

26 October 2007
Reference: 0061882

Mr. Robert Schelmerdeine
Wayland Meadows Limited Partnership
c/o Levco, Inc.
145 Rosemary Street
Needham, MA 02494



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

Dear Mr. Schelmerdeine:

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

ERM collected groundwater samples from 4 wells, (DEP-19 S/M/D and MW-264M), within the boundaries of your property between 2 and 4 October 2007. All samples were submitted for laboratory analysis of volatile organic compounds by United States Environmental Protection Agency (USEPA) Method 8260. Sample analysis was conducted by Alpha Woods Hole Laboratories of Westborough, Massachusetts. Analytical laboratory reports are attached to this letter. This analytical data will be provided to the Massachusetts Department of Environmental Protection in the next required MCP submittal.

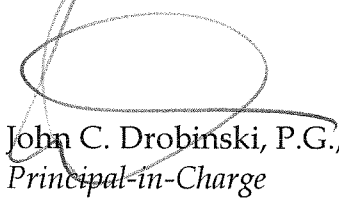
Raytheon has implemented the Public Involvement Process in accordance with MCP 310 CMR 40.1405. Documents pertaining to the Site can be found at the Board of Health, the Wayland Public Library Public Involvement Plan files, or at www.ermne.com (username = raytheon, password = wayland).

Mr. Schelmerdeine
Reference: 0061882
26 October 2007
Page 2

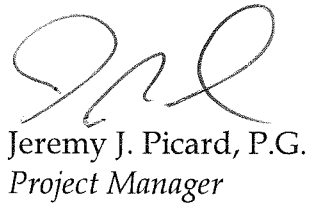
Environmental
Resources
Management

If you have any questions or comments, please contact the undersigned at (617) 646-7800 or Louis Burkhardt, Raytheon Company, at (978) 436-8238.

Sincerely,



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



Jeremy J. Picard, P.G.
Project Manager

Enclosures: BWSC-123 - Notice of Environmental Sampling
Alpha Woods Hole Laboratories Reports

Cc: 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

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

1. Street Address: _____
City/Town: _____ Zip Code: _____

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

1. Name: _____
2. Street Address: _____
City/Town: _____ Zip Code: _____

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: _____
City/Town: _____ Zip Code: _____

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

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

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

residential commerical 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.

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

Contact Name: _____

Street Address: _____

City/Town: _____ Zip Code: _____

Telephone: _____ Email: _____

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

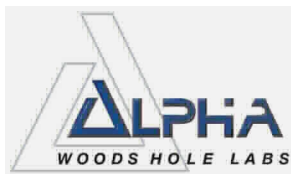
When environmental samples are taken as part of an investigation under the Massachusetts Contingency Plan at a property on behalf of someone other than the owner of the property, the regulations require that the property owner (listed in **Section B** on the reverse side of this form) be given notice 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: L0714856

Client: ERM-New England
399 Boylston Street
6th Floor
Boston, MA 02116

ATTN: Jeremy Picard

Project Name: RAYTHEON WAYLAND

Project Number: 0061882

Report Date: 10/15/07

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

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com



Project Name: RAYTHEON WAYLAND
Project Number: 0061882

Lab Number: L0714856
Report Date: 10/15/07

Alpha Sample ID	Client ID	Sample Location
L0714856-01	DEP-19M-20071004-01	WAYLAND, MA



Project Name: RAYTHEON WAYLAND
Project Number: 0061882

Lab Number: L0714856
Report Date: 10/15/07

MADEP MCP Response Action Analytical Report Certification

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

An affirmative response to questions A, B, C & D is required for "Presumptive Certainty" status		
A	Were all samples received by the laboratory in a condition consistent with those described on their Chain-of-Custody documentation for the data set?	YES
B	Were all QA/QC procedures required for the specified analytical method(s) included in this report followed, including the requirement to note and discuss in a narrative QC data that did not meet appropriate performance standards or guidelines?	YES
C	Does the analytical data included in this report meet all the requirements for "Presumptive Certainty", as described in section 2.0 of the MADEP document CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	YES
D	VPH and EPH methods only: Was the VPH or EPH method run without significant modifications, as specified in Section 11.3?	N/A
A response to questions E and F is required for "Presumptive Certainty" status		
E	Were all QC performance standards and recommendations for the specified method(s) achieved?	YES
F	Were results for all analyte-list compounds/elements for the specified method(s) reported?	NO
For any questions answered "No", please refer to the case narrative section on the following page(s).		

Please note that sample matrix information is located in the Sample Results section of this report.



Project Name: RAYTHEON WAYLAND
Project Number: 0061882

Lab Number: L0714856
Report Date: 10/15/07

Case Narrative

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

MCP Related Narratives

Volatile Organics

L0714856-01 was processed against a calibration curve that utilized a quadratic fit for 2-Butanone.

In reference to question F:

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

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: 

Title: Technical Director/Representative

Date: 10/15/07

ORGANICS

VOLATILES

Project Name: RAYTHEON WAYLAND**Lab Number:** L0714856**Project Number:** 0061882**Report Date:** 10/15/07**SAMPLE RESULTS**

Lab ID: L0714856-01
 Client ID: DEP-19M-20071004-01
 Sample Location: WAYLAND, MA
 Matrix: Water
 Analytical Method: 60,8260B
 Analytical Date: 10/13/07 21:28
 Analyst: BS

