FILE COPY

Environmental
Resources
Management

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

24 July 2008
Reference: 0079387

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

ERM

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). These are additional samples that are associated with the May 2008 sampling round in which you had received a notification and results dated 12 June 2008. These results are submitted pursuant to 310 CMR 40.1403(10) of the Massachusetts Contingency Plan (MCP).

ERM collected groundwater samples from 7 wells on portions of the Site within the boundaries of your property between 25 through 27 June 2008. All samples were analyzed for 1,4-dioxane. Three samples were analyzed for volatile organic compounds. Sample analysis was conducted by Alpha Woods Hole Laboratories of Westborough, Massachusetts. 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 310 CMR 40.1405. Documents pertaining to the Site can be found at the Board of Health, the Wayland Public Library Public Involvement Plan files, or at www.ermne.com (username = raytheon, password = wayland).

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

Sincerely,

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

Jason D. Flattery
Project Manager

enclosures: BWSC-123 – Notice of Environmental Sampling

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

NOTICE OF ENVIRONMENTAL SAMPLING

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

BWSC 123

This Notice is Related to Release Tracking Number

3 | 22408

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

1. Street Address: 430 Boston Post Road

City/Town: Wayland Zip Code: 01778

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

1. Name: Congress Group

2. Street Address: 33 Arch Street

City/Town: Boston Zip Code: 02110

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

☑ 1. That environmental sampling will be/has been conducted at property owned by the recipient of this notice.

☑ 2. Of the results of environmental sampling conducted at property owned by the recipient of this notice.

☑ 3. Check to indicate if the analytical results are attached. (If item 2. above is checked, the analytical results from the environmental sampling must be attached to this notice.)

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

1. Street Address: 430 Boston Post Road

City/Town: Wayland Zip Code: 01778

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

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

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

☐ residential ☐ commerical ☒ industrial ☐ school/playground ☐ Other _____ (specify)

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

Collection of groundwater samples from existing monitoring wells.

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

Contact Name: Louis J. Burkhardt

Street Address: 880 Technology Park Drive, MS 2-2124-01

City/Town: Billerica Zip Code: 01821

Telephone: (978) 436-8238 Email: louis_j_burkhardt@raytheon.com

NOTICE OF ENVIRONMENTAL SAMPLING

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

MASSACHUSETTS REGULATIONS THAT REQUIRE THIS NOTICE

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

THE PERSON(S) PROVIDING THIS NOTICE

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

PURPOSE OF THIS NOTICE

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

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

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

FOR MORE INFORMATION

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

ANALYTICAL REPORT

Lab Number:	L0809566
Client:	ERM-New England 399 Boylston Street 6th Floor Boston, MA 02116
ATTN:	Jason Flattery
Project Name:	RAYTHEON
Project Number:	0079387
Report Date:	07/15/08

Certifications & Approvals: MA (M-MA086), NY NELAC (11148), CT (PH-0574), NH (2003), NJ (MA935), RI (LAO00065), ME (MA0086), PA (Registration #68-03671), USDA (Permit #S-72578), US Army Corps of Engineers, Naval FESC.

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

Project Name: RAYTHEON
Project Number: 0079387

Lab Number: L0809566
Report Date: 07/15/08

Alpha Sample ID	Client ID	Sample Location
L0809566-01	MW-265M-20080625-01	WAYLAND, MA
L0809566-02	MW-266MA-20080625-01	WAYLAND, MA
L0809566-03	MW-266MB-20080625-01	WAYLAND, MA
L0809566-04	MW-267S-20080625-01	WAYLAND, MA
L0809566-05	MW-268D-20080625-01	WAYLAND, MA
L0809566-06	MW-269MA-20080626-01	WAYLAND, MA
L0809566-07	MW-269D-20080626-01	WAYLAND, MA
L0809566-08	DUP-001-20080625-01	WAYLAND, MA
L0809566-09	DUP-002-20080625-01	WAYLAND, MA

Project Name: RAYTHEON **Lab Number:** L0809566

Project Number: 0079387 **Report Date:** 07/15/08

MADEP MCP Response Action Analytical Report Certification

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

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

A response to questions E and F is required for "Presumptive Certainty" status		
E	Were all QC performance standards and recommendations for the specified method(s) achieved?	YES
F	Were results for all analyte-list compounds/elements for the specified method(s) reported?	YES

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

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

Project Name:	RAYTHEON	**Lab Number:**	L0809566
Project Number:	0079387	**Report Date:**	07/15/08

Case Narrative

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

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

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

Non MCP-Related Narratives:

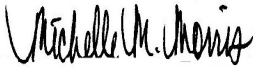
Report Submission

This report contains the results for the 1,4 Dioxane analysis. The results for all other analyses were issued under separate cover.

1,4-Dioxane

The analysis of 1,4-Dioxane by method 8270-SIM isotope dilution was performed at our Mansfield facility. The results are provided within this report and a copy of the laboratory report is included as an addendum.

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

Authorized Signature: 

Title: Technical Director/Representative Date: 07/15/08

ORGANICS

SEMIVOLATILES

Project Name: RAYTHEON **Lab Number:** L0809566

Project Number: 0079387 **Report Date:** 07/15/08

SAMPLE RESULTS

Lab ID:	L0809566-01	Date Collected:	06/25/08 10:50
Client ID:	MW-265M-20080625-01	Date Received:	06/27/08
Sample Location:	WAYLAND, MA	Field Prep:	Not Specified
Matrix:	Water	Extraction Method:	3510C
Anaytical Method:	1,8270	Extraction Date:	07/02/08 00:00
Analytical Date:	07/08/08 14:03		
Analyst:	TW		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
1,4-Dioxane by 8270					
1,4-Dioxane	2980		ng/l	500	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,4-Dioxane-d8	45		15-110

