

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

Ms. Paula Phillips  
Congress Group  
33 Arch Street  
Boston, MA 02110



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

Dear Ms. Phillips:

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 53 wells on portions of the Site within the boundaries of your property between 25 February and 6 March 2008. One group of samples (42 in total), was submitted for field analysis of permanganate concentration by colorimetry. A second group of samples (11 in total) was submitted for laboratory analysis of volatile organic compounds, total organic carbon, and dissolved methane, ethane, and ethene gases. Of this second group of samples, 10 were 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, Microseps 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.

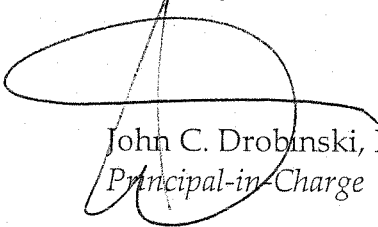
Raytheon has implemented the Public Involvement Process in accordance with MCP 310 CMR 40.1405. Documents pertaining to the Site can be found at the Board of Health, the Wayland Public Library Public Involvement Plan files, or at [www.ermne.com](http://www.ermne.com) (username = raytheon, password =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

Ms. Phillips  
Reference: 0079387  
1 April 2008  
Page 2

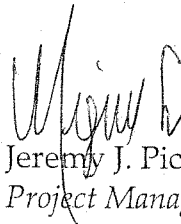
Environmental  
Resources  
Management

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*



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

Enclosures: BWSC-123 - Notice of Environmental Sampling  
ERM Colorimetry Results  
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:

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

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

- residential     commercial     industrial     school/playground     Other \_\_\_\_\_
- (specify)

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

Collection of groundwater samples from existing monitoring wells.

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

Contact Name: Louis J. Burkhardt  
Street Address: 880 Technology Park Drive, 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.



Field Colorimetry  
Data Form  
WATER SAMPLES

Analyst: T. Pac  
Date: 2/25 - 26/08  
Checked by: T. Pac  
Site Name: Raytheon Wayland  
Project Number: 79387.07  
Project Manager: J. Picard

Sample Name	Well ID	Collection Date / Time	Preservative (Note)	Color	Measured (ppm)	Dilution (X factor)	Concentration as KMnO <sub>4</sub> (ppm)	Concentration as NaMnO <sub>4</sub> (ppm)	Concentration as NaMnO <sub>4</sub> (%)	Notes
MW-33S	MW-33S-20080226-03	02/26/08 0820	Ice	clear	0.0	1	<1	<1	-	
MW-33M	MW-33M-20080226-03	02/26/08 0820	Ice	clear	0.0	1	<1	<1	-	
MW-40	MW-40-20080225-03	02/25/08 1412	Ice	clear	0.0	1	<1	<1	-	
MW-40S	MW-40S-20080225-03	02/25/08 1410	Ice	clear	0.0	1	<1	<1	-	
MW-43S	MW-43S-20080225-03	02/25/08 1030	Ice	clear	0.0	1	<1	<1	-	
MW-47S	MW-47S-20080225-03	02/25/08 1250	Ice	clear	0.0	1	<1	<1	-	
MW-47M	MW-47M-20080225-03	02/25/08 1255	Ice	clear	0.0	1	<1	<1	-	
MW-47D	MW-47D-20080225-03	02/25/08 1310	Ice	clear	0.0	1	<1	<1	-	
MW-101	MW-101-20080225-03	02/25/08 1450	Ice	pink	13.2	1	13.2	11.9	0.00	
MW-102	MW-102-20080225-03	02/25/08 1500	Ice	light purple	13.2	20	264	237	0.02	
MW-103	MW-103-20080226-03	02/26/08 0940	Ice	clear	0.0	1	<1	<1	-	
MW-104										No sample - well frozen under ice
MW-105	MW-105-20080225-03	02/25/08 1115	Ice	clear	0.1	1	<1	<1	-	
MW-105M	MW-105M-20080225-03	02/25/08 1110	Ice	clear	0.0	1	<1	<1	-	
MW-106										Unable to access - frozen cap
MW-106M	MW-106M-20080225-03	02/25/08 0925	Ice	clear	0.0	1	<1	<1	-	
MW-107	MW-107-20080225-03	02/25/08 1440	Ice	clear	0.0	1	<1	<1	-	
MW-109	MW-109-20080225-03	02/25/08 1605	Ice	clear	0.0	1	<1	<1	-	
MW-111	MW-111-20080225-03	02/25/08 1350	Ice	pink	32.9	1	32.9	29.5	0.00	
MW-113	MW-113-20080225-03	02/25/08 1340	Ice	clear	0.0	1	<1	<1	-	
MW-115										Unable to access
MW-117	MW-117-20080226-03	02/26/08 0830	Ice	clear	0.0	1	<1	<1	-	
MW-118	MW-118-20080226-03	02/26/08 1015	Ice	purple	8.4	100	840	754	0.08	
MW-201S	MW-201S-20080225-03	02/25/08 0932	Ice	pink	3.8	1	3.8	3.4	0.00	
MW-201M	MW-201M-20080225-03	02/25/08 0930	Ice	clear	0.0	1	<1	<1	-	
MW-201D	MW-201D-20080225-03	02/25/08 0940	Ice	clear	0.0	1	<1	<1	-	



Field Colorimetry  
Data Form  
WATER SAMPLES

Analyst: T. Pac  
Date: 2/25 - 26/08  
Checked by: T. Pac  
Site Name: Raytheon Wayland  
Project Number: 79387.07  
Project Manager: J. Picard

Sample Name	Well ID	Collection Date/Time	Preservative (Note)	Color	Measured (ppm)	Dilution (X factor)	Concentration as KMnO <sub>4</sub> (ppm)	Concentration as NaMnO <sub>4</sub> (ppm)	Concentration as NaMnO <sub>4</sub> (%)	Notes
MW-2025	MW-2025-20080225-03	02/25/08 1025	Ice	clear	0.0	1	<1	<1	-	
MW-202M	MW-202M-20080225-03	02/25/08 1027	Ice	clear	0.0	1	<1	<1	-	
MW-203S	MW-203S-20080225-03	02/25/08 1335	Ice	clear	0.0	1	<1	<1	-	
MW-203M	MW-203M-20080225-03	02/25/08 1322	Ice	clear	0.0	1	<1	<1	-	
MW-203D	MW-203D-20080225-03	02/25/08 1320	Ice	clear	0.0	1	<1	<1	-	
MW-204S	MW-204S-20080225-03	02/25/08 1330	Ice	clear	0.0	1	<1	<1	-	
MW-204M	MW-204M-20080225-03	02/25/08 1340	Ice	clear	0.0	1	<1	<1	-	
MW-204D	MW-204D-20080225-03	02/25/08 1325	Ice	clear	0.0	1	<1	<1	-	
MW-208S	MW-208S-20080226-03	02/26/08 1125	Ice	clear	0.1	1	<1	<1	-	
MW-208M	MW-208M-20080226-03	02/26/08 1140	Ice	clear	0.0	1	<1	<1	-	
MW-209										Unable to access - frozen under ice
MW-210										Unable to access - frozen under ice
MW-211	MW-211-20080225-03	02/25/08 0910	Ice	clear	0.0	1	<1	<1	-	
MW-212	MW-212-20080225-03	02/25/08 0940	Ice	clear	0.2	1	<1	<1	-	
MW-212M	MW-212M-20080225-03	02/25/08 1000	Ice	clear	0.0	1	<1	<1	-	
MW-403	MW-403-20080226-03	02/26/08 0920	Ice	clear	0.0	1	<1	<1	-	
MW-404	MW-404-20080226-03	02/26/08 1010	Ice	fuscia	59.3	1	59.3	53.3	0.01	
MW-405S	MW-405S-20080226-03	02/26/08 0850	Ice	purple	8.0	100	800	718	0.07	
IP-95										Well noted as purple in color - unable to retrieve sufficient sample for analyses
IP-16S	MW-16S-20080226-03	02/26/08 0945	Ice	magenta	16.1	10	161	145	0.01	
IP-16D	MW-17D-20080226-03	02/26/08 1005	Ice	light purple	3.3	100	330	296	0.03	
IP-17D	MW-17D-20080226-03	02/26/08 0935	Ice	clear	0.0	1	<1	<1	-	

Note:

< 1 less than detection limit of method (1 ppm)



## ANALYTICAL REPORT

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

**Project:** L0803236 - ERM BOSTON  
**ETR:** 0803047  
**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**

This report shall not be reproduced except in full, without written approval from the laboratory.



## Sample ID Cross Reference



Client: **Alpha Analytical - Westborough**  
Project: **L0803236 - ERM BOSTON**

Lab Code: **MA00030**  
ETR: **0803047**

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<b>Lab Sample ID</b>	<b>Client Sample ID</b>
0803047-01	MW-261S-20080306-01
0803047-02	MW-265M-20080306-01
0803047-03	MW-266Ma-20080306-01
0803047-04	MW-266Mb-20080306-01
0803047-05	MW-267S-20080306-01
0803047-06	MW-267M-20080306-01
0803047-07	MW-268M-20080306-01
0803047-08	MW-268D-20080306-01
0803047-09	MW-551-20080306-01
0803047-10	MW-552-20080306-01
0803047-11	MW-553-20080306-01
0803047-12	DUP-001-20080306-01
0803047-13	DUP-002-20080306-01
0803047-14	TB-001-20080306-01



# MADEP MCP Analytical Method Report Certification Form

**Laboratory Name:** Alpha Analytical

**Project Number:** 0803047

**Project Location:** MCP RTN #<sup>1</sup>:

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

0803047-01 through 0803047-14

**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 <sup>2</sup> ( )
8082 ( )	8021B ( )	EPH ( )	7000 S <sup>3</sup> ( )	Other:

<sup>1</sup> – List Release Tracking Number (RTN), if known.

<sup>2</sup>M – SW-846 Method 9014 or MADEP Physiologically Available Cyanide (PAC) Method.

<sup>3</sup>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.*

<b>A</b>	Were all samples received by the laboratory in a condition consistent with that described on the Chain-of-Custody documentation for the data set?	<input checked="" type="checkbox"/> <b>Yes</b>		No <sup>1</sup>
<b>B</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?	<input checked="" type="checkbox"/> <b>Yes</b>		No <sup>1</sup>
<b>C</b>	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"?	<input checked="" type="checkbox"/> <b>Yes</b>		No <sup>1</sup>
<b>D</b>	<b><u>VPH and EPH methods only:</u></b> Was the VPH or EPH method conducted without significant modifications (see Section 11.3 of respective Methods)?	Yes		No <sup>1</sup>

*A response to questions E and F below is required for "Presumptive Certainty" status.*

<b>E</b>	Were all analytical QC performance standards and recommendations for the specified methods achieved?	Yes		<input checked="" type="checkbox"/> <b>No<sup>1</sup></b>
<b>F</b>	Were results for all analyte-list compounds/elements for the specified method(s) reported?	Yes		<input checked="" type="checkbox"/> <b>No<sup>1</sup></b>

<sup>1</sup> 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 Hend      **Position:** Project Manager  
**Printed Name:** Peter Henriksen      **Date:** 3-14-08

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# CASE NARRATIVE

## Alpha Analytical

ETR: 0803047

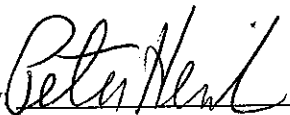
Project: L0803236-ERM BOSTON

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 calibrations had values for compounds outside of the 15% RSD QC advisory limit. Refer to the Form VI Initial Calibration Summary reports for specific outliers. These initial calibrations meet 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.
3. Several samples were initially analyzed at dilution due to historical data. Refer to the individual report forms for specific dilution requirements.
4. Sample MW-267S-20080306-01 (0803047-05) had Trichloroethene detected above the calibration range of the instrument as denoted with an "E" qualifier. The sample was re-analyzed at a

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: **L0803236 - ERM BOSTON**  
 Client ID: **MW-261S-20080306-01**  
 Case: **N/A** SDG: **N/A**  
 Matrix: **Water**

Lab Code: **MA00030**  
 ETR: **0803047**  
 Lab ID: **0803047-01**  
 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	20	ALM

Parameter	Result
Dichlorodifluoromethane	40.0 U
Chloromethane	40.0 U
Vinyl chloride	40.0 U
Chloroethane	40.0 U
1,1-Dichloroethene	40.0 U
Methylene chloride	100 U
trans-1,2-Dichloroethene	40.0 U
1,1-Dichloroethane	40.0 U
cis-1,2-Dichloroethene	<b>108</b>
1,1,1-Trichloroethane	40.0 U
Carbon tetrachloride	40.0 U
1,2-Dichloroethane	40.0 U
Trichloroethene	<b>3080</b>
1,2-Dichloropropane	40.0 U
Bromodichloromethane	40.0 U
cis-1,3-Dichloropropene	40.0 U
trans-1,3-Dichloropropene	40.0 U
1,1,2-Trichloroethane	40.0 U
Tetrachloroethene	<b>70.8</b>
1,3-Dichloropropane	40.0 U
Dibromochloromethane	40.0 U
1,2-Dibromoethane	40.0 U
Chlorobenzene	40.0 U
1,1,1,2-Tetrachloroethane	40.0 U
Bromoform	40.0 U
1,1,2,2-Tetrachloroethane	40.0 U
2-Chlorotoluene	40.0 U
4-Chlorotoluene	40.0 U
1,3-Dichlorobenzene	40.0 U
1,4-Dichlorobenzene	40.0 U
1,2-Dichlorobenzene	40.0 U
1,2,4-Trichlorobenzene	40.0 U
Hexachlorobutadiene	40.0 U

