbon disulfide	ND		ug/l	2.0	--
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	2.0	--
Tetrahydrofuran	ND		ug/l	10	--
2,2-Dichloropropane	ND		ug/l	2.0	--
1,2-Dibromoethane	ND		ug/l	2.0	--
1,3-Dichloropropane	ND		ug/l	2.0	--
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--
Bromobenzene	ND		ug/l	2.0	--
n-Butylbenzene	ND		ug/l	2.0	--
sec-Butylbenzene	ND		ug/l	2.0	--
tert-Butylbenzene	ND		ug/l	2.0	--
o-Chlorotoluene	ND		ug/l	2.0	--
p-Chlorotoluene	ND		ug/l	2.0	--
1,2-Dibromo-3-chloropropane	ND		ug/l	2.0	--
Hexachlorobutadiene	ND		ug/l	0.60	--
Isopropylbenzene	ND		ug/l	2.0	--
p-Isopropyltoluene	ND		ug/l	2.0	--
Naphthalene	ND		ug/l	2.0	--
n-Propylbenzene	ND		ug/l	2.0	--

Project Name: RAYTHEON WAYLAND
Project Number: 0114119

Lab Number: L1015737
Report Date: 10/18/10

Method Blank Analysis
Batch Quality Control

Analytical Method: 97,8260B
 Analytical Date: 10/11/10 10:00
 Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics - Westborough Lab for sample(s): 01-06 Batch: WG436841-3					
1,2,3-Trichlorobenzene	ND		ug/l	2.0	--
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--
1,3,5-Trimethylbenzene	ND		ug/l	2.0	--
1,2,4-Trimethylbenzene	ND		ug/l	2.0	--
Ethyl ether	ND		ug/l	2.0	--
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	93		70-130
4-Bromofluorobenzene	111		70-130
Dibromofluoromethane	113		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: RAYTHEON WAYLAND

Lab Number: L1015737

Project Number: 0114119

Report Date: 10/18/10

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
MCP Volatile Organics - Westborough Lab Associated sample(s): 01-06 Batch: WG436841-1 WG436841-2								
Methylene chloride	106		102		70-130	4		20
1,1-Dichloroethane	104		98		70-130	6		20
Chloroform	106		101		70-130	5		20
Carbon tetrachloride	111		106		70-130	5		20
1,2-Dichloropropane	97		99		70-130	2		20
Dibromochloromethane	105		105		70-130	0		20
1,1,2-Trichloroethane	105		105		70-130	0		20
Tetrachloroethene	111		106		70-130	5		20
Chlorobenzene	102		100		70-130	2		20
Trichlorofluoromethane	126		118		70-130	7		20
1,2-Dichloroethane	104		104		70-130	0		20
1,1,1-Trichloroethane	110		105		70-130	5		20
Bromodichloromethane	109		106		70-130	3		20
trans-1,3-Dichloropropene	107		107		70-130	0		20
cis-1,3-Dichloropropene	99		97		70-130	2		20
1,1-Dichloropropene	107		101		70-130	6		20
Bromoform	105		106		70-130	1		20
1,1,2,2-Tetrachloroethane	106		105		70-130	1		20
Benzene	105		100		70-130	5		20
Toluene	104		98		70-130	6		20
Ethylbenzene	110		105		70-130	5		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: RAYTHEON WAYLAND

Lab Number: L1015737

Project Number: 0114119

Report Date: 10/18/10

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
MCP Volatile Organics - Westborough Lab Associated sample(s): 01-06 Batch: WG436841-1 WG436841-2								
Chloromethane	89		84		70-130	6		20
Bromomethane	119		109		70-130	9		20
Vinyl chloride	93		88		70-130	6		20
Chloroethane	100		92		70-130	8		20
1,1-Dichloroethene	122		111		70-130	9		20
trans-1,2-Dichloroethene	103		100		70-130	3		20
Trichloroethene	106		103		70-130	3		20
1,2-Dichlorobenzene	108		102		70-130	6		20
1,3-Dichlorobenzene	108		100		70-130	8		20
1,4-Dichlorobenzene	108		102		70-130	6		20
Methyl tert butyl ether	90		98		70-130	9		20
p/m-Xylene	113		107		70-130	5		20
o-Xylene	110		106		70-130	4		20
cis-1,2-Dichloroethene	105		102		70-130	3		20
Dibromomethane	93		108		70-130	15		20
1,2,3-Trichloropropane	104		104		70-130	0		20
Styrene	104		103		70-130	1		20
Dichlorodifluoromethane	97		92		70-130	5		20
Acetone	110		120		70-130	9		20
Carbon disulfide	109		96		70-130	13		20
2-Butanone	105		111		70-130	6		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: RAYTHEON WAYLAND