Project Name: RAYTHEON **Lab Number:** L0809566

Project Number: 0079387 **Report Date:** 07/15/08

SAMPLE RESULTS

Lab ID:	L0809566-02	Date Collected:	06/25/08 13:50
Client ID:	MW-266MA-20080625-01	Date Received:	06/27/08
Sample Location:	WAYLAND, MA	Field Prep:	Not Specified
Matrix:	Water	Extraction Method:	3510C
Anaytical Method:	1,8270	Extraction Date:	07/02/08 00:00
Analytical Date:	07/08/08 15:35		
Analyst:	TW		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
1,4-Dioxane by 8270					
1,4-Dioxane	4110		ng/l	500	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,4-Dioxane-d8	34		15-110

Project Name: RAYTHEON **Lab Number:** L0809566

Project Number: 0079387 **Report Date:** 07/15/08

SAMPLE RESULTS

Lab ID:	L0809566-03	Date Collected:	06/25/08 13:50
Client ID:	MW-266MB-20080625-01	Date Received:	06/27/08
Sample Location:	WAYLAND, MA	Field Prep:	Not Specified
Matrix:	Water	Extraction Method:	3510C
Anaytical Method:	1,8270	Extraction Date:	07/02/08 00:00
Analytical Date:	07/08/08 16:21		
Analyst:	TW		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
1,4-Dioxane by 8270					
1,4-Dioxane	ND		ng/l	500	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,4-Dioxane-d8	41		15-110

Project Name: RAYTHEON **Lab Number:** L0809566

Project Number: 0079387 **Report Date:** 07/15/08

SAMPLE RESULTS

Lab ID:	L0809566-04	Date Collected:	06/25/08 10:50
Client ID:	MW-267S-20080625-01	Date Received:	06/27/08
Sample Location:	WAYLAND, MA	Field Prep:	Not Specified
Matrix:	Water	Extraction Method:	3510C
Anaytical Method:	1,8270	Extraction Date:	07/02/08 00:00
Analytical Date:	07/08/08 19:22		
Analyst:	TW		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
1,4-Dioxane by 8270					
1,4-Dioxane	10900		ng/l	500	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,4-Dioxane-d8	38		15-110

Project Name: RAYTHEON **Lab Number:** L0809566

Project Number: 0079387 **Report Date:** 07/15/08

SAMPLE RESULTS

Lab ID:	L0809566-05	Date Collected:	06/25/08 10:50
Client ID:	MW-268D-20080625-01	Date Received:	06/27/08
Sample Location:	WAYLAND, MA	Field Prep:	Not Specified
Matrix:	Water	Extraction Method:	3510C
Anaytical Method:	1,8270	Extraction Date:	07/02/08 00:00
Analytical Date:	07/09/08 03:40		
Analyst:	TW		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
1,4-Dioxane by 8270					
1,4-Dioxane	ND		ng/l	500	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,4-Dioxane-d8	45		15-110

Project Name: RAYTHEON **Lab Number:** L0809566

Project Number: 0079387 **Report Date:** 07/15/08

SAMPLE RESULTS

Lab ID:	L0809566-06	Date Collected:	06/25/08 10:50
Client ID:	MW-269MA-20080626-01	Date Received:	06/27/08
Sample Location:	WAYLAND, MA	Field Prep:	Not Specified
Matrix:	Water	Extraction Method:	3510C
Anaytical Method:	1,8270	Extraction Date:	07/02/08 00:00
Analytical Date:	07/09/08 05:08		
Analyst:	TW		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
1,4-Dioxane by 8270					
1,4-Dioxane	2220		ng/l	500	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,4-Dioxane-d8	47		15-110

Project Name: RAYTHEON **Lab Number:** L0809566

Project Number: 0079387 **Report Date:** 07/15/08

SAMPLE RESULTS

Lab ID:	L0809566-07	Date Collected:	06/25/08 10:50
Client ID:	MW-269D-20080626-01	Date Received:	06/27/08
Sample Location:	WAYLAND, MA	Field Prep:	Not Specified
Matrix:	Water	Extraction Method:	3510C
Anaytical Method:	1,8270	Extraction Date:	07/02/08 00:00
Analytical Date:	07/09/08 02:56		
Analyst:	TW		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
1,4-Dioxane by 8270					
1,4-Dioxane	ND		ng/l	500	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,4-Dioxane-d8	45		15-110

Project Name: RAYTHEON **Lab Number:** L0809566

Project Number: 0079387 **Report Date:** 07/15/08

SAMPLE RESULTS

Lab ID:	L0809566-08	Date Collected:	06/25/08 10:50
Client ID:	DUP-001-20080625-01	Date Received:	06/27/08
Sample Location:	WAYLAND, MA	Field Prep:	Not Specified
Matrix:	Water	Extraction Method:	3510C
Anaytical Method:	1,8270	Extraction Date:	07/02/08 00:00
Analytical Date:	07/08/08 14:49		
Analyst:	TW		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
1,4-Dioxane by 8270					
1,4-Dioxane	3230		ng/l	500	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,4-Dioxane-d8	35		15-110

Project Name: RAYTHEON **Lab Number:** L0809566

Project Number: 0079387 **Report Date:** 07/15/08

SAMPLE RESULTS

Lab ID:	L0809566-09	Date Collected:	06/25/08 10:50
Client ID:	DUP-002-20080625-01	Date Received:	06/27/08
Sample Location:	WAYLAND, MA	Field Prep:	Not Specified
Matrix:	Water	Extraction Method:	3510C
Anaytical Method:	1,8270	Extraction Date:	07/02/08 00:00
Analytical Date:	07/09/08 04:24		
Analyst:	TW		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
1,4-Dioxane by 8270					
1,4-Dioxane	ND		ng/l	532	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,4-Dioxane-d8	48		15-110

Project Name: RAYTHEON
Project Number: 0079387

Lab Number: L0809566
Report Date: 07/15/08

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270
Analytical Date: 07/08/08 03:31
Analyst: TW

Extraction Method: 3510C
Extraction Date: 07/02/08 00:00

Parameter	Result	Qualifier	Units	RDL
1,4-Dioxane by 8270 for sample(s):	01-03,08	Batch:	WG329190-1	
1,4-Dioxane	ND		ng/l	500

