Environmental
Resources
Management

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

FILE COPY

1 April 2008
Reference: 0079387

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

ERM

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 2 wells on portions of the Site within the boundaries of your property on 6 March 2008. The two samples were submitted for laboratory analysis of volatile organic compounds, total organic carbon, and dissolved methane, ethane, and ethene gases. One of the samples was also submitted for laboratory analysis for total phosphorus, sulfate, nitrate, dissolved iron, and Q-gene-Trac DHE and VC. Sample analysis was conducted by three laboratories, Alpha Woods Hole Laboratories of Westborough, Massachusetts, Microseeps Inc. of Pittsburgh Pennsylvania, and SiREM Laboratory of Guelph, Ontario. 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).

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

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

Enclosures: BWSC-123 – Notice of Environmental Sampling
Alpha Woods Hole Laboratories Reports
Microseeps Inc. Laboratory Reports
SiREM Laboratory 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

3 | 22408

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: Congress Group

2. Street Address: 33 Arch Street

City/Town: Boston Zip Code: 02110

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:

☐ Immediate Response Action
☐ Release Abatement Measure
☐ Utility-related Abatement Measure
☐ Phase I Initial Site Investigation
☐ Phase II Comprehensive Site Assessment
☐ Phase III Feasibility Evaluation
☐ Phase IV Remedy Implementation Plan
☑ Phase V/Remedy Operation Status
☐ Post-Class C Operation, Maintenance and Monitoring
☐ 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.

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, MS 2-2124-01

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:	L0803223
Client:	ERM-New England 399 Boylston Street 6th Floor Boston, MA 02116
ATTN:	Jason Flattery
Project Name:	RAYTHEON-WAYLAND
Project Number:	0079387
Report Date:	03/14/08

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: 0079387

Lab Number: L0803223
Report Date: 03/14/08

Alpha Sample ID	Client ID	Sample Location
L0803223-01	DEP-19M-20080306-01	WAYLAND, MA
L0803223-02	MW-264M-20080306-01	WAYLAND, MA

Project Name: RAYTHEON-WAYLAND **Lab Number:** L0803223

Project Number: 0079387 **Report Date:** 03/14/08

MADEP MCP Response Action Analytical Report Certification

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

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

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

For any questions answered "No", please refer to the case narrative section on the following page(s).

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

Project Name:	RAYTHEON-WAYLAND	**Lab Number:**	L0803223
Project Number:	0079387	**Report Date:**	03/14/08

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

Report Submission

The analysis of Volatile Organics by Method 8260B was performed at our Mansfield facility. The report is included as an addendum, and the results can be viewed on ADEx under Alpha Job L0803479.

Sample Receipt

The samples were Field Filtered for Dissolved Metals only.

Metals

In reference to question F:

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: 

Title: Technical Director/Representative Date: 03/14/08

METALS

Project Name: RAYTHEON-WAYLAND
Lab Number: L0803223
Project Number: 0079387
Report Date: 03/14/08

SAMPLE RESULTS

Lab ID: L0803223-02
Client ID: MW-264M-20080306-01
Sample Location: WAYLAND, MA
Matrix: Water

Date Collected: 03/06/08 14:45
Date Received: 03/07/08
Field Prep: Field FIltered

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals by MCP 6000/7000 series										
Iron, Dissolved	11		mg/l	0.05	1	03/08/08 13:45	03/10/08 13:43	EPA 3005A	60,6010B	AI

Project Name: RAYTHEON-WAYLAND **Lab Number:** L0803223

Project Number: 0079387 **Report Date:** 03/14/08

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Dissolved Metals by MCP 6000/7000 series for sample(s): 02 Batch: WG313976-1									
Iron, Dissolved	ND		mg/l	0.05	1	03/08/08 13:45	03/10/08 13:13	60,6010B	AI

Prep Information

Digestion Method: EPA 3005A

Lab Control Sample Analysis

Batch Quality Control

Project Name: RAYTHEON-WAYLAND

Project Number: 0079387

Lab Number: L0803223

Report Date: 03/14/08

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Dissolved Metals by MCP 6000/7000 series	Associated sample(s): 02	Batch: WG313976-2	WG313976-3		
Iron, Dissolved	94	92	80-120	2	20

INORGANICS
&
MISCELLANEOUS

Project Name: RAYTHEON-WAYLAND
Project Number: 0079387
Lab Number: L0803223
Report Date: 03/14/08

SAMPLE RESULTS

Lab ID: L0803223-01
Client ID: DEP-19M-20080306-01
Sample Location: WAYLAND, MA
Matrix: Water
Date Collected: 03/06/08 16:15
Date Received: 03/07/08
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry									
Total Organic Carbon	1.0		mg/l	0.50	1	-	03/14/08 06:20	1,9060	DW

Project Name: RAYTHEON-WAYLAND
Project Number: 0079387
Lab Number: L0803223
Report Date: 03/14/08

SAMPLE RESULTS

Lab ID: L0803223-02
Client ID: MW-264M-20080306-01
Sample Location: WAYLAND, MA
Matrix: Water

Date Collected: 03/06/08 14:45
Date Received: 03/07/08
Field Prep: Field FIltered

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry									
Nitrogen, Nitrate	ND		mg/l	0.10	1	-	03/07/08 21:02	30,4500NO3-F	DD
Phosphorus, Total	0.05		mg/l	0.01	1	-	03/11/08 15:00	30,4500P-E	HS
Sulfate	28		mg/l	10	1	03/11/08 14:30	03/11/08 14:30	1,9038	ST
Total Organic Carbon	1.3		mg/l	0.50	1	-	03/14/08 06:20	1,9060	DW

Project Name: RAYTHEON-WAYLAND **Lab Number:** L0803223

Project Number: 0079387 **Report Date:** 03/14/08

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry for sample(s): 02 Batch: WG313918-2									
Nitrogen, Nitrate	ND		mg/l	0.10	1	-	03/07/08 20:38	30,4500NO3-F	DD
General Chemistry for sample(s): 02 Batch: WG314166-1									
Sulfate	ND		mg/l	10	1	03/11/08 14:30	03/11/08 14:30	1,9038	ST
General Chemistry for sample(s): 02 Batch: WG314220-1									
Phosphorus, Total	ND		mg/l	0.01	1	-	03/11/08 15:00	30,4500P-E	HS
General Chemistry for sample(s): 01-02 Batch: WG314534-1									
Total Organic Carbon	ND		mg/l	0.50	1	-	03/14/08 06:20	1,9060	DW

Lab Control Sample Analysis

Batch Quality Control

Project Name: RAYTHEON-WAYLAND

Project Number: 0079387

Lab Number: L0803223

Report Date: 03/14/08

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Associated sample(s): 02 Batch: WG313918-1					
Nitrogen, Nitrate	102	-	90-110	-	
Associated sample(s): 02 Batch: WG314166-2					
Sulfate	105	-	84-108	-	
Associated sample(s): 02 Batch: WG314220-2					
Phosphorus, Total	105	-	85-115	-	
Associated sample(s): 01-02 Batch: WG314534-2					
Total Organic Carbon	98	-	90-110	-	

Matrix Spike Analysis
Batch Quality Control

Project Name: RAYTHEON-WAYLAND
Project Number: 0079387

Lab Number: L0803223
Report Date: 03/14/08

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Associated sample(s): 02 QC Batch ID: WG313918-3 QC Sample: L0803212-02 Client ID: MS Sample									
Nitrogen, Nitrate	11	4	15	100	-	-	83-120	-	6
Associated sample(s): 02 QC Batch ID: WG314166-3 QC Sample: L0803236-11 Client ID: MS Sample									
Sulfate	25	40	70	112	-	-	55-147	-	14
Associated sample(s): 02 QC Batch ID: WG314220-4 QC Sample: L0803236-02 Client ID: MS Sample									
Phosphorus, Total	ND	0.5	0.49	99	-	-	80-120	-	20
Associated sample(s): 01-02 QC Batch ID: WG314534-3 QC Sample: L0803236-06 Client ID: MS Sample									
Total Organic Carbon	1.2	4	5.0	94	-	-	80-120	-	20

Lab Duplicate Analysis
Batch Quality Control

Project Name: RAYTHEON-WAYLAND
Project Number: 0079387

Lab Number: L0803223
Report Date: 03/14/08

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Associated sample(s): 02 QC Batch ID: WG313918-4 QC Sample: L0803212-01 Client ID: DUP Sample					
Nitrogen, Nitrate	12	12	mg/l	0	6
Associated sample(s): 02 QC Batch ID: WG314166-4 QC Sample: L0803236-11 Client ID: DUP Sample					
Sulfate	25	24	mg/l	4	14
Associated sample(s): 02 QC Batch ID: WG314220-3 QC Sample: L0803236-01 Client ID: DUP Sample					
Phosphorus, Total	0.04	0.04	mg/l	5	20
Associated sample(s): 01-02 QC Batch ID: WG314534-4 QC Sample: L0803236-04 Client ID: DUP Sample					
Total Organic Carbon	1.1	1.0	mg/l	10	20

Project Name: RAYTHEON-WAYLAND
Project Number: 0079387

Lab Number: L0803223
Report Date: 03/14/08

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
L0803223-01A	Vial HCl preserved	A	N/A	2.2C	Y	Absent	SUB-MAN-8260
L0803223-01B	Vial HCl preserved	A	N/A	2.2C	Y	Absent	SUB-MAN-8260
L0803223-01C	Vial H2SO4 preserved	A	N/A	2.2C	Y	Absent	TOC-9060
L0803223-01D	Vial H2SO4 preserved	A	N/A	2.2C	Y	Absent	TOC-9060
L0803223-02A	Vial HCl preserved	A	N/A	2.2C	Y	Absent	SUB-MAN-8260
L0803223-02B	Vial HCl preserved	A	N/A	2.2C	Y	Absent	SUB-MAN-8260
L0803223-02C	Vial H2SO4 preserved	A	N/A	2.2C	Y	Absent	TOC-9060
L0803223-02D	Vial H2SO4 preserved	A	N/A	2.2C	Y	Absent	TOC-9060
L0803223-02E	Plastic 250ml HNO3 preserved	A	<2	2.2C	Y	Absent	MCP-FE-6010S
L0803223-02F	Plastic 500ml unpreserved	A	7	2.2C	Y	Absent	NO3-4500,SO4-9038
L0803223-02G	Plastic 500ml H2SO4 preserved	A	<2	2.2C	Y	Absent	TPHOS-4500

Project Name:	RAYTHEON-WAYLAND	**Lab Number:**	L0803223
Project Number:	0079387	**Report Date:**	03/14/08

GLOSSARY

Acronyms

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NI - Not Ignitable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

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

RDL - Reported Detection Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

Terms

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

Data Qualifiers

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

A - Spectra identified as "Aldol Condensation Product".