Lab Number: L1015737

Project Number: 0114119

Report Date: 10/18/10

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
MCP Volatile Organics - Westborough Lab Associated sample(s): 01-06 Batch: WG436841-1 WG436841-2								
4-Methyl-2-pentanone	91		107		70-130	16		20
2-Hexanone	95		106		70-130	11		20
Bromochloromethane	105		102		70-130	3		20
Tetrahydrofuran	88		99		70-130	12		20
2,2-Dichloropropane	115		108		70-130	6		20
1,2-Dibromoethane	100		107		70-130	7		20
1,3-Dichloropropane	100		105		70-130	5		20
1,1,1,2-Tetrachloroethane	112		111		70-130	1		20
Bromobenzene	106		100		70-130	6		20
n-Butylbenzene	121		107		70-130	12		20
sec-Butylbenzene	117		105		70-130	11		20
tert-Butylbenzene	118		104		70-130	13		20
o-Chlorotoluene	108		100		70-130	8		20
p-Chlorotoluene	109		100		70-130	9		20
1,2-Dibromo-3-chloropropane	108		116		70-130	7		20
Hexachlorobutadiene	119		110		70-130	8		20
Isopropylbenzene	114		107		70-130	6		20
p-Isopropyltoluene	119		103		70-130	14		20
Naphthalene	96		102		70-130	6		20
n-Propylbenzene	115		103		70-130	11		20
1,2,3-Trichlorobenzene	101		104		70-130	3		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: RAYTHEON WAYLAND

Lab Number: L1015737

Project Number: 0114119

Report Date: 10/18/10

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
MCP Volatile Organics - Westborough Lab Associated sample(s): 01-06 Batch: WG436841-1 WG436841-2								
1,2,4-Trichlorobenzene	104		104		70-130	0		20
1,3,5-Trimethylbenzene	112		100		70-130	11		20
1,2,4-Trimethylbenzene	112		102		70-130	9		20
Ethyl ether	107		106		70-130	1		20
Isopropyl Ether	89		91		70-130	2		20
Ethyl-Tert-Butyl-Ether	96		98		70-130	2		20
Tertiary-Amyl Methyl Ether	100		104		70-130	4		20
1,4-Dioxane	124		124		70-130	0		20

Surrogate	LCS		LCSD		Acceptance Criteria
	%Recovery	Qual	%Recovery	Qual	
1,2-Dichloroethane-d4	95		100		70-130
Toluene-d8	100		98		70-130
4-Bromofluorobenzene	98		99		70-130
Dibromofluoromethane	106		102		70-130

Project Name: RAYTHEON WAYLAND

Lab Number: L1015737

Project Number: 0114119

Report Date: 10/18/10

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: NA

Cooler Information Custody Seal**Cooler**

A Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1015737-01A	Vial HCl preserved	A	N/A	2	Y	Absent	MCP-8260-10(14)
L1015737-01B	Vial HCl preserved	A	N/A	2	Y	Absent	MCP-8260-10(14)
L1015737-02A	Vial HCl preserved	A	N/A	2	Y	Absent	MCP-8260-10(14)
L1015737-02B	Vial HCl preserved	A	N/A	2	Y	Absent	MCP-8260-10(14)
L1015737-03A	Vial HCl preserved	A	N/A	2	Y	Absent	MCP-8260-10(14)
L1015737-03B	Vial HCl preserved	A	N/A	2	Y	Absent	MCP-8260-10(14)
L1015737-04A	Vial HCl preserved	A	N/A	2	Y	Absent	MCP-8260-10(14)
L1015737-05A	Vial HCl preserved	A	N/A	2	Y	Absent	MCP-8260-10(14)
L1015737-05B	Vial HCl preserved	A	N/A	2	Y	Absent	MCP-8260-10(14)
L1015737-06A	Vial HCl preserved	A	N/A	2	Y	Absent	MCP-8260-10(14)
L1015737-06B	Vial HCl preserved	A	N/A	2	Y	Absent	MCP-8260-10(14)

*Values in parentheses indicate holding time in days

Project Name: RAYTHEON WAYLAND
Project Number: 0114119

Lab Number: L1015737
Report Date: 10/18/10

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.
MDL	-Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	-Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	-Matrix Spike Sample Duplicate: Refer to MS.
NA	-Not Applicable.
NC	-Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NI	-Not Ignitable.
RL	-Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	-Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

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

A	-Spectra identified as "Aldol Condensation Product".
B	-The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than five times (5x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank.
D	-Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
E	-Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
H	-The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
I	-The RPD between the results for the two columns exceeds the method-specified criteria; however, the lower value has been reported due to obvious interference.
P	-The RPD between the results for the two columns exceeds the method-specified criteria.
Q	-The quality control sample exceeds the associated acceptance criteria. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
R	-Analytical results are from sample re-analysis.

Report Format: Data Usability Report



Project Name: RAYTHEON WAYLAND

Lab Number: L1015737

Project Number: 0114119

Report Date: 10/18/10

Data Qualifiers

RE - Analytical results are from sample re-extraction.

J - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

ND - Not detected at the reporting limit (RL) for the sample.