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,4-Dioxane-d8	40		15-110

Project Name: RAYTHEON
Project Number: 0079387

Lab Number: L0809566
Report Date: 07/15/08

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270
Analytical Date: 07/08/08 17:06
Analyst: TW

Extraction Method: 3510C
Extraction Date: 07/02/08 00:00

Parameter	Result	Qualifier	Units	RDL
1,4-Dioxane by 8270 for sample(s): 04-07,09 Batch: WG329193-1				
1,4-Dioxane	ND		ng/l	500

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,4-Dioxane-d8	42		15-110

Lab Control Sample Analysis

Batch Quality Control

Project Name: RAYTHEON
Project Number: 0079387
Lab Number: L0809566
Report Date: 07/15/08

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
1,4-Dioxane by 8270 Associated sample(s): 01-03,08 Batch: WG329190-2 WG329190-3					
1,4-Dioxane	92	94	40-140	2	30

Surrogate	LCS %Recovery	Qualifier	LCSD %Recovery	Qualifier	Acceptance Criteria
1,4-Dioxane-d8	43		34		15-110

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
1,4-Dioxane by 8270 Associated sample(s): 04-07,09 Batch: WG329193-2 WG329193-3					
1,4-Dioxane	91	92	40-140	1	30

Surrogate	LCS %Recovery	Qualifier	LCSD %Recovery	Qualifier	Acceptance Criteria
1,4-Dioxane-d8	42		42		15-110

Project Name: RAYTHEON
Project Number: 0079387

Lab Number: L0809566
Report Date: 07/15/08

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent
D	Absent
ABCD	Absent
B	Absent
C	Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp	Pres	Seal	Analysis
L0809566-01A	Amber 1000ml unpreserved	ABCD	7	2.9,2.5,2,2.6c	Y	Absent	SUB-MAN-1,4DIOXANE
L0809566-01B	Amber 1000ml unpreserved	ABCD	7	2.9,2.5,2,2.6c	Y	Absent	SUB-MAN-1,4DIOXANE
L0809566-02A	Amber 1000ml unpreserved	ABCD	7	2.9,2.5,2,2.6c	Y	Absent	SUB-MAN-1,4DIOXANE
L0809566-02B	Amber 1000ml unpreserved	ABCD	7	2.9,2.5,2,2.6c	Y	Absent	SUB-MAN-1,4DIOXANE
L0809566-03A	Amber 1000ml unpreserved	ABCD	7	2.9,2.5,2,2.6c	Y	Absent	SUB-MAN-1,4DIOXANE
L0809566-03B	Amber 1000ml unpreserved	ABCD	7	2.9,2.5,2,2.6c	Y	Absent	SUB-MAN-1,4DIOXANE
L0809566-04A	Amber 1000ml unpreserved	ABCD	7	2.9,2.5,2,2.6c	Y	Absent	SUB-MAN-1,4DIOXANE
L0809566-04B	Amber 1000ml unpreserved	ABCD	7	2.9,2.5,2,2.6c	Y	Absent	SUB-MAN-1,4DIOXANE
L0809566-04C	Amber 1000ml unpreserved	ABCD	7	2.9,2.5,2,2.6c	Y	Absent	SUB-MAN-1,4DIOXANE
L0809566-04D	Amber 1000ml unpreserved	ABCD	7	2.9,2.5,2,2.6c	Y	Absent	SUB-MAN-1,4DIOXANE
L0809566-04E	Amber 1000ml unpreserved	ABCD	7	2.9,2.5,2,2.6c	Y	Absent	SUB-MAN-1,4DIOXANE
L0809566-04F	Amber 1000ml unpreserved	ABCD	7	2.9,2.5,2,2.6c	Y	Absent	SUB-MAN-1,4DIOXANE
L0809566-05A	Amber 1000ml unpreserved	ABCD	7	2.9,2.5,2,2.6c	Y	Absent	SUB-MAN-1,4DIOXANE
L0809566-05B	Amber 1000ml unpreserved	ABCD	7	2.9,2.5,2,2.6c	Y	Absent	SUB-MAN-1,4DIOXANE
L0809566-06A	Amber 1000ml unpreserved	ABCD	7	2.9,2.5,2,2.6c	Y	Absent	SUB-MAN-1,4DIOXANE
L0809566-06B	Amber 1000ml unpreserved	ABCD	7	2.9,2.5,2,2.6c	Y	Absent	SUB-MAN-1,4DIOXANE
L0809566-07A	Amber 1000ml unpreserved	ABCD	7	2.9,2.5,2,2.6c	Y	Absent	SUB-MAN-1,4DIOXANE
L0809566-07B	Amber 1000ml unpreserved	ABCD	7	2.9,2.5,2,2.6c	Y	Absent	SUB-MAN-1,4DIOXANE

Project Name: RAYTHEON
Project Number: 0079387

Lab Number: L0809566
Report Date: 07/15/08

Container Information

Container ID	Container Type	Cooler	pH	Temp	Pres	Seal	Analysis
L0809566-08A	Amber 1000ml unpreserved	ABCD	7	2.9,2.5,2,2.6c	Y	Absent	SUB-MAN-1,4DIOXANE
L0809566-08B	Amber 1000ml unpreserved	ABCD	7	2.9,2.5,2,2.6c	Y	Absent	SUB-MAN-1,4DIOXANE
L0809566-09A	Amber 1000ml unpreserved	ABCD	7	2.9,2.5,2,2.6c	Y	Absent	SUB-MAN-1,4DIOXANE
L0809566-09B	Amber 1000ml unpreserved	ABCD	7	2.9,2.5,2,2.6c	Y	Absent	SUB-MAN-1,4DIOXANE

Project Name:	RAYTHEON	**Lab Number:**	L0809566
Project Number:	0079387	**Report Date:**	07/15/08

GLOSSARY

Acronyms

EPA - Environmental Protection Agency.

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

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

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

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NI - Not Ignitable.

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

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

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

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

Terms

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

Data Qualifiers

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

A - Spectra identified as "Aldol Condensation Product".