Surrogate	% Recovery	Acceptance Range (%)
Dibromofluoromethane	99	70-130
1,2-Dichloroethane-d4	102	70-130
Toluene-d8	99	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: **L0803236 - ERM BOSTON**  
 Client ID: **MW-265M-20080306-01**  
 Case: **N/A**      SDG: **N/A**  
 Matrix: **Water**

Lab Code: **MA00030**  
 ETR: **0803047**  
 Lab ID: **0803047-02**  
 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	10	ALM

Parameter	Result
Dichlorodifluoromethane	20.0 U
Chloromethane	20.0 U
Vinyl chloride	<b>36.8</b>
Chloroethane	20.0 U
1,1-Dichloroethene	20.0 U
Methylene chloride	50.0 U
trans-1,2-Dichloroethene	20.0 U
1,1-Dichloroethane	20.0 U
cis-1,2-Dichloroethene	<b>454</b>
1,1,1-Trichloroethane	20.0 U
Carbon tetrachloride	20.0 U
1,2-Dichloroethane	20.0 U
Trichloroethene	<b>622</b>
1,2-Dichloropropane	20.0 U
Bromodichloromethane	20.0 U
cis-1,3-Dichloropropene	20.0 U
trans-1,3-Dichloropropene	20.0 U
1,1,2-Trichloroethane	20.0 U
Tetrachloroethene	<b>39.3</b>
1,3-Dichloropropane	20.0 U
Dibromochloromethane	20.0 U
1,2-Dibromoethane	20.0 U
Chlorobenzene	20.0 U
1,1,1,2-Tetrachloroethane	20.0 U
Bromoform	20.0 U
1,1,2,2-Tetrachloroethane	20.0 U
2-Chlorotoluene	20.0 U
4-Chlorotoluene	20.0 U
1,3-Dichlorobenzene	20.0 U
1,4-Dichlorobenzene	20.0 U
1,2-Dichlorobenzene	20.0 U
1,2,4-Trichlorobenzene	20.0 U
Hexachlorobutadiene	20.0 U

Surrogate	% Recovery	Acceptance Range (%)
Dibromofluoromethane	106	70-130
1,2-Dichloroethane-d4	119	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	99	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: **L0803236 - ERM BOSTON**  
 Client ID: **MW-266Ma-20080306-01**  
 Case: **N/A** SDG: **N/A**  
 Matrix: **Water**

Lab Code: **MA00030**  
 ETR: **0803047**  
 Lab ID: **0803047-03**  
 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	2.82
1,1,1-Trichloroethane	2.00 U
Carbon tetrachloride	2.00 U
1,2-Dichloroethane	2.00 U
Trichloroethene	11.5
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	104	70-130
1,2-Dichloroethane-d4	111	70-130
Toluene-d8	93	70-130
4-Bromofluorobenzene	97	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: **L0803236 - ERM BOSTON**  
 Client ID: **MW-266Mb-20080306-01**  
 Case: **N/A**      SDG: **N/A**  
 Matrix: **Water**

Lab Code: **MA00030**  
 ETR: **0803047**  
 Lab ID: **0803047-04**  
 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	2	ALM

Parameter	Result
Dichlorodifluoromethane	4.00 U
Chloromethane	4.00 U
Vinyl chloride	15.0
Chloroethane	4.00 U
1,1-Dichloroethene	4.00 U
Methylene chloride	10.0 U
trans-1,2-Dichloroethene	4.00 U
1,1-Dichloroethane	4.00 U
cis-1,2-Dichloroethene	222
1,1,1-Trichloroethane	4.00 U
Carbon tetrachloride	4.00 U
1,2-Dichloroethane	4.00 U
Trichloroethene	183
1,2-Dichloropropane	4.00 U
Bromodichloromethane	4.00 U
cis-1,3-Dichloropropene	4.00 U
trans-1,3-Dichloropropene	4.00 U
1,1,2-Trichloroethane	4.00 U
Tetrachloroethene	32.7
1,3-Dichloropropane	4.00 U
Dibromochloromethane	4.00 U
1,2-Dibromoethane	4.00 U
Chlorobenzene	4.00 U
1,1,1,2-Tetrachloroethane	4.00 U
Bromoform	4.00 U
1,1,2,2-Tetrachloroethane	4.00 U
2-Chlorotoluene	4.00 U
4-Chlorotoluene	4.00 U
1,3-Dichlorobenzene	4.00 U
1,4-Dichlorobenzene	4.00 U
1,2-Dichlorobenzene	4.00 U
1,2,4-Trichlorobenzene	4.00 U
Hexachlorobutadiene	4.00 U

Surrogate	% Recovery	Acceptance Range (%)
Dibromofluoromethane	102	70-130
1,2-Dichloroethane-d4	108	70-130
Toluene-d8	94	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: **L0803236 - ERM BOSTON**  
 Client ID: **MW-267S-20080306-01**  
 Case: **N/A** SDG: **N/A**  
 Matrix: **Water**

Lab Code: **MA00030**  
 ETR: **0803047**  
 Lab ID: **0803047-05**  
 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	94.7
1,1,1-Trichloroethane	2.00 U
Carbon tetrachloride	2.00 U
1,2-Dichloroethane	2.00 U
Trichloroethene	532 E
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	9.81
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	104	70-130
1,2-Dichloroethane-d4	113	70-130
Toluene-d8	91	70-130
4-Bromofluorobenzene	97	70-130

N/A - Not Applicable

E - Estimated value, exceeds the upper limit of calibration.

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: **L0803236 - ERM BOSTON**  
 Client ID: **MW-267S-20080306-01**  
 Case: **N/A**      SDG: **N/A**  
 Matrix: **Water**

Lab Code: **MA00030**  
 ETR: **0803047**  
 Lab ID: **0803047-05E**  
 Associated Blank: **VW031408B04**  
 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	03/14/08	5	5	5	ALM

Parameter	Result
Dichlorodifluoromethane	10.0 U
Chloromethane	10.0 U
Vinyl chloride	10.0 U
Chloroethane	10.0 U
1,1-Dichloroethene	10.0 U
Methylene chloride	25.0 U
trans-1,2-Dichloroethene	10.0 U
1,1-Dichloroethane	10.0 U
cis-1,2-Dichloroethene	90.2
1,1,1-Trichloroethane	10.0 U
Carbon tetrachloride	10.0 U
1,2-Dichloroethane	10.0 U
Trichloroethene	555
1,2-Dichloropropane	10.0 U
Bromodichloromethane	10.0 U
cis-1,3-Dichloropropene	10.0 U
trans-1,3-Dichloropropene	10.0 U
1,1,2-Trichloroethane	10.0 U
Tetrachloroethene	10.0 U
1,3-Dichloropropane	10.0 U
Dibromochloromethane	10.0 U
1,2-Dibromoethane	10.0 U
Chlorobenzene	10.0 U
1,1,1,2-Tetrachloroethane	10.0 U
Bromoform	10.0 U
1,1,2,2-Tetrachloroethane	10.0 U
2-Chlorotoluene	10.0 U
4-Chlorotoluene	10.0 U
1,3-Dichlorobenzene	10.0 U
1,4-Dichlorobenzene	10.0 U
1,2-Dichlorobenzene	10.0 U
1,2,4-Trichlorobenzene	10.0 U
Hexachlorobutadiene	10.0 U

Surrogate	% Recovery	Acceptance Range (%)
Dibromofluoromethane	103	70-130
1,2-Dichloroethane-d4	107	70-130
Toluene-d8	93	70-130
4-Bromofluorobenzene	91	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: **L0803236 - ERM BOSTON**  
 Client ID: **MW-267M-20080306-01**  
 Case: **N/A** SDG: **N/A**  
 Matrix: **Water**

Lab Code: **MA00030**  
 ETR: **0803047**  
 Lab ID: **0803047-06**  
 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	5	ALM

Parameter	Result
Dichlorodifluoromethane	10.0 U
Chloromethane	10.0 U
Vinyl chloride	<b>23.8</b>
Chloroethane	10.0 U
1,1-Dichloroethene	10.0 U
Methylene chloride	25.0 U
trans-1,2-Dichloroethene	10.0 U
1,1-Dichloroethane	10.0 U
cis-1,2-Dichloroethene	<b>661</b>
1,1,1-Trichloroethane	10.0 U
Carbon tetrachloride	10.0 U
1,2-Dichloroethane	10.0 U
Trichloroethene	<b>768</b>
1,2-Dichloropropane	10.0 U
Bromodichloromethane	10.0 U
cis-1,3-Dichloropropene	10.0 U
trans-1,3-Dichloropropene	10.0 U
1,1,2-Trichloroethane	10.0 U
Tetrachloroethene	<b>45.3</b>
1,3-Dichloropropane	10.0 U
Dibromochloromethane	10.0 U
1,2-Dibromoethane	10.0 U
Chlorobenzene	10.0 U
1,1,1,2-Tetrachloroethane	10.0 U
Bromoform	10.0 U
1,1,2,2-Tetrachloroethane	10.0 U
2-Chlorotoluene	10.0 U
4-Chlorotoluene	10.0 U
1,3-Dichlorobenzene	10.0 U
1,4-Dichlorobenzene	10.0 U
1,2-Dichlorobenzene	10.0 U
1,2,4-Trichlorobenzene	10.0 U
Hexachlorobutadiene	10.0 U

Surrogate	% Recovery	Acceptance Range (%)
Dibromofluoromethane	104	70-130
1,2-Dichloroethane-d4	109	70-130
Toluene-d8	102	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: **L0803236 - ERM BOSTON**  
 Client ID: **MW-268M-20080306-01**  
 Case: **N/A**      SDG: **N/A**  
 Matrix: **Water**

Lab Code: **MA00030**  
 ETR: **0803047**  
 Lab ID: **0803047-07**  
 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	20	ALM

Parameter	Result
Dichlorodifluoromethane	40.0 U
Chloromethane	40.0 U
Vinyl chloride	112
Chloroethane	40.0 U
1,1-Dichloroethene	40.0 U
Methylene chloride	100 U
trans-1,2-Dichloroethene	40.0 U
1,1-Dichloroethane	40.0 U
cis-1,2-Dichloroethene	3310
1,1,1-Trichloroethane	40.0 U
Carbon tetrachloride	40.0 U
1,2-Dichloroethane	40.0 U
Trichloroethene	1990
1,2-Dichloropropane	40.0 U
Bromodichloromethane	40.0 U
cis-1,3-Dichloropropene	40.0 U
trans-1,3-Dichloropropene	40.0 U
1,1,2-Trichloroethane	40.0 U
Tetrachloroethene	57.6
1,3-Dichloropropane	40.0 U
Dibromochloromethane	40.0 U
1,2-Dibromoethane	40.0 U
Chlorobenzene	40.0 U
1,1,1,2-Tetrachloroethane	40.0 U
Bromoform	40.0 U
1,1,1,2,2-Tetrachloroethane	40.0 U
2-Chlorotoluene	40.0 U
4-Chlorotoluene	40.0 U
1,3-Dichlorobenzene	40.0 U
1,4-Dichlorobenzene	40.0 U
1,2-Dichlorobenzene	40.0 U
1,2,4-Trichlorobenzene	40.0 U
Hexachlorobutadiene	40.0 U

Surrogate	% Recovery	Acceptance Range (%)
Dibromofluoromethane	97	70-130
1,2-Dichloroethane-d4	100	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	95	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: **L0803236 - ERM BOSTON**  
 Client ID: **MW-268D-20080306-01**  
 Case: **N/A** SDG: **N/A**  
 Matrix: **Water**

Lab Code: **MA00030**  
 ETR: **0803047**  
 Lab ID: **0803047-08**  
 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	9.55
1,1,1-Trichloroethane	2.00 U
Carbon tetrachloride	2.00 U
1,2-Dichloroethane	2.00 U
Trichloroethene	9.41
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	107	70-130
1,2-Dichloroethane-d4	115	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	99	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: **L0803236 - ERM BOSTON**  
 Client ID: **MW-551-20080306-01**  
 Case: **N/A** SDG: **N/A**  
 Matrix: **Water**