Project Name: RAYTHEON WAYLAND
Project Number: 0114119

Lab Number: L1015737
Report Date: 10/18/10

REFERENCES

- 97 EPA Test Methods (SW-846) with QC Requirements & Performance Standards for the Analysis of EPA SW-846 Methods under the Massachusetts Contingency Plan, WSC-CAM-IIA, IIB, IIIA, IIIB, IIIC, IIID, VA, VB, VC, VIA, VIB, VIIIA and VIIIB, July 2010.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



Certificate/Approval Program Summary

Last revised July 19, 2010 - Westboro Facility

The following list includes only those analytes/methods for which certification/approval is currently held.
For a complete listing of analytes for the referenced methods, please contact your Alpha Customer Service Representative.

Connecticut Department of Public Health Certificate/Lab ID: PH-0574. **NELAP Accredited Solid Waste/Soil.**

Drinking Water (Inorganic Parameters: Color, pH, Turbidity, Conductivity, Alkalinity, Chloride, Free Residual Chlorine, Fluoride, Calcium Hardness, Sulfate, Nitrate, Nitrite, Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Vanadium, Zinc, Total Dissolved Solids, Total Organic Carbon, Total Cyanide, Perchlorate. Organic Parameters: Volatile Organics 524.2, Total Trihalomethanes 524.2, 1,2-Dibromo-3-chloropropane (DBCP), Ethylene Dibromide (EDB), 1,4-Dioxane (Mod 8270). Microbiology Parameters: Total Coliform-MF mEndo (SM9222B), Total Coliform – Colilert (SM9223 P/A), E. Coli. – Colilert (SM9223 P/A), HPC – Pour Plate (SM9215B), Fecal Coliform – MF m-FC (SM9222D))

Wastewater/Non-Potable Water (Inorganic Parameters: Color, pH, Conductivity, Acidity, Alkalinity, Chloride, Total Residual Chlorine, Fluoride, Total Hardness, Silica, Sulfate, Sulfide, Ammonia, Kjeldahl Nitrogen, Nitrate, Nitrite, O-Phosphate, Total Phosphorus, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Tin, Titanium, Vanadium, Zinc, Total Residue (Solids), Total Dissolved Solids, Total Suspended Solids (non-filterable), BOD, CBOD, COD, TOC, Total Cyanide, Phenolics, Foaming Agents (MBAS), Bromide, Oil and Grease. Organic Parameters: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, 2,4-D, 2,4,5-T, 2,4,5-TP(Silvex), Acid Extractables (Phenols), Benzidines, Phthalate Esters, Nitrosamines, Nitroaromatics & Isophorone, Polynuclear Aromatic Hydrocarbons, Haloethers, Chlorinated Hydrocarbons, Volatile Organics, TPH (HEM/SGT), Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH. Microbiology Parameters: Total Coliform – MF mEndo (SM9222B), Total Coliform – MTF (SM9221B), HPC – Pour Plate (SM9215B), Fecal Coliform – MF m-FC (SM9222D), Fecal Coliform – A-1 Broth (SM9221E).)

Solid Waste/Soil (Inorganic Parameters: pH, Sulfide, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Tin, Vanadium, Zinc, Total Cyanide, Ignitability, Phenolics, Corrosivity, TCLP Leach (1311), SPLP Leach (1312 metals only), Reactivity. Organic Parameters: PCBs, PCBs in Oil, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Extractable Petroleum Hydrocarbons (ETPH), MA-EPH, MA-VPH, Dicamba, 2,4-D, 2,4,5-T, 2,4,5-TP(Silvex), Volatile Organics, Acid Extractables (Phenols), 3,3'-Dichlorobenzidine, Phthalates, Nitrosamines, Nitroaromatics & Cyclic Ketones, PAHs, Haloethers, Chlorinated Hydrocarbons.)

Maine Department of Human Services Certificate/Lab ID: 2009024.

Drinking Water (Inorganic Parameters: SM9215B, 9222D, 9223B, EPA 180.1, 300.0, 353.2, SM2130B, 2320B, 4500CI-D, 4500CN-C, 4500CN-E, 4500F-C, 4500H+B, 4500NO3-F, EPA 200.7, EPA 200.8, 245.1, EPA 300.0. Organic Parameters: 504.1, 524.2.)

Wastewater/Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664A, 350.1, 351.1, 353.2, 410.4, 420.1, Lachat 10-107-06-1-B, SM2320B, 2340B, 2510B, 2540C, 2540D, 426C, 4500CI-D, 4500CI-E, 4500CN-C, 4500CN-E, 4500F-B, 4500F-C, 4500H+B, 4500Norg-B, 4500Norg-C, 4500NH3-B, 4500NH3-G, 4500NH3-H, 4500NO3-F, 4500P-B.5, 4500P-E, 5210B, 5220D, 5310C, EPA 200.7, 200.8, 245.1. Organic Parameters: 608, 624, ME DRO, ME GRO, MA EPH, MA VPH.)

Solid Waste/Soil (Organic Parameters: ME DRO, ME GRO, MA EPH, MA VPH.)

Massachusetts Department of Environmental Protection Certificate/Lab ID: M-MA086.

Drinking Water

Inorganic Parameters: (EPA 200.8 for: Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Tl)

(EPA 200.7 for: Ba,Be,Ca,Cd,Cr,Cu,Na,Ni) 245.1, (300.0 for: Nitrate-N, Fluoride, Sulfate)

353.2 for: Nitrate-N, Nitrite-N; SM4500NO3-F, 4500F-C, 4500CN-CE, EPA 180.1, SM2130B, SM4500CI-D, 2320B, SM2540C, SM4500H-B.