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

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

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

Standard Qualifiers

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

Report Format: Data Usability Report

Project Name:	RAYTHEON	**Lab Number:**	L0809566
Project Number:	0079387	**Report Date:**	07/15/08

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IIIA, 1997.

LIMITATION OF LIABILITIES

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

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

CHAIN OF CUSTODY (A) PAGE 1 OF 2

Revised COC Rec'd 7/1/08

L08095666

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

Date Rec'd in Lab: 6/27/08

Project Information
Project Name: RAYTHEON
Project Location: WAYLAND, MA
Project #: 0079387
Project Manager: JASON FLATTERY
ALPHA Quote #:

Report Information - Data Deliverables
☐ FAX ☑ EMAIL ☑ Same as Client info PO #:
☑ ADEx ☑ Add'l Deliverables

Regulatory Requirements/Reporting Limits
State /Fed Program: MA [redacted] MCP GW-1 Criteria:

MA MCP PRESUMPTIVE CERTAINTY / CT REASONABLE CONFIDENCE PROTOCOLS
☑ Yes ☐ No Are MCP Analytical Methods Required?
☐ Yes ☑ No Are CT RCP (Reasonable Confidence Protocols) Required?

Client Information
Client: ERM
Address: 399 BOYLSTON ST 6TH FLOOR - BOSTON, MA 02116
Phone: 617-646-7800
Fax: 617-267-6447
Email: JASON.FLATTERY@ERM.COM
☐ These samples have been previously analyzed by Alpha

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

Other Project Specific Requirements/Comments/Detection Limits:

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

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	1,4-Dioxane 8260 VOCs												Sample Specific Comments	
9566.01	MW-265M-20080625-01	6/25/08	10:50	GW	MS	2													2
.02	MW-266Ma-20080625-01	6/25/08	13:50	GW	MS	2													2
.03	MW-266Mb-20080625-01	6/25/08	13:40	GW	EW	2													2
.04	MW-267S-20080625-01	6/25/08	15:45	GW	EW	2	2												4
.05	MW-268D-20080625-01	6/25/08	16:40	GW	MS	2													2
.06	MW-269Ma-20080626-01	6/26/08	15:40	GW	LR	2													2
.07	MW-269D-20080626-01	6/26/08	15:50	GW	LR	2													2
.08	DUP-001-20080625-01	6/25/08	00:00	GW	MS	2													2
.09	DUP-002-20080625-01	6/25/08	00:00	GW	MS	2													2
	DUP-003-20080625-01	6/25/08	00:00	GW	EW		2												2
						Container Type		A	V										
						Preservative		A	B										

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT MA MCP or CT RCP?

Relinquished By:	Date/Time	Received By:	Date/Time
	6/27/08 1710		6/27 17:10

FORM NO: 01-01 (rev. 10-OCT-06)

Revised COC Rec'd 7/1/08

L0809566

CHAIN OF CUSTODY (A) PAGE 2 OF 2

ALPHA ANALYTICAL
WESTBORO, MA TEL: 508-898-9220 FAX: 508-898-9193
MANSFIELD, MA TEL: 508-822-9300 FAX: 508-822-3288

Date Rec'd in Lab: 6/27/08 — ALPHA Job #:

Client Information
Client: ETDM
Address: 399 BOYLSTON ST 6TH FLOOR - BOSTON, MA 02116
Phone: 617-646-7800
Fax: 617-267-6447
Email: JASON.FUTTERY@ETDM.COM
☐ These samples have been previously analyzed by Alpha

Project Information
Project Name: RAYTHEON
Project Location: WAYLAND, MA
Project #: 0079387
Project Manager: JASON FUTTERY
ALPHA Quote #:
Turn-A-Round Time
☑ Standard ☐ RUSH (only confirmed if pre-approved!!)
Date Due: Time:

Report Information - Data Deliverables
☐ FAX ☑ EMAIL
☑ ADEx ☑ Add'l Deliverables

Billing Information
☑ Same as Client info PO #: 0

Regulatory Requirements/Reporting Limits
State /Fed Program: MA MCP 6M-1 Criteria:

MA MCP CERTAINTY -- CT REASONABLE CONFIDENCE PROTOCOLS
☑ Yes ☐ No Are MCP Analytical Methods Required?
☐ Yes ☑ No Are CT RCP (Reasonable Confidence Protocols) Required?

Other Project Specific Requirements/Comments/Detection Limits:

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	1,4-Dioxane 8260 VOCs												Sample Specific Comments	
	TB-01-20080625-01	6/27/08	15:00	GW	MS		1												1
9566.04	MW-267S-20080625-01-MS	6/25/08	15:45	GW	EW	2													2
.04	MW-267S-20080625-01-MSD	6/25/08	15:45	GW	EW	2													2

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

Container Type	A	V																	
Preservative	A	B																	

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT MA MCP *or* CT RCP?

Relinquished By:	Date/Time	Received By:	Date/Time
	6/27/08 1760		6/27 1710

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

07150819:16

CHAIN OF CUSTODY PAGE 1 OF 3

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

Date Rec'd in Lab: 6/27

ALPHA Job #: L0809566

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

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

Turn-Around Time
☑ Standard ☐ RUSH (only confirmed if pre-approved!)
Date Due: 7/14 Time:

Report Information - Data Deliverables
☐ FAX ☑ EMAIL
☑ ADEx ☑ Add'l Deliverables

Billing Information
☑ Same as Client info PO #:

Regulatory Requirements/Report Limits
State /Fed Program: MA DEP Criteria:

MA MCP PRESUMPTIVE CERTAINTY --- CT REASONABLE CONFIDENCE PROTOCOLS
☑ Yes ☐ No Are MCP Analytical Methods Required?
☐ Yes ☑ No Are CT RCP (Reasonable Confidence Protocols) Required?