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte.

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

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

Standard Qualifiers

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

Report Format: Not Specified

Project Name:	RAYTHEON-WAYLAND	**Lab Number:**	L0803223
Project Number:	0079387	**Report Date:**	03/14/08

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.

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

LIMITATION OF LIABILITIES

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

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

CHAIN OF CUSTODY

PAGE 1 OF 1

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

Date Rec'd in Lab: 3/7/08

ALPHA Job #: L0803223

Client Information

Client: ERM-Boston
Address: 399 Boylston St. 6th Floor Boston, MA 02116
Phone: 617-646-7800
Fax: 617-267-6447
Email: jason.flattery@erm.com
☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: Raytheon-Wayland
Project Location: Wayland, MA
Project #: 0079387
Project Manager: Jason Flattery
ALPHA Quote #:

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved!)
Date Due: 3/14/08 Time:

Report Information - Data Deliverables

☐ FAX ☒ EMAIL
☒ ADEx ☐ Add'l Deliverables

Billing Information

☒ Same as Client info PO #:

Regulatory Requirements/Report Limits

State /Fed Program	Criteria
MA MCP	Method 1 GW-1

MA MCP PRESUMPTIVE CERTAINTY --- CT REASONABLE CONFIDENCE PROTOCOLS

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

Other Project Specific Requirements/Comments/Detection Limits:

SAMPLE HANDLING

Filtration
☒ Done
☐ Not needed
☐ Lab to do
Preservation
☐ Lab to do
(Please specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	ANALYSIS: 8021B by 8260 (VOCs)	Total Phosphorus	Sulfate & Nitrate	Diss. Fe (field filtered)	TOC	Sample Specific Comments
03223.1	DEP-19M-20080306-01	3/6/08	16:15	GW	JDF	2				2	
2	MW-26M-20080306-01	3/6/08	14:45	GW	EB	2	1	1	1	2	
Container Type						V	P	P	P	V	
Preservative						3	C	A	HNO3	H2SO4	

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT MA MCP or CT RCP?

Relinquished By:	Date/Time	Received By:	Date/Time
C Ryan	3/7/08 1140	[signature]	3/7/08 1140
[signature]	3-7-08 1701	[signature]	3/7/08 1715

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

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

ANALYTICAL REPORT

Prepared for:
Alpha Analytical - Westborough
8 Walkup Drive
Westborough, MA 01581

Project:	L0803223 - ERM BOSTON
ETR:	0803046
Report Date:	March 14, 2008

Certifications and Accreditations
Massachusetts M-MA030
Connecticut PH-0141
New Hampshire 2206
Rhode Island LAO00289
New Jersey MA015
Maine MA0030
New York 11627
Louisiana 03090
Florida E87814
Pennsylvania 68-02089
Army Corps of Engineers
Department of the Navy

Sample ID Cross Reference

Client: **Alpha Analytical - Westborough** Lab Code: **MA00030**
Project: **L0803223 - ERM BOSTON** ETR: **0803046**

Lab Sample ID	Client Sample ID
0803046-01	DEP-19M-20080306-01
0803046-02	MW-264M-20080306-01

MADEP MCP Analytical Method Report Certification Form

Laboratory Name: Alpha Analytical

Project Number: 0803046

Project Location: MCP RTN #[1]:

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

0803046-01 through 0803046-02

Sample Matrices: [Groundwater] Soil/Sediment Drinking Water Other:

MCP SW-846 Methods used (as specified in MADEP Compendium of Analytical Methods)

Check all that apply:

8260B (X)	8151A ( )	8330 ( )	6010B ( )	7470A/1A ( )
8270C ( )	8081A ( )	VPH ( )	6020 ( )	9014M[2] ( )
8082 ( )	8021B ( )	EPH ( )	7000 S[3] ( )	Other:

[1] – List Release Tracking Number (RTN), if known.
[2]M – SW-846 Method 9014 or MADEP Physiologically Available Cyanide (PAC) Method.
[3]S – SW-846 Methods 7000 Series. List individual method and analyte.

	An affirmative response to question A, B, C and D is required for "Presumptive Certainty" status.		
A	Were all samples received by the laboratory in a condition consistent with that described on the Chain-of-Custody documentation for the data set?	[Yes]	No[1]
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]	No[1]
C	Does the data included in this report meet all the analytical requirements for "Presumptive Certainty", as described in Section 2.0 (a), (b), (c) and (d) of the MADEP document CAM VII A, "Quality Assurance and Quality Control Guidelines for Acquisition and Reporting of Analytical Data"?	[Yes]	No[1]
D	***VPH and EPH methods only***: Was the VPH or EPH method conducted without significant modifications (see Section 11.3 of respective Methods)?	Yes	No[1]
	A response to questions E and F below is required for "Presumptive Certainty" status.		
E	Were all analytical QC performance standards and recommendations for the specified methods achieved?	Yes	[No[1]]
F	Were results for all analyte-list compounds/elements for the specified method(s) reported?	Yes	[No[1]]

[1] *All Negative responses must be addressed in an attached Environmental Laboratory case narrative.*

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

Signature: Peter Henriksen **Position:** **Project Manager**

Printed Name: **Peter Henriksen** **Date:** **3-14-08**

CASE NARRATIVE
Alpha Analytical

ETR: 0803046
Project: L0803223-ERM BOSTON

All analyses were performed according to Alpha Analytical quality assurance program and documented Standard Operating Procedures (SOPs). The analytical results contained in this report were performed within holding time, and with appropriate quality control measures, except where noted. All soil/sediment results are reported on a dry weight basis unless otherwise noted. A summary of all state and federal accreditations is provided within this report. Blank correction of results is not performed in the laboratory for any parameter. Alpha Analytical certifies that the test results within meet all of the requirements of NELAC, for all NELAC accredited parameters.

Volatile Organics by 8260

1. The initial calibration had values for compounds outside of the 15% RSD QC advisory limit. Refer to the Form VI Initial Calibration Summary report for specific outliers. This initial calibration meets the acceptability criteria.

2. Per client request, only a subset of the MCP analyte list for SW-846 Method 8260B Volatile Organic Compounds by GC/MS were reported.

The enclosed results of analyses are representative of the samples as received by the laboratory. Alpha Analytical makes no representations or certifications as to the method of sample collection, sample identification, or transporting/handling procedures used prior to the receipt of samples by Alpha Analytical. To the best of my knowledge, the information contained in this report is accurate and complete. For any questions regarding this report, please contact the signatory below at 508-822-9300.

Approved by: _____ Title: ____**Project Manager**_____ Date: _3/14/08___
Peter Henriksen

VOLATILE ORGANICS

Form I
Volatile Organics by 8260

Client: **Alpha Analytical - Westborough**
Project: **L0803223 - ERM BOSTON**
Client ID: **DEP-19M-20080306-01**
Case: **N/A** SDG: **N/A**
Matrix: **Water**

Lab Code: **MA00030**
ETR: **0803046**
Lab ID: **0803046-01**
Associated Blank: **VW031208B02**
Concentration Units: **µg/L**

Date Collected	Date Received	Date Analyzed	Sample Amount (ml)	Final Volume (ml)	Dilution Factor	Analyst
03/06/08	03/11/08	03/12/08	5	5	1	ALM

Parameter	Result
Dichlorodifluoromethane	2.00 U
Chloromethane	2.00 U
Vinyl chloride	2.00 U
Chloroethane	2.00 U
1,1-Dichloroethene	2.00 U
Methylene chloride	5.00 U
trans-1,2-Dichloroethene	2.00 U
1,1-Dichloroethane	2.00 U
cis-1,2-Dichloroethene	**14.7**
1,1,1-Trichloroethane	2.00 U
Carbon tetrachloride	2.00 U
1,2-Dichloroethane	2.00 U
Trichloroethene	**2.65**
1,2-Dichloropropane	2.00 U
Bromodichloromethane	2.00 U
cis-1,3-Dichloropropene	2.00 U
trans-1,3-Dichloropropene	2.00 U
1,1,2-Trichloroethane	2.00 U
Tetrachloroethene	2.00 U
1,3-Dichloropropane	2.00 U
Dibromochloromethane	2.00 U
1,2-Dibromoethane	2.00 U
Chlorobenzene	2.00 U
1,1,1,2-Tetrachloroethane	2.00 U
Bromoform	2.00 U
1,1,2,2-Tetrachloroethane	2.00 U
2-Chlorotoluene	2.00 U
4-Chlorotoluene	2.00 U
1,3-Dichlorobenzene	2.00 U
1,4-Dichlorobenzene	2.00 U
1,2-Dichlorobenzene	2.00 U
1,2,4-Trichlorobenzene	2.00 U
Hexachlorobutadiene	2.00 U

Surrogate	% Recovery	Acceptance Range (%)
Dibromofluoromethane	101	70-130
1,2-Dichloroethane-d4	106	70-130
Toluene-d8	90	70-130
4-Bromofluorobenzene	98	70-130

N/A - Not Applicable
U - The analyte was analyzed for but not detected at the sample specific level reported.

Form I
Volatile Organics by 8260

Client: **Alpha Analytical - Westborough**
Project: **L0803223 - ERM BOSTON**
Client ID: **MW-264M-20080306-01**
Case: **N/A** SDG: **N/A**
Matrix: **Water**

Lab Code: **MA00030**
ETR: **0803046**
Lab ID: **0803046-02**
Associated Blank: **VW031308B08**
Concentration Units: **µg/L**

Date Collected	Date Received	Date Analyzed	Sample Amount (ml)	Final Volume (ml)	Dilution Factor	Analyst
03/06/08	03/11/08	03/13/08	5	5	1	ALM

Parameter	Result
Dichlorodifluoromethane	2.00 U
Chloromethane	2.00 U
Vinyl chloride	**2.74**
Chloroethane	2.00 U
1,1-Dichloroethene	2.00 U
Methylene chloride	5.00 U
trans-1,2-Dichloroethene	2.00 U
1,1-Dichloroethane	2.00 U
cis-1,2-Dichloroethene	**48.9**
1,1,1-Trichloroethane	2.00 U
Carbon tetrachloride	2.00 U
1,2-Dichloroethane	2.00 U
Trichloroethene	**43.9**
1,2-Dichloropropane	2.00 U
Bromodichloromethane	2.00 U
cis-1,3-Dichloropropene	2.00 U
trans-1,3-Dichloropropene	2.00 U
1,1,2-Trichloroethane	2.00 U
Tetrachloroethene	**8.05**
1,3-Dichloropropane	2.00 U
Dibromochloromethane	2.00 U
1,2-Dibromoethane	2.00 U
Chlorobenzene	2.00 U
1,1,1,2-Tetrachloroethane	2.00 U
Bromoform	2.00 U
1,1,2,2-Tetrachloroethane	2.00 U
2-Chlorotoluene	2.00 U
4-Chlorotoluene	2.00 U
1,3-Dichlorobenzene	2.00 U
1,4-Dichlorobenzene	2.00 U
1,2-Dichlorobenzene	2.00 U
1,2,4-Trichlorobenzene	2.00 U
Hexachlorobutadiene	2.00 U

Surrogate	% Recovery	Acceptance Range (%)
Dibromofluoromethane	98	70-130
1,2-Dichloroethane-d4	98	70-130
Toluene-d8	88	70-130
4-Bromofluorobenzene	94	70-130

N/A - Not Applicable
U - The analyte was analyzed for but not detected at the sample specific level reported.