Date Collected: 10/04/07 08:05
 Date Received: 10/05/07
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
Methylene chloride	ND		ug/l	5.0	1
1,1-Dichloroethane	ND		ug/l	0.75	1
Chloroform	ND		ug/l	0.75	1
Carbon tetrachloride	ND		ug/l	0.50	1
1,2-Dichloropropane	ND		ug/l	1.8	1
Dibromochloromethane	ND		ug/l	0.50	1
1,1,2-Trichloroethane	ND		ug/l	0.75	1
Tetrachloroethene	ND		ug/l	0.50	1
Chlorobenzene	ND		ug/l	0.50	1
1,2-Dichloroethane	ND		ug/l	0.50	1
1,1,1-Trichloroethane	ND		ug/l	0.50	1
Bromodichloromethane	ND		ug/l	0.50	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	1
Bromoform	ND		ug/l	2.0	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	1
Chloromethane	ND		ug/l	2.5	1
Vinyl chloride	ND		ug/l	1.0	1
Chloroethane	ND		ug/l	1.0	1
1,1-Dichloroethene	ND		ug/l	0.50	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	1
Trichloroethene	ND		ug/l	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.5	1
1,3-Dichlorobenzene	ND		ug/l	2.5	1
1,4-Dichlorobenzene	ND		ug/l	2.5	1
cis-1,2-Dichloroethene	5.5		ug/l	0.50	1
Dichlorodifluoromethane	ND		ug/l	5.0	1
2,2-Dichloropropane	ND		ug/l	2.5	1
1,2-Dibromoethane	ND		ug/l	2.0	1
1,3-Dichloropropane	ND		ug/l	2.5	1

Project Name: RAYTHEON WAYLAND**Lab Number:** L0714856**Project Number:** 0061882**Report Date:** 10/15/07**SAMPLE RESULTS**

Lab ID: L0714856-01
 Client ID: DEP-19M-20071004-01
 Sample Location: WAYLAND, MA

Date Collected: 10/04/07 08:05
 Date Received: 10/05/07
 Field Prep: Not Specified

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	110		70-130

Project Name: RAYTHEON WAYLAND
Project Number: 0061882

Lab Number: L0714856
Report Date: 10/15/07

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 60,8260B
Analytical Date: 10/13/07 16:57
Analyst: BS

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by MCP 8260B for sample(s): 01 Batch: WG298110-3				
Methylene chloride	ND		ug/l	5.0
1,1-Dichloroethane	ND		ug/l	0.75
Chloroform	ND		ug/l	0.75
Carbon tetrachloride	ND		ug/l	0.50
1,2-Dichloropropane	ND		ug/l	1.8
Dibromochloromethane	ND		ug/l	0.50
1,1,2-Trichloroethane	ND		ug/l	0.75
Tetrachloroethene	ND		ug/l	0.50
Chlorobenzene	ND		ug/l	0.50
1,2-Dichloroethane	ND		ug/l	0.50
1,1,1-Trichloroethane	ND		ug/l	0.50
Bromodichloromethane	ND		ug/l	0.50
trans-1,3-Dichloropropene	ND		ug/l	0.50
cis-1,3-Dichloropropene	ND		ug/l	0.50
Bromoform	ND		ug/l	2.0
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50
Chloromethane	ND		ug/l	2.5
Vinyl chloride	ND		ug/l	1.0
Chloroethane	ND		ug/l	1.0
1,1-Dichloroethene	ND		ug/l	0.50
trans-1,2-Dichloroethene	ND		ug/l	0.75
Trichloroethene	ND		ug/l	0.50
1,2-Dichlorobenzene	ND		ug/l	2.5
1,3-Dichlorobenzene	ND		ug/l	2.5
1,4-Dichlorobenzene	ND		ug/l	2.5
cis-1,2-Dichloroethene	ND		ug/l	0.50
Dichlorodifluoromethane	ND		ug/l	5.0
2,2-Dichloropropane	ND		ug/l	2.5
1,2-Dibromoethane	ND		ug/l	2.0
1,3-Dichloropropane	ND		ug/l	2.5
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50

Project Name: RAYTHEON WAYLAND

Lab Number: L0714856

Project Number: 0061882

Report Date: 10/15/07

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 60,8260B
 Analytical Date: 10/13/07 16:57
 Analyst: BS

Parameter	Result	Qualifier	Units	RDL
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Volatil Organic by MCP 8260B for sample(s): 01 Batch: WG298110-3

o-Chlorotoluene	ND		ug/l	2.5
p-Chlorotoluene	ND		ug/l	2.5
Hexachlorobutadiene	ND		ug/l	0.60
1,2,4-Trichlorobenzene	ND		ug/l	2.5

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	93		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	102		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: RAYTHEON WAYLAND

Project Number: 0061882

Lab Number: L0714856

Report Date: 10/15/07

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B Associated sample(s): 01 Batch: WG298110-1 WG298110-2					
Methylene chloride	86	84	70-130	2	25
1,1-Dichloroethane	82	83	70-130	1	25
Chloroform	84	86	70-130	2	25
Carbon tetrachloride	79	79	70-130	0	25
1,2-Dichloropropane	81	84	70-130	4	25
Dibromochloromethane	86	86	70-130	0	25
1,1,2-Trichloroethane	77	80	70-130	4	25
Tetrachloroethene	81	82	70-130	1	25
Chlorobenzene	80	83	70-130	4	25
1,2-Dichloroethane	81	82	70-130	1	25
1,1,1-Trichloroethane	82	84	70-130	2	25
Bromodichloromethane	83	83	70-130	0	25
trans-1,3-Dichloropropene	77	78	70-130	1	25
cis-1,3-Dichloropropene	82	84	70-130	2	25
Bromoform	85	86	70-130	1	50
1,1,2,2-Tetrachloroethane	89	93	70-130	4	25
Chloromethane	88	88	70-130	0	50
Vinyl chloride	82	86	70-130	5	25
Chloroethane	83	86	70-130	4	25
1,1-Dichloroethene	82	87	70-130	6	25
trans-1,2-Dichloroethene	84	88	70-130	5	25