Lab Code: **MA00030**  
 ETR: **0803047**  
 Lab ID: **0803047-09**  
 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	2.00 U
1,1,1-Trichloroethane	2.00 U
Carbon tetrachloride	2.00 U
1,2-Dichloroethane	2.00 U
Trichloroethene	<b>16.8</b>
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	107	70-130
1,2-Dichloroethane-d4	116	70-130
Toluene-d8	92	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: **L0803236 - ERM BOSTON**  
 Client ID: **MW-552-20080306-01**  
 Case: **N/A**      SDG: **N/A**  
 Matrix: **Water**

Lab Code: **MA00030**  
 ETR: **0803047**  
 Lab ID: **0803047-10**  
 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	50	ALM

Parameter	Result
Dichlorodifluoromethane	100 U
Chloromethane	100 U
Vinyl chloride	100 U
Chloroethane	100 U
1,1-Dichloroethene	100 U
Methylene chloride	250 U
trans-1,2-Dichloroethene	100 U
1,1-Dichloroethane	100 U
cis-1,2-Dichloroethene	325
1,1,1-Trichloroethane	100 U
Carbon tetrachloride	100 U
1,2-Dichloroethane	100 U
Trichloroethene	4020
1,2-Dichloropropane	100 U
Bromodichloromethane	100 U
cis-1,3-Dichloropropene	100 U
trans-1,3-Dichloropropene	100 U
1,1,2-Trichloroethane	100 U
Tetrachloroethene	170
1,3-Dichloropropane	100 U
Dibromochloromethane	100 U
1,2-Dibromoethane	100 U
Chlorobenzene	100 U
1,1,1,2-Tetrachloroethane	100 U
Bromoform	100 U
1,1,2,2-Tetrachloroethane	100 U
2-Chlorotoluene	100 U
4-Chlorotoluene	100 U
1,3-Dichlorobenzene	100 U
1,4-Dichlorobenzene	100 U
1,2-Dichlorobenzene	100 U
1,2,4-Trichlorobenzene	100 U
Hexachlorobutadiene	100 U

Surrogate	% Recovery	Acceptance Range (%)
Dibromofluoromethane	105	70-130
1,2-Dichloroethane-d4	114	70-130
Toluene-d8	99	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: **L0803236 - ERM BOSTON**  
 Client ID: **MW-553-20080306-01**  
 Case: **N/A**      SDG: **N/A**  
 Matrix: **Water**

Lab Code: **MA00030**  
 ETR: **0803047**  
 Lab ID: **0803047-11**  
 Associated Blank: **VW031408B04**  
 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	03/14/08	5	5	2	ALM

Parameter	Result
Dichlorodifluoromethane	4.00 U
Chloromethane	4.00 U
Vinyl chloride	4.00 U
Chloroethane	4.00 U
1,1-Dichloroethene	4.00 U
Methylene chloride	10.0 U
trans-1,2-Dichloroethene	4.00 U
1,1-Dichloroethane	4.00 U
cis-1,2-Dichloroethene	53.5
1,1,1-Trichloroethane	4.00 U
Carbon tetrachloride	4.00 U
1,2-Dichloroethane	4.00 U
Trichloroethene	305
1,2-Dichloropropane	4.00 U
Bromodichloromethane	4.00 U
cis-1,3-Dichloropropene	4.00 U
trans-1,3-Dichloropropene	4.00 U
1,1,2-Trichloroethane	4.00 U
Tetrachloroethene	29.5
1,3-Dichloropropane	4.00 U
Dibromochloromethane	4.00 U
1,2-Dibromoethane	4.00 U
Chlorobenzene	4.00 U
1,1,1,2-Tetrachloroethane	4.00 U
Bromoform	4.00 U
1,1,2,2-Tetrachloroethane	4.00 U
2-Chlorotoluene	4.00 U
4-Chlorotoluene	4.00 U
1,3-Dichlorobenzene	4.00 U
1,4-Dichlorobenzene	4.00 U
1,2-Dichlorobenzene	4.00 U
1,2,4-Trichlorobenzene	4.00 U
Hexachlorobutadiene	4.00 U

Surrogate	% Recovery	Acceptance Range (%)
Dibromofluoromethane	103	70-130
1,2-Dichloroethane-d4	110	70-130
Toluene-d8	93	70-130
4-Bromofluorobenzene	91	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: **L0803236 - ERM BOSTON**  
 Client ID: **DUP-001-20080306-01**  
 Case: **N/A**      SDG: **N/A**  
 Matrix: **Water**

Lab Code: **MA00030**  
 ETR: **0803047**  
 Lab ID: **0803047-12**  
 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	20	ALM

Parameter	Result
Dichlorodifluoromethane	40.0 U
Chloromethane	40.0 U
Vinyl chloride	117
Chloroethane	40.0 U
1,1-Dichloroethene	40.0 U
Methylene chloride	100 U
trans-1,2-Dichloroethene	40.0 U
1,1-Dichloroethane	40.0 U
cis-1,2-Dichloroethene	3440
1,1,1-Trichloroethane	40.0 U
Carbon tetrachloride	40.0 U
1,2-Dichloroethane	40.0 U
Trichloroethene	1990
1,2-Dichloropropane	40.0 U
Bromodichloromethane	40.0 U
cis-1,3-Dichloropropene	40.0 U
trans-1,3-Dichloropropene	40.0 U
1,1,2-Trichloroethane	40.0 U
Tetrachloroethene	57.6
1,3-Dichloropropane	40.0 U
Dibromochloromethane	40.0 U
1,2-Dibromoethane	40.0 U
Chlorobenzene	40.0 U
1,1,1,2-Tetrachloroethane	40.0 U
Bromoform	40.0 U
1,1,2,2-Tetrachloroethane	40.0 U
2-Chlorotoluene	40.0 U
4-Chlorotoluene	40.0 U
1,3-Dichlorobenzene	40.0 U
1,4-Dichlorobenzene	40.0 U
1,2-Dichlorobenzene	40.0 U
1,2,4-Trichlorobenzene	40.0 U
Hexachlorobutadiene	40.0 U

Surrogate	% Recovery	Acceptance Range (%)
Dibromofluoromethane	100	70-130
1,2-Dichloroethane-d4	107	70-130
Toluene-d8	99	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: **L0803236 - ERM BOSTON**  
 Client ID: **DUP-002-20080306-01**  
 Case: **N/A**      SDG: **N/A**  
 Matrix: **Water**

Lab Code: **MA00030**  
 ETR: **0803047**  
 Lab ID: **0803047-13**  
 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	20	ALM

Parameter	Result
Dichlorodifluoromethane	40.0 U
Chloromethane	40.0 U
Vinyl chloride	40.0 U
Chloroethane	40.0 U
1,1-Dichloroethene	40.0 U
Methylene chloride	100 U
trans-1,2-Dichloroethene	40.0 U
1,1-Dichloroethane	40.0 U
cis-1,2-Dichloroethene	117
1,1,1-Trichloroethane	40.0 U
Carbon tetrachloride	40.0 U
1,2-Dichloroethane	40.0 U
Trichloroethene	3310
1,2-Dichloropropane	40.0 U
Bromodichloromethane	40.0 U
cis-1,3-Dichloropropene	40.0 U
trans-1,3-Dichloropropene	40.0 U
1,1,2-Trichloroethane	40.0 U
Tetrachloroethene	71.6
1,3-Dichloropropane	40.0 U
Dibromochloromethane	40.0 U
1,2-Dibromoethane	40.0 U
Chlorobenzene	40.0 U
1,1,1,2-Tetrachloroethane	40.0 U
Bromoform	40.0 U
1,1,2,2-Tetrachloroethane	40.0 U
2-Chlorotoluene	40.0 U
4-Chlorotoluene	40.0 U
1,3-Dichlorobenzene	40.0 U
1,4-Dichlorobenzene	40.0 U
1,2-Dichlorobenzene	40.0 U
1,2,4-Trichlorobenzene	40.0 U
Hexachlorobutadiene	40.0 U

Surrogate	% Recovery	Acceptance Range (%)
Dibromofluoromethane	99	70-130
1,2-Dichloroethane-d4	107	70-130
Toluene-d8	99	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: **L0803236 - ERM BOSTON**  
 Client ID: **TB-001-20080306-01**  
 Case: **N/A** SDG: **N/A**  
 Matrix: **Water**

Lab Code: **MA00030**  
 ETR: **0803047**  
 Lab ID: **0803047-14**  
 Associated Blank: **VW031208B02**  
 Concentration Units: **µg/L**

Date Collected	Date Received	Date Analyzed	Sample Amount (ml)	Final Volume (ml)	Dilution Factor	Analyst
02/04/08	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	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	100	70-130
1,2-Dichloroethane-d4	102	70-130
Toluene-d8	99	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: **L0803236 - ERM BOSTON**  
 Client ID: **Blank**  
 Case: **N/A**      SDG: **N/A**  
 Matrix: **Water**

Lab Code: **MA00030**  
 ETR: **0803047**  
 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: **L0803236 - ERM BOSTON**  
 Client ID: **Blank**  
 Case: **N/A**      SDG: **N/A**  
 Matrix: **Water**

Lab Code: **MA00030**  
 ETR: **0803047**  
 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 I

## Volatile Organics by 8260



Client: **Alpha Analytical - Westborough**  
 Project: **L0803236 - ERM BOSTON**  
 Client ID: **Blank**  
 Case: **N/A**      SDG: **N/A**  
 Matrix: **Water**

Lab Code: **MA00030**  
 ETR: **0803047**  
 Lab ID: **VW031408B04**  
 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	03/14/08	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	103	70-130
1,2-Dichloroethane-d4	110	70-130
Toluene-d8	92	70-130
4-Bromofluorobenzene	92	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: **L0803236 - ERM BOSTON**  
 Client ID: **Laboratory Control Sample**  
 Case: **N/A** SDG: **N/A**  
 Matrix: **Water**

Lab Code: **MA00030**  
 ETR: **0803047**  
 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.	U	LCS		LCSD		% RPD	RPD % Recovery	
			Conc.	% Recovery	Conc.	% Recovery		Limit	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: **L0803236 - ERM BOSTON**  
 Client ID: **Laboratory Control Sample**  
 Case: **N/A** SDG: **N/A**  
 Matrix: **Water**

Lab Code: **MA00030**  
 ETR: **0803047**  
 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.	U	LCS		LCSD		% RPD	RPD % Recovery	
			Conc.	% Recovery	Conc.	% Recovery		Limit	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.

# Form III Spike Recovery Summary Volatile Organics by 8260



Client: **Alpha Analytical - Westborough**  
 Project: **L0803236 - ERM BOSTON**  
 Client ID: **Laboratory Control Sample**  
 Case: **N/A** SDG: **N/A**  
 Matrix: **Water**

Lab Code: **MA00030**  
 ETR: **0803047**  
 Lab ID: **See Below**  
 Associated Blank: **VW031408B04**  
 Concentration Units: **µg/L**

Date Collected	Date Received	Date Analyzed	Sample Amount (ml)	Final Volume (ml)	Dilution Factor	Analyst
N/A	N/A	03/14/08	5	5	1	ALM

Lab ID: **VW031408B04 VW031408LCS03 VW031408LCSD03**

Parameter	Blank Conc.	U	LCS		LCSD		% RPD	RPD % Recovery	
			Conc.	% Recovery	Conc.	% Recovery		Limit	Limits
Dichlorodifluoromethane	2.00	U	18.9	94	19.1	95	1	25	70-130
Chloromethane	2.00	U	19.0	95	19.0	95	0	25	70-130
Vinyl chloride	2.00	U	20.6	103	21.0	105	2	25	70-130
Chloroethane	2.00	U	20.1	101	20.2	101	0	25	70-130
1,1-Dichloroethene	2.00	U	19.4	97	20.0	100	3	25	70-130
Methylene chloride	5.00	U	17.0	85	17.2	86	1	25	70-130
trans-1,2-Dichloroethene	2.00	U	18.8	94	19.3	96	3	25	70-130
1,1-Dichloroethane	2.00	U	18.8	94	19.2	96	2	25	70-130
cis-1,2-Dichloroethene	2.00	U	18.8	94	18.7	93	1	25	70-130
1,1,1-Trichloroethane	2.00	U	17.1	85	17.4	87	2	25	70-130
Carbon tetrachloride	2.00	U	15.2	76	15.6	78	3	25	70-130
1,2-Dichloroethane	2.00	U	19.6	98	19.8	99	1	25	70-130
Trichloroethene	2.00	U	16.2	81	16.7	84	3	25	70-130
1,2-Dichloropropane	2.00	U	17.4	87	17.9	89	3	25	70-130
Bromodichloromethane	2.00	U	17.0	85	17.6	88	4	25	70-130
cis-1,3-Dichloropropene	2.00	U	17.8	89	17.9	90	1	25	70-130
trans-1,3-Dichloropropene	2.00	U	17.6	88	17.7	88	0	25	70-130
1,1,2-Trichloroethane	2.00	U	17.6	88	17.8	89	1	25	70-130
Tetrachloroethene	2.00	U	16.5	82	16.8	84	2	25	70-130
1,3-Dichloropropane	2.00	U	17.8	89	18.1	91	2	25	70-130
Dibromochloromethane	2.00	U	16.9	84	16.8	84	1	25	70-130
1,2-Dibromoethane	2.00	U	17.4	87	17.8	89	2	25	70-130
Chlorobenzene	2.00	U	19.1	95	19.4	97	2	25	70-130
1,1,1,2-Tetrachloroethane	2.00	U	17.8	89	18.4	92	3	25	70-130
Bromoform	2.00	U	17.2	86	17.1	86	0	25	70-130
1,1,2,2-Tetrachloroethane	2.00	U	19.4	97	19.4	97	0	25	70-130
2-Chlorotoluene	2.00	U	19.0	95	19.0	95	0	25	70-130
4-Chlorotoluene	2.00	U	19.5	97	19.5	98	0	25	70-130
1,3-Dichlorobenzene	2.00	U	19.4	97	19.4	97	0	25	70-130
1,4-Dichlorobenzene	2.00	U	18.9	94	19.0	95	1	25	70-130
1,2-Dichlorobenzene	2.00	U	19.6	98	19.5	97	0	25	70-130
1,2,4-Trichlorobenzene	2.00	U	18.4	92	18.2	91	1	25	70-130
Hexachlorobutadiene	2.00	U	20.0	100	19.5	97	3	25	70-130

Surrogate	% Recovery		Acceptance Range (%)
Dibromofluoromethane	100	101	70-130
1,2-Dichloroethane-d4	106	106	70-130
Toluene-d8	98	97	70-130
4-Bromofluorobenzene	99	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.