Form I
Volatile Organics by 8260

Client: **Alpha Analytical - Westborough**
Project: **L0803223 - ERM BOSTON**
Client ID: **Blank**
Case: **N/A** SDG: **N/A**
Matrix: **Water**

Lab Code: **MA00030**
ETR: **0803046**
Lab ID: **VW031208B02**
Associated Blank: **N/A**
Concentration Units: **µg/L**

Date Collected	Date Received	Date Analyzed	Sample Amount (ml)	Final Volume (ml)	Dilution Factor	Analyst
N/A	N/A	03/12/08	5	5	1	ALM

Parameter	Result
Dichlorodifluoromethane	2.00 U
Chloromethane	2.00 U
Vinyl chloride	2.00 U
Chloroethane	2.00 U
1,1-Dichloroethene	2.00 U
Methylene chloride	5.00 U
trans-1,2-Dichloroethene	2.00 U
1,1-Dichloroethane	2.00 U
cis-1,2-Dichloroethene	2.00 U
1,1,1-Trichloroethane	2.00 U
Carbon tetrachloride	2.00 U
1,2-Dichloroethane	2.00 U
Trichloroethene	2.00 U
1,2-Dichloropropane	2.00 U
Bromodichloromethane	2.00 U
cis-1,3-Dichloropropene	2.00 U
trans-1,3-Dichloropropene	2.00 U
1,1,2-Trichloroethane	2.00 U
Tetrachloroethene	2.00 U
1,3-Dichloropropane	2.00 U
Dibromochloromethane	2.00 U
1,2-Dibromoethane	2.00 U
Chlorobenzene	2.00 U
1,1,1,2-Tetrachloroethane	2.00 U
Bromoform	2.00 U
1,1,2,2-Tetrachloroethane	2.00 U
2-Chlorotoluene	2.00 U
4-Chlorotoluene	2.00 U
1,3-Dichlorobenzene	2.00 U
1,4-Dichlorobenzene	2.00 U
1,2-Dichlorobenzene	2.00 U
1,2,4-Trichlorobenzene	2.00 U
Hexachlorobutadiene	2.00 U

Surrogate	% Recovery	Acceptance Range (%)
Dibromofluoromethane	102	70-130
1,2-Dichloroethane-d4	101	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	96	70-130

N/A - Not Applicable
U - The analyte was analyzed for but not detected at the sample specific level reported.

Form I
Volatile Organics by 8260

Client: **Alpha Analytical - Westborough**
Project: **L0803223 - ERM BOSTON**
Client ID: **Blank**
Case: **N/A** SDG: **N/A**
Matrix: **Water**

Lab Code: **MA00030**
ETR: **0803046**
Lab ID: **VW031308B08**
Associated Blank: **N/A**
Concentration Units: **µg/L**

Date Collected	Date Received	Date Analyzed	Sample Amount (ml)	Final Volume (ml)	Dilution Factor	Analyst
N/A	N/A	03/13/08	5	5	1	ALM

Parameter	Result
Dichlorodifluoromethane	2.00 U
Chloromethane	2.00 U
Vinyl chloride	2.00 U
Chloroethane	2.00 U
1,1-Dichloroethene	2.00 U
Methylene chloride	5.00 U
trans-1,2-Dichloroethene	2.00 U
1,1-Dichloroethane	2.00 U
cis-1,2-Dichloroethene	2.00 U
1,1,1-Trichloroethane	2.00 U
Carbon tetrachloride	2.00 U
1,2-Dichloroethane	2.00 U
Trichloroethene	2.00 U
1,2-Dichloropropane	2.00 U
Bromodichloromethane	2.00 U
cis-1,3-Dichloropropene	2.00 U
trans-1,3-Dichloropropene	2.00 U
1,1,2-Trichloroethane	2.00 U
Tetrachloroethene	2.00 U
1,3-Dichloropropane	2.00 U
Dibromochloromethane	2.00 U
1,2-Dibromoethane	2.00 U
Chlorobenzene	2.00 U
1,1,1,2-Tetrachloroethane	2.00 U
Bromoform	2.00 U
1,1,2,2-Tetrachloroethane	2.00 U
2-Chlorotoluene	2.00 U
4-Chlorotoluene	2.00 U
1,3-Dichlorobenzene	2.00 U
1,4-Dichlorobenzene	2.00 U
1,2-Dichlorobenzene	2.00 U
1,2,4-Trichlorobenzene	2.00 U
Hexachlorobutadiene	2.00 U

Surrogate	% Recovery	Acceptance Range (%)
Dibromofluoromethane	97	70-130
1,2-Dichloroethane-d4	95	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	96	70-130

N/A - Not Applicable
U - The analyte was analyzed for but not detected at the sample specific level reported.

Form III
Spike Recovery Summary
Volatile Organics by 8260

Client: **Alpha Analytical - Westborough**
Project: **L0803223 - ERM BOSTON**
Client ID: **Laboratory Control Sample**
Case: **N/A** SDG: **N/A**
Matrix: **Water**

Lab Code: **MA00030**
ETR: **0803046**
Lab ID: **See Below**
Associated Blank: **VW031208B02**
Concentration Units: **µg/L**

Date Collected	Date Received	Date Analyzed	Sample Amount (ml)	Final Volume (ml)	Dilution Factor	Analyst
N/A	N/A	03/12/08	5	5	1	ALM

Lab ID: VW031208B02 VW031208LCS01 VW031208LCSD01

Parameter	Blank Conc.		LCS Conc.	LCS % Recovery	LCSD Conc.	LCSD % Recovery	% RPD	RPD Limit	% Recovery Limits
Dichlorodifluoromethane	2.00	U	21.6	108	21.0	105	3	25	70-130
Chloromethane	2.00	U	21.1	106	19.9	99	6	25	70-130
Vinyl chloride	2.00	U	22.2	111	22.1	111	0	25	70-130
Chloroethane	2.00	U	24.6	123	23.0	115	7	25	70-130
1,1-Dichloroethene	2.00	U	19.3	96	19.0	95	1	25	70-130
Methylene chloride	5.00	U	18.9	94	18.8	94	0	25	70-130
trans-1,2-Dichloroethene	2.00	U	19.5	97	18.9	94	3	25	70-130
1,1-Dichloroethane	2.00	U	19.5	97	18.9	94	3	25	70-130
cis-1,2-Dichloroethene	2.00	U	19.7	98	19.0	95	4	25	70-130
1,1,1-Trichloroethane	2.00	U	19.8	99	19.1	95	4	25	70-130
Carbon tetrachloride	2.00	U	19.4	97	18.7	94	3	25	70-130
1,2-Dichloroethane	2.00	U	19.6	98	19.5	98	1	25	70-130
Trichloroethene	2.00	U	20.1	100	19.5	98	3	25	70-130
1,2-Dichloropropane	2.00	U	19.4	97	19.5	97	0	25	70-130
Bromodichloromethane	2.00	U	19.7	99	19.2	96	3	25	70-130
cis-1,3-Dichloropropene	2.00	U	19.4	97	19.3	96	1	25	70-130
trans-1,3-Dichloropropene	2.00	U	19.4	97	19.1	96	2	25	70-130
1,1,2-Trichloroethane	2.00	U	19.6	98	19.4	97	1	25	70-130
Tetrachloroethene	2.00	U	20.3	102	19.4	97	5	25	70-130
1,3-Dichloropropane	2.00	U	19.7	99	19.4	97	1	25	70-130
Dibromochloromethane	2.00	U	19.6	98	20.0	100	2	25	70-130
1,2-Dibromoethane	2.00	U	19.6	98	19.5	98	1	25	70-130
Chlorobenzene	2.00	U	19.7	98	19.2	96	3	25	70-130
1,1,1,2-Tetrachloroethane	2.00	U	19.7	98	19.7	98	0	25	70-130
Bromoform	2.00	U	19.7	98	18.7	93	5	25	70-130
1,1,2,2-Tetrachloroethane	2.00	U	19.7	99	19.3	96	2	25	70-130
2-Chlorotoluene	2.00	U	19.8	99	19.0	95	4	25	70-130
4-Chlorotoluene	2.00	U	19.0	95	18.3	91	4	25	70-130
1,3-Dichlorobenzene	2.00	U	20.0	100	19.2	96	4	25	70-130
1,4-Dichlorobenzene	2.00	U	19.6	98	19.5	97	1	25	70-130
1,2-Dichlorobenzene	2.00	U	20.3	101	19.4	97	4	25	70-130
1,2,4-Trichlorobenzene	2.00	U	20.3	101	19.4	97	5	25	70-130
Hexachlorobutadiene	2.00	U	21.9	110	19.5	98	11	25	70-130

Surrogate	% Recovery		Acceptance Range (%)
Dibromofluoromethane	98	98	70-130
1,2-Dichloroethane-d4	97	97	70-130
Toluene-d8	100	102	70-130
4-Bromofluorobenzene	100	99	70-130

N/A - Not Applicable
U - The analyte was analyzed for but not detected at the sample specific level reported.

Concentrations reported as calculated values, which includes rounding for significant figures. Percent recoveries and RPD values are calculated from the unrounded result.