Organic Parameters: (EPA 524.2 for: Trihalomethanes, Volatile Organics)

(504.1 for: 1,2-Dibromoethane, 1,2-Dibromo-3-Chloropropane), 314.0, 332.

Microbiology Parameters: SM9215B; ENZ. SUB. SM9223; MF-SM9222D

Non-Potable Water

Inorganic Parameters: (EPA 200.8 for: Al,Sb,As,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,Zn)

(EPA 200.7 for: Al,Sb,As,Be,Cd,Cr,Co,Cu,Fe,Pb,Mn,Mo,Ni,Se,Ag,Sr,Ti,Tl, V,Zn,Ca,Mg,Na,K)

245.1, SM4500H,B, EPA 120.1, SM2510B, 2540C, 2540B, 2340B, 2320B, 4500CL-E, 4500F-BC, 426C, SM4500NH3-BH, (EPA 350.1 for: Ammonia-N), LACHAT 10-107-06-1-B for Ammonia-N, SM4500NO3-F, 353.2 for Nitrate-N, SM4500NH3-B,C-Titr, SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, 4500P-B,E, 5220D, EPA 410.4, SM 5210B, 5310C, 4500CL-D, EPA 1664, SM14 510AC, EPA 420, SM4500-CN-CE, SM2540D.

Organic Parameters: (EPA 624 for Volatile Halocarbons, Volatile Aromatics)

(608 for: Chlordane, Aldrin, Dieldrin, DDD, DDE, DDT, Heptachlor, Heptachlor Epoxide, PCBs-Water), EPA 625 for SVOC Acid Extractables and SVOC Base/Neutral Extractables, 600/4-81-045-PCB-Oil

New Hampshire Department of Environmental Services Certificate/Lab ID: 200307. *NELAP Accredited.*

Drinking Water (Inorganic Parameters: SM6215B, 9222B, 9223B Colilert, EPA 200.7, 200.8, 245.2, 120.1, 300.0, 314.0, SM4500CN-E, 4500H+B, 4500NO3-F, 2320B, 2510B, 2540C, 4500F-C, 5310C, 2120B, EPA 331.0. *Organic Parameters:* 504.1, 524.2, SM6251B.)

Non-Potable Water (Inorganic Parameters: SM9222D, 9221B, 9222B, 9221E-EC, EPA 200.7, 200.8, 245.1, 245.2, SW-846 6010B, 6020, 7196A, 7470A, SM3500-CR-D, EPA 120.1, 300.0, 350.1, 351.1, 353.2, 420.1, 1664A, SW-846 9010, 9030, 9040B, SM426C, SM2310B, 2540B, 2540D, 4500H+B, 4500NH3-H, 4500NH3-E, 4500NO2-B, 4500P-E, 4500-S2-D, 5210B, 2320B, 2540C, 4500F-C, 5310C, 5540C, LACHAT 10-117-07-1-B, LACHAT 10-107-06-1-B, LACHAT 10-107-04-1-C, LACHAT 10-107-04-1-J, LACHAT 10-117-07-1-A, SM4500CL-E, LACHAT 10-204-00-1-A, LACHAT 10-107-06-2-D. *Organic Parameters:* SW-846 3005A, 3015A, 3510C, 5030B, 8021B, 8260B, 8270C, 8330, EPA 624, 625, 608, SW-846 8082, 8081A.)

Solid & Chemical Materials (Inorganic Parameters: SW-846 6010B, 7196A, 7471A, 7.3.3.2, 7.3.4.2, 1010, 1030, 9010, 9012A, 9014, 9030B, 9040, 9045C, 9050C, 1311, 3005A, 3050B, 3051A. *Organic Parameters:* SW-846 3540C, 3545, 3580A, 5030B, 5035, 8021B, 8260B, 8270C, 8330, 8151A, 8082, 8081A.)

New Jersey Department of Environmental Protection Certificate/Lab ID: MA935. *NELAP Accredited.*

Drinking Water (Inorganic Parameters: SM9222B, 9221E, 9223B, 9215B, 4500NO3-F, 4500F-C, EPA 300.0, 200.7, 2540C, 2320B, 314.0, SM2120B, 2510B, 5310C, SM4500H-B, EPA 200.8, 245.2. *Organic Parameters:* 504.1, SM6251B, 524.2.)

Non-Potable Water (Inorganic Parameters: SM5210B, EPA 410.4, SM5220D, 4500CI-D, EPA 300.0, SM2120B, SM4500F-BC, EPA 200.7, 351.1, LACHAT 10-107-06-2-D, EPA 353.2, SM4500NO3-F, 4500NO2-B, EPA 1664A, SM5310B, C or D, 4500-PE, EPA 420.1, SM4500P-B5+E, 2540B, 2540C, 2540D, EPA 120.1, SM2510B, SM15 426C, SM9221CE, 9222D, 9221B, 9222B, 9215B, 2310B, 2320B, 4500NH3-H, 4500-S D, EPA 350.1, SM5210B, SW-846 3015, 6020, 7470A, 5540C, 4500H-B, EPA 200.8, SM3500Cr-D, EPA 245.1, 245.2, SW-846 9040B, 3005A, EPA 6010B, 7196A, SW-846 9010B, 9030B. *Organic Parameters:* SW-846 8260B, 8270C, 3510C, EPA 608, 624, 625, SW-846 5030B, 8021B, 8081A, 8082, 8151A, 8330, NJ OQA-QAM-025 Rev.7.)