03/14/08 13:29  
26/58



*Supporting Quality  
Control Results*

**Form II  
Surrogate Recovery  
Volatile Organics by 8260**



Client: **Alpha Analytical - Westborough**  
Project: **L0803236 - ERM BOSTON**

Lab Code: **MA00030**  
ETR: **0803047**  
Matrix: **Water**

Case: **N/A**      SDG: **N/A**

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
TB-001-20080306-01	0803047-14	100	102	99	96
MW-266Ma-20080306-01	0803047-03	104	111	93	97
MW-267S-20080306-01	0803047-05	104	113	91	97
MW-268D-20080306-01	0803047-08	107	115	99	99
MW-551-20080306-01	0803047-09	107	116	92	98
MW-265M-20080306-01	0803047-02	106	119	101	99
LCS	VW031308LCS04	96	90	100	98
LCSD	VW031308LCSD04	96	90	100	100
Blank	VW031308B08	97	95	98	96
MW-261S-20080306-01	0803047-01	99	102	99	96
MW-268M-20080306-01	0803047-07	97	100	99	95
DUP-001-20080306-01	0803047-12	100	107	99	96
DUP-002-20080306-01	0803047-13	99	107	99	96
MW-266Mb-20080306-01	0803047-04	102	108	94	98
MW-267M-20080306-01	0803047-06	104	109	102	96
MW-552-20080306-01	0803047-10	105	114	99	98

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 II  
Surrogate Recovery  
Volatile Organics by 8260**



Client: **Alpha Analytical - Westborough**  
Project: **L0803236 - ERM BOSTON**

Lab Code: **MA00030**

ETR: **0803047**

Matrix: **Water**

Case: **N/A**      SDG: **N/A**

Client ID	Lab ID	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
LCS	VW031408LCS03	100	106	98	99
LCSD	VW031408LCSD03	101	106	97	99
Blank	VW031408B04	103	110	92	92
MW-267S-20080306-01	0803047-05E	103	107	93	91
MW-553-20080306-01	0803047-11	103	110	93	91

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: **L0803236 - ERM BOSTON**  
Case: **N/A**      SDG: **N/A**

Lab Code: **MA00030**  
ETR: **0803047**  
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
TB-001-20080306-01	0803047-14	03/12/08 17:22
MW-266Ma-20080306-01	0803047-03	03/12/08 19:55
MW-267S-20080306-01	0803047-05	03/12/08 20:26
MW-268D-20080306-01	0803047-08	03/12/08 20:57
MW-551-20080306-01	0803047-09	03/12/08 21:27
MW-265M-20080306-01	0803047-02	03/12/08 22:29

N/A - Not Applicable

**Form IV  
Method Blank Summary  
Volatile Organics by 8260**



Client: **Alpha Analytical - Westborough**  
Project: **L0803236 - ERM BOSTON**  
Case: **N/A**      SDG: **N/A**

Lab Code: **MA00030**  
ETR: **0803047**  
Lab ID: **VW031308B08**  
Date Analyzed: **03/13/08 18:52**

<b>Client ID</b>	<b>Lab ID</b>	<b>Date/Time Analyzed</b>
LCS	VW031308LCS04	03/13/08 17:20
LCSD	VW031308LCSD04	03/13/08 17:50
MW-261S-20080306-01	0803047-01	03/13/08 19:56
MW-268M-20080306-01	0803047-07	03/13/08 20:29
DUP-001-20080306-01	0803047-12	03/13/08 21:02
DUP-002-20080306-01	0803047-13	03/13/08 21:36
MW-266Mb-20080306-01	0803047-04	03/13/08 22:09
MW-267M-20080306-01	0803047-06	03/13/08 22:42
MW-552-20080306-01	0803047-10	03/13/08 23:16

N/A - Not Applicable

**Form IV  
Method Blank Summary  
Volatile Organics by 8260**



Client: **Alpha Analytical - Westborough**  
Project: **L0803236 - ERM BOSTON**  
Case: **N/A**      SDG: **N/A**

Lab Code: **MA00030**  
ETR: **0803047**  
Lab ID: **VW031408B04**  
Date Analyzed: **03/14/08 10:44**

<b>Client ID</b>	<b>Lab ID</b>	<b>Date/Time Analyzed</b>
LCS	VW031408LCS03	03/14/08 09:48
LCSD	VW031408LCSD03	03/14/08 10:16
MW-267S-20080306-01	0803047-05E	03/14/08 11:15
MW-553-20080306-01	0803047-11	03/14/08 12:17

N/A - Not Applicable

**Form V  
Tune Summary  
Volatile Organics by 8260**



Client: **Alpha Analytical - Westborough**  
 Project: **L0803236 - ERM BOSTON**  
 Case: **N/A**      SDG: **N/A**

Lab Code: **MA00030**  
 ETR: **0803047**  
 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: **L0803236 - ERM BOSTON**  
 Case: **N/A**      SDG: **N/A**

Lab Code: **MA00030**  
 ETR: **0803047**  
 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
TB-001-20080306-01	0803047-14	03/12/08 17:22
MW-266Ma-20080306-01	0803047-03	03/12/08 19:55
MW-267S-20080306-01	0803047-05	03/12/08 20:26
MW-268D-20080306-01	0803047-08	03/12/08 20:57
MW-551-20080306-01	0803047-09	03/12/08 21:27
MW-265M-20080306-01	0803047-02	03/12/08 22:29

N/A - Not Applicable



**Form V  
Tune Summary  
Volatile Organics by 8260**



Client: **Alpha Analytical - Westborough**  
 Project: **L0803236 - ERM BOSTON**  
 Case: N/A      SDG: N/A

Lab Code: **MA00030**  
 ETR: **0803047**  
 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: **L0803236 - ERM BOSTON**  
 Case: **N/A**      SDG: **N/A**

Lab Code: **MA00030**  
 ETR: **0803047**  
 Lab ID: **T3031301**  
 Date Analyzed: **03/13/08 11:21**

Target Mass	Relative To Mass	Lower Limit %	Upper Limit %	Relative Abundance %	Raw Abundance	Result
50	95	15	40	25.4	61944	Pass
75	95	30	60	56.5	137792	Pass
95	95	100	100	100	243712	Pass
96	95	5	9	6.8	16672	Pass
173	174	0	2	0	0	Pass
174	95	50	100	67.3	163904	Pass
175	174	5	9	7.3	12039	Pass
176	174	95	101	95.7	156928	Pass
177	176	5	9	6.8	10683	Pass

Client ID	Lab ID	Date/Time Analyzed
Initial Calibration	I3031301	03/13/08 11:49
Initial Calibration	I3031302	03/13/08 12:17
Initial Calibration	I3031303	03/13/08 12:45
Initial Calibration	I3031304	03/13/08 13:14
Initial Calibration	I3031305	03/13/08 13:42
Initial Calibration	I3031306	03/13/08 14:10

N/A - Not Applicable

**Form V  
Tune Summary  
Volatile Organics by 8260**



Client: **Alpha Analytical - Westborough**  
 Project: **L0803236 - ERM BOSTON**  
 Case: **N/A**      SDG: **N/A**

Lab Code: **MA00030**  
 ETR: **0803047**  
 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-261S-20080306-01	0803047-01	03/13/08 19:56
MW-268M-20080306-01	0803047-07	03/13/08 20:29
DUP-001-20080306-01	0803047-12	03/13/08 21:02
DUP-002-20080306-01	0803047-13	03/13/08 21:36
MW-266Mb-20080306-01	0803047-04	03/13/08 22:09
MW-267M-20080306-01	0803047-06	03/13/08 22:42
MW-552-20080306-01	0803047-10	03/13/08 23:16

N/A - Not Applicable

**Form V  
Tune Summary  
Volatile Organics by 8260**



Client: **Alpha Analytical - Westborough**  
 Project: **L0803236 - ERM BOSTON**  
 Case: **N/A**      SDG: **N/A**

Lab Code: **MA00030**  
 ETR: **0803047**  
 Lab ID: **T3031401**  
 Date Analyzed: **03/14/08 08:51**

Target Mass	Relative To Mass	Lower Limit %	Upper Limit %	Relative Abundance %	Raw Abundance	Result
50	95	15	40	27.1	52371	Pass
75	95	30	60	57.6	111309	Pass
95	95	100	100	100	193152	Pass
96	95	5	9	6.3	12223	Pass
173	174	0	2	0	0	Pass
174	95	50	100	65.8	127163	Pass
175	174	5	9	7.5	9592	Pass
176	174	95	101	99.1	125968	Pass
177	176	5	9	6.9	8721	Pass

Client ID	Lab ID	Date/Time Analyzed
CCV	C3031401	03/14/08 09:19
LCS	VW031408LCS03	03/14/08 09:48
LCSD	VW031408LCSD03	03/14/08 10:16
Blank	VW031408B04	03/14/08 10:44
MW-267S-20080306-01	0803047-05E	03/14/08 11:15
MW-553-20080306-01	0803047-11	03/14/08 12:17

N/A - Not Applicable

# Form VI

## Initial Calibration Summary

### Volatile Organics by 8260



Client: **Alpha Analytical - Westborough**  
 Project: **L0803236 - ERM BOSTON**

Lab Code: **MA00030**  
 ETR: **0803047**

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

Parameter	Response Factors						Mean	% RSD
	2	5	50	100	200	20		
Dichlorodifluoromethane	0.88	1.12	1.34	1.53	1.37	1.51	1.29	19.2 <sup>a</sup>
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 <sup>a</sup>
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
1,1,1,2,2-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

<sup>a</sup> - Value outside of QC advisory limits.