Lab Control Sample Analysis

Batch Quality Control

Project Name: RAYTHEON WAYLAND
Project Number: 0061882

Lab Number: L0714856
Report Date: 10/15/07

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B Associated sample(s): 01 Batch: WG298110-1 WG298110-2					
Trichloroethene	77	80	70-130	4	25
1,2-Dichlorobenzene	82	82	70-130	0	25
1,3-Dichlorobenzene	84	84	70-130	0	25
1,4-Dichlorobenzene	85	84	70-130	1	25
cis-1,2-Dichloroethene	83	84	70-130	1	25
Dichlorodifluoromethane	100	103	70-130	3	50
2,2-Dichloropropane	88	90	70-130	2	50
1,2-Dibromoethane	80	82	70-130	2	25
1,3-Dichloropropane	79	81	70-130	3	25
1,1,1,2-Tetrachloroethane	78	79	70-130	1	25
o-Chlorotoluene	80	82	70-130	2	25
p-Chlorotoluene	82	84	70-130	2	25
Hexachlorobutadiene	79	85	70-130	7	25
1,2,4-Trichlorobenzene	77	80	70-130	4	25

Surrogate	LCS %Recovery Qualifier	LCSD %Recovery Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99	100	70-130
Toluene-d8	97	97	70-130
4-Bromofluorobenzene	100	98	70-130
Dibromofluoromethane	105	105	70-130



Project Name: RAYTHEON WAYLAND**Lab Number:** L0714856**Project Number:** 0061882**Report Date:** 10/15/07**Sample Receipt and Container Information**

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp	Pres	Seal	Analysis
L0714856-01A	Vial HCl preserved	A	N/A	2C	Y	Absent	MCP-8260-04
L0714856-01B	Vial HCl preserved	A	N/A	2C	Y	Absent	MCP-8260-04

Container Comments

L0714856-01A	Temp Probe
L0714856-01B	Temp Probe

Project Name: RAYTHEON WAYLAND
Project Number: 0061882

Lab Number: L0714856
Report Date: 10/15/07

GLOSSARY

Acronyms

- EPA - Environmental Protection Agency.
LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD- Laboratory Control Sample Duplicate: Refer to LCS.
MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD - Matrix Spike Sample Duplicate: Refer to MS.
NA - Not Applicable.
NI - Not Ignitable.
NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
ND - Not detected at the reported detection limit for the sample.
RDL - Reported Detection Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

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

- A - Spectra identified as "Aldol Condensation Product".
B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte.
E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
J - Estimated value. The analyte was tentatively identified; the quantitation is an estimation. (Tentatively identified compounds only.)

Standard Qualifiers

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

Report Format: Not Specified



Project Name: RAYTHEON WAYLAND
Project Number: 0061882

Lab Number: L0714856
Report Date: 10/15/07

REFERENCES

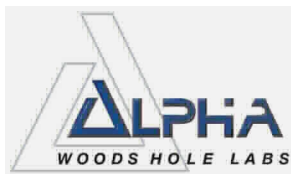
- 60 Quality Assurance and Quality Control Requirements and Performance Standards for SW-846 Methods. MADEP BWSC. WSC-CAM-IIA (Revision 4), WSC-CAM-V C (Revision 2), WSC-CAM-IIIA (Revision 5). May 2004.

LIMITATION OF LIABILITIES

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

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





ANALYTICAL REPORT

Lab Number: L0714855

Client: ERM-New England
399 Boylston Street
6th Floor
Boston, MA 02116

ATTN: Jeremy Picard

Project Name: RAYTHEON WAYLAND

Project Number: 0061882

Report Date: 10/15/07

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

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com



Project Name: RAYTHEON WAYLAND
Project Number: 0061882

Lab Number: L0714855
Report Date: 10/15/07

Alpha Sample ID	Client ID	Sample Location
L0714855-01	DEP-19S-20071004-01	WAYLAND, MA
L0714855-02	DEP-19D-20071004-01	WAYLAND, MA
L0714855-03	DUP-002-20071004-01	WAYLAND, MA

Project Name: RAYTHEON WAYLAND

Lab Number: L0714855

Project Number: 0061882

Report Date: 10/15/07

MADEP MCP Response Action Analytical Report Certification

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An affirmative response to questions A, B, C & D is required for "Presumptive Certainty" status		
A	Were all samples received by the laboratory in a condition consistent with those described on their Chain-of-Custody documentation for the data set?	YES
B	Were all QA/QC procedures required for the specified analytical methods(s) included in this report followed, including the requirement to note and discuss in a narrative QC data that did not meet appropriate performance standards or guidelines?	YES
C	Does the analytical data included in this report meet all the requirements for "Presumptive Certainty", as described in section 2.0 of the MADEP document CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	YES
D	VPH and EPH methods only: Was the VPH or EPH method run without significant modifications, as specified in Section 11.3?	N/A
A response to questions E and F is required for "Presumptive Certainty" status		
E	Were all QC performance standards and recommendations for the specified method(s) achieved?	YES
F	Were results for all analyte-list compounds/elements for the specified method(s) reported?	NO
For any questions answered "No", please refer to the case narrative section on the following page(s).		

Please note that sample matrix information is located in the Sample Results section of this report.



Project Name: RAYTHEON WAYLAND
Project Number: 0061882

Lab Number: L0714855
Report Date: 10/15/07

Case Narrative

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

MCP Related Narratives

Volatile Organics

L0714855-01, -02, and -03 were processed against a calibration curve that utilized a quadratic fit for 2-Butanone.

In reference to question F:

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

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: 

Title: Technical Director/Representative

Date: 10/15/07

ORGANICS

VOLATILES

Project Name: RAYTHEON WAYLAND**Lab Number:** L0714855**Project Number:** 0061882**Report Date:** 10/15/07**SAMPLE RESULTS**

Lab ID: L0714855-01
 Client ID: DEP-19S-20071004-01
 Sample Location: WAYLAND, MA
 Matrix: Water
 Analytical Method: 60,8260B
 Analytical Date: 10/13/07 19:32
 Analyst: BS

Date Collected: 10/04/07 08:00
 Date Received: 10/05/07
 Field Prep: Not Specified

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

Project Name: RAYTHEON WAYLAND**Lab Number:** L0714855**Project Number:** 0061882**Report Date:** 10/15/07**SAMPLE RESULTS**