Form III
Spike Recovery Summary
Volatile Organics by 8260

Client: **Alpha Analytical - Westborough**
Project: **L0803223 - ERM BOSTON**
Client ID: **Laboratory Control Sample**
Case: **N/A** SDG: **N/A**
Matrix: **Water**

Lab Code: **MA00030**
ETR: **0803046**
Lab ID: **See Below**
Associated Blank: **VW031308B08**
Concentration Units: **µg/L**

Date Collected	Date Received	Date Analyzed	Sample Amount (ml)	Final Volume (ml)	Dilution Factor	Analyst
N/A	N/A	03/13/08	5	5	1	ALM

Lab ID: VW031308B08 VW031308LCS04 VW031308LCSD04

Parameter	Blank Conc.		LCS Conc.	LCS % Recovery	LCSD Conc.	LCSD % Recovery	% RPD	RPD Limit	% Recovery Limits
Dichlorodifluoromethane	2.00	U	17.8	89	17.8	89	0	25	70-130
Chloromethane	2.00	U	16.4	82	16.9	85	3	25	70-130
Vinyl chloride	2.00	U	18.3	92	18.5	93	1	25	70-130
Chloroethane	2.00	U	17.4	87	18.0	90	4	25	70-130
1,1-Dichloroethene	2.00	U	20.5	103	20.6	103	0	25	70-130
Methylene chloride	5.00	U	19.9	99	20.3	102	2	25	70-130
trans-1,2-Dichloroethene	2.00	U	18.8	94	20.0	100	6	25	70-130
1,1-Dichloroethane	2.00	U	19.3	96	19.8	99	3	25	70-130
cis-1,2-Dichloroethene	2.00	U	18.4	92	19.4	97	5	25	70-130
1,1,1-Trichloroethane	2.00	U	19.0	95	19.8	99	4	25	70-130
Carbon tetrachloride	2.00	U	19.1	95	19.7	99	3	25	70-130
1,2-Dichloroethane	2.00	U	18.6	93	18.7	94	1	25	70-130
Trichloroethene	2.00	U	19.9	99	20.4	102	3	25	70-130
1,2-Dichloropropane	2.00	U	20.6	103	20.3	102	1	25	70-130
Bromodichloromethane	2.00	U	19.2	96	19.9	100	4	25	70-130
cis-1,3-Dichloropropene	2.00	U	19.7	99	19.7	99	0	25	70-130
trans-1,3-Dichloropropene	2.00	U	19.3	97	19.5	98	1	25	70-130
1,1,2-Trichloroethane	2.00	U	19.8	99	19.8	99	0	25	70-130
Tetrachloroethene	2.00	U	21.3	106	22.2	111	4	25	70-130
1,3-Dichloropropane	2.00	U	19.5	98	19.6	98	0	25	70-130
Dibromochloromethane	2.00	U	19.9	99	20.1	100	1	25	70-130
1,2-Dibromoethane	2.00	U	19.9	99	20.6	103	3	25	70-130
Chlorobenzene	2.00	U	19.6	98	20.0	100	2	25	70-130
1,1,1,2-Tetrachloroethane	2.00	U	20.1	100	20.4	102	2	25	70-130
Bromoform	2.00	U	19.8	99	19.9	99	0	25	70-130
1,1,2,2-Tetrachloroethane	2.00	U	19.5	97	18.8	94	4	25	70-130
2-Chlorotoluene	2.00	U	19.0	95	19.9	100	5	25	70-130
4-Chlorotoluene	2.00	U	19.1	95	19.8	99	4	25	70-130
1,3-Dichlorobenzene	2.00	U	20.0	100	20.7	103	3	25	70-130
1,4-Dichlorobenzene	2.00	U	19.7	98	20.2	101	3	25	70-130
1,2-Dichlorobenzene	2.00	U	19.8	99	20.4	102	3	25	70-130
1,2,4-Trichlorobenzene	2.00	U	20.0	100	20.1	101	1	25	70-130
Hexachlorobutadiene	2.00	U	20.6	103	20.3	102	2	25	70-130

Surrogate	% Recovery		Acceptance Range (%)
Dibromofluoromethane	96	96	70-130
1,2-Dichloroethane-d4	90	90	70-130
Toluene-d8	100	100	70-130
4-Bromofluorobenzene	98	100	70-130

N/A - Not Applicable
U - The analyte was analyzed for but not detected at the sample specific level reported.

Concentrations reported as calculated values, which includes rounding for significant figures. Percent recoveries and RPD values are calculated from the unrounded result.

Supporting Quality Control Results

Form II
Surrogate Recovery
Volatile Organics by 8260

Client: **Alpha Analytical - Westborough**
Project: **L0803223 - ERM BOSTON**
Case: **N/A** SDG: **N/A**

Lab Code: **MA00030**
ETR: **0803046**
Matrix: **Water**

Client ID	Lab ID	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
LCS	VW031208LCS01	98	97	100	100
LCSD	VW031208LCSD01	98	97	102	99
Blank	VW031208B02	102	101	101	96
DEP-19M-20080306-01	0803046-01	101	106	90	98
LCS	VW031308LCS04	96	90	100	98
LCSD	VW031308LCSD04	96	90	100	100
Blank	VW031308B08	97	95	98	96
MW-264M-20080306-01	0803046-02	98	98	88	94

N/A - Not Applicable

Surrogate	QC Limit
Dibromofluoromethane	70-130
1,2-Dichloroethane-d4	70-130
Toluene-d8	70-130
4-Bromofluorobenzene	70-130

Form IV
Method Blank Summary
Volatile Organics by 8260

Client: **Alpha Analytical - Westborough**
Project: **L0803223 - ERM BOSTON**
Case: **N/A** SDG: **N/A**

Lab Code: **MA00030**
ETR: **0803046**
Lab ID: **VW031208B02**
Date Analyzed: **03/12/08 16:51**

Client ID	Lab ID	Date/Time Analyzed
LCS	VW031208LCS01	03/12/08 15:19
LCSD	VW031208LCSD01	03/12/08 15:50
DEP-19M-20080306-01	0803046-01	03/12/08 17:53

N/A - Not Applicable

Form IV
Method Blank Summary
Volatile Organics by 8260

Client: **Alpha Analytical - Westborough**
Project: **L0803223 - ERM BOSTON**

Case: **N/A** SDG: **N/A**

Lab Code: **MA00030**
ETR: **0803046**
Lab ID: **VW031308B08**
Date Analyzed: **03/13/08 18:52**

Client ID	Lab ID	Date/Time Analyzed
LCS	VW031308LCS04	03/13/08 17:20
LCSD	VW031308LCSD04	03/13/08 17:50
MW-264M-20080306-01	0803046-02	03/13/08 19:22

N/A - Not Applicable

Form V
Tune Summary
Volatile Organics by 8260

Client: **Alpha Analytical - Westborough**
Project: **L0803223 - ERM BOSTON**
Case: **N/A** SDG: **N/A**

Lab Code: **MA00030**
ETR: **0803046**
Lab ID: **T1031201**
Date Analyzed: **03/12/08 08:39**

Target Mass	Relative To Mass	Lower Limit %	Upper Limit %	Relative Abundance %	Raw Abundance	Result
50	95	15	40	21.4	45101	Pass
75	95	30	60	47.1	99181	Pass
95	95	100	100	100	210496	Pass
96	95	5	9	6.6	13976	Pass
173	174	0	2	0	0	Pass
174	95	50	100	69.2	145600	Pass
175	174	5	9	7.7	11160	Pass
176	174	95	101	97.7	142208	Pass
177	176	5	9	6.6	9418	Pass

Client ID	Lab ID	Date/Time Analyzed
Initial Calibration	I1031201	03/12/08 09:10
Initial Calibration	I1031202	03/12/08 09:41
Initial Calibration	I1031204	03/12/08 10:42
Initial Calibration	I1031205	03/12/08 11:13
Initial Calibration	I1031206	03/12/08 11:44
Initial Calibration	I1031207	03/12/08 14:17

N/A - Not Applicable

Form V
Tune Summary
Volatile Organics by 8260

Client: **Alpha Analytical - Westborough**
Project: **L0803223 - ERM BOSTON**
Case: **N/A** SDG: **N/A**

Lab Code: **MA00030**
ETR: **0803046**
Lab ID: **T1031202**
Date Analyzed: **03/12/08 13:47**

Target Mass	Relative To Mass	Lower Limit %	Upper Limit %	Relative Abundance %	Raw Abundance	Result
50	95	15	40	21.5	44045	Pass
75	95	30	60	46.4	94901	Pass
95	95	100	100	100	204693	Pass
96	95	5	9	6.9	14054	Pass
173	174	0	2	0	0	Pass
174	95	50	100	71.6	146475	Pass
175	174	5	9	7.5	11025	Pass
176	174	95	101	95.6	140075	Pass
177	176	5	9	6.4	8962	Pass

Client ID	Lab ID	Date/Time Analyzed
CCV	C1031201	03/12/08 14:48
LCS	VW031208LCS01	03/12/08 15:19
LCSD	VW031208LCSD01	03/12/08 15:50
Blank	VW031208B02	03/12/08 16:51
DEP-19M-20080306-01	0803046-01	03/12/08 17:53

N/A - Not Applicable

Form V
Tune Summary
Volatile Organics by 8260

Client: **Alpha Analytical - Westborough**
Project: **L0803223 - ERM BOSTON**
Case: **N/A** SDG: **N/A**

Lab Code: **MA00030**
ETR: **0803046**
Lab ID: **T1031301**
Date Analyzed: **03/13/08 08:44**

Target Mass	Relative To Mass	Lower Limit %	Upper Limit %	Relative Abundance %	Raw Abundance	Result
50	95	15	40	24.5	43397	Pass
75	95	30	60	51.1	90472	Pass
95	95	100	100	100	177152	Pass
96	95	5	9	6.1	10803	Pass
173	174	0	2	0	0	Pass
174	95	50	100	63.1	111861	Pass
175	174	5	9	7.8	8708	Pass
176	174	95	101	97.1	108616	Pass
177	176	5	9	6.4	6997	Pass

Client ID	Lab ID	Date/Time Analyzed
Initial Calibration	I1031301	03/13/08 11:42
Initial Calibration	I1031302	03/13/08 12:12
Initial Calibration	I1031303	03/13/08 12:43
Initial Calibration	I1031304	03/13/08 13:14
Initial Calibration	I1031305	03/13/08 13:45
Initial Calibration	I1031306	03/13/08 14:15

N/A - Not Applicable

Form V
Tune Summary
Volatile Organics by 8260

Client: **Alpha Analytical - Westborough**
Project: **L0803223 - ERM BOSTON**
Case: **N/A** SDG: **N/A**

Lab Code: **MA00030**
ETR: **0803046**
Lab ID: **T1031302**
Date Analyzed: **03/13/08 16:18**

Target Mass	Relative To Mass	Lower Limit %	Upper Limit %	Relative Abundance %	Raw Abundance	Result
50	95	15	40	20.6	42256	Pass
75	95	30	60	47	96448	Pass
95	95	100	100	100	205376	Pass
96	95	5	9	6.5	13449	Pass
173	174	0	2	0	0	Pass
174	95	50	100	68.7	141099	Pass
175	174	5	9	7.9	11150	Pass
176	174	95	101	96.6	136320	Pass
177	176	5	9	6.8	9229	Pass