**Form VI  
Initial Calibration Summary  
Volatile Organics by 8260**



Client: **Alpha Analytical - Westborough**  
 Project: **L0803236 - ERM BOSTON**  
 Case: **N/A**      SDG: **N/A**

Lab Code: **MA00030**  
 ETR: **0803047**

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

Parameter	Response Factors						Mean	% RSD
	2	5	50	100	200	20		
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

# Form VI Initial Calibration Summary Volatile Organics by 8260



Client: **Alpha Analytical - Westborough**  
Project: **L0803236 - ERM BOSTON**

Lab Code: **MA00030**  
ETR: **0803047**

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
1,1,1,2,2-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: **L0803236 - ERM BOSTON**

Lab Code: **MA00030**  
ETR: **0803047**

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

Parameter	Response Factors						Mean	% RSD
	2	5	20	50	100	200		
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 VI Initial Calibration Summary Volatile Organics by 8260



Client: **Alpha Analytical - Westborough**  
Project: **L0803236 - ERM BOSTON**

Lab Code: **MA00030**  
ETR: **0803047**

Case: **N/A**      SDG: **N/A**

Lab ID	Date/Time Analyzed
I3031301	03/13/08 11:49
I3031302	03/13/08 12:17
I3031303	03/13/08 12:45
I3031304	03/13/08 13:14
I3031305	03/13/08 13:42
I3031306	03/13/08 14:10

Parameter	Response Factors						Mean	% RSD
	2	5	20	50	100	200		
Dichlorodifluoromethane	0.83	0.85	0.86	0.86	0.84	0.76	0.83	4.5
Chloromethane	1.15	1.04	0.97	0.98	0.96	0.90	1.00	8.8
Vinyl chloride	0.79	0.75	0.72	0.73	0.71	0.66	0.73	6.0
Chloroethane	0.45	0.42	0.40	0.40	0.38		0.41	6.3
1,1-Dichloroethene	0.93	0.84	0.79	0.80	0.78	0.72	0.81	9.0
Methylene chloride	0.68	0.51	0.44	0.55	0.54	0.50	0.54	15.2 <sup>a</sup>
trans-1,2-Dichloroethene	1.02	0.91	0.89	0.94	0.93	0.86	0.92	6.0
1,1-Dichloroethane	1.36	1.21	1.16	1.23	1.20	1.10	1.21	7.3
cis-1,2-Dichloroethene	0.91	0.91	0.87	0.94	0.94	0.91	0.91	2.8
1,1,1-Trichloroethane	0.85	0.77	0.76	0.83	0.83	0.81	0.81	4.4
Carbon tetrachloride	0.68	0.58	0.54	0.60	0.61	0.61	0.60	7.7
1,2-Dichloroethane	1.06	1.00	0.95	1.00	1.01	0.95	0.99	4.1
Trichloroethene	0.25	0.21	0.20	0.22	0.22	0.22	0.22	7.2
1,2-Dichloropropane	0.28	0.25	0.25	0.27	0.27	0.26	0.26	4.2
Bromodichloromethane	0.30	0.28	0.28	0.31	0.32	0.32	0.30	6.1
cis-1,3-Dichloropropene	0.32	0.33	0.35	0.40	0.41	0.40	0.37	11.5
trans-1,3-Dichloropropene	0.30	0.29	0.32	0.37	0.39	0.39	0.34	13.0
1,1,2-Trichloroethane	0.19	0.18	0.18	0.19	0.19	0.19	0.19	3.7
Tetrachloroethene	0.18	0.17	0.16	0.17	0.17	0.17	0.17	3.9
1,3-Dichloropropane	0.38	0.37	0.38	0.42	0.42	0.40	0.39	5.0
Dibromochloromethane	0.17	0.16	0.17	0.19	0.20	0.21	0.18	10.8
1,2-Dibromoethane	0.18	0.18	0.18	0.20	0.20	0.20	0.19	4.9
Chlorobenzene	0.80	0.76	0.74	0.82	0.83	0.80	0.79	4.4
1,1,1,2-Tetrachloroethane	0.24	0.23	0.25	0.28	0.30	0.29	0.26	10.9
Bromoform	0.11	0.12	0.14	0.17	0.19	0.19	0.15	23.8 <sup>a</sup>
1,1,2,2-Tetrachloroethane	0.39	0.38	0.40	0.45	0.45	0.43	0.42	7.2
2-Chlorotoluene	0.77	0.75	0.82	0.96	0.97	0.95	0.87	11.6
4-Chlorotoluene	0.80	0.82	0.89	1.03	1.05	1.02	0.94	11.9
1,3-Dichlorobenzene	0.50	0.46	0.49	0.56	0.57	0.55	0.52	8.6
1,4-Dichlorobenzene	0.52	0.48	0.51	0.58	0.59	0.57	0.54	8.2
1,2-Dichlorobenzene	0.46	0.44	0.48	0.55	0.55	0.53	0.50	9.4
1,2,4-Trichlorobenzene	0.23	0.21	0.23	0.28	0.30	0.29	0.26	15.5 <sup>a</sup>

N/A - Not Applicable

<sup>a</sup> - Value outside of QC advisory limits.

**Form VI  
Initial Calibration Summary  
Volatile Organics by 8260**



Client: **Alpha Analytical - Westborough**  
Project: **L0803236 - ERM BOSTON**

Lab Code: **MA00030**  
ETR: **0803047**

Case: **N/A**      SDG: **N/A**

Lab ID	Date/Time Analyzed
I3031301	03/13/08 11:49
I3031302	03/13/08 12:17
I3031303	03/13/08 12:45
I3031304	03/13/08 13:14
I3031305	03/13/08 13:42
I3031306	03/13/08 14:10

Parameter	Response Factors						Mean	% RSD
	2	5	20	50	100	200		
Hexachlorobutadiene	0.11	0.073	0.079	0.089	0.092	0.091	0.088	12.8
Dibromofluoromethane	0.59	0.58	0.59	0.59	0.58	0.57	0.58	1.5
1,2-Dichloroethane-d4	0.97	0.94	0.96	0.95	0.97	0.94	0.95	1.4
Toluene-d8	1.01	1.02	1.01	0.99	1.00	0.99	1.00	1.1
4-Bromofluorobenzene	0.52	0.52	0.52	0.53	0.53	0.52	0.52	0.9
Average RSD								7.6

N/A - Not Applicable

**Form VII  
Calibration Verification  
Volatile Organics by 8260**



Client: **Alpha Analytical - Westborough**  
 Project: **L0803236 - ERM BOSTON**  
 Case: **N/A**      SDG: **N/A**

Lab Code: **MA00030**  
 ETR: **0803047**  
 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
1,1,1,2,2-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: **L0803236 - ERM BOSTON**

Lab Code: **MA00030**  
ETR: **0803047**  
Lab ID: **C1031303**

Case: **N/A**      SDG: **N/A**

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

# Form VII Calibration Verification Volatile Organics by 8260



Client: **Alpha Analytical - Westborough**  
 Project: **L0803236 - ERM BOSTON**  
 Case: **N/A**      SDG: **N/A**

Lab Code: **MA00030**  
 ETR: **0803047**  
 Lab ID: **C3031401**

Parameter	Ave. RF	CCV RF	Percent Deviation	Deviation Limit
Dichlorodifluoromethane	0.83	0.88	5.6	30
Chloromethane	1.00	1.01	1.3	30
Vinyl chloride	0.73	0.78	6.7	20
Chloroethane	0.41	0.44	7.0	30
1,1-Dichloroethene	0.81	0.88	8.3	20
Methylene chloride	0.54	0.49	9.2	30
trans-1,2-Dichloroethene	0.92	0.94	2.3	30
1,1-Dichloroethane	1.21	1.25	3.1	30
cis-1,2-Dichloroethene	0.91	0.95	3.9	30
1,1,1-Trichloroethane	0.81	0.82	1.6	30
Carbon tetrachloride	0.60	0.57	6.2	30
1,2-Dichloroethane	0.99	1.05	5.6	30
Trichloroethene	0.22	0.22	1.1	30
1,2-Dichloropropane	0.26	0.26	0.4	20
Bromodichloromethane	0.30	0.30	0.3	30
cis-1,3-Dichloropropene	0.37	0.39	5.7	30
trans-1,3-Dichloropropene	0.34	0.37	6.3	30
1,1,2-Trichloroethane	0.19	0.19	0.6	30
Tetrachloroethene	0.17	0.17	0.6	30
1,3-Dichloropropane	0.39	0.40	2.4	30
Dibromochloromethane	0.18	0.18	0.2	30
1,2-Dibromoethane	0.19	0.19	0.8	30
Chlorobenzene	0.79	0.84	6.0	30
1,1,1,2-Tetrachloroethane	0.26	0.28	5.4	30
Bromoform	0.15	0.17	7.9	30
1,1,2,2-Tetrachloroethane	0.42	0.46	9.8	30
2-Chlorotoluene	0.87	0.98	13.0	30
4-Chlorotoluene	0.94	1.08	15.1	30
1,3-Dichlorobenzene	0.52	0.58	12.0	30
1,4-Dichlorobenzene	0.54	0.59	10.2	30
1,2-Dichlorobenzene	0.50	0.57	13.0	30
1,2,4-Trichlorobenzene	0.26	0.28	8.8	30
Hexachlorobutadiene	0.088	0.092	4.0	30
Dibromofluoromethane	0.58	0.60	3.4	30
1,2-Dichloroethane-d4	0.95	1.02	7.0	30
Toluene-d8	1.00	1.00	0.2	30
4-Bromofluorobenzene	0.52	0.53	0.8	30
Average % D			5.3	

N/A - Not Applicable

# Form VIII Internal Standard Summary Volatile Organics by 8260



Client: **Alpha Analytical - Westborough**  
 Project: **L0803236 - ERM BOSTON**  
 Case: **N/A**      SDG: **N/A**

Lab Code: **MA00030**  
 ETR: **0803047**  
 Lab ID: **C1031201**

	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	Area	RT	Area	RT	Area	RT
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
TB-001-20080306-01	0803047-14	295331	5.67	669932	6.40	938054	10.67
MW-266Ma-20080306-01	0803047-03	264297	5.66	612347	6.39	874901	10.65
MW-267S-20080306-01	0803047-05	257676	5.66	599865	6.39	846262	10.65
MW-268D-20080306-01	0803047-08	245299	5.66	580923	6.39	821454	10.65
MW-551-20080306-01	0803047-09	247253	5.65	586248	6.39	827947	10.65
MW-265M-20080306-01	0803047-02	240338	5.65	580633	6.38	812238	10.65

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: **L0803236 - ERM BOSTON**  
 Case: **N/A**      SDG: **N/A**

Lab Code: **MA00030**  
 ETR: **0803047**  
 Lab ID: **C1031303**

	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	
<b>Client ID</b>	<b>Lab ID</b>						
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-261S-20080306-01	0803047-01	267004	5.64	627426	6.37	882118	10.63
MW-268M-20080306-01	0803047-07	271639	5.64	623288	6.37	880136	10.63
DUP-001-20080306-01	0803047-12	257177	5.64	607178	6.37	862728	10.63
DUP-002-20080306-01	0803047-13	248110	5.64	585276	6.37	839672	10.63
MW-266Mb-20080306-01	0803047-04	241250	5.64	567830	6.37	798437	10.63
MW-267M-20080306-01	0803047-06	233537	5.64	541804	6.37	787670	10.63
MW-552-20080306-01	0803047-10	225033	5.64	552794	6.37	780704	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.

# Form VIII Internal Standard Summary Volatile Organics by 8260



Client: **Alpha Analytical - Westborough**  
 Project: **L0803236 - ERM BOSTON**  
 Case: **N/A**      SDG: **N/A**

Lab Code: **MA00030**  
 ETR: **0803047**  
 Lab ID: **C3031401**

	Pentafluorobenzene		Fluorobenzene		Chlorobenzene-D5		
	Area	RT	Area	RT	Area	RT	
Standard:	621796	6.37	1605667	7.16	1052776	11.54	
Upper Limit:	1243592	6.87	3211334	7.66	2105552	12.04	
Lower Limit:	310898	5.87	802834	6.66	526388	11.04	
Client ID	Lab ID						
LCS	VW031408LCS03	624149	6.37	1624237	7.16	1037136	11.54
LCSD	VW031408LCSD03	629953	6.37	1629658	7.16	1045341	11.54
Blank	VW031408B04	583074	6.37	1576351	7.16	983660	11.54
MW-267S-20080306-01	0803047-05E	579310	6.37	1535049	7.16	966649	11.54
MW-553-20080306-01	0803047-11	558339	6.37	1491975	7.16	932559	11.54

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.



# Chain of Custody Records

# CHAIN OF CUSTODY

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

RAYNHAM, MA  
 TEL: 508-922-9300  
 FAX: 508-922-3288

**Client Information**

Client: **ERM Boston**

Address: **399 Boston St 6<sup>th</sup> Floor  
 Boston, MA 02116**

Phone: **(617) 646-7800**

Fax: **(617) 267-6447**

Email: **Jason.Flatley@erm.com**

These samples have been previously analyzed by Alpha

Other Project Specific Requirements/Comments/Detection Limits:

**Project Information**

Project Name: **Raytheon Wynnuds**

Project Location: **Wynnuds MA**

Project #: **0079387**

Project Manager: **JASON FLATLEY**

ALPHA Quote #:

**Turn-Around Time**

Standard

Date Due: **3/14/08**

RUSH (only confirmed if pre-approved)

Time:

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

**Report Information - Data Deliverables**

FAX  EMAIL

ADEEX  Add'l Deliverables

**Regulatory Requirements/Report Limits**

State/Fed Program: **MA MCP**

Method: **GW-1**

Yes  No Are MCP Analytical Methods Required?

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

**Billing Information**

Same as Client info

PO #:

ALPHA Job #: **20863236**

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

03236-1	MW-2615-20030306-01	3/6/08	12:00	GW	JDF
2	MW-265M-20030306-01		09:45		EB
3	MW-266M <sub>A</sub> -20030306-01		13:45		SM
4	MW-266M <sub>B</sub> -20030306-01		15:25		SM
5	MW-2675-20030306-01		10:00		SM
6	MW-267M-20030306-01		11:20		SM
7	MW-268M-20030306-01		11:45		EB
8	MW-268D-20030306-01		12:30		EB
9	MW-551-20030306-01		16:30		EB
10	MW-552-20030306-01		14:42		JDF

**ANALYSIS**

Yes  No  No Are MCP Analytical Methods Required?