Lab ID: L0714855-01

Date Collected: 10/04/07 08:00

Client ID: DEP-19S-20071004-01

Date Received: 10/05/07

Sample Location: WAYLAND, MA

Field Prep: Not Specified

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	108		70-130
Dibromofluoromethane	106		70-130

Project Name: RAYTHEON WAYLAND**Lab Number:** L0714855**Project Number:** 0061882**Report Date:** 10/15/07**SAMPLE RESULTS**

Lab ID: L0714855-02
 Client ID: DEP-19D-20071004-01
 Sample Location: WAYLAND, MA
 Matrix: Water
 Analytical Method: 60,8260B
 Analytical Date: 10/13/07 20:11
 Analyst: BS

Date Collected: 10/04/07 08:10
 Date Received: 10/05/07
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
Methylene chloride	ND		ug/l	5.0	1
1,1-Dichloroethane	ND		ug/l	0.75	1
Chloroform	ND		ug/l	0.75	1
Carbon tetrachloride	ND		ug/l	0.50	1
1,2-Dichloropropane	ND		ug/l	1.8	1
Dibromochloromethane	ND		ug/l	0.50	1
1,1,2-Trichloroethane	ND		ug/l	0.75	1
Tetrachloroethene	ND		ug/l	0.50	1
Chlorobenzene	ND		ug/l	0.50	1
1,2-Dichloroethane	ND		ug/l	0.50	1
1,1,1-Trichloroethane	ND		ug/l	0.50	1
Bromodichloromethane	ND		ug/l	0.50	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	1
Bromoform	ND		ug/l	2.0	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	1
Chloromethane	ND		ug/l	2.5	1
Vinyl chloride	ND		ug/l	1.0	1
Chloroethane	ND		ug/l	1.0	1
1,1-Dichloroethene	ND		ug/l	0.50	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	1
Trichloroethene	ND		ug/l	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.5	1
1,3-Dichlorobenzene	ND		ug/l	2.5	1
1,4-Dichlorobenzene	ND		ug/l	2.5	1
cis-1,2-Dichloroethene	0.84		ug/l	0.50	1
Dichlorodifluoromethane	ND		ug/l	5.0	1
2,2-Dichloropropane	ND		ug/l	2.5	1
1,2-Dibromoethane	ND		ug/l	2.0	1
1,3-Dichloropropane	ND		ug/l	2.5	1

Project Name: RAYTHEON WAYLAND**Lab Number:** L0714855**Project Number:** 0061882**Report Date:** 10/15/07**SAMPLE RESULTS**

Lab ID: L0714855-02
 Client ID: DEP-19D-20071004-01
 Sample Location: WAYLAND, MA

Date Collected: 10/04/07 08:10
 Date Received: 10/05/07
 Field Prep: Not Specified

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	109		70-130

Project Name: RAYTHEON WAYLAND**Lab Number:** L0714855**Project Number:** 0061882**Report Date:** 10/15/07**SAMPLE RESULTS**

Lab ID: L0714855-03
Client ID: DUP-002-20071004-01
Sample Location: WAYLAND, MA
Matrix: Water
Anaytical Method: 60,8260B
Analytical Date: 10/13/07 20:49
Analyst: BS

Date Collected: 10/04/07 00:00
Date Received: 10/05/07
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
Methylene chloride	ND		ug/l	5.0	1
1,1-Dichloroethane	ND		ug/l	0.75	1
Chloroform	ND		ug/l	0.75	1
Carbon tetrachloride	ND		ug/l	0.50	1
1,2-Dichloropropane	ND		ug/l	1.8	1
Dibromochloromethane	ND		ug/l	0.50	1
1,1,2-Trichloroethane	ND		ug/l	0.75	1
Tetrachloroethene	ND		ug/l	0.50	1
Chlorobenzene	ND		ug/l	0.50	1
1,2-Dichloroethane	ND		ug/l	0.50	1
1,1,1-Trichloroethane	ND		ug/l	0.50	1
Bromodichloromethane	ND		ug/l	0.50	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	1
Bromoform	ND		ug/l	2.0	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	1
Chloromethane	ND		ug/l	2.5	1
Vinyl chloride	ND		ug/l	1.0	1
Chloroethane	ND		ug/l	1.0	1
1,1-Dichloroethene	ND		ug/l	0.50	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	1
Trichloroethene	ND		ug/l	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.5	1
1,3-Dichlorobenzene	ND		ug/l	2.5	1
1,4-Dichlorobenzene	ND		ug/l	2.5	1
cis-1,2-Dichloroethene	0.70		ug/l	0.50	1
Dichlorodifluoromethane	ND		ug/l	5.0	1
2,2-Dichloropropane	ND		ug/l	2.5	1
1,2-Dibromoethane	ND		ug/l	2.0	1
1,3-Dichloropropane	ND		ug/l	2.5	1

Project Name: RAYTHEON WAYLAND**Lab Number:** L0714855**Project Number:** 0061882**Report Date:** 10/15/07**SAMPLE RESULTS**

Lab ID: L0714855-03
 Client ID: DUP-002-20071004-01
 Sample Location: WAYLAND, MA

Date Collected: 10/04/07 00:00
 Date Received: 10/05/07
 Field Prep: Not Specified

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	110		70-130

Project Name: RAYTHEON WAYLAND
Project Number: 0061882

Lab Number: L0714855
Report Date: 10/15/07

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 60,8260B
Analytical Date: 10/13/07 16:57
Analyst: BS