Other Project Specific Requirements/Comments/Detection Limits:

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	ANALYSIS 1,4-Dioxane	ANALYSIS VOC 8260	Sample Specific Comments	TOTAL # BOTTLES
9566.1	MW-204M-20080625-01	6/25/08	12:05	GW	MS	2			2
2	MW-205M-20080625-01	6/25/08	10:50	GW	MS	2			2
3	DUP-001-20080625-01	6/25/08	00.00	GW	MS	2			2
4	MW-206Ma-20080625-01	6/25/08	13.50	GW	MS	2			2
	TB-01-20080627	6/27/08	15:00	GW	MS		1		1
5	MW-206MB-20080625-01	6/25/08	1340	GW	EW	2			2
6	MW-207S-20080625-01	6/25/08	1545	GW	EW	2	2		4
6	MW-207S-20080625-01-MS	6/25/08	1545	GW	EW	2			2
6	MW-207S-20080625-01-MSD	6/25/08	1545	GW	EW	2			2
7	DUP-003-20080625-01	6/25/08	0000	GW	EW	2	2		2

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

Container Type	A	V																					
Preservative	A	B																					

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT MA MCP *or* CT RCP?

Relinquished By:	Date/Time	Received By:	Date/Time
	6/27/08 1710		6/27 1710

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

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

07150819:16

CHAIN OF CUSTODY

PAGE 2 OF 3

ALPHA

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

Date Rec'd in Lab: 6/27 ALPHA Job #: L0809566

Client Information

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

Project Information

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

Tum-Around Time

☑ Standard ☐ RUSH (only confirmed if pre-approved!)
Date Due: 7/14 Time:

Other Project Specific Requirements/Comments/Detection Limits:

Report Information - Data Deliverables

☐ FAX ☑ EMAIL
☑ ADEx ☐ Add'l Deliverables

Billing Information

☐ Same as Client info PO #:

Regulatory Requirements/Report Limits

State /Fed Program: MA DEP Criteria:

MA MCP PRESUMPTIVE CERTAINTY -- CT REASONABLE CONFIDENCE PROTOCOLS

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

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	ANALYSIS: 1,4 Dioxane	ANALYSIS: VOC 8260	Sample Specific Comments	TOTAL # BOTTLES
9566-8	MW-555D-20080627-01	6/27/08	0950	GW	MS	2	2		4
9	MW-5555-20080627-01	6/27/08	1325	GW	JM	2			2
10	MW-553M-20080627-01	6/27/08	1325	GW	EW	2			2
11	MW-555D-20080627-01	6/27/08	1320	GW	MS	2	2		2
12	MW-264D-20080626-01	6/26/08	1550	GW	LR	2			

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

Container Type	A	V
Preservative	A	B

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT MA MCP or CT RCP?

Relinquished By:	Date/Time	Received By:	Date/Time
	6/27/08 17:10		6/27/10

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

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

07150819:16

CHAIN OF CUSTODY PAGE 3 OF 3

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

Date Rec'd in Lab: 6/27

ALPHA Job #: L0809565

Client Information

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

Project Information

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

Turn-Around Time

☑ Standard ☐ RUSH (only confirmed if pre-approved!)
Date Due: 7/14 Time:

Report Information - Data Deliverables

☐ FAX ☑ EMAIL
☑ ADEx ☐ Add'l Deliverables

Billing Information

☐ Same as Client info PO #:

Regulatory Requirements/Report Limits

State /Fed Program: MA DEP
Criteria:

MA MCP PRESUMPTIVE CERTAINTY --- CT REASONABLE CONFIDENCE PROTOCOLS

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

Other Project Specific Requirements/Comments/Detection Limits:

ANALYSIS: 1,4 Dioxane; VOC 8260

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

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	1,4 Dioxane	VOC 8260	Sample Specific Comments	TOTAL # BOTTLES
95613	MW-208D-20080625-01	6/25/08	1610	GW	MS	2			2
14	DUP-002-20080625-01	6/25/08	0000	GW	MS	2			2
15	MW-209M-20080626-01	6/26/08	1540	GW	LR	2			2
16	MW-554S-20080626-01	6/26/08	1200	GW	MS	2			2
17	MW-554M-20080626-01	6/26/08	1205	GW	LR	2			2
18	MW-554M-20080626-01	6/26/08	1025	GW	LR	2			2
19	MW-554D-20080626-01	6/26/08	1030	GW	MS	2	2		4
20	MW-555S-20080627-01	6/27/08	1110	GW	MS	2			2
21	MW-555M-20080627-01	6/27/08	1050	GW	EW	2			2
22	MW-555M-20080627-01	6/27/08	0930	GW	EW	2			2
	Container Type					A	V		
	Preservative					A	B		

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT MA MCP or CT RCP?

Relinquished By:	Date/Time	Received By:	Date/Time
	6/27/08 1710		6/27 1710

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.

FORMNO: 01-01 (rev 10-OCT-05)

ANALYTICAL REPORT

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

Project:
ETR: 0806187
Report Date: July 15, 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

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

Sample ID Cross Reference

Client: **Alpha Analytical - Westborough**
Project: **L0809566 - ERM**

Lab Code: **MA00030**
ETR: **0806187**

Lab Sample ID	Client Sample ID
0806187-02	MW-265M-20080625-01
0806187-03	DUP-001-20080625-01
0806187-04	MW-266Ma-20080625-01
0806187-05	MW-266MB-20080625-01
0806187-06	MW-267S-20080625-01
0806187-12	MW-269D-20080626-01
0806187-13	MW-268D-20080625-01
0806187-14	DUP-002-20080625-01
0806187-15	MW-269Ma-20080626-01

CASE NARRATIVE
Alpha Analytical

ETR: 0806187
Project: ERM Raytheon, Wayland, MA

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.