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

**SAMPLE HANDLING**

Done

Not needed

Lab to do

Preservation

Lab to do

(Please specify below)

**Sample Specific Comments**

ANALYSIS  
 CROCS 80216 by 8240  
 TOTAL PHOSPHORUS  
 SULFATE & NITRATE  
 DES. FS (field filtered)  
 TOC

**PLEASE ANSWER QUESTIONS ABOVE!**

**IS YOUR PROJECT  
 MA MCP or CT RCP?**

Relinquished By:

Date/Time

Received By:

Date/Time

Container Type

Preservative

Date/Time

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

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

# CHAIN OF CUSTODY

**ALPHA**  
MOORE, ROY & ASSOCIATES, INC.  
 WESTBORO, MA TEL: 508-899-9220  
 FAX: 508-899-9193

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

**Client Information**

Client: ERM-Boston

Address: 399 Bowditch St. 1st Fl.

Phone: 617-644-7800

Fax: 617-267-6447

Email: john.flattery@erm.com

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

**Project Information**

Project Name: Raytheon-Wayland

Project Location: Wayland, MA

Project #: 0279337

Project Manager: Jason Flattery

ALPHA Quote #:

**Turn-Around Time**

Standard  RUSH (only confirmed if pre-approved!)

Date Due: 3/14/08 Time:

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

ALPHA Job #: 20803236

**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

**MAMCP PRESUMPTIVE CERTAINTY ... CT REASONABLE CONFIDENCE PROTOCOLS**

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

**ANALYSIS**  
 CVOCS 80218 by 8260  
 Total Phosphorus  
 Sulfate & Nitrate  
 Diss. Fe (field filtered)  
 TOC

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

Sample Specific Comments

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials	Date	Time	Date/Time	Container Type	Preservative	Date/Time	Relinquished By:	Received By:	Date/Time
		Date	Time											
03236.11	MW.553.20080326-01	3/6/08	16:41	GW	JDF	2	1	1	1	2	2	3/7/08	17:15	
12	DUP-001-20080326-01		24:00		EB	2	1	1	1	2				
13	DUP-002-20080326-01		24:00		JDF	2								
14	TB-001-20080326-01	2/4/08	19:30	TB	KOSB	1								

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT  
 MA MCP or CT RCP?

Relinquished By:	Date/Time	Received By:	Date/Time
<u>John Flattery</u>	<u>3/7/08 17:15</u>	<u>John Flattery</u>	<u>3/7/08 17:15</u>

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



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

MANFIELD, MA  
TEL: 508-822-8900  
FAX: 508-822-3288

# CHAIN OF CUSTODY

PAGE 1 of 2

To: Mansfield

**Project Information**

Project Name: \_\_\_\_\_

Project Location: \_\_\_\_\_

Project #: \_\_\_\_\_

Project Manager: Mary Davis

ALPHA Quote #: \_\_\_\_\_

Client: Alpha Analytical

Address: \_\_\_\_\_

Phone: \_\_\_\_\_

Fax: \_\_\_\_\_

Email: \_\_\_\_\_

These samples have been previously analyzed by Alpha

Other Project Specific Requirements/Comments/Detection Limits: \_\_\_\_\_

Turn-Around Time

Standard  RUSH (only confirmed if pre-approved)

Date Due: 3/14/08 Time: \_\_\_\_\_

Date Rec'd In Lab: \_\_\_\_\_

**Report Information - Data Deliverables**

FAX  EMAIL

ADEX  Add'l Deliverables

**Regulatory/Requirements/Report Limits**

State/Fed Program: \_\_\_\_\_ Criteria: \_\_\_\_\_

MA MCP PRESUMPTIVE CERTAINTY --- CT REASONABLE CONFIDENCE PROTOCOLS

**Billing Information**

ALPHA Job #: 0803047

Same as Client info  PO #: \_\_\_\_\_

**ANALYSIS**

C.VOC'S 8021 by 8260

Are MCP Analytical Methods Required?  Yes  No

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

**SAMPLE HANDLING**

Filtration  Done  Not needed

Lab to do Preservation  Lab to do

(Please specify below)

Sample Specific Comments

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials	X	Y	Z	W	V	U	T	S
		Date	Time										
1	L0803236-D1	3/6/08	1200	Geo		X							
2	-02		0945			X							
3	-03		1345			X							
4	-04		1525			X							
5	-05		1000			X							
6	-06		1120			X							
7	-07		1145			X							
8	-08		1330			X							
9	-09		1630			X							
10	-10		1442			X							

**PLEASE ANSWER QUESTIONS ABOVE!**

**IS YOUR PROJECT MA MCP or CT RCP?**

Relinquished By: Paul Bellini Date/Time: 3/11/08 18:15

Received By: Paul Bellini Date/Time: 3/11/08 17:00

Container Type: \_\_\_\_\_ Preservative: \_\_\_\_\_

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.





Sample Delivery Group Form

Laboratory Job No: LC803236
Receipt Date/Time: 3/7/08 1715

Client: EQM-MA
SDG Reviewer: wjm

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? [ ] Yes [ ] No
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 [ ] H2SO4 [ ] HNO3 <<Final pH = >>
Other Issues:
Chlorine Check: [ ] N/A [ ] Present [ ] Absent

VOANPH vials: [ ] Yes [ ] No
Aqueous: vials contain head space? [ ] Yes [ ] No
Soils: MeOH covering soil? [ ] Yes [ ] No
Reagent H2O 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: <u>Alpha Analytical</u>	Receipt Date: <u>3/11/08</u>
Project: <u>L0803236-ERM</u>	Log-in Date: <u>3/12/08</u>
ETR #: <u>0803047</u>	Inspection by: <u>Jm</u> Login by: <u>lr</u>

**ALL SECTIONS BELOW MUST BE COMPLETED**

**Comments / Notes**

Were samples shipped? Yes, FedEx / UPS / Other: _____ No, <input checked="" type="radio"/> Alpha Analytical Courier pick-up / <input type="radio"/> Hand delivered	Sample storage refrigerator #: <u>VOA</u>
Is bill of lading retained? Yes, Tracking #: _____ No, Unavailable / <input checked="" type="radio"/> NA	Sample storage freezer #: _____
Number of coolers received for this project delivery: <u>1</u>	Cooler 2: _____ Cooler 3: _____ Cooler 4: _____ Cooler 5: _____ Cooler 6: _____ Cooler 7: _____ More: _____
Indicate cooler temperature upon opening (if multiple coolers, record <u>all</u> temps): <b>Note: If all coolers are 2-6°C, use one checklist, if NOT, use separate checklists and note all samples received above 6°C.</b> Cooler 1: Temperature(s) taken from: <u>5°</u> IR Gun, <u>6°</u> Temp. Blank, / NA	
Were samples received on ice? <input checked="" type="radio"/> Yes / No	
Chain-of-Custody present? <input checked="" type="radio"/> Yes / No Complete? <input checked="" type="radio"/> Yes / No	
Custody seals present on Cooler? Yes / <input checked="" type="radio"/> No on Bottles? Yes / <input checked="" type="radio"/> No Intact? Yes / No / <input checked="" type="radio"/> NA	
<i>Note: Affix custody seals to back of this page.</i>	
Were sample containers intact? <input checked="" type="radio"/> Yes / No      If No, list samples: →	
Did VOA/VPH waters contain headspace (>5mm)? Yes / <input checked="" type="radio"/> No / NA      If Yes, list samples: →	
Were 5035 VOA soils, or VPH soils, covered with MeOH? Yes / No / <input checked="" type="radio"/> NA If No, list samples: →	
Was a sufficient amount of sample received for each test indicated on the COC? <input checked="" type="radio"/> Yes / No      If No, list samples: →	
If chemical preservation is appropriate - Were samples field preserved? <input checked="" type="radio"/> Yes / No / NA <input checked="" type="checkbox"/> C=HCl <input type="checkbox"/> M=MeOH <input type="checkbox"/> S=H <sub>2</sub> SO <sub>4</sub> <input type="checkbox"/> H=NaOH <input type="checkbox"/> N=HNO <sub>3</sub> <input type="checkbox"/> Other: _____ <input type="checkbox"/> U= Unknown	Chemical preservation OK for ALL samples? Yes / No / <input checked="" type="radio"/> N/A If No, list samples below:
Preservation (pH) verified at lab for EVERY bottle? <input checked="" type="radio"/> (Not: VOA / VPH / Sulfide) YES: <2 or >12 (CN) or NO      NA If No, why?:	rec'd L0803236-14A <u>NOT ON COC</u>
Were samples received within hold time? <input checked="" type="radio"/> Yes / No      If No, list samples: →	
Discrepancy between samples rec'd & COC? <input checked="" type="radio"/> Yes / No      If Yes, list samples: →	
Was the Project Manager notified of any other problems? Yes / No / NA	
Project Manager Acknowledgement: _____      Date: _____	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 Wastewater 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, SM4500NH<sub>3</sub>; 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, 8030, 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-Portable 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 Boylston Street  
6th Floor  
Boston, MA 02116

Page: Page 3 of 15  
Lab Proj #: P0803069  
Report Date: 03/18/08  
Client Proj Name: Wayland  
Client Proj #: Wayland

<u>Sample Description</u>	<u>Matrix</u>	<u>Lab Sample #</u>	<u>Sampled Date/Time</u>	<u>Received</u>		
MW-261S-20080306-01	Water	P0803069-02	06 Mar. 08 12:00	07 Mar. 08 10:23		
<u>Analyte(s)</u>	<u>Result</u>	<u>PQL</u>	<u>Units</u>	<u>Method #</u>	<u>Analysis Date</u>	<u>By</u>
<u>RiskAnalysis</u>						
N Ethane	<0.025	0.025	ug/L	AM20GAX	3/17/08	rw
N Ethene	0.100	0.025	ug/L	AM20GAX	3/17/08	rw
N Methane	0.270	0.100	ug/L	AM20GAX	3/17/08	rw



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

Page: Page 5 of 15  
 Lab Proj #: P0803069  
 Report Date: 03/18/08  
 Client Proj Name: Wayland  
 Client Proj #: Wayland

<u>Sample Description</u>	<u>Matrix</u>	<u>Lab Sample #</u>	<u>Sampled Date/Time</u>	<u>Received</u>		
MW-265M-20080306-01	Water	P0803069-04	06 Mar. 08 9:45	07 Mar. 08 10:23		
<u>Analyte(s)</u>	<u>Result</u>	<u>PQL</u>	<u>Units</u>	<u>Method #</u>	<u>Analysis Date</u>	<u>By</u>
<b><u>RiskAnalysis</u></b>						
N Ethane	<0.025	0.025	ug/L	AM20GAX	3/17/08	rw
N Ethene	1.800	0.025	ug/L	AM20GAX	3/17/08	rw
N Methane	4.700	0.100	ug/L	AM20GAX	3/17/08	rw



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

Page: Page 6 of 15  
 Lab Proj #: P0803069  
 Report Date: 03/18/08  
 Client Proj Name: Wayland  
 Client Proj #: Wayland

<u>Sample Description</u>	<u>Matrix</u>	<u>Lab Sample #</u>	<u>Sampled Date/Time</u>	<u>Received</u>		
MW-266MA-20080306-01	Water	P0803069-05	06 Mar. 08 13:45	07 Mar. 08 10:23		
<u>Analyte(s)</u>	<u>Result</u>	<u>PQL</u>	<u>Units</u>	<u>Method #</u>	<u>Analysis Date</u>	<u>By</u>
<b><u>RiskAnalysis</u></b>						
N Ethane	<0.025	0.025	ug/L	AM20GAX	3/17/08	rw
N Ethene	0.034	0.025	ug/L	AM20GAX	3/17/08	rw
N Methane	19.000	0.100	ug/L	AM20GAX	3/17/08	rw



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

Page: Page 7 of 15  
 Lab Proj #: P0803069  
 Report Date: 03/18/08  
 Client Proj Name: Wayland  
 Client Proj #: Wayland

<u>Sample Description</u>	<u>Matrix</u>	<u>Lab Sample #</u>	<u>Sampled Date/Time</u>	<u>Received</u>		
MW-266MB-20080306-01	Water	P0803069-06	06 Mar. 08 15:25	07 Mar. 08 10:23		
<u>Analyte(s)</u>	<u>Result</u>	<u>PQL</u>	<u>Units</u>	<u>Method #</u>	<u>Analysis Date</u>	<u>By</u>
<b><u>RiskAnalysis</u></b>						
N Ethane	<0.025	0.025	ug/L	AM20GAX	3/17/08	rw
N Ethene	0.370	0.025	ug/L	AM20GAX	3/17/08	rw
N Methane	4.500	0.100	ug/L	AM20GAX	3/17/08	rw



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

Page: Page 8 of 15  
 Lab Proj #: P0803069  
 Report Date: 03/18/08  
 Client Proj Name: Wayland  
 Client Proj #: Wayland