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by MCP 8260B for sample(s): 01-03 Batch: WG298110-3				
Methylene chloride	ND		ug/l	5.0
1,1-Dichloroethane	ND		ug/l	0.75
Chloroform	ND		ug/l	0.75
Carbon tetrachloride	ND		ug/l	0.50
1,2-Dichloropropane	ND		ug/l	1.8
Dibromochloromethane	ND		ug/l	0.50
1,1,2-Trichloroethane	ND		ug/l	0.75
Tetrachloroethene	ND		ug/l	0.50
Chlorobenzene	ND		ug/l	0.50
1,2-Dichloroethane	ND		ug/l	0.50
1,1,1-Trichloroethane	ND		ug/l	0.50
Bromodichloromethane	ND		ug/l	0.50
trans-1,3-Dichloropropene	ND		ug/l	0.50
cis-1,3-Dichloropropene	ND		ug/l	0.50
Bromoform	ND		ug/l	2.0
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50
Chloromethane	ND		ug/l	2.5
Vinyl chloride	ND		ug/l	1.0
Chloroethane	ND		ug/l	1.0
1,1-Dichloroethene	ND		ug/l	0.50
trans-1,2-Dichloroethene	ND		ug/l	0.75
Trichloroethene	ND		ug/l	0.50
1,2-Dichlorobenzene	ND		ug/l	2.5
1,3-Dichlorobenzene	ND		ug/l	2.5
1,4-Dichlorobenzene	ND		ug/l	2.5
cis-1,2-Dichloroethene	ND		ug/l	0.50
Dichlorodifluoromethane	ND		ug/l	5.0
2,2-Dichloropropane	ND		ug/l	2.5
1,2-Dibromoethane	ND		ug/l	2.0
1,3-Dichloropropane	ND		ug/l	2.5
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50

Project Name: RAYTHEON WAYLAND

Lab Number: L0714855

Project Number: 0061882

Report Date: 10/15/07

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 60,8260B
 Analytical Date: 10/13/07 16:57
 Analyst: BS

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by MCP 8260B for sample(s): 01-03 Batch: WG298110-3				

o-Chlorotoluene	ND		ug/l	2.5
p-Chlorotoluene	ND		ug/l	2.5
Hexachlorobutadiene	ND		ug/l	0.60
1,2,4-Trichlorobenzene	ND		ug/l	2.5

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	93		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	102		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: RAYTHEON WAYLAND

Project Number: 0061882

Lab Number: L0714855

Report Date: 10/15/07

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B Associated sample(s): 01-03 Batch: WG298110-1 WG298110-2					
Methylene chloride	86	84	70-130	2	25
1,1-Dichloroethane	82	83	70-130	1	25
Chloroform	84	86	70-130	2	25
Carbon tetrachloride	79	79	70-130	0	25
1,2-Dichloropropane	81	84	70-130	4	25
Dibromochloromethane	86	86	70-130	0	25
1,1,2-Trichloroethane	77	80	70-130	4	25
Tetrachloroethene	81	82	70-130	1	25
Chlorobenzene	80	83	70-130	4	25
1,2-Dichloroethane	81	82	70-130	1	25
1,1,1-Trichloroethane	82	84	70-130	2	25
Bromodichloromethane	83	83	70-130	0	25
trans-1,3-Dichloropropene	77	78	70-130	1	25
cis-1,3-Dichloropropene	82	84	70-130	2	25
Bromoform	85	86	70-130	1	50
1,1,1,2-Tetrachloroethane	89	93	70-130	4	25
Chloromethane	88	88	70-130	0	50
Vinyl chloride	82	86	70-130	5	25
Chloroethane	83	86	70-130	4	25
1,1-Dichloroethene	82	87	70-130	6	25
trans-1,2-Dichloroethene	84	88	70-130	5	25

Lab Control Sample Analysis

Batch Quality Control

Project Name: RAYTHEON WAYLAND
Project Number: 0061882

Lab Number: L0714855
Report Date: 10/15/07

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B Associated sample(s): 01-03 Batch: WG298110-1 WG298110-2					
Trichloroethene	77	80	70-130	4	25
1,2-Dichlorobenzene	82	82	70-130	0	25
1,3-Dichlorobenzene	84	84	70-130	0	25
1,4-Dichlorobenzene	85	84	70-130	1	25
cis-1,2-Dichloroethene	83	84	70-130	1	25
Dichlorodifluoromethane	100	103	70-130	3	50
2,2-Dichloropropane	88	90	70-130	2	50
1,2-Dibromoethane	80	82	70-130	2	25
1,3-Dichloropropane	79	81	70-130	3	25
1,1,1,2-Tetrachloroethane	78	79	70-130	1	25
o-Chlorotoluene	80	82	70-130	2	25
p-Chlorotoluene	82	84	70-130	2	25
Hexachlorobutadiene	79	85	70-130	7	25
1,2,4-Trichlorobenzene	77	80	70-130	4	25

Surrogate	LCS %Recovery Qualifier	LCSD %Recovery Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99	100	70-130
Toluene-d8	97	97	70-130
4-Bromofluorobenzene	100	98	70-130
Dibromofluoromethane	105	105	70-130



Project Name: RAYTHEON WAYLAND**Lab Number:** L0714855**Project Number:** 0061882**Report Date:** 10/15/07**Sample Receipt and Container Information**

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp	Pres	Seal	Analysis
L0714855-01A	Vial HCl preserved	A	N/A	2C	Y	Absent	MCP-8260-04
L0714855-01B	Vial HCl preserved	A	N/A	2C	Y	Absent	MCP-8260-04
L0714855-02A	Vial HCl preserved	A	N/A	2C	Y	Absent	MCP-8260-04
L0714855-02B	Vial HCl preserved	A	N/A	2C	Y	Absent	MCP-8260-04
L0714855-03A	Vial HCl preserved	A	N/A	2C	Y	Absent	MCP-8260-04
L0714855-03B	Vial HCl preserved	A	N/A	2C	Y	Absent	MCP-8260-04

Container Comments

L0714855-01A	Temp Probe
L0714855-01B	Temp Probe
L0714855-02A	Temp Probe
L0714855-02B	Temp Probe
L0714855-03A	Temp Probe
L0714855-03B	Temp Probe

Project Name: RAYTHEON WAYLAND
Project Number: 0061882

Lab Number: L0714855
Report Date: 10/15/07

GLOSSARY

Acronyms

- EPA - Environmental Protection Agency.
 LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
 LCSD- Laboratory Control Sample Duplicate: Refer to LCS.
 MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
 MSD - Matrix Spike Sample Duplicate: Refer to MS.
 NA - Not Applicable.
 NI - Not Ignitable.
 NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
 ND - Not detected at the reported detection limit for the sample.
 RDL - Reported Detection Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
 RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

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

- A - Spectra identified as "Aldol Condensation Product".
 B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte.
 E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
 J - Estimated value. The analyte was tentatively identified; the quantitation is an estimation. (Tentatively identified compounds only.)