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: Technical Representative Date: 7/15/18
Kathleen O'Brien

1,4-Dioxane
By
8270

Semi-Volatile Organics by 8270

Client: **Alpha Analytical - Westborough**
Project: [illegible]
Client ID: **MW-265M-20080625-01**
Case: **N/A** SDG: **N/A**
Matrix: **Water**

Lab Code: **MA00030**
ETR: **0806187**
Lab ID: **0806187-02**
Associated Blank: **SW070108B02**
Concentration Units: **ng/L**

Date Collected	Date Received	Date Extracted	Date Analyzed	Sample Amount (ml)	Final Volume (ml)	Dilution Factor	Analyst
06/25/08	06/30/08	07/02/08	07/08/08	1000	10	1	ALM

Parameter	Result
1,4-Dioxane	2980

Surrogate	% Recovery	Acceptance Range (%)
1,4-Dioxane-d8	45	15-110

N/A - Not Applicable

Semi-Volatile Organics by 8270

Client: **Alpha Analytical - Westborough**
Project:
Client ID: **MW-266Ma-20080625-01**
Case: **N/A** SDG: **N/A**
Matrix: **Water**

Lab Code: **MA00030**
ETR: **0806187**
Lab ID: **0806187-04**
Associated Blank: **SW070108B02**
Concentration Units: **ng/L**

Date Collected	Date Received	Date Extracted	Date Analyzed	Sample Amount (ml)	Final Volume (ml)	Dilution Factor	Analyst
06/25/08	06/30/08	07/02/08	07/08/08	1000	10	1	ALM

Parameter	Result
1,4-Dioxane	**4110**

Surrogate	% Recovery	Acceptance Range (%)
1,4-Dioxane-d8	34	15-110

N/A - Not Applicable

Semi-Volatile Organics by 8270

Client: **Alpha Analytical - Westborough**
Project:
Client ID: **MW-266MB-20080625-01**
Case: **N/A** SDG: **N/A**
Matrix: **Water**

Lab Code: **MA00030**
ETR: **0806187**
Lab ID: **0806187-05**
Associated Blank: **SW070108B02**
Concentration Units: **ng/L**

Date Collected	Date Received	Date Extracted	Date Analyzed	Sample Amount (ml)	Final Volume (ml)	Dilution Factor	Analyst
06/25/08	06/30/08	07/02/08	07/08/08	1000	10	1	ALM

Parameter	Result
1,4-Dioxane	368 J

Surrogate	% Recovery	Acceptance Range (%)
1,4-Dioxane-d8	41	15-110

N/A - Not Applicable
J - Estimated value, below quantitation limit.

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

Semi-Volatile Organics by 8270

Client: **Alpha Analytical - Westborough**
Project:
Client ID: **MW-267S-20080625-01**
Case: **N/A** SDG: **N/A**
Matrix: **Water**

Lab Code: **MA00030**
ETR: **0806187**
Lab ID: **0806187-06**
Associated Blank: **SW070108B12**
Concentration Units: **ng/L**

Date Collected	Date Received	Date Extracted	Date Analyzed	Sample Amount (ml)	Final Volume (ml)	Dilution Factor	Analyst
06/25/08	06/30/08	07/02/08	07/08/08	900	10	1	ALM

Parameter	Result
1,4-Dioxane	10900

Surrogate	% Recovery	Acceptance Range (%)
1,4-Dioxane-d8	38	15-110

N/A - Not Applicable

Semi-Volatile Organics by 8270

Client: **Alpha Analytical - Westborough**
Project:
Client ID: **MW-268D-20080625-01**
Case: **N/A** SDG: **N/A**
Matrix: **Water**

Lab Code: **MA00030**
ETR: **0806187**
Lab ID: **0806187-13**
Associated Blank: **SW070108B12**
Concentration Units: **ng/L**

Date Collected	Date Received	Date Extracted	Date Analyzed	Sample Amount (ml)	Final Volume (ml)	Dilution Factor	Analyst
06/25/08	06/30/08	07/02/08	07/09/08	1000	10	1	ALM

Parameter	Result
1,4-Dioxane	255 J

Surrogate	% Recovery	Acceptance Range (%)
1,4-Dioxane-d8	45	15-110

N/A - Not Applicable
J - Estimated value, below quantitation limit.

Semi-Volatile Organics by 8270

Client: **Alpha Analytical - Westborough**
Project:
Client ID: **MW-269Ma-20080626-01**
Case: **N/A** SDG: **N/A**
Matrix: **Water**

Lab Code: **MA00030**
ETR: **0806187**
Lab ID: **0806187-15**
Associated Blank: **SW070108B12**
Concentration Units: **ng/L**

Date Collected	Date Received	Date Extracted	Date Analyzed	Sample Amount (ml)	Final Volume (ml)	Dilution Factor	Analyst
06/26/08	06/30/08	07/02/08	07/09/08	930	10	1	ALM

Parameter	Result
1,4-Dioxane	2220

Surrogate	% Recovery	Acceptance Range (%)
1,4-Dioxane-d8	47	15-110

N/A - Not Applicable

Semi-Volatile Organics by 8270

Client: **Alpha Analytical - Westborough**
Project:
Client ID: **MW-269D-20080626-01**
Case: **N/A** SDG: **N/A**
Matrix: **Water**

Lab Code: **MA00030**
ETR: **0806187**
Lab ID: **0806187-12**
Associated Blank: **SW070108B12**
Concentration Units: **ng/L**

Date Collected	Date Received	Date Extracted	Date Analyzed	Sample Amount (ml)	Final Volume (ml)	Dilution Factor	Analyst
06/26/08	06/30/08	07/02/08	07/09/08	1000	10	1	ALM

Parameter	Result
1,4-Dioxane	500 U

Surrogate	% Recovery	Acceptance Range (%)
1,4-Dioxane-d8	45	15-110

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

Semi-Volatile Organics by 8270

Client: **Alpha Analytical - Westborough**
Project:
Client ID: **DUP-001-20080625-01**
Case: **N/A** SDG: **N/A**
Matrix: **Water**

Lab Code: **MA00030**
ETR: **0806187**
Lab ID: **0806187-03**
Associated Blank: **SW070108B02**
Concentration Units: **ng/L**

Date Collected	Date Received	Date Extracted	Date Analyzed	Sample Amount (ml)	Final Volume (ml)	Dilution Factor	Analyst
06/25/08	06/30/08	07/02/08	07/08/08	950	10	1	ALM