<u>Sample Description</u>	<u>Matrix</u>	<u>Lab Sample #</u>	<u>Sampled Date/Time</u>	<u>Received</u>		
MW-267S-20080306-01	Water	P0803069-07	06 Mar. 08 10:00	07 Mar. 08 10:23		
<u>Analyte(s)</u>	<u>Result</u>	<u>PQL</u>	<u>Units</u>	<u>Method #</u>	<u>Analysis Date</u>	<u>By</u>
<b><u>RiskAnalysis</u></b>						
N Ethane	<0.025	0.025	ug/L	AM20GAX	3/17/08	rw
N Ethene	0.680	0.025	ug/L	AM20GAX	3/17/08	rw
N Methane	440.000	0.100	ug/L	AM20GAX	3/17/08	rw



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

Page: Page 9 of 15  
 Lab Proj #: P0803069  
 Report Date: 03/18/08  
 Client Proj Name: Wayland  
 Client Proj #: Wayland

<u>Sample Description</u>	<u>Matrix</u>	<u>Lab Sample #</u>	<u>Sampled Date/Time</u>	<u>Received</u>		
MW-267M-20080306-01	Water	P0803069-08	06 Mar. 08 11:20	07 Mar. 08 10:23		
<u>Analyte(s)</u>	<u>Result</u>	<u>PQL</u>	<u>Units</u>	<u>Method #</u>	<u>Analysis Date</u>	<u>By</u>
<b><u>RiskAnalysis</u></b>						
N Ethane	0.028	0.025	ug/L	AM20GAX	3/17/08	rw
N Ethene	0.490	0.025	ug/L	AM20GAX	3/17/08	rw
N Methane	59.000	0.100	ug/L	AM20GAX	3/17/08	rw



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

Page: Page 10 of 15  
Lab Proj #: P0803069  
Report Date: 03/18/08  
Client Proj Name: Wayland  
Client Proj #: Wayland

<u>Sample Description</u>	<u>Matrix</u>	<u>Lab Sample #</u>	<u>Sampled Date/Time</u>	<u>Received</u>		
MW-268M-20080306-01	Water	P0803069-09	06 Mar. 08 11:45	07 Mar. 08 10:23		
<u>Analyte(s)</u>	<u>Result</u>	<u>PQL</u>	<u>Units</u>	<u>Method #</u>	<u>Analysis Date</u>	<u>By</u>
<u>RiskAnalysis</u>						
N Ethane	<0.025	0.025	ug/L	AM20GAX	3/17/08	rw
N Ethene	1.800	0.025	ug/L	AM20GAX	3/17/08	rw
N Methane	37.000	0.100	ug/L	AM20GAX	3/17/08	rw



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

Page: Page 11 of 15  
Lab Proj #: P0803069  
Report Date: 03/18/08  
Client Proj Name: Wayland  
Client Proj #: Wayland

<u>Sample Description</u>	<u>Matrix</u>	<u>Lab Sample #</u>	<u>Sampled Date/Time</u>	<u>Received</u>		
MW-268D-20080306-01	Water	P0803069-10	06 Mar. 08 12:30	07 Mar. 08 10:23		
<u>Analyte(s)</u>	<u>Result</u>	<u>PQL</u>	<u>Units</u>	<u>Method #</u>	<u>Analysis Date</u>	<u>By</u>
<u>RiskAnalysis</u>						
N Ethane	<0.025	0.025	ug/L	AM20GAX	3/17/08	rw
N Ethene	<0.025	0.025	ug/L	AM20GAX	3/17/08	rw
N Methane	23.000	0.100	ug/L	AM20GAX	3/17/08	rw





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

Page: Page 12 of 15  
 Lab Proj #: P0803069  
 Report Date: 03/18/08  
 Client Proj Name: Wayland  
 Client Proj #: Wayland

<u>Sample Description</u>	<u>Matrix</u>	<u>Lab Sample #</u>	<u>Sampled Date/Time</u>	<u>Received</u>		
MW-551-20080306-01	Water	P0803069-11	06 Mar. 08 16:30	07 Mar. 08 10:23		
<u>Analyte(s)</u>	<u>Result</u>	<u>PQL</u>	<u>Units</u>	<u>Method #</u>	<u>Analysis Date</u>	<u>By</u>
<b><u>RiskAnalysis</u></b>						
N Ethane	<0.025	0.025	ug/L	AM20GAX	3/17/08	mm
N Ethene	<0.025	0.025	ug/L	AM20GAX	3/17/08	mm
N Methane	1.600	0.100	ug/L	AM20GAX	3/17/08	mm



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

Page: Page 13 of 15  
Lab Proj #: P0803069  
Report Date: 03/18/08  
Client Proj Name: Wayland  
Client Proj #: Wayland

<u>Sample Description</u>	<u>Matrix</u>	<u>Lab Sample #</u>	<u>Sampled Date/Time</u>	<u>Received</u>		
MW552-20080306-01	Water	P0803069-12	06 Mar. 08 14:42	07 Mar. 08 10:23		
<u>Analyte(s)</u>	<u>Result</u>	<u>PQL</u>	<u>Units</u>	<u>Method #</u>	<u>Analysis Date</u>	<u>By</u>
<u>RiskAnalysis</u>						
N Ethane	<0.025	0.025	ug/L	AM20GAX	3/17/08	mm
N Ethene	0.300	0.025	ug/L	AM20GAX	3/17/08	mm
N Methane	27.000	0.100	ug/L	AM20GAX	3/17/08	mm



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

Page: Page 14 of 15  
Lab Proj #: P0803069  
Report Date: 03/18/08  
Client Proj Name: Wayland  
Client Proj #: Wayland

<u>Sample Description</u>	<u>Matrix</u>	<u>Lab Sample #</u>	<u>Sampled Date/Time</u>	<u>Received</u>		
MW-553-20080306-01	Water	P0803069-13	06 Mar. 08 16:41	07 Mar. 08 10:23		
<u>Analyte(s)</u>	<u>Result</u>	<u>PQL</u>	<u>Units</u>	<u>Method #</u>	<u>Analysis Date</u>	<u>By</u>
<u>RiskAnalysis</u>						
N Ethane	<0.025	0.025	ug/L	AM20GAX	3/17/08	mm
N Ethene	0.170	0.025	ug/L	AM20GAX	3/17/08	mm
N Methane	0.940	0.100	ug/L	AM20GAX	3/17/08	mm



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

Page: Page 15 of 15  
 Lab Proj #: P0803069  
 Report Date: 03/18/08  
 Client Proj Name: Wayland  
 Client Proj #: Wayland

<u>Sample Description</u>	<u>Matrix</u>	<u>Lab Sample #</u>	<u>Sampled Date/Time</u>	<u>Received</u>		
DUP-001-20080306-01	Water	P0803069-14	06 Mar. 08 0:00	07 Mar. 08 10:23		
<u>Analyte(s)</u>	<u>Result</u>	<u>PQL</u>	<u>Units</u>	<u>Method #</u>	<u>Analysis Date</u>	<u>By</u>
<b><u>RiskAnalysis</u></b>						
N Ethane	<0.025	0.025	ug/L	AM20GAX	3/17/08	mm
N Ethene	1.600	0.025	ug/L	AM20GAX	3/17/08	mm
N Methane	32.000	0.100	ug/L	AM20GAX	3/17/08	mm



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

**Customer:** Jason Flattery, ERM

**SiREM Reference:** S-1251

**Project:** Raytheon Wayland

**Report Issued:** 25-Mar-08

**Customer Reference:** 0079387

**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 <sup>A</sup>	<i>Dehalococcoides</i> Enumeration <sup>B</sup>
MW-261S-20080306-01	DHC-3788	6-Mar-08	Groundwater	NA <sup>(1)</sup>	ND <sup>(2)</sup>
MW-265M-20080306-01	DHC-3790	6-Mar-08	Groundwater	NA <sup>(1)</sup>	ND <sup>(2)</sup>
MW-266Ma-20080306-01	DHC-3791	6-Mar-08	Groundwater	0.0003-0.001%	3 x 10 <sup>3</sup> /liter <sup>(3)</sup>
MW-266Mb-20080306-01	DHC-3792	6-Mar-08	Groundwater	NA <sup>(1)</sup>	ND <sup>(2)</sup>
MW-267S-20080306-01	DHC-3793	6-Mar-08	Groundwater	NA <sup>(1)</sup>	ND <sup>(2,4)</sup>
MW-267M-20080306-01	DHC-3794	6-Mar-08	Groundwater	NA <sup>(1)</sup>	ND <sup>(2,4)</sup>
MW-268M-20080306-01	DHC-3795	6-Mar-08	Groundwater	NA <sup>(1)</sup>	ND <sup>(2,4)</sup>
MW-268D-20080306-01	DHC-3796	6-Mar-08	Groundwater	0.01-0.04%	6 x 10 <sup>4</sup> /liter
MW-551-20080306-01	DHC-3797	6-Mar-08	Groundwater	NA <sup>(1)</sup>	ND <sup>(2)</sup>
MW-552-20080306-01	DHC-3798	6-Mar-08	Groundwater	NA <sup>(1)</sup>	ND <sup>(2,4)</sup>
MW-553-20080306-01	DHC-3799	6-Mar-08	Groundwater	NA <sup>(1)</sup>	ND <sup>(2)</sup>
DUP-001-20080306-01	DHC-3800	6-Mar-08	Groundwater	NA <sup>(1)</sup>	ND <sup>(2,4)</sup>

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

### Notes:

<sup>A</sup> 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.

<sup>B</sup>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

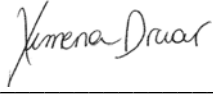
<sup>1</sup>Not applicable as *Dehalococcoides* not detected.

<sup>2</sup>Not detected. The quantitation limit is  $4 \times 10^3$ /liter.

<sup>3</sup>*Dehalococcoides* DNA detected but below sample specific quantitation limit. The sample specific quantitation limit is  $4 \times 10^3$ /liter. Additional explanation provided in: Interpretation of Quantitative Gene-Trac *Dehalococcoides* Test Results.

<sup>4</sup>Sample inhibited testing; this increases the probability that test result is a false negative.

Analyst:   
Jennifer Wilkinson  
Biotechnology Technologist

Approved:   
Ximena Druar, B.Sc.  
Molecular Biology Coordinator

## Certificate of Analysis: Gene-Trac-VC, Vinyl Chloride Reductase Assay (*vcrA*) Assay

**Customer:** Jason Flattery, ERM  
**Project:** Raytheon Wayland  
**Customer Reference:** 0079387

**SiREM Reference:** S-1251  
**Report Issued:** 25-Mar-08  
**Data Files:** VC-QPCR-0119

**Table 1: Test Results**

Customer Sample ID	SiREM Sample ID	Sample Collection Date	Sample Matrix	Percent <i>vcrA</i> <sup>A</sup>	Vinyl Chloride Reductase ( <i>vcrA</i> ) Gene Copies
MW-266Ma-20080306-01	VCR-0781	6-Mar-08	Groundwater	NA <sup>(1)</sup>	ND <sup>(2)</sup>
MW-268D-20080306-01	VCR-0782	6-Mar-08	Groundwater	NA <sup>(1)</sup>	ND <sup>(2)</sup>


**Notes:**


<sup>A</sup> Percent *vcrA* in microbial population. This value is calculated by dividing the number of vinyl chloride reductase A (*vcrA*) gene copies quantified by the total number of bacteria estimated to be in the sample based on the mass of DNA extracted from the sample. Range represents normal variation in enumeration of *vcrA*.

NA = not applicable  
ND= not detected

<sup>1</sup>Not applicable as *vcrA* not detected.

<sup>2</sup>Not detected. The sample specific quantitation limit is 4 x 10<sup>3</sup>/liter.