Standard Qualifiers

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

Report Format: Not Specified



Project Name: RAYTHEON WAYLAND
Project Number: 0061882

Lab Number: L0714855
Report Date: 10/15/07

REFERENCES

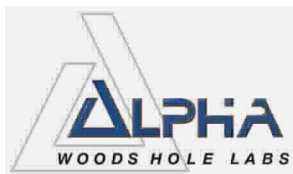
- 60 Quality Assurance and Quality Control Requirements and Performance Standards for SW-846 Methods. MADEP BWSC. WSC-CAM-IIA (Revision 4), WSC-CAM-V C (Revision 2), WSC-CAM-IIIA (Revision 5). May 2004.

LIMITATION OF LIABILITIES

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

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





ANALYTICAL REPORT

Lab Number: L0714605

Client: ERM-New England
399 Boylston Street
6th Floor
Boston, MA 02116

ATTN: Jeremy Picard

Project Name: RAYTHEON WAYLAND

Project Number: 0061882

Report Date: 10/12/07

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

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com



Project Name: RAYTHEON WAYLAND
Project Number: 0061882

Lab Number: L0714605
Report Date: 10/12/07

Alpha Sample ID	Client ID	Sample Location
L0714605-01	MW-264M-20071002-01	WAYLAND, MA



Project Name: RAYTHEON WAYLAND

Lab Number: L0714605

Project Number: 0061882

Report Date: 10/12/07

MADEP MCP Response Action Analytical Report Certification

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

An affirmative response to questions A, B, C & D is required for "Presumptive Certainty" status		
A	Were all samples received by the laboratory in a condition consistent with those described on their Chain-of-Custody documentation for the data set?	YES
B	Were all QA/QC procedures required for the specified analytical methods(s) included in this report followed, including the requirement to note and discuss in a narrative QC data that did not meet appropriate performance standards or guidelines?	YES
C	Does the analytical data included in this report meet all the requirements for "Presumptive Certainty", as described in section 2.0 of the MADEP document CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	YES
D	VPH and EPH methods only: Was the VPH or EPH method run without significant modifications, as specified in Section 11.3?	N/A
A response to questions E and F is required for "Presumptive Certainty" status		
E	Were all QC performance standards and recommendations for the specified method(s) achieved?	NO
F	Were results for all analyte-list compounds/elements for the specified method(s) reported?	NO
For any questions answered "No", please refer to the case narrative section on the following page(s).		

Please note that sample matrix information is located in the Sample Results section of this report.



Project Name: RAYTHEON WAYLAND
Project Number: 0061882

Lab Number: L0714605
Report Date: 10/12/07

Case Narrative

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

MCP Related Narratives

Volatile Organics

L0714605-01 has elevated detection limits due to the dilutions required by the elevated concentrations of target compounds in the sample.

In reference to question E:

The WG297742-1/-2 LCS/LCSD % recoveries for Dichlorodifluoromethane are below, and the LCS/LCSD % recoveries for 1,4-Dioxane are above, the individual acceptance criteria for the compounds, but within the overall method allowances. These are both difficult analytes.

In reference to question F:

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

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: 

Title: Technical Director/Representative

Date: 10/12/07

ORGANICS

VOLATILES

Project Name: RAYTHEON WAYLAND**Lab Number:** L0714605**Project Number:** 0061882**Report Date:** 10/12/07**SAMPLE RESULTS**

Lab ID: L0714605-01
Client ID: MW-264M-20071002-01
Sample Location: WAYLAND, MA
Matrix: Water
Anaytical Method: 60,8260B
Analytical Date: 10/11/07 19:27
Analyst: BS

Date Collected: 10/02/07 15:20
Date Received: 10/03/07
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
Methylene chloride	ND		ug/l	10	2
1,1-Dichloroethane	ND		ug/l	1.5	2
Chloroform	ND		ug/l	1.5	2
Carbon tetrachloride	ND		ug/l	1.0	2
1,2-Dichloropropane	ND		ug/l	3.5	2
Dibromochloromethane	ND		ug/l	1.0	2
1,1,2-Trichloroethane	ND		ug/l	1.5	2
Tetrachloroethene	11		ug/l	1.0	2
Chlorobenzene	ND		ug/l	1.0	2
1,2-Dichloroethane	ND		ug/l	1.0	2
1,1,1-Trichloroethane	ND		ug/l	1.0	2
Bromodichloromethane	ND		ug/l	1.0	2
trans-1,3-Dichloropropene	ND		ug/l	1.0	2
cis-1,3-Dichloropropene	ND		ug/l	1.0	2
Bromoform	ND		ug/l	4.0	2
1,1,2,2-Tetrachloroethane	ND		ug/l	1.0	2
Chloromethane	ND		ug/l	5.0	2
Vinyl chloride	12		ug/l	2.0	2
Chloroethane	ND		ug/l	2.0	2
1,1-Dichloroethene	ND		ug/l	1.0	2
trans-1,2-Dichloroethene	ND		ug/l	1.5	2
Trichloroethene	34		ug/l	1.0	2
1,2-Dichlorobenzene	ND		ug/l	5.0	2
1,3-Dichlorobenzene	ND		ug/l	5.0	2
1,4-Dichlorobenzene	ND		ug/l	5.0	2
cis-1,2-Dichloroethene	150		ug/l	1.0	2
Dichlorodifluoromethane	ND		ug/l	10	2
2,2-Dichloropropane	ND		ug/l	5.0	2
1,2-Dibromoethane	ND		ug/l	4.0	2
1,3-Dichloropropane	ND		ug/l	5.0	2