Solid & Chemical Materials (Inorganic Parameters: SW-846 9040B, 3005A, 6010B, 7196A, 5030B, 9010B, 9030B, 1030, 1311, 3050B, 3051, 7471A, 9014, 9012A, 9045C, 9050A, 9065. *Organic Parameters:* SW-846 8021B, 8081A, 8082, 8151A, 8330, 8260B, 8270C, 1311, 1312, 3540C, 3545, 3550B, 3580A, 5035L, 5035H, NJ OQA-QAM-025 Rev.7.)

New York Department of Health Certificate/Lab ID: 11148. *NELAP Accredited.*

Drinking Water (Inorganic Parameters: SM9223B, 9222B, 9215B, EPA 200.8, 200.7, 245.2, SM5310C, EPA 314.0, 332.0, SM2320B, EPA 300.0, SM2120B, 4500CN-E, 4500F-C, 4500H-B, 4500NO3-F, 2540C, EPA 120.1, SM 2510B. *Organic Parameters:* EPA 524.2, 504.1.)

Non-Potable Water (Inorganic Parameters: SM9221E, 9222D, 9221B, 9222B, 9215B, 5210B, EPA 410.4, SM5220D, 2310B-4a, 2320B, EPA 200.7, 300.0, LACHAT 10-117-07-1A or B, SM4500CI-E, 4500F-C, SM15 426C, EPA 350.1, LACHAT 10-107-06-1-B, SM4500NH3-H, EPA 351.1, LACHAT 10-107-06-2, EPA 353.2, LACHAT 10-107-041-C, SM4500-NO3-F, 4500-NO2-B, 4500P-E, 2540C, 2540B, 2540D, EPA 200.8, EPA 6010B, 6020, EPA 7196A, SM3500Cr-D, EPA 245.1, 245.2, 7470A, SM2120B, SM4500-CN-E LACHAT 10-204-00-1-A, EPA 9040B, SM4500-HB, EPA 1664A, SM5310C, EPA 420.1, SM14 510C, EPA 120.1, SM2510B, SM4500S-D, SM5540C, EPA 3005A, 3015. *Organic Parameters:* EPA 624, 8260B, 8270C, 625, 608, 8081A, 8151A, 8330, 8082, EPA 3510C, 5030B, 9010B, 9030B.)

Solid & Hazardous Waste (Inorganic Parameters: 1010, 1030, SW-846 Ch 7 Sec 7.3, EPA 6010B, 7196A, 7471A, 9012A, 9014, 9040B, 9045C, 9065, 9050, EPA 1311, 1312, 3005A, 3050B, 9010B, 9030B. *Organic Parameters:* EPA 8260B, 8270C, 8081A, 8151A, 8330, 8082, 3540C, 3545, 3546, 3580, 5030B, 5035.)

North Carolina Department of the Environment and Natural Resources Certificate/Lab ID : 666. *Organic Parameters:* MA-EPH, MA-VPH.

Pennsylvania Department of Environmental Protection Certificate/Lab ID : 68-03671. *NELAP Accredited.*

Non-Potable Water (Organic Parameters: EPA 3510C, 5030B, 625, 624. 608, 8081A, 8082, 8151A, 8260B, 8270C, 8330)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1010, 1030, 1311, 3050B, 3051, 6010B, EPA 7.3.3.2, EPA 7.3.4.2, 7196A, 7471A, 9010B, 9012A, 9014, 9040B, 9045C, 9050, 9065. *Organic Parameters:* 3540C, 3545, 3580A, 5035, 8021B, 8081A, 8082, 8151A, 8260B, 8270C, 8330)

Rhode Island Department of Health Certificate/Lab ID: LAO00065. *NELAP Accredited via NY-DOH.*

Refer to MA-DEP Certificate for Potable and Non-Potable Water.

Refer to NY-DOH Certificate for Potable and Non-Potable Water.

Texas Commission on Environmental Quality Certificate/Lab ID: T104704476-09-1. *NELAP Accredited.*

Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664, 200.7, 200.8, 245.1, 245.2, 300.0, 350.1, 351.1, 353.2, 376.2, 410.4, 420.1, 6010, 6020, 7196, 7470, 9040, SM 2120B, 2310B, 2320B, 2510B, 2540B, 2540C, 2540D, 426C, 4500CL-E, 4500CN-E, 4500F-C, 4500H+B, 4500NH3-H, 4500NO2B, 4500P-E, 4500 S²⁻ D, 510C, 5210B, 5220D, 5310C, 5540C. *Organic Parameters:* EPA 608, 624, 625, 8081, 8082, 8151, 8260, 8270, 8330.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1311, 1312, 9012, 9014, 9040, 9045, 9050, 9065.)