Analyst:   
Jennifer Wilkinson  
Biotechnology Technologist

Approved:   
Ximena Druar, B.Sc.  
Molecular Biology Coordinator

**Table 2.1: Detailed Test Parameters, Gene-Trac Test Reference S-1251**

<b>Customer Sample ID</b>	MW-261S-20080306-01	MW-265M-20080306-01	MW-266Ma-20080306-01	MW-266Mb-20080306-01
<b>SiREM Test ID</b>	DHC-3788	DHC-3790	DHC-3791/VCR-0781	DHC-3792
<b>Date Received</b>	7-Mar-08	7-Mar-08	7-Mar-08	7-Mar-08
<b>Sample Temperature</b>	8.5 °C	8.5 °C	8.5 °C	8.5 °C
<b>Volume Used for DNA Extraction</b>	500 mL	500 mL	500 mL	500 mL
<b>DNA Extraction Date</b>	18-Mar-08	18-Mar-08	18-Mar-08	18-Mar-08
<b>DNA Concentration in Sample (extractable)</b>	2665 ng/L	1324 ng/L	2505 ng/L	2612 ng/L
<b>Extracted DNA Quality Test (universal PCR primers)</b>	ND	ND	ND	ND
<b>Secondary DNA Purification</b>	R	R	R	R
<b>DNA Repurification Date</b>	24-Mar-08	24-Mar-08	24-Mar-08	24-Mar-08
<b>Extracted DNA Quality Test (after repurification)</b>	Passed	Passed	Passed	Passed
<b>Dhc qPCR Analysis Date</b>	24-Mar-08	24-Mar-08	24-Mar-08	24-Mar-08
<b>vcrA qPCR Analysis Date</b>	NA	NA	25-Mar-08	NA
<b>qPCR Controls (see Table 3)</b>	Passed	Passed	Passed	Passed
<b>Comments</b>	--	--	--	--

**Notes:**

Refer to Table 3 & 4 for detailed results of control  
 NR = not required  
 ND = not detected  
 °C = degrees Celsius

PCR = polymerase chain reaction  
 qPCR = quantitative PCR  
 Dhc = *Dehalococcoides*

ng/L = nanograms per liter  
 mL = milliliters  
 DNA = Deoxyribonucleic acid



**Table 2.2: Detailed Test Parameters, Gene-Trac Test Reference S-1251**

<b>Customer Sample ID</b>	MW-267S-20080306-01	MW-267M-20080306-01	MW-268M-20080306-01	MW-268D-20080306-01
<b>SiREM Test ID</b>	DHC-3793	DHC-3794	DHC-3795	DHC-3796/VCR-0782
<b>Date Received</b>	7-Mar-08	7-Mar-08	7-Mar-08	7-Mar-08
<b>Sample Temperature</b>	8.5 °C	8.5 °C	8.5 °C	8.5 °C
<b>Volume Used for DNA Extraction</b>	500 mL	500 mL	500 mL	500 mL
<b>DNA Extraction Date</b>	18-Mar-08	18-Mar-08	18-Mar-08	18-Mar-08
<b>DNA Concentration in Sample (extractable)</b>	1547 ng/L	1497 ng/L	1582 ng/L	863 ng/L
<b>Extracted DNA Quality Test (universal PCR primers)</b>	ND	ND	ND	ND
<b>Secondary DNA Purification</b>	R	R	R	R
<b>DNA Repurification Date</b>	24-Mar-08	24-Mar-08	24-Mar-08	24-Mar-08
<b>Extracted DNA Quality Test (after repurification)</b>	ND	ND	ND	Passed
<b>Dhc qPCR Analysis Date</b>	24-Mar-08	24-Mar-08	24-Mar-08	24-Mar-08
<b>vcrA qPCR Analysis Date</b>	NA	NA	NA	25-Mar-08
<b>qPCR Controls (see Table 3)</b>	Passed	Passed	Passed	Passed
<b>Comments</b>	--	--		--

**Notes:**

Refer to Table 3 & 4 for detailed results of control

NR = not required

ND = not detected

°C = degrees Celsius

PCR = polymerase chain reaction

qPCR = quantitative PCR

Dhc = *Dehalococcoides*

ng/L = nanograms per liter

mL = milliliters

DNA = Deoxyribonucleic acid

**Table 2.3: Detailed Test Parameters, Gene-Trac Test Reference S-1251**

<b>Customer Sample ID</b>	MW-551-20080306-01	MW-552-20080306-01	MW-553-20080306-01	DUP-001-20080306-01
<b>SiREM Test ID</b>	DHC-3797	DHC-3798	DHC-3799	DHC-3800
<b>Date Received</b>	7-Mar-08	7-Mar-08	7-Mar-08	7-Mar-08
<b>Sample Temperature</b>	8.5 °C	8.5 °C	8.5 °C	8.5 °C
<b>Volume Used for DNA Extraction</b>	500 mL	500 mL	500 mL	500 mL
<b>DNA Extraction Date</b>	18-Mar-08	18-Mar-08	18-Mar-08	18-Mar-08
<b>DNA Concentration in Sample (extractable)</b>	911 ng/L	1147 ng/L	953 ng/L	936 ng/L
<b>Extracted DNA Quality Test (universal PCR primers)</b>	ND	ND	ND	ND
<b>Secondary DNA Purification</b>	R	R	R	R
<b>DNA Repurification Date</b>	24-Mar-08	24-Mar-08	24-Mar-08	24-Mar-08
<b>Extracted DNA Quality Test (after repurification)</b>	Passed	ND	Passed	ND
<b>Dhc qPCR Analysis Date</b>	24-Mar-08	24-Mar-08	24-Mar-08	24-Mar-08
<b>vcrA qPCR Analysis Date</b>	NA	NA	NA	NA
<b>qPCR Controls (see Table 3)</b>	Passed	Passed	Passed	Passed
<b>Comments</b>	--	--		--

**Notes:**

Refer to Table 3 & 4 for detailed results of control

NR = not required

ND = not detected

°C = degrees Celsius

PCR = polymerase chain reaction

qPCR = quantitative PCR

Dhc = *Dehalococcoides*

ng/L = nanograms per liter

mL = milliliters

DNA = Deoxyribonucleic acid

**Table 3: Gene-Trac-DHC Experimental Control Results, Gene-Trac 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
<b>Positive Control Low Concentration</b>	24-Mar-08	qPCR with cloned Dhc gene (9.13 x 10 <sup>5</sup> copies)	9.13 x 10 <sup>5</sup>	1.33 x 10 <sup>6</sup>	Normal <sup>1</sup>
<b>Positive Control High Concentration</b>	24-Mar-08	qPCR with cloned Dhc gene (9.13 x 10 <sup>7</sup> copies)	9.13 x 10 <sup>7</sup>	9.05 x 10 <sup>7</sup>	Normal <sup>1</sup>
<b>DNA Extraction Blank</b>	24-Mar-08	DNA extraction sterile water (DB-0737)	0	ND	Normal
<b>Negative Control</b>	24-Mar-08	Tris Reagent Blank	0	ND	Normal

**Notes:**

<sup>1</sup> 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

**Table 4: Gene-Trac-VC Experimental Control Results, Gene-Trac Test Reference S-1251**

Laboratory Control	Analysis Date	Control Description	Spiked <i>vcrA</i> reductase Gene Copies per Reaction	Recovered <i>vcrA</i> reductase Gene Copies per Reaction	Comments
<b>Positive Control Low Concentration</b>	25-Mar-08	qPCR with cloned vinyl chloride dehalogenase gene (1.41 x 10 <sup>5</sup> copies)	1.41 x 10 <sup>5</sup>	1.36 x 10 <sup>5</sup>	Normal <sup>1</sup>
<b>Positive Control High Concentration</b>	25-Mar-08	qPCR with cloned vinyl chloride dehalogenase gene (1.41 x 10 <sup>7</sup> copies)	1.41 x 10 <sup>7</sup>	1.34 x 10 <sup>7</sup>	Normal <sup>1</sup>
<b>DNA Extraction Blank</b>	25-Mar-08	DNA extraction sterile water (DB-0737)	0	ND	Normal
<b>Negative Control</b>	25-Mar-08	Tris Reagent Blank	0	ND	Normal

**Notes:**

NA = not applicable

ND = not detected

<sup>1</sup> Within defined limits of +/- 50%

qPCR = quantitative PCR

Dhc = *Dehalococcoides*

DNA = Deoxyribonucleic acid

16S rRNA = 16S ribosomal ribonucleic acid

*vcrA* = vinyl chloride reductase



# Chain-of-Custody Form

www.siremlab.com

Lab # 5-1251

Project Name <i>Lynthes Wayland</i>		Project # <i>0079387</i>		<b>Analysis</b>																																																																																																																																																																																											
Project Manager <i>Jason Flattery</i>		Email Address <i>Jason.Flattery@erm.com</i>																																																																																																																																																																																													
Company <i>ERM</i>		Address <i>399 15011st St Boston, MA 02166</i>		<table border="1"> <tr> <td>Preservative</td> <td><i>None</i></td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td></td> <td><i>Gene-Trail VC</i></td> <td><i>Gene-Trail DHE</i></td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> </table>												Preservative	<i>None</i>																							<i>Gene-Trail VC</i>	<i>Gene-Trail DHE</i>																																																																																																																																																						
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Sampler's Signature <i>[Signature]</i>		Sampler's Printed Name <i>Ezra Benicewicz</i>		<table border="1"> <tr> <td colspan="22"><b>Preservative Key</b></td> </tr> <tr> <td colspan="22">0. None</td> </tr> <tr> <td colspan="22">1. HCL</td> </tr> <tr> <td colspan="22">2. Other _____</td> </tr> <tr> <td colspan="22">3. Other _____</td> </tr> <tr> <td colspan="22">4. Other _____</td> </tr> <tr> <td colspan="22">5. Other _____</td> </tr> <tr> <td colspan="22">6. Other _____</td> </tr> </table>												<b>Preservative Key</b>																						0. None																						1. HCL																						2. Other _____																						3. Other _____																						4. Other _____																						5. Other _____																						6. Other _____																					
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Client Sample ID	Lab ID	Sampling		Matrix	# of Containers	Other Information																	
		Date	Time																				
<i>MW-2616-20080306-01</i>		<i>3/6/08</i>	<i>1200</i>	<i>GW</i>	<i>1</i>	<i>X</i>	<i>X</i>																
<i>MW-264M-20080306-01</i>			<i>1445</i>			<i>X</i>	<i>X</i>																
<i>MW-265M-20080306-01</i>			<i>0945</i>			<i>X</i>	<i>X</i>																
<i>MW-266Ma-20080306-01</i>			<i>1345</i>			<i>X</i>	<i>X</i>																
<i>MW-266Mb-20080306-01</i>			<i>1525</i>			<i>X</i>	<i>X</i>																
<i>MW-267S-20080306-01</i>			<i>1000</i>			<i>X</i>	<i>X</i>																
<i>MW-267M-20080306-01</i>			<i>1120</i>			<i>X</i>	<i>X</i>																
<i>MW-268M-20080306-01</i>			<i>1145</i>			<i>X</i>	<i>X</i>																
<i>MW-268D-20080306-01</i>			<i>1230</i>			<i>X</i>	<i>X</i>																
<i>MW-551-20080306-01</i>		<i>✓</i>	<i>1630</i>	<i>✓</i>	<i>✓</i>	<i>X</i>	<i>X</i>																

Cooler Condition: <i>Good</i>		Sample Receipt		P.O. # <i>0079387</i>		<b>For Lab Use Only</b>											
Cooler Temperature:		Invoice Information		Bill To: <i>Jason Flattery</i>													
Custody Seals: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		Quotation #															

<b>Relinquished By:</b>		<b>Received By:</b>		<b>Relinquished By:</b>		<b>Received By:</b>		<b>Relinquished By:</b>		<b>Received By:</b>	
Signature	<i>[Signature]</i>	Signature	<i>J. Wilkins</i>	Signature		Signature		Signature		Signature	
Printed Name	<i>J. Wilkins</i>	Printed Name	<i>J. Wilkins</i>	Printed Name		Printed Name		Printed Name		Printed Name	
Firm	<i>SIREM</i>	Firm	<i>SIREM</i>	Firm		Firm		Firm		Firm	
Date/Time	<i>3/7/08 17:30</i>	Date/Time		Date/Time		Date/Time		Date/Time		Date/Time	

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

In the absence of an executed agreement, submission of samples to SIREM implies consent for performance of analyses specified on this Chain-of-Custody form and agreement with the terms and conditions of the SIREM Laboratory Services Agreement. The entity submitting samples shall be responsible for payment in full for said analyses.



# CHAIN OF CUSTODY

PAGE 2 OF 2

Date Rec'd in Lab:

ALPHA Job #: 5-1251

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

### Project Information

Project Name: Ryan Weyland  
Project Location: Weyland MA  
Project #: 0079387  
Project Manager: S. Claffey  
ALPHA Quote #:

### Report Information - Data Deliverables

FAX  EMAIL  
 ADEX  Add'l Deliverables

### Billing Information

Same as Client info PO #:

### Client Information

Client: ERM  
Address: 319 Boylston St.  
Boston MA 02166  
Phone: 617-646-7800  
Fax: 617-267-6447  
Email: Jason.Claffey@erm.com  
 These samples have been previously analyzed by Alpha

### Turn-Around Time

Standard  RUSH (only confirmed if pre-approved!)

Date Due: Time:

### 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**  
Gene Trac VC  
Gene Trac D/E

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

**TOTAL # BOTTLES**

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials	Sample Specific Comments	TOTAL # BOTTLES
		Date	Time				
	<u>MAW-552-20080306-01</u>	<u>3/6/08</u>	<u>1442</u>		<u>✓ ✓</u>		<u>1</u>
	<u>MAW-553-20070306-01</u>	<u>↓</u>	<u>1641</u>		<u>X X</u>		<u>1</u>
	<u>DUP-001-20080306-01</u>	<u>↓</u>	<u>2400</u>		<u>✓ X</u>		<u>1</u>
<hr/>							

PLEASE ANSWER QUESTIONS ABOVE!  
**IS YOUR PROJECT MA MCP or CT RCP?**

Container Type: P  
Preservative: AX

Relinquished By:	Date/Time	Received By:	Date/Time
		<u>J. Wilkerson</u>	<u>3/7/08 12:30</u>

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