Project Name: RAYTHEON WAYLAND**Lab Number:** L0714605**Project Number:** 0061882**Report Date:** 10/12/07**SAMPLE RESULTS**

Lab ID: L0714605-01
 Client ID: MW-264M-20071002-01
 Sample Location: WAYLAND, MA

Date Collected: 10/02/07 15:20
 Date Received: 10/03/07
 Field Prep: Not Specified

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	110		70-130
Toluene-d8	93		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	109		70-130

Project Name: RAYTHEON WAYLAND
Project Number: 0061882

Lab Number: L0714605
Report Date: 10/12/07

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 60,8260B
Analytical Date: 10/11/07 14:50
Analyst: BS

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by MCP 8260B for sample(s): 01 Batch: WG297742-3				
Methylene chloride	ND		ug/l	5.0
1,1-Dichloroethane	ND		ug/l	0.75
Chloroform	ND		ug/l	0.75
Carbon tetrachloride	ND		ug/l	0.50
1,2-Dichloropropane	ND		ug/l	1.8
Dibromochloromethane	ND		ug/l	0.50
1,1,2-Trichloroethane	ND		ug/l	0.75
Tetrachloroethene	ND		ug/l	0.50
Chlorobenzene	ND		ug/l	0.50
Trichlorofluoromethane	ND		ug/l	2.5
1,2-Dichloroethane	ND		ug/l	0.50
1,1,1-Trichloroethane	ND		ug/l	0.50
Bromodichloromethane	ND		ug/l	0.50
trans-1,3-Dichloropropene	ND		ug/l	0.50
cis-1,3-Dichloropropene	ND		ug/l	0.50
1,1-Dichloropropene	ND		ug/l	2.5
Bromoform	ND		ug/l	2.0
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50
Benzene	ND		ug/l	0.50
Toluene	ND		ug/l	0.75
Ethylbenzene	ND		ug/l	0.50
Chloromethane	ND		ug/l	2.5
Bromomethane	ND		ug/l	1.0
Vinyl chloride	ND		ug/l	1.0
Chloroethane	ND		ug/l	1.0
1,1-Dichloroethene	ND		ug/l	0.50
trans-1,2-Dichloroethene	ND		ug/l	0.75
Trichloroethene	ND		ug/l	0.50
1,2-Dichlorobenzene	ND		ug/l	2.5
1,3-Dichlorobenzene	ND		ug/l	2.5
1,4-Dichlorobenzene	ND		ug/l	2.5

Project Name: RAYTHEON WAYLAND
Project Number: 0061882

Lab Number: L0714605
Report Date: 10/12/07

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 60,8260B
Analytical Date: 10/11/07 14:50
Analyst: BS

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by MCP 8260B for sample(s): 01 Batch: WG297742-3				
Methyl tert butyl ether	ND		ug/l	1.0
p/m-Xylene	ND		ug/l	1.0
o-Xylene	ND		ug/l	1.0
cis-1,2-Dichloroethene	ND		ug/l	0.50
Dibromomethane	ND		ug/l	5.0
1,2,3-Trichloropropane	ND		ug/l	5.0
Styrene	ND		ug/l	1.0
Dichlorodifluoromethane	ND		ug/l	5.0
Acetone	ND		ug/l	5.0
Carbon disulfide	ND		ug/l	5.0
2-Butanone	ND		ug/l	5.0
4-Methyl-2-pentanone	ND		ug/l	5.0
2-Hexanone	ND		ug/l	5.0
Bromochloromethane	ND		ug/l	2.5
Tetrahydrofuran	ND		ug/l	10
2,2-Dichloropropane	ND		ug/l	2.5
1,2-Dibromoethane	ND		ug/l	2.0
1,3-Dichloropropane	ND		ug/l	2.5
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50
Bromobenzene	ND		ug/l	2.5
n-Butylbenzene	ND		ug/l	0.50
sec-Butylbenzene	ND		ug/l	0.50
tert-Butylbenzene	ND		ug/l	2.5
o-Chlorotoluene	ND		ug/l	2.5
p-Chlorotoluene	ND		ug/l	2.5
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5
Hexachlorobutadiene	ND		ug/l	0.60
Isopropylbenzene	ND		ug/l	0.50
p-Isopropyltoluene	ND		ug/l	0.50
Naphthalene	ND		ug/l	2.5
n-Propylbenzene	ND		ug/l	0.50

Project Name: RAYTHEON WAYLAND
Project Number: 0061882

Lab Number: L0714605
Report Date: 10/12/07

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 60,8260B
Analytical Date: 10/11/07 14:50
Analyst: BS

Parameter	Result	Qualifier	Units	RDL
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Volatile Organics by MCP 8260B for sample(s): 01 Batch: WG297742-3

1,2,3-Trichlorobenzene	ND		ug/l	2.5
1,2,4-Trichlorobenzene	ND		ug/l	2.5
1,3,5-Trimethylbenzene	ND		ug/l	2.5
1,2,4-Trimethylbenzene	ND		ug/l	2.5
Ethyl ether	ND		ug/l	2.5
Isopropyl Ether	ND		ug/l	2.0
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.0
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0
1,4-Dioxane	ND		ug/l	250

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	106		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	104		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: RAYTHEON WAYLAND

Project Number: 0061882

Lab Number: L0714605

Report Date: 10/12/07

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B Associated sample(s): 01 Batch: WG297742-1 WG297742-2					
Methylene chloride	100	96	70-130	4	25
1,1-Dichloroethane	105	99	70-130	6	25
Chloroform	112	106	70-130	6	25
Carbon tetrachloride	124	118	70-130	5	25
1,2-Dichloropropane	104	99	70-130	5	25
Dibromochloromethane	107	103	70-130	4	25
1,1,2-Trichloroethane	99	95	70-130	4	25
Tetrachloroethene	116	111	70-130	4	25
Chlorobenzene	105	100	70-130	5	25
Trichlorofluoromethane	124	115	70-130	8	25
1,2-Dichloroethane	111	110	70-130	1	25
1,1,1-Trichloroethane	117	111	70-130	5	25
Bromodichloromethane	111	107	70-130	4	25
trans-1,3-Dichloropropene	103	99	70-130	4	25
cis-1,3-Dichloropropene	107	105	70-130	2	25
1,1-Dichloropropene	108	102	70-130	6	25
Bromoform	110	108	70-130	2	50
1,1,2,2-Tetrachloroethane	92	91	70-130	1	25
Benzene	104	100	70-130	4	25
Toluene	101	98	70-130	3	25
Ethylbenzene	105	100	70-130	5	25