Client ID	Lab ID	Date/Time Analyzed
CCV	C1031303	03/13/08 16:49
LCS	VW031308LCS04	03/13/08 17:20
LCSD	VW031308LCSD04	03/13/08 17:50
Blank	VW031308B08	03/13/08 18:52
MW-264M-20080306-01	0803046-02	03/13/08 19:22

N/A - Not Applicable

Form VI
Initial Calibration Summary
Volatile Organics by 8260

Client: **Alpha Analytical - Westborough** Lab Code: **MA00030**
Project: **L0803223 - ERM BOSTON** ETR: **0803046**
Case: **N/A** SDG: **N/A**

Lab ID	Date/Time Analyzed
I1031201	03/12/08 09:10
I1031202	03/12/08 09:41
I1031204	03/12/08 10:42
I1031205	03/12/08 11:13
I1031206	03/12/08 11:44
I1031207	03/12/08 14:17

	Response Factors							
Parameter	**2**	**5**	**50**	**100**	**200**	**20**	**Mean**	**% RSD**
Dichlorodifluoromethane	0.88	1.12	1.34	1.53	1.37	1.51	1.29	19.2[a]
Chloromethane	0.99	1.26	1.35	1.54	1.39	1.48	1.34	14.7
Vinyl chloride	0.65	0.84	0.92	1.05	0.99	1.02	0.91	16.3
Chloroethane	0.32	0.43	0.42	0.48	0.23	0.47	0.39	24.5[a]
1,1-Dichloroethene	1.42	1.48	1.52	1.45	1.34	1.35	1.43	5.1
Methylene chloride		1.17	1.09	1.08	1.04	1.04	1.08	5.1
trans-1,2-Dichloroethene	1.32	1.55	1.56	1.50	1.40	1.39	1.45	6.6
1,1-Dichloroethane	1.80	2.02	1.92	1.87	1.75	1.78	1.86	5.4
cis-1,2-Dichloroethene	1.48	1.61	1.65	1.54	1.51	1.48	1.55	4.6
1,1,1-Trichloroethane	1.30	1.52	1.51	1.48	1.41	1.40	1.44	5.8
Carbon tetrachloride	1.27	1.41	1.39	1.37	1.29	1.30	1.34	4.3
1,2-Dichloroethane	1.41	1.63	1.56	1.53	1.40	1.43	1.50	6.3
Trichloroethene	0.44	0.48	0.47	0.46	0.47	0.45	0.46	3.2
1,2-Dichloropropane	0.48	0.53	0.50	0.49	0.49	0.47	0.49	3.8
Bromodichloromethane	0.66	0.71	0.69	0.68	0.69	0.65	0.68	3.0
cis-1,3-Dichloropropene	0.74	0.82	0.82	0.81	0.80	0.77	0.79	4.0
trans-1,3-Dichloropropene	0.60	0.74	0.75	0.74	0.74	0.68	0.71	8.3
1,1,2-Trichloroethane	0.35	0.43	0.40	0.40	0.40	0.38	0.39	6.8
Tetrachloroethene	0.35	0.38	0.38	0.39	0.41	0.36	0.38	5.3
1,3-Dichloropropane	0.69	0.81	0.77	0.77	0.77	0.73	0.75	5.4
Dibromochloromethane	0.51	0.59	0.61	0.62	0.63	0.57	0.59	7.6
1,2-Dibromoethane	0.46	0.53	0.53	0.54	0.55	0.49	0.52	6.9
Chlorobenzene	0.85	0.90	0.86	0.86	0.88	0.82	0.86	3.0
1,1,1,2-Tetrachloroethane	0.30	0.34	0.35	0.35	0.34	0.32	0.33	5.9
Bromoform	0.18	0.23	0.25	0.25	0.26	0.21	0.23	12.6
1,1,2,2-Tetrachloroethane	0.40	0.45	0.48	0.48	0.47	0.44	0.45	6.9
2-Chlorotoluene	0.80	0.88	0.90	0.89	0.91	0.83	0.87	5.1
4-Chlorotoluene	0.93	1.03	1.07	1.05	1.07	0.95	1.02	5.9
1,3-Dichlorobenzene	0.53	0.57	0.62	0.63	0.64	0.57	0.59	7.4
1,4-Dichlorobenzene	0.54	0.62	0.66	0.66	0.69	0.58	0.63	8.9
1,2-Dichlorobenzene	0.50	0.56	0.62	0.63	0.65	0.56	0.59	9.5
1,2,4-Trichlorobenzene	0.23	0.25	0.30	0.31	0.33	0.27	0.28	13.6

N/A - Not Applicable
[a] - Value outside of QC advisory limits.

Form VI
Initial Calibration Summary
Volatile Organics by 8260

Client: **Alpha Analytical - Westborough**
Project: **L0803223 - ERM BOSTON**

Lab Code: **MA00030**
ETR: **0803046**

Case: **N/A** SDG: **N/A**

Lab ID	Date/Time Analyzed
I1031201	03/12/08 09:10
I1031202	03/12/08 09:41
I1031204	03/12/08 10:42
I1031205	03/12/08 11:13
I1031206	03/12/08 11:44
I1031207	03/12/08 14:17

Response Factors

Parameter	2	5	50	100	200	20	Mean	% RSD
Hexachlorobutadiene	0.081	0.079	0.092	0.094	0.098	0.085	0.088	8.5
Dibromofluoromethane	0.89	0.90	0.90	0.89	0.82	0.88	0.88	3.3
1,2-Dichloroethane-d4	0.81	0.83	0.83	0.82	0.74	0.81	0.81	4.0
Toluene-d8	1.23	1.24	1.25	1.25	1.26	1.24	1.25	0.9
4-Bromofluorobenzene	0.55	0.56	0.59	0.58	0.57	0.57	0.57	2.4
Average RSD								7.3

N/A - Not Applicable

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Form VI
Initial Calibration Summary
Volatile Organics by 8260

Client: **Alpha Analytical - Westborough**
Project: **L0803223 - ERM BOSTON**

Lab Code: **MA00030**
ETR: **0803046**

Case: **N/A** SDG: **N/A**

Lab ID	Date/Time Analyzed
I1031301	03/13/08 11:42
I1031302	03/13/08 12:12
I1031303	03/13/08 12:43
I1031304	03/13/08 13:14
I1031305	03/13/08 13:45
I1031306	03/13/08 14:15

Response Factors

Parameter	2	5	20	50	100	200	Mean	% RSD
Dichlorodifluoromethane	1.45	1.45	1.52	1.65	1.55	1.35	1.50	6.9
Chloromethane	1.78	1.56	1.49	1.64	1.56	1.42	1.58	7.9
Vinyl chloride	1.05	1.01	1.09	1.18	1.10	0.97	1.07	6.8
Chloroethane	0.59	0.51	0.49	0.54	0.51	0.41	0.51	11.8
1,1-Dichloroethene	1.51	1.35	1.36	1.44	1.37	1.22	1.37	7.1
Methylene chloride		1.05	1.01	1.08	1.05	0.99	1.04	3.4
trans-1,2-Dichloroethene	1.67	1.45	1.45	1.56	1.47	1.31	1.49	8.0
1,1-Dichloroethane	2.07	1.87	1.79	1.98	1.83	1.67	1.87	7.5
cis-1,2-Dichloroethene	1.83	1.57	1.59	1.70	1.64	1.45	1.63	8.0
1,1,1-Trichloroethane	1.70	1.48	1.48	1.56	1.50	1.36	1.51	7.5
Carbon tetrachloride	1.53	1.35	1.34	1.43	1.35	1.23	1.37	7.3
1,2-Dichloroethane	1.64	1.65	1.58	1.71	1.63	1.38	1.60	7.0
Trichloroethene	0.58	0.49	0.44	0.49	0.48	0.46	0.49	10.3
1,2-Dichloropropane	0.53	0.50	0.49	0.53	0.51	0.49	0.51	3.9
Bromodichloromethane	0.73	0.68	0.67	0.75	0.73	0.69	0.71	5.0
cis-1,3-Dichloropropene	0.81	0.77	0.78	0.87	0.85	0.81	0.81	4.9
trans-1,3-Dichloropropene	0.69	0.68	0.71	0.79	0.78	0.73	0.73	6.3
1,1,2-Trichloroethane	0.40	0.40	0.39	0.42	0.42	0.40	0.40	3.1
Tetrachloroethene	0.40	0.35	0.34	0.39	0.39	0.40	0.38	7.2
1,3-Dichloropropane	0.76	0.77	0.75	0.81	0.81	0.76	0.77	3.6
Dibromochloromethane	0.61	0.54	0.57	0.64	0.64	0.63	0.60	6.9
1,2-Dibromoethane	0.50	0.49	0.49	0.55	0.56	0.53	0.52	5.5
Chlorobenzene	0.95	0.83	0.80	0.88	0.88	0.86	0.87	5.9
1,1,1,2-Tetrachloroethane	0.35	0.32	0.32	0.36	0.35	0.33	0.34	5.2
Bromoform	0.20	0.19	0.22	0.24	0.25	0.24	0.22	10.9
1,1,2,2-Tetrachloroethane	0.42	0.42	0.45	0.48	0.47	0.44	0.45	5.4
2-Chlorotoluene	0.98	0.84	0.84	0.96	0.92	0.90	0.91	6.4
4-Chlorotoluene	1.03	0.92	0.99	1.12	1.09	1.07	1.04	7.0
1,3-Dichlorobenzene	0.57	0.53	0.56	0.65	0.64	0.63	0.60	8.5
1,4-Dichlorobenzene	0.63	0.57	0.61	0.69	0.68	0.67	0.64	7.2
1,2-Dichlorobenzene	0.56	0.53	0.57	0.64	0.64	0.62	0.59	8.0
1,2,4-Trichlorobenzene	0.26	0.24	0.27	0.32	0.32	0.32	0.29	12.4

N/A - Not Applicable

Form VI
Initial Calibration Summary
Volatile Organics by 8260

Client: **Alpha Analytical - Westborough**
Project: **L0803223 - ERM BOSTON**

Lab Code: **MA00030**
ETR: **0803046**

Case: **N/A** SDG: **N/A**

Lab ID	Date/Time Analyzed
I1031301	03/13/08 11:42
I1031302	03/13/08 12:12
I1031303	03/13/08 12:43
I1031304	03/13/08 13:14
I1031305	03/13/08 13:45
I1031306	03/13/08 14:15