Parameter	Result
1,4-Dioxane	3230

Surrogate	% Recovery	Acceptance Range (%)
1,4-Dioxane-d8	35	15-110

N/A - Not Applicable

Semi-Volatile Organics by 8270

Client: **Alpha Analytical - Westborough**
Project:
Client ID: **DUP-002-20080625-01**
Case: **N/A** SDG: **N/A**
Matrix: **Water**

Lab Code: **MA00030**
ETR: **0806187**
Lab ID: **0806187-14**
Associated Blank: **SW070108B12**
Concentration Units: **ng/L**

Date Collected	Date Received	Date Extracted	Date Analyzed	Sample Amount (ml)	Final Volume (ml)	Dilution Factor	Analyst
06/25/08	06/30/08	07/02/08	07/09/08	940	10	1	ALM

Parameter	Result
1,4-Dioxane	285 J

Surrogate	% Recovery	Acceptance Range (%)
1,4-Dioxane-d8	48	15-110

N/A - Not Applicable
J - Estimated value, below quantitation limit.

Blank
Semi-Volatile Organics by 8270

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

Lab Code: **MA00030**
ETR: **0806187**
Lab ID: **SW070108B02**
Associated Blank: **N/A**
Concentration Units: **ng/L**

Date Collected	Date Received	Date Extracted	Date Analyzed	Sample Amount (ml)	Final Volume (ml)	Dilution Factor	Analyst
N/A	N/A	07/02/08	07/08/08	1000	10	1	ALM

Parameter	Result
1,4-Dioxane	500 U

Surrogate	% Recovery	Acceptance Range (%)
1,4-Dioxane-d8	40	15-110

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

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

Blank
Semi-Volatile Organics by 8270

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

Lab Code: **MA00030**
ETR: **0806187**
Lab ID: **SW070108B12**
Associated Blank: **N/A**
Concentration Units: **ng/L**

Date Collected	Date Received	Date Extracted	Date Analyzed	Sample Amount (ml)	Final Volume (ml)	Dilution Factor	Analyst
N/A	N/A	07/02/08	07/08/08	1000	10	1	ALM

Parameter	Result
1,4-Dioxane	500 U

Surrogate	% Recovery	Acceptance Range (%)
1,4-Dioxane-d8	42	15-110

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

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

Laboratory Control Summary
Semi-Volatile Organics by 8270

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

Lab Code: **MA00030**
ETR: **0806187**
Lab ID: **See Below**
Associated Blank: **SW070108B02**
Concentration Units: **ng/L**

Date Collected	Date Received	Date Extracted	Analyst
N/A	N/A	07/02/08	ALM

Lab ID: SW070108B02 SW070108LCS01 SW070108LCSD01

Parameter	Blank Conc.	LCS Conc.	LCS % Recovery	LCSD Conc.	LCSD % Recovery	% RPD	RPD Limit	% Recovery Limits
1,4-Dioxane	500 U	4610	92	4680	94	2	30	40-140

Surrogate	% Recovery		Acceptance Range (%)
1,4-Dioxane-d8	43	34	15-110

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.

07/10/08 08:01

Laboratory Control Summary
Semi-Volatile Organics by 8270

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

Lab Code: **MA00030**
ETR: **0806187**
Lab ID: **See Below**
Associated Blank: **SW070108B12**
Concentration Units: **ng/L**

Date Collected	Date Received	Date Extracted	Analyst
N/A	N/A	07/02/08	ALM

Lab ID: SW070108B12 SW070108LCS05 SW070108LCSD05

Parameter	Blank Conc.		LCS Conc.	LCS % Recovery	LCSD Conc.	LCSD % Recovery	% RPD	RPD Limit	% Recovery Limits
1,4-Dioxane	500	U	4570	91	4620	92	1	30	40-140

Surrogate	% Recovery		Acceptance Range (%)
1,4-Dioxane-d8	42	42	15-110

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.

07/10/08 08:01

Matrix Spike Duplicate
Semi-Volatile Organics by 8270

Client: **Alpha Analytical - Westborough**
Project:
Client ID: **MW-267S-20080625-01**
Case: **N/A** SDG: **N/A**
Matrix: **Water**

Lab Code: **MA00030**
ETR: **0806187**
Lab ID: **See Below**
Associated Blank: **SW070108B12**
Concentration Units: **ng/L**

Date Collected	Date Received	Date Extracted	Analyst
06/25/08	06/30/08	07/02/08	ALM

Lab ID:		0806187-06		0806187-06		0806187-06			
Parameter	Sample Conc.	Matrix Spike Conc.	% Recovery	Matrix Spike Dup. Conc.	% Recovery	% RPD	RPD Limit	% Recovery Limits	
1,4-Dioxane	10900	15400	81	15100	75	2	30	40-140	

Surrogate	% Recovery		Acceptance Range (%)
1,4-Dioxane-d8	37	40	15-110

N/A - Not Applicable

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

07/10/08 08:02

Blank
Semi-Volatile Organics by 8270

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

Lab Code: **MA00030**
ETR: **0806187**
Lab ID: **SW070108B02**
Associated Blank: **N/A**
Concentration Units: **ng/L**

Date Collected	Date Received	Date Extracted	Date Analyzed	Sample Amount (ml)	Final Volume (ml)	Dilution Factor	Analyst
N/A	N/A	07/02/08	07/08/08	1000	10	1	ALM

Parameter	Result
1,4-Dioxane	500 U

Surrogate	% Recovery	Acceptance Range (%)
1,4-Dioxane-d8	40	15-110

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

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

Blank
Semi-Volatile Organics by 8270

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

Lab Code: **MA00030**
ETR: **0806187**
Lab ID: **SW070108B12**
Associated Blank: **N/A**
Concentration Units: **ng/L**

Date Collected	Date Received	Date Extracted	Date Analyzed	Sample Amount (ml)	Final Volume (ml)	Dilution Factor	Analyst
N/A	N/A	07/02/08	07/08/08	1000	10	1	ALM

Parameter	Result
1,4-Dioxane	500 U

Surrogate	% Recovery	Acceptance Range (%)
1,4-Dioxane-d8	42	15-110

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

Laboratory Control Summary
Semi-Volatile Organics by 8270

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

Lab Code: **MA00030**
ETR: **0806187**
Lab ID: **See Below**
Associated Blank: **SW070108B02**
Concentration Units: **ng/L**

Date Collected	Date Received	Date Extracted	Analyst
N/A	N/A	07/02/08	ALM

Lab ID: SW070108B02 SW070108LCS01 SW070108LCSD01

Parameter	Blank Conc.	LCS Conc.	LCS % Recovery	LCSD Conc.	LCSD % Recovery	% RPD	RPD Limit	% Recovery Limits
1,4-Dioxane	500 U	4610	92	4680	94	2	30	40-140

Surrogate	% Recovery		Acceptance Range (%)
1,4-Dioxane-d8	43	34	15-110

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.