Lab Control Sample Analysis

Batch Quality Control

Project Name: RAYTHEON WAYLAND

Project Number: 0061882

Lab Number: L0714605

Report Date: 10/12/07

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B Associated sample(s): 01 Batch: WG297742-1 WG297742-2					
Chloromethane	77	72	70-130	7	50
Bromomethane	97	94	70-130	3	50
Vinyl chloride	88	81	70-130	8	25
Chloroethane	108	100	70-130	8	25
1,1-Dichloroethene	113	105	70-130	7	25
trans-1,2-Dichloroethene	106	102	70-130	4	25
Trichloroethene	110	105	70-130	5	25
1,2-Dichlorobenzene	97	96	70-130	1	25
1,3-Dichlorobenzene	102	100	70-130	2	25
1,4-Dichlorobenzene	99	100	70-130	1	25
Methyl tert butyl ether	103	100	70-130	3	25
p/m-Xylene	107	103	70-130	4	25
o-Xylene	110	104	70-130	6	25
cis-1,2-Dichloroethene	108	103	70-130	5	25
Dibromomethane	111	111	70-130	0	25
1,2,3-Trichloropropane	102	102	70-130	0	25
Styrene	108	104	70-130	4	25
Dichlorodifluoromethane	65	60	70-130	8	50
Acetone	120	102	70-130	16	50
Carbon disulfide	95	89	70-130	7	25
2-Butanone	100	98	70-130	2	50

Lab Control Sample Analysis

Batch Quality Control

Project Name: RAYTHEON WAYLAND

Project Number: 0061882

Lab Number: L0714605

Report Date: 10/12/07

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B Associated sample(s): 01 Batch: WG297742-1 WG297742-2					
4-Methyl-2-pentanone	95	98	70-130	3	50
2-Hexanone	91	87	70-130	4	50
Bromochloromethane	113	109	70-130	4	25
Tetrahydrofuran	98	91	70-130	7	25
2,2-Dichloropropane	120	111	70-130	8	50
1,2-Dibromoethane	104	99	70-130	5	25
1,3-Dichloropropane	98	95	70-130	3	25
1,1,1,2-Tetrachloroethane	111	106	70-130	5	25
Bromobenzene	103	102	70-130	1	25
n-Butylbenzene	100	95	70-130	5	25
sec-Butylbenzene	106	102	70-130	4	25
tert-Butylbenzene	106	104	70-130	2	25
o-Chlorotoluene	98	97	70-130	1	25
p-Chlorotoluene	98	94	70-130	4	25
1,2-Dibromo-3-chloropropane	83	89	70-130	7	50
Hexachlorobutadiene	79	74	70-130	7	25
Isopropylbenzene	118	113	70-130	4	25
p-Isopropyltoluene	108	104	70-130	4	25
Naphthalene	81	83	70-130	2	25
n-Propylbenzene	104	101	70-130	3	25
1,2,3-Trichlorobenzene	87	86	70-130	1	25

Lab Control Sample Analysis

Batch Quality Control

Project Name: RAYTHEON WAYLAND

Project Number: 0061882

Lab Number: L0714605

Report Date: 10/12/07

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B Associated sample(s): 01 Batch: WG297742-1 WG297742-2					
1,2,4-Trichlorobenzene	90	88	70-130	2	25
1,3,5-Trimethylbenzene	105	102	70-130	3	25
1,2,4-Trimethylbenzene	104	101	70-130	3	25
Ethyl ether	102	99	70-130	3	25
Isopropyl Ether	96	94	70-130	2	25
Ethyl-Tert-Butyl-Ether	105	98	70-130	7	25
Tertiary-Amyl Methyl Ether	104	100	70-130	4	25
1,4-Dioxane	139	137	70-130	1	50

Surrogate	LCS %Recovery Qualifier	LCSD %Recovery Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103	102	70-130
Toluene-d8	96	96	70-130
4-Bromofluorobenzene	96	97	70-130
Dibromofluoromethane	105	103	70-130

Project Name: RAYTHEON WAYLAND**Lab Number:** L0714605**Project Number:** 0061882**Report Date:** 10/12/07**Sample Receipt and Container Information**

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp	Pres	Seal	Analysis
L0714605-01A	Vial HCl preserved	A	NA	3.9 C	Y	Absent	MCP-8260-04
L0714605-01B	Vial HCl preserved	A	NA	3.9 C	Y	Absent	MCP-8260-04

Project Name: RAYTHEON WAYLAND
Project Number: 0061882

Lab Number: L0714605
Report Date: 10/12/07

GLOSSARY

Acronyms

- EPA - Environmental Protection Agency.
 LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
 LCSD- Laboratory Control Sample Duplicate: Refer to LCS.
 MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
 MSD - Matrix Spike Sample Duplicate: Refer to MS.
 NA - Not Applicable.
 NI - Not Ignitable.
 NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
 ND - Not detected at the reported detection limit for the sample.
 RDL - Reported Detection Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
 RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

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

- A - Spectra identified as "Aldol Condensation Product".
 B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte.
 E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
 J - Estimated value. The analyte was tentatively identified; the quantitation is an estimation. (Tentatively identified compounds only.)

Standard Qualifiers

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

Project Name: RAYTHEON WAYLAND
Project Number: 0061882

Lab Number: L0714605
Report Date: 10/12/07

REFERENCES

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

LIMITATION OF LIABILITIES

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

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