Response Factors

Parameter	2	5	20	50	100	200	Mean	% RSD
Hexachlorobutadiene	0.11	0.083	0.083	0.097	0.096	0.095	0.094	10.7
Dibromofluoromethane	0.90	0.91	0.92	0.91	0.89	0.84	0.90	3.2
1,2-Dichloroethane-d4	0.85	0.91	0.90	0.88	0.84	0.74	0.85	7.1
Toluene-d8	1.28	1.27	1.26	1.30	1.30	1.31	1.29	1.5
4-Bromofluorobenzene	0.57	0.58	0.59	0.61	0.60	0.58	0.59	2.5
Average RSD								6.7

N/A - Not Applicable

Form VII
Calibration Verification
Volatile Organics by 8260

Client: **Alpha Analytical - Westborough**
Project: **L0803223 - ERM BOSTON**
Case: **N/A** SDG: **N/A**

Lab Code: **MA00030**
ETR: **0803046**
Lab ID: **C1031201**

Parameter	Ave. RF	CCV RF	Percent Deviation	Deviation Limit
Dichlorodifluoromethane	1.29	1.22	5.3	30
Chloromethane	1.34	1.25	6.4	30
Vinyl chloride	0.91	0.86	6.0	20
Chloroethane	0.39	0.40	0.6	30
1,1-Dichloroethene	1.43	1.42	0.2	20
Methylene chloride	1.08	1.06	2.3	30
trans-1,2-Dichloroethene	1.45	1.47	0.8	30
1,1-Dichloroethane	1.86	1.81	2.6	30
cis-1,2-Dichloroethene	1.55	1.53	1.1	30
1,1,1-Trichloroethane	1.44	1.44	0.1	30
Carbon tetrachloride	1.34	1.32	1.6	30
1,2-Dichloroethane	1.50	1.49	0.8	30
Trichloroethene	0.46	0.47	2.0	30
1,2-Dichloropropane	0.49	0.49	0.6	20
Bromodichloromethane	0.68	0.69	1.1	30
cis-1,3-Dichloropropene	0.79	0.81	1.4	30
trans-1,3-Dichloropropene	0.71	0.73	2.7	30
1,1,2-Trichloroethane	0.39	0.40	3.0	30
Tetrachloroethene	0.38	0.38	1.5	30
1,3-Dichloropropane	0.75	0.77	2.6	30
Dibromochloromethane	0.59	0.62	4.6	30
1,2-Dibromoethane	0.52	0.54	3.8	30
Chlorobenzene	0.86	0.86	0.6	30
1,1,1,2-Tetrachloroethane	0.33	0.34	2.3	30
Bromoform	0.23	0.25	6.4	30
1,1,2,2-Tetrachloroethane	0.45	0.47	3.8	30
2-Chlorotoluene	0.87	0.88	1.7	30
4-Chlorotoluene	1.02	1.03	1.5	30
1,3-Dichlorobenzene	0.59	0.61	3.8	30
1,4-Dichlorobenzene	0.63	0.64	2.2	30
1,2-Dichlorobenzene	0.59	0.61	4.8	30
1,2,4-Trichlorobenzene	0.28	0.30	4.8	30
Hexachlorobutadiene	0.088	0.090	2.0	30
Dibromofluoromethane	0.88	0.87	1.5	30
1,2-Dichloroethane-d4	0.81	0.79	1.9	30
Toluene-d8	1.25	1.28	2.4	30
4-Bromofluorobenzene	0.57	0.58	1.0	30
Average % D			2.5	

N/A - Not Applicable

Form VII
Calibration Verification
Volatile Organics by 8260

Client: **Alpha Analytical - Westborough**
Project: **L0803223 - ERM BOSTON**
Case: **N/A** SDG: **N/A**

Lab Code: **MA00030**
ETR: **0803046**
Lab ID: **C1031303**

Parameter	Ave. RF	CCV RF	Percent Deviation	Deviation Limit
Dichlorodifluoromethane	1.50	1.45	3.0	30
Chloromethane	1.58	1.40	11.2	30
Vinyl chloride	1.07	0.98	8.2	20
Chloroethane	0.51	0.46	9.1	30
1,1-Dichloroethene	1.37	1.27	7.5	20
Methylene chloride	1.04	1.01	2.6	30
trans-1,2-Dichloroethene	1.49	1.35	9.0	30
1,1-Dichloroethane	1.87	1.72	8.3	30
cis-1,2-Dichloroethene	1.63	1.51	7.1	30
1,1,1-Trichloroethane	1.51	1.40	7.6	30
Carbon tetrachloride	1.37	1.26	8.0	30
1,2-Dichloroethane	1.60	1.50	6.0	30
Trichloroethene	0.49	0.47	4.8	30
1,2-Dichloropropane	0.51	0.49	3.1	20
Bromodichloromethane	0.71	0.70	2.0	30
cis-1,3-Dichloropropene	0.81	0.80	1.4	30
trans-1,3-Dichloropropene	0.73	0.73	0.5	30
1,1,2-Trichloroethane	0.40	0.40	1.0	30
Tetrachloroethene	0.38	0.38	0.3	30
1,3-Dichloropropane	0.77	0.76	2.5	30
Dibromochloromethane	0.60	0.62	2.2	30
1,2-Dibromoethane	0.52	0.53	2.4	30
Chlorobenzene	0.87	0.84	3.1	30
1,1,1,2-Tetrachloroethane	0.34	0.33	1.5	30
Bromoform	0.22	0.23	3.9	30
1,1,2,2-Tetrachloroethane	0.45	0.44	2.1	30
2-Chlorotoluene	0.91	0.87	4.0	30
4-Chlorotoluene	1.04	1.03	1.0	30
1,3-Dichlorobenzene	0.60	0.61	1.8	30
1,4-Dichlorobenzene	0.64	0.64	0.3	30
1,2-Dichlorobenzene	0.59	0.60	0.7	30
1,2,4-Trichlorobenzene	0.29	0.30	2.1	30
Hexachlorobutadiene	0.094	0.089	5.7	30
Dibromofluoromethane	0.90	0.88	2.1	30
1,2-Dichloroethane-d4	0.85	0.80	6.6	30
Toluene-d8	1.29	1.31	1.3	30
4-Bromofluorobenzene	0.59	0.59	0.1	30
Average % D			3.9	

N/A - Not Applicable

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Form VIII
Internal Standard Summary
Volatile Organics by 8260

Client: **Alpha Analytical - Westborough**
Project: **L0803223 - ERM BOSTON**

Lab Code: **MA00030**
ETR: **0803046**
Lab ID: **C1031201**

Case: **N/A** SDG: **N/A**

		Pentafluorobenzene		Fluorobenzene		Chlorobenzene-D5	
		Area	RT	Area	RT	Area	RT
Standard:		309617	5.67	707642	6.40	1005235	10.67
Upper Limit:		619234	6.17	1415284	6.90	2010470	11.17
Lower Limit:		154808	5.17	353821	5.90	502618	10.17
Client ID	**Lab ID**						
LCS	VW031208LCS01	315245	5.67	722079	6.40	1000948	10.66
LCSD	VW031208LCSD01	311768	5.67	709298	6.40	1003320	10.67
Blank	VW031208B02	299831	5.67	689387	6.40	954353	10.66
DEP-19M-20080306-01	0803046-01	285427	5.66	650771	6.40	914750	10.66

N/A - Not Applicable

Area Upper Limit = +100% of internal standard.
Area Lower Limit = -50% of internal standard.
RT = Retention Time.
RT Upper Limit = +0.5 minutes of internal standard RT.
RT Lower Limit = -0.5 minutes of internal standard RT.

Form VIII
Internal Standard Summary
Volatile Organics by 8260

Client: **Alpha Analytical - Westborough**
Project: **L0803223 - ERM BOSTON**

Lab Code: **MA00030**
ETR: **0803046**
Lab ID: **C1031303**

Case: **N/A** SDG: **N/A**

		Pentafluorobenzene		Fluorobenzene		Chlorobenzene-D5	
		Area	**RT**	**Area**	**RT**	**Area**	**RT**
Standard:		300650	5.63	681462	6.37	998678	10.63
Upper Limit:		601300	6.13	1362924	6.87	1997356	11.13
Lower Limit:		150325	5.13	340731	5.87	499339	10.13
Client ID	**Lab ID**						
LCS	VW031308LCS04	306283	5.64	683768	6.37	987486	10.63
LCSD	VW031308LCSD04	304003	5.64	675769	6.37	975180	10.63
Blank	VW031308B08	290770	5.64	666016	6.37	933650	10.63
MW-264M-20080306-01	0803046-02	283645	5.64	636285	6.37	913522	10.63

N/A - Not Applicable

Area Upper Limit = +100% of internal standard.
Area Lower Limit = -50% of internal standard.
RT = Retention Time.
RT Upper Limit = +0.5 minutes of internal standard RT.
RT Lower Limit = -0.5 minutes of internal standard RT.

320 Forbes Blvd, Mansfield, MA 02048, (508) 822-9300, Fax (508) 822-3288

Chain of Custody Records

CHAIN OF CUSTODY

PAGE 1 OF 1

Date Rec'd in Lab: 3/7/08

ALPHA Job #: L0803223

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

Client Information

Client: ERM-Boston
Address: 399 Boylston St. 10th Floor
Boston, MA 02116
Phone: 617-646-7800
Fax: 617-267-6447
Email: jason.flattery@erm.com

☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: Raytheon-Wayland
Project Location: Wayland, MA
Project #: 0079387
Project Manager: Jason Flattery
ALPHA Quote #:

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved!)
Date Due: 3/14/08 Time:

Report Information - Data Deliverables

☐ FAX ☒ EMAIL
☒ ADEx ☐ Add'l Deliverables

Billing Information

☒ Same as Client info PO #:

Regulatory Requirements/Report Limits

State /Fed Program	Criteria
MA MCP	Method 1 GW-1

MA MCP PRESUMPTIVE CERTAINTY --- CT REASONABLE CONFIDENCE PROTOCOLS

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

Other Project Specific Requirements/Comments/Detection Limits:

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

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	8021B by 8260 (RXS)	Total Phosphorus	Sulfate & Nitrate	Diss. Fe (lab filtered)	TOC	Sample Specific Comments
03223.1	DEP-19M-20080306-01	3/6/08	16:15	GW	JDF	2				2	
2	MW-264M-20080306-01	3/6/08	14:45	GW	EB	2	1	1	1	2	
Container Type						V	P	P	P	V	
Preservative						B	C	A	HNO3/H2SO4		

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT MA MCP or CT RCP?