07/10/08 08:01

Laboratory Control Summary
Semi-Volatile Organics by 8270

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

Lab Code: **MA00030**
ETR: **0806187**
Lab ID: **See Below**
Associated Blank: **SW070108B12**
Concentration Units: **ng/L**

Date Collected	Date Received	Date Extracted	Analyst
N/A	N/A	07/02/08	ALM

Lab ID: SW070108B12 SW070108LCS05 SW070108LCSD05

Parameter	Blank Conc.	LCS Conc.	LCS % Recovery	LCSD Conc.	LCSD % Recovery	% RPD	RPD Limit	% Recovery Limits
1,4-Dioxane	500 U	4570	91	4620	92	1	30	40-140

Surrogate	% Recovery		Acceptance Range (%)
1,4-Dioxane-d8	42	42	15-110

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.

07/10/08 08:01

Matrix Spike Duplicate
Semi-Volatile Organics by 8270

Client: **Alpha Analytical - Westborough**
Project:
Client ID: **MW-267S-20080625-01**
Case: **N/A** SDG: **N/A**
Matrix: **Water**

Lab Code: **MA00030**
ETR: **0806187**
Lab ID: **See Below**
Associated Blank: **SW070108B12**
Concentration Units: **ng/L**

Date Collected	Date Received	Date Extracted	Analyst
06/25/08	06/30/08	07/02/08	ALM

Lab ID:		0806187-06		0806187-06		0806187-06			
Parameter	**Sample Conc.**	**Matrix Spike Conc.**	**% Recovery**	**Matrix Spike Dup. Conc.**	**% Recovery**	**% RPD**	**RPD Limit**	**% Recovery Limits**	
1,4-Dioxane	10900	15400	81	15100	75	2	30	40-140	

Surrogate	% Recovery		Acceptance Range (%)
1,4-Dioxane-d8	37	40	15-110

N/A - Not Applicable

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

07/10/08 08:02

Chain of Custody Records

07/01/2008 12: 001/005

Revised COC Rec'd 7/1/08 L0809566

CHAIN OF COUNTY (A) PAGE 1 OF 2

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

Date Rec'd in Lab: 6/27/08

Client: ERM
Address: 399 BOYLSTON ST
6TH FLOOR - BOSTON, MA 02116
Phone: 617-646-7800
Fax: 617-267-6447
Email: JASON.FLATTERY@ERM.COM
☐ These samples have been previously analyzed by Alpha

Project Name: RAYTHEON
Project Location: WAYLAND, MA
Project #: 0079387
Project Manager: JASON FLATTERY
ALPHA Quote #:

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

☐ FAX ☑ EMAIL
☑ ADEx ☑ Add'l Deliverables

☑ Same as Client info PO #:

State /Fed Program: MA [redacted] MCP GW-1
Criteria:

MA MCP PRESUMPTIVE CERTAINTY — CT REASONABLE CONFIDENCE PROTOCOLS
[✓ Yes] ☐ No Are MCP Analytical Methods Required?
☐ Yes [✓ No] Are CT RCP (Reasonable Confidence Protocols) Required?

Other Project Specific Requirements/Comments/Detection Limits:

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

	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	1,4-DIOXANE	VOCs -8260	Sample Specific Comments	
9566.01	MW-265M-20080625-01	6/25/08	10:50	GW	MS	2			2
.02	MW-266Ma-20080625-01	6/25/08	13:50	GW	MS	2			2
.03	MW-266Mb-20080625-01	6/25/08	13:40	GW	EW	2			2
.04	MW-267S-20080625-01	6/25/08	15:45	GW	EW	2	2		4
.05	MW-268D-20080625-01	6/25/08	16:10	GW	MS	2			2
.06	MW-269Ma-20080626-01	6/26/08	15:40	GW	LR	2			2
.07	MW-269D-20080626-01	6/26/08	15:50	GW	LR	2			2
.08	DUP-001-20080625-01	6/25/08	00:00	GW	MS	2			2
.09	DUP-002-20080625-01	6/25/08	00:00	GW	MS	2			2
	DUP-003-20080625-01	6/25/08	00:00	GW	EW		2		2
					Container Type	A	V		
					Preservative	A	B		

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT MA MCP or CT RCP?

Relinquished By:	Date/Time	Received By:	Date/Time
[illegible]	6/27/08 17:10	[illegible]	6/27 17:10

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

07/01/2008 12:11 FAX ☑ 002/003

Revised coc Rec'd 7/1/08 L0809566

ALPHA ANALYTICAL

CHAIN OF CUSTODY

PAGE 2 OF 2 (A)

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

Client Information

Client: ERM
Address: 399 BOYLSTON ST 6TH FLOOR, BOSTON, MA 02116
Phone: 617-646-7800
Fax: 617-267-6447
Email: JASON.FLATTERY@ERM.COM
☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: RAYTHEON
Project Location: WAYLAND, MA
Project #: 0079387
Project Manager: JASON FLATTERY
ALPHA Quote #:

Turn-Around Time

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

Report Information - Data Deliverables

☐ FAX ☑ EMAIL
☑ ADEx ☑ Add'l Deliverables

Billing Information

☑ Same as Client info PO #:

Regulatory Requirements/