Department of Defense Certificate/Lab ID: L2217.

Drinking Water (Inorganic Parameters: SM 4500H-B. *Organic Parameters:* EPA 524.2, 504.1.)

Non-Potable Water (Inorganic Parameters: EPA 200.7, 200.8, 6010B, 6020, 245.1, 245.2, 7470A, 9040B, 300.0, 9251, 9038, 350.1, 353.2, 351.1, 120.1, 9050A, 410.4, 9060, 1664, 420.1, LACHAT 10-107-06-1-B, SM 4500CN-E, 4500H-B, 4500CL-E, 4500F-BC, 4500SO4-E, 426C, 4500NH3-B, 4500NH3-H, 4500NO3-F, 4500NO2-B, 4500Norg-C, 4500PE, 2510B, 5540C, 5220D, 5310C, 2540B, 2540C, 2540D, 510C, 4500S2-AD, 3005A, 3015, 9010B, 9030B. *Organic Parameters:* EPA 8260B, 8270C, 8330, 625, 8082, 8151A, 8081A, 3510C, 5030B, MassDEP EPH, MassDEP VPH.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 200.7, 6010B, 7471A, 9040B, 9045C, 9065, 420.1, 9012A, 6860, 1311, 1312, 3050B, 9030B, 3051, 9010B, 3540C, SM 510ABC, 4500CN-CE, 2540G, SW-846 7.3, *Organic Parameters:* EPA 8260B, 8270C, 8330, 8082, 8081A, 8151A, 3545, 3546, 3580, 5035, MassDEP EPH, MassDEP VPH.)

Analytes Not Accredited by NELAP

Certification is not available by NELAP for the following analytes: **EPA 8260B:** Freon-113, 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene. **EPA 8330A:** PETN, Picric Acid, Nitroglycerine, 2,6-DANT, 2,4-DANT. **EPA 8270C:** Methyl naphthalene, Dimethyl naphthalene, Total Methylnaphthalenes, Total Dimethylnaphthalenes, 1,4-Diphenylhydrazine (Azobenzene). **EPA 625:** 4-Chloroaniline. **EPA 350.1** for Ammonia in a Soil matrix.



CHAIN OF CUSTODY

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 Baylston St.
4th Floor Boston, MA
Phone: (617) 646-7800
Fax: (617) 267-6447
Email: Jason.Flattery@erm.com

Project Information

Project Name: Raytheon Wayland
Project Location: Wayland, MA
Project #: 0114119
Project Manager: Jason Flattery
ALPHA Quote #:

Turn-Around Time

Standard RUSH (only confirmed if pre-approved)
Date Due: 10/14/10 Time:

Other Project Specific Requirements/Comments/Detection Limits:
If MS is required, indicate in Sample Specific Comments which samples and what tests MS to be performed.
(Note: All CAM methods for Inorganic analyses require MS every 20 soil samples)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials	Container Type	Date/Time	Received By	Date/Time	Sample Specific Comments
		Date	Time							
15737.1	MW-403-20101007-01	10/7/10	0830	GW	EW	GW	10/7/10	1515	10/7/10 1515	
2	MW-113-20101007-01	10/7/10	1006	GW	EW	GW	10/7/10	1515	10/7/10 1515	
3	MW-403-20101007-01	10/7/10	1155	GW	EW	GW	10/7/10	1515	10/7/10 1515	
4	TR-004-20101007-01	10/11/10	1818	—	DS	DS	10/11/10	1515	10/11/10 1515	
5	DVP-005-20101007-01	10/7/10	1414	GW	EW	GW	10/7/10	1515	10/7/10 1515	
6	MW-117-20101007-01	10/7/10	1330	GW	EW	GW	10/7/10	1515	10/7/10 1515	

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT
MAMCP or CT RCP?

FORM NO: 01-01 (rev. 18-Jan-2010)

Date Rec'd in Lab: 10/7/10

Report Information - Data Deliverables

FAX EMAIL
 ADEX Add'l Deliverables

Regulatory Requirements/Report Limits

State / Fed Program MA MCP Criteria GW-2
MA MCP PRESUMPTIVE CERTAINTY - CT REASONABLE CONFIDENCE PROTO

Billing Information

Same as Client info PO #:

Yes No Are MCP Analytical Methods Required?
 Yes No Is Matrix Spike (MS) Required on this SDG? (If yes see note in Comments)
 Yes No Are CT RCP (Reasonable Confidence Protocols) Required?

SAMPLE HANDLING

Filtration Done Not needed
 Lab to do Preservation
 Lab to do

Sample Specific Comments

ANALYSIS
80216 by 8260B

Container Type	Date/Time	Received By	Date/Time
Preservative	10/7/10	1515	10/7/10 1515

Relinquished By: [Signature]

Date/Time: 10/7/10 1515

Received By: [Signature]

Date/Time: 10/7/10 1515

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

7A
CONTINUING CALIBRATION CHECK

Lab Name: Alpha Analytical Labs

SDG No.: L1015737

Instrument ID: Jack.i Calibration Date: 11-OCT-2010 Time: 08:22

Lab File ID: 1011A01.D Init. Calib. Date(s): 05-OCT-2 05-OCT-2

Sample No: 8260 CCAL Init. Calib. Times : 07:48 11:34

Compound	RRF	RRF	MIN RRF	%D	MAX %D	
dichlorodifluoromethane	.61712	.59869	.1	3	20	
chloromethane	100	89.119	.1	11	20	
vinyl chloride	.60439	.56112	.1	7	20	
bromomethane	100	119	.1	-19	20	
chloroethane	100	100	.1	0	20	
trichlorofluoromethane	.93722	1.1833	.1	-26	20	F
ethyl ether	.20661	.22057	.05	-7	20	
1,1,-dichloroethene	.51512	.62726	.1	-22	20	F
carbon disulfide	1.2385	1.3451	.1	-9	20	
methylene chloride	.68985	.73442	.1	-6	20	
acetone	.07828	.08645	.1	-10	20	F
trans-1,2-dichloroethene	.75292	.77528	.1	-3	20	
methyl tert butyl ether	1.1898	1.0763	.1	10	20	
Ethyl-Tert-Butyl-Ether	1.3857	1.3297	.05	4	20	
Diisopropyl Ether	1.7079	1.5127	.01	11	20	
1,1-dichloroethane	1.2551	1.3056	.2	-4	20	
cis-1,2-dichloroethene	.80214	.84463	.1	-5	20	
2,2-dichloropropane	.94869	1.0908	.05	-15	20	
bromochloromethane	.34642	.36545	.05	-5	20	
chloroform	1.2140	1.2939	.2	-7	20	
carbontetrachloride	.95483	1.0582	.1	-11	20	
tetrahydrofuran	.10877	.09525	.05	12	20	
1,1,1-trichloroethane	1.0640	1.1757	.1	-11	20	
Tertiary-Amyl Methyl Ether	1.2072	1.2057	.05	0	20	
1,1-dichloropropene	.95913	1.0242	.05	-7	20	
2-butanone	.12768	.134	.1	-5	20	
benzene	2.864	3.0152	.5	-5	20	
1,2-dichloroethane	.6711	.70071	.1	-4	20	
trichloroethene	.74779	.79678	.2	-7	20	
dibromomethane	.35609	.33217	.05	7	20	
1,2-dichloropropane	.68747	.66489	.1	3	20	
bromodichloromethane	.80321	.87561	.2	-9	20	
1,4-dioxane	.00261	.00325	.05	-25	20	F
cis-1,3-dichloropropene	.92257	.90933	.2	1	20	
toluene	2.2733	2.3540	.4	-4	20	
tetrachloroethene	1.1213	1.2487	.2	-11	20	
4-methyl-2-pentanone	.11685	.10618	.1	9	20	
trans-1,3-dichloropropene	.8567	.91325	.1	-7	20	

FORM VII MCP-8260-10

7A
CONTINUING CALIBRATION CHECK

Lab Name: Alpha Analytical Labs

SDG No.: L1015737

Instrument ID: Jack.i Calibration Date: 11-OCT-2010 Time: 08:22

Lab File ID: 1011A01.D Init. Calib. Date(s): 05-OCT-2 05-OCT-2

Sample No: 8260 CCAL Init. Calib. Times : 07:48 11:34

Compound	RRF	RRF	MIN RRF	%D	MAX %D
1,1,2-trichloroethane	.44519	.46903	.1	-5	20
chlorodibromomethane	.68379	.7166	.1	-5	20
1,3-dichloropropane	.93597	.93832	.05	0	20
1,2-dibromoethane	.53241	.53162	.1	0	20
2-hexanone	.21918	.20766	.1	5	20
chlorobenzene	2.5429	2.5891	.5	-2	20
ethyl benzene	4.2068	4.6109	.1	-10	20
1,1,1,2-tetrachloroethane	.7917	.89093	.05	-13	20
p/m xylene	1.6839	1.8984	.1	-13	20
o xylene	1.5740	1.7384	.3	-10	20
styrene	2.6594	2.7724	.3	-4	20
bromoform	.68407	.72064	.1	-5	20
isopropylbenzene	4.0710	4.6508	.1	-14	20
bromobenzene	1.8486	1.9627	.05	-6	20
n-propylbenzene	7.5749	8.6976	.05	-15	20
1,1,2,2,-tetrachloroethane	.95122	1.0109	.3	-6	20
2-chlorotoluene	5.3195	5.7666	.05	-8	20
1,2,3-trichloropropane	.75876	.79201	.05	-4	20
1,3,5-trimethylbenzene	5.3641	6.0189	.05	-12	20
4-chorotoluene	4.7624	5.1947	.05	-9	20
tert-butylbenzene	4.5597	5.3828	.05	-18	20
1,2,4-trimethylbenzene	5.436	6.1176	.05	-13	20
sec-butylbenzene	6.2797	7.341	.01	-17	20
p-isopropyltoluene	5.4602	6.4887	.05	-19	20
1,3-dichlorobenzene	3.5486	3.8249	.6	-8	20
1,4-dichlorobenzene	3.5049	3.7875	.5	-8	20
n-butylbenzene	4.0502	4.9145	.05	-21	20
1,2-dichlorobenzene	3.1071	3.3583	.4	-8	20
1,2-dibromo-3-chloropropane	.12483	.13432	.05	-8	20
hexachlorobutadiene	.71831	.85563	.05	-19	20
1,2,4-trichlorobenzene	1.6561	1.7201	.2	-4	20
naphthalene	100	95.948	.05	4	20
1,2,3-trichlorobenzene	1.3009	1.3095	.05	-1	20
dibromofluoromethane	.25944	.27469	.05	-6	20
1,2-dichloroethane-d4	.23246	.22167	.05	5	20
toluene-d8	1.2443	1.2499	.01	0	20
4-bromofluorobenzene	.7302	.71889	.05	2	20

F

FORM VII MCP-8260-10

Field Colorimetry
Data Form
WATER SAMPLES

Analyst: E. Winer
Date: 10/08/2010
Checked by: T. Pac
Site Name: Raytheon Wayland
Project Number: 0114119.03
Project Manager: Jason Flattery

Sample Name	Well ID	Collection Date	Collection Time	Preservative (Note)	Color	Measured (ppm)	Dilution (X factor)	Concentration as KMnO ₄ (ppm)	Concentration as NaMnO ₄ (ppm)	Concentration as NaMnO ₄ (%)
IP-16D	IP-16D-201001006-03	10/6/10	13:35	Ice	Pink with brown floc	4.4	1	4.4	4.0	0.0
IP-16S	IP-16S-20101006-03	10/6/10	12:55	Ice	Clear	0.0	1	< 1	< 1	< 1
IP-17D	IP-17D-20101006-03	10/6/10	13:15	Ice	Dark purple	17.8	200	3,560	3,197	0.3
MW-33S	MW-33S-20101006-03	10/6/10	12:10	Ice	Clear	0.0	1	< 1	< 1	< 1
MW-40	MW-40-20101005-03	10/5/10	13:55	Ice	Clear	0.0	1	< 1	< 1	< 1
MW-40S	MW-40S-20101005-03	10/5/10	15:25	Ice	Clear	0.0	1	< 1	< 1	< 1
MW-43S	MW-43S-20101006-03	10/6/10	9:50	Ice	Clear	0.0	1	< 1	< 1	< 1
MW-47S	MW-47S-20101006-03	10/6/10	10:10	Ice	Clear	0.0	1	< 1	< 1	< 1
MW-101	MW-101-20101007-03	10/7/10	12:05	Ice	Clear	0.0	1	< 1	< 1	< 1
MW-102	MW-102-20101007-03	10/7/10	12:25	Ice	Pink	8.5	5	42.5	38.2	0.0
MW-103	MW-103-20101006-03	10/6/10	15:10	Ice	Clear	0.0	1	< 1	< 1	< 1
MW-113	MW-113-20101007-03	10/7/10	10:00	Ice	Clear	0.0	1	< 1	< 1	< 1
MW-118	MW-118-20101006-03	10/6/10	9:55	Ice	Light orange	0.4	1	0.4	< 1	< 1
MW-201S	MW-201S-20101006-03	10/6/10	10:45	Ice	Purple	13.5	10	135	121	0.0
MW-201M	MW-201M-20101006-03	10/6/10	11:05	Ice	Clear	0.0	1	< 1	< 1	< 1
MW-202S	MW-202S-20101006-03	10/6/10	13:00	Ice	Clear	0.0	1	< 1	< 1	< 1
MW-202M	MW-202M-20101006-03	10/6/10	12:10	Ice	Clear	0.0	1	< 1	< 1	< 1
MW-203S	MW-203S-20101006-03	10/6/10	9:40	Ice	Clear	0.0	1	< 1	< 1	< 1
MW-203M	MW-203M-20101006-03	10/6/10	9:15	Ice	Clear	0.0	1	< 1	< 1	< 1
MW-203D	MW-203D-20101006-03	10/6/10	10:50	Ice	Clear	0.0	1	< 1	< 1	< 1
MW-208S	MW-208S-20101004-03	10/4/10	16:00	Ice	Clear	0.0	1	< 1	< 1	< 1
MW-212	MW-212-20101006-03	10/6/10	11:55	Ice	Clear	0.0	1	< 1	< 1	< 1
MW-213	MW-213-20101006-03	10/6/10	15:05	Ice	Clear	0.0	1	< 1	< 1	< 1
MW-403	MW-403-20101006-03	10/7/10	11:55	Ice	Clear	0.0	1	< 1	< 1	< 1
MW-404	MW-404-20101006-03	10/6/10	9:25	Ice	Light pink	16.8	1	16.8	15.1	0.0
MW-405S	MW-405S-20101006-03	10/6/10	13:55	Ice	Dark purple with brown floc	24.4	10	244	219	0.0

Note:
< 1 less than detection limit of method (1 ppm)