Relinquished By:	Date/Time	Received By:	Date/Time
A Ryan	3/7/08 1147	Manuel Andrea	3/7/08 1147
Manuel Andrea	3-7-08 1[illegible]	[illegible]	3/7/08 1718

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

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

To: Mansfield

CHAIN OF CUSTODY

PAGE 1 OF 1

ALPHA ANALYTICAL

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

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

Date Rec'd in Lab:

ALPHA Job #: 0803046

Client Information

Client: Alpha Analytical

Address:

Phone:

Fax:

Email:

☐ These samples have been previously analyzed by Alpha

Project Information

Project Name:

Project Location:

Project #:

Project Manager: Mary Dazo

ALPHA Quote #:

Turn-Around Time

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

Date Due: 3/14/08 Time:

Report Information - Data Deliverables

☐ FAX ☐ EMAIL

☐ ADEx ☐ Add'l Deliverables

Billing Information

☐ Same as Client info PO #:

Regulatory Requirements/Report Limits

State /Fed Program: MCP Criteria: Method 1 GW-1

MA MCP PRESUMPTIVE CERTAINTY --- CT REASONABLE CONFIDENCE PROTOCOLS

☐ Yes ☐ No Are MCP Analytical Methods Required?

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

Other Project Specific Requirements/Comments/Detection Limits:

ANALYSIS: MCP 8260

SAMPLE HANDLING

Filtration
☐ Done
☐ Not needed
☐ Lab to do

Preservation
☐ Lab to do
(Please specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	Sample Specific Comments	TOTAL # BOTTLES
-1	L0803223-01	3/6/08	1615	GW			2
-2	↓ -02	↓	1445	↓			2

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT MA MCP *or* CT RCP?

Container Type

Preservative

Relinquished By:	Date/Time	Received By:	Date/Time
Paul Gilbert	3/11/08	Paul Gilbert	3/11/08 17:00
Paul Gilbert	3/11/08 18:15	Indi S. deAraujo	3/11/08 18:15

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

FORM NO: 01-01 (rev. 30-JUL-07)

30/33

Sample Delivery Group Form

Laboratory Job No: L0803223 **Client:** ERM-Boston
Receipt Date/Time: 3/7/08 1715 **SDG Reviewer:** WM

Samples Delivered By:
[✓] Alpha Courier [ ] Client [ ] UPS [ ] FedEx [ ] Other _____
Bill of Laden: [ ]Yes [ ] Unavailable Tracking #:_____

Chain of Custody: [✓] Present [ ] Absent:_____
Custody Seals: [✓] Absent [ ] Present/Intact [ ] Present/Broken

Cooler/Sample Temperature:
Is Ice/Blue Ice present? [✓] Yes [ ] No [ ] N/A_____

Temp taken from: Temp Blank:(a) 2.2° (b)_____ (c)_____ (d)_____ (e)_____
IR Gun: (a)_____ (b)_____ (c)_____ (d)_____ (e)_____
Was Temp: [✓] 2-6 Celsius
[ ] <2 Celsius ... were samples frozen upon receipt? [ ] Yes [ ] No
[ ] >6 Celsius ... were samples delivered direct from site? [ ] Yes [ ] No

Containers Received: [✓] Intact
[ ] Broken/Leaking Sample IDs:_____
Sample IDs:_____

All Containers Accounted For? [✓] Yes
[ ] No: _____
Extra Samples Received? [✓] No
[ ] Yes: _____
Do Sample Labels and COC agree? [✓] Yes
[ ] No: _____
Are Samples in Appropriate Containers? [✓] Yes
[ ] No: _____
Are samples rec'd within holding time? [✓] Yes
[ ] No:_____
* Please note: the analysis of pH will always be performed beyond the regulatory-required holding time of 15 min. from the time of collection.

pH of samples upon receipt: [ ] N/A [✓] <2 [ ] >12 and/or [✓] 7
Are samples properly preserved? [✓] Yes [ ] No If No then.....
Initial pH=_____ preserved In-House with [ ] HCL [ ] H_2SO_4 [ ] HNO_3 <<Final pH =_____>>
Other Issues:_____
Chlorine Check: [✓] N/A [ ] Present [ ] Absent

VOA/VPH vials: [✓] Yes [ ] No
Aqueous: vials contain head space? [✓] No [ ] Yes :_____
Soils: MeOH covering soil? [ ] Yes [ ] No :_____
Reagent H_2O Preserved vials Frozen @ date/time: _____
Frozen by Client? [ ] No [ ] Yes @ date/time:_____

Was Client notified of any discrepancies listed above? [ ] Yes [ ] No [ ] N/A
If Yes: Call Tracker #_____

Sample Receipt Checklist

Client: Alpha Analytical		**Receipt Date:** 3/11/08	
Project: A0803223 - GRM		**Log-in Date:** 3/12/08	
ETR #: 0803046	**Inspection by:** JM	**Login by:** W	

ALL SECTIONS BELOW MUST BE COMPLETED

Comments / Notes

Were samples shipped? Yes, FedEx / UPS / Other:_____
(No,) Alpha Analytical Courier pick-up / Hand delivered

Is bill of lading retained? Yes, Tracking #:_____
No, Unavailable / (NA)

Number of coolers received for this project delivery: 1

Indicate cooler temperature upon opening (if multiple coolers, record all temps):

Note: If all coolers are 2-6°C, use one checklist, if NOT, use separate checklists and note all samples received *above* 6°C.

Cooler 1:
Temperature(s) taken from: 5° IR Gun, 6° Temp. Blank, / NA

Were samples received on ice? (Yes) / No

Chain-of-Custody present? (Yes) / No
Complete? (Yes) / No

Custody seals present on Cooler? Yes / (No)
on Bottles? Yes / (No)
Intact? Yes / No / (NA)
Note: Affix custody seals to back of this page.

Were sample containers intact? (Yes) / No If No, list samples: →

Did VOA/VPH waters contain headspace (>5mm)? Yes / (No) / NA If Yes, list samples: →

Were 5035 VOA soils, or VPH soils, *covered* with MeOH? Yes / No / (NA)
If No, list samples: →

Was a sufficient amount of sample received for each test indicated on the COC?
(Yes) / No If No, list samples: →

If chemical preservation is appropriate -
Were samples field preserved? (Yes) / No / NA
☒ C=HCl ☐ M=MeOH ☐ S=H_2SO4
☐ H=NaOH ☐ N=HNO_3 ☐ Other:_____ ☐ U= Unknown

Preservation (pH) verified at lab for *EVERY* bottle? (Not: VOA / VPH / Sulfide)
YES: <2 or >12 (CN) or NO (NA)
If No, why?:

Were samples received within hold time? (Yes) / No If No, list samples: →

Discrepancy between samples rec'd & COC ? Yes / (No) If Yes, list samples: →

Was the Project Manager notified of any other problems? Yes / No / NA

Project Manager Acknowledgement: Date:

Sample storage refrigerator #: VOA

Sample storage freezer #:_____

Cooler 2:_____ Cooler 3:_____

Cooler 4:_____ Cooler 5:_____

Cooler 6:_____ Cooler 7:_____

More:_____

Chemical preservation OK for ALL samples?
Yes / No / (NA)

If No, list samples below:

Please use back for any additional notes!

Certificate/Approval Program Summary

Method numbers assume the most recent EPA revisions. For a complete listing of analytes for the referenced methods please contact your Alpha Woods Hole Lab Project Manager or the Quality Assurance Manager.

Connecticut Department of Public Health Certificate/Lab ID : PH-0141 - *Wastewater* (General Chemistry: EPA 120.1, 150.1, 160.1, 160.2, 180.1, 300.0, 310.1, 335.2; Metals: 200.8, 245.1; Organics: 608-PCB, ETPH) *Solid Waste/Soil* (General Chemistry: 1010, 9010/9014, 9045, 9060; Metals: 6020, 7470, 7471; Organics: 8081, 8082, 8260, 8270, ETPH).

Florida Department of Health Certificate/Lab ID : E87814 - Primary NELAP Accreditation Authority for Air & Emissions. Secondary NELAP Accreditation for Wastwater and Solid & Hazardous Waste. *Wastewater* (General Chemistry: EPA 120.1/SM2510B, 150.1, 160.1/SM2540C, 160.2/SM2540D, 180.1, 300.0, 335.2, SM2320B, SM2340B, SM2540G, SM4500NH3; Metals: 245.1; Organics: 608-PCB). *Solid and Hazardous Waste* (General Chemistry: 9010/9014, 9045, 9050, 9056, 9065, Reactivity 7.3; Metals: 6020, 7470, 7471; Organics: 8081, 8082, 8260, 8270). *Air & Emissions* (Organics: EPA TO-15).

Louisiana Department of Environmental Quality Certificate/Lab ID : 03090 - Primary NELAP Accrediting Authority for Wastewater, Solid & Hazardous Waste. *Wastewater* (General Chemistry: EPA 120.1/SM2510B, 150.1, 160.1/SM2540C, 160.2/SM2540D, 180.1, 300.0, 310.1/SM2320B, 335.2, 376.2, 9010/9014, 9056, SM2540G; Metals: 200.8, 245.1, 6020; Organics: 608-PCB, 8015-DRO, 8081, 8082, 8260, 8270). *Solid and Hazardous Waste* (General Chemistry: 1010, 1311, 9010/9014, 9040, 9045, 9056, 9060, Reactivity 7.3; Metals: 6020, 7196, 7470, 7471; Organics: 8015-DRO, 8081, 8082, 8260, 8270).

Maine Department of Human Services Certificate/Lab ID : MA0030 - *Wastewater* (General Chemistry: EPA 120.1/ SM2510B, 160.1/SM2540C, 160.2/SM2540D, 300.0, 310.1/SM2320B, 335.2; Metals: EPA 245.1; Organics: 608-PCB).

Massachusetts Department of Environmental Protection Certificate/Lab ID: M-MA030 - *Wastewater* (General Chemistry: EPA 120.1/SM2510B, 150.1, 160.1/SM2540C, 160.2/SM2540D, 300.0, 310.1/SM2320B, 335.2; Metals: EPA 245.1; Organics: EPA 608-PCB).

New Hampshire Department of Environmental Services Certificate/Lab ID: 2206 - Secondary NELAP Accreditation. *Wastewater* (General Chemistry: EPA 120.1/SM2510B, 150.1, 160.1/SM2540C, 160.2/SM2540D, 180.1, 300.0, 310.1/SM2320B, 335.2, 376.2, SM2540G; Metals: 200.8, 245.4; Organics: 608-PCB).

New Jersey Department of Environmental Protection Certificate/Lab ID : MA015 - Secondary NELAP Accreditation. *Wastewater* (General Chemistry: EPA 120.1/SM2510B, 150.1, 160.1/SM2540C, 160.2/SM2540D, 180.1, 300.0, 310.1/SM2320B, 335.2, 376.2, 9010/9014, 9056, SM2540G; Metals: 200.8, 245.1 6020; Organics: 608-PCB, 8081, 8082, 8260, 8270). *Solid & Hazardous Waste* (General Chemistry: EPA 1010, 1311, 9010/9014, 9040, 9045, 9056, 9060; Metals: 6020, 7196, 7470, 7471; Organics: 8015-DRO, 8081, 8082, 8260, 8270). *Air & Emissions* (Organics: EPA TO-15).

New York Department of Health Certificate/Lab ID : 11627 - Secondary NELAP Accreditation. *Wastewater* (General Chemistry: EPA 120.1/SM2510B, 150.1, 160.1/SM2540C, 160.2/SM2540D, 300.0, 310.1/SM2320B, 376.2; Metals: 200.8, 245.1; Organics: 608-PCB). *Solid and Hazardous Waste* (General Chemistry: EPA 1010, 1311; : 200.8; 6020;7041; Organics: 8081, 8082, 8260, 8270). *Air & Emissions* (Organics: EPA TO-15).

Rhode Island Department of Health Certificate/Lab ID : LAO00289 - Chemistry: *Organic and Inorganic in Non-Poratable Water, Wastewater/Sewage and Soil* (Refer to LADEQ and MADEP certificates for method numbers.)

Pennsylvania Department of Environmental Protection Certificate/Lab ID : 68-02089 - Registered laboratory

U.S. Army Corps of Engineers

Department of the Navy

Client Name: ERM
Contact: Jason Flattery
Address: 399 Boyleston Street
6th Floor
Boston, MA 02116

Lab Proj #: P0803069
Report Date: 03/18/08
Client Proj Name: Wayland
Client Proj #: Wayland

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
DEP-19M-20080306-01	Water	P0803069-01	06 Mar. 08 16:15	07 Mar. 08 10:23

Analyte(s)	Result	PQL	Units	Method #	Analysis Date	By
RiskAnalysis						
N Ethane	0.039	0.025	ug/L	AM20GAX	3/17/08	rw
N Ethene	0.130	0.025	ug/L	AM20GAX	3/17/08	rw
N Methane	0.480	0.100	ug/L	AM20GAX	3/17/08	rw

N - NELAC certified analysis

Client Name: ERM
Contact: Jason Flattery
Address: 399 Boyleston Street
6th Floor
Boston, MA 02116

Lab Proj #: P0803069
Report Date: 03/18/08
Client Proj Name: Wayland
Client Proj #: Wayland

Sample Description	Matrix	Lab Sample #	Sampled Date/Time	Received
MW-264M-20080306-01	Water	P0803069-03	06 Mar. 08 14:45	07 Mar. 08 10:23

Analyte(s)	Result	PQL	Units	Method #	Analysis Date	By
RiskAnalysis						
N Ethane	<0.025	0.025	ug/L	AM20GAX	3/17/08	rw
N Ethene	0.200	0.025	ug/L	AM20GAX	3/17/08	rw
N Methane	7.900	0.100	ug/L	AM20GAX	3/17/08	rw

N - NELAC certified analysis

www.siremlab.com
130 Research Lane, Suite 2
Guelph, Ontario N1G 5G3
Phone (519) 822-2265
Fax (519) 822-3151

Certificate of Analysis: Quantitative Gene-Trac *Dehalococcoides* Assay

Customer: Jason Flattery, ERM

Project: Raytheon Wayland

Customer Reference: 0079387

SiREM Reference: S-1251

Report Issued: 25-Mar-08

Data Files: DHC-UP-0437/0437
QPCR-0325/QPCR check-gel-0232

Table 1: Test Results

Customer Sample ID	SiREM Sample ID	Sample Collection Date	Sample Matrix	Percent Dhc [A]	*Dehalococcoides* Enumeration [B]
MW-264M-20080306-01	DHC-3789	6-Mar-08	Groundwater	NA(1)	ND(2)

Notes:

[A] Percent *Dehalococcoides* (Dhc) in microbial population. This value is calculated by dividing the number of Dhc 16S ribosomal ribonucleic acid (rRNA) gene copies by the total number of bacteria as estimated by the mass of DNA extracted from the sample. Range represents normal variation in Dhc enumeration.

[B] Based on quantification of Dhc 16S rRNA gene copies. Dhc are generally reported to contain one 16S rRNA gene copy per cell; therefore, this number is often interpreted to represent the number of Dhc cells present in the sample.

NA = not applicable
ND= not detected

[1] Not applicable as *Dehalococcoides* not detected.
[2] Not detected. The quantitation limit is 4 x 10^3/liter.

Analyst: J. Wilkinson

Jennifer Wilkinson
Biotechnology Technologist

Approved: Ximena Druar

Ximena Druar, B.Sc.
Molecular Biology Coordinator

Table 2: Detailed Test Parameters, Gene-Trac Test Reference S-1251

Customer Sample ID	MW-264M-20080306-01
SiREM Test ID	DHC-3789
Date Received	7-Mar-08
Sample Temperature	8.5 ˚C
Volume Used for DNA Extraction	500 mL
DNA Extraction Date	18-Mar-08
DNA Concentration in Sample (extractable)	1102 ng/L
Extracted DNA Quality Test (universal PCR primers)	ND
Secondary DNA Purification	R
DNA Repurification Date	39531
Extracted DNA Quality Test (after repurification)	Passed
Dhc qPCR Analysis Date	24-Mar-08
qPCR Controls (see Table 3)	Passed
Comments	- -

Notes:

Refer to Table 3 for detailed results of controls.
NA = not applicable
ND = not detected
mL = milliliters
PCR = polymerase chain reaction
qPCR = quantitative PCR
Dhc = *Dehalococcoides*
ng/L = nanograms per liter
NR = not required
R = required
DNA = Deoxyribonucleic acid
°C = degrees Celsius

Table 3: Experimental Control Results, Test Reference S-1251

Laboratory Control	Analysis Date	Control Description	Spiked Dhc 16S rRNA Gene Copies per Reaction	Recovered Dhc 16S rRNA Gene Copies per Reaction	Comments
Positive Control Low Concentration	24-Mar-08	qPCR with cloned Dhc gene (9.13×10^5 copies)	9.13×10^5	1.33×10^6	Normal[1]
Positive Control High Concentration	24-Mar-08	qPCR with cloned Dhc gene (9.13×10^7 copies)	9.13×10^7	9.05×10^7	Normal[1]
DNA Extraction Blank	24-Mar-08	DNA extraction sterile water (DB-0737)	0	ND	Normal
Negative Control	24-Mar-08	Tris Reagent Blank	0	ND	Normal

Notes:

[1] Within defined limits of +/- 50%

Dhc = *Dehalococcoides*

DNA = Deoxyribonucleic acid

NA = not applicable

ND = not detected

qPCR = quantitative PCR

16S rRNA = 16S ribosomal ribonucleic acid

Chain-of-Custody Form

SiREM Site Recovery & Management

130 Research Lane, Suite 2 · Guelph, Ontario, Canada N1G 5G3 · Phone (519) 822-2265 or toll free 1-866-251-1747 Fax (519) 822-3151

www.siremlab.com

Lab # S-1251

Project Name	Lutheran Wayland
Project #	0079387
Project Manager	Jason Flattery
Email Address	Jason.flattert@erm.com
Company	ERM
Address	399 Boylston St. Boston, MA 02116
Phone #	617-646-7800
Fax #	617-267-6447
Sampler's Signature	[signature]
Sampler's Printed Name	Ezra Benjamin

Analysis

Preservative: None

Client Sample ID	Lab ID	Sampling Date	Sampling Time	Matrix	# of Containers	Gene-Trac VC	Gene-Trac DHE	Other Information
MW-261S-20080306-01		3/6/08	1200	GW	1	X	X	
MW-264M-20080306-01		↓	1445	↓	↓	X	X	
MW-265M-20080306-01			0945			X	X	
MW-266Ma-20080306-01			1345			X	X	
MW-266Mb-20080306-01			1525			X	X	
MW-267S-20080306-01			1000			X	X	
MW-267M-20080306-01			1120			X	X	
MW-268M-20080306-01			1145			X	X	
MW-267D-20080306-01			1230			X	X	
MW-551-20080306-01		↓	1630	↓	↓	X	X	

Preservative Key

0. None
1. HCL
2. Other ______
3. Other ______
4. Other ______
5. Other ______
6. Other ______

Sample Receipt

Cooler Condition: Good

Cooler Temperature:

Custody Seals: Yes ☐ No ☒

Invoice Information

P.O. # 0079387

Bill To: Jason Flattery

Quotation #

For Lab Use Only

Relinquished By:	Received By:	Relinquished By:	Received By:	Relinquished By:	Received By:
Signature	Signature: J. Wilkinson	Signature	Signature	Signature	Signature
Printed Name	Printed Name: J. Wilkinson	Printed Name	Printed Name	Printed Name	Printed Name
Firm	Firm: SiREM	Firm	Firm	Firm	Firm
Date/Time	Date/Time: 3/7/08 12:30	Date/Time	Date/Time	Date/Time	Date/Time

Distribution: White - Return to Originator; Yellow - Lab Copy; Pink - Retained by Client

CHAIN OF CUSTODY

PAGE 2 OF 2

ALPHA
ANALYTICAL LABORATORIES

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

Date Rec'd in Lab:

ALPHA Job #: S-12571

Client Information

Client: ERM
Address: 399 Boylston St.
Boston MA 02116
Phone: 617-646-7800
Fax: 617-267-6447
Email: Jason.Clafferty@erm.com

☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: Raytheon Wayland
Project Location: Wayland MA
Project #: 0079387
Project Manager: S. Flaherty
ALPHA Quote #:

Turn-Around Time

☑ Standard ☐ RUSH (only confirmed if pre-approved!)
Date Due: Time:

Report Information - Data Deliverables

☐ FAX ☐ EMAIL
☐ ADEx ☐ Add'l Deliverables

Billing Information

☐ Same as Client info PO #:

Regulatory Requirements/Report Limits

State /Fed Program: MA
Criteria: GW-1

MA MCP PRESUMPTIVE CERTAINTY --- CT REASONABLE CONFIDENCE PROTOCOLS

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

Other Project Specific Requirements/Comments/Detection Limits:

ANALYSIS: Geo Trac VOC; Geo Trac DHL

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

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	Sample Specific Comments	TOTAL # BOTTLES
	MW-552-20080306-01	3/6/08	1442				1
	MW-553-20080306-01		1641				1
	DUP-001-20080306-01		2400				1

Container Type	P	P
Preservative	A	A

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT MA MCP *or* CT RCP?

Relinquished By:	Date/Time	Received By:	Date/Time
		[illegible]	3/7/08 12:30

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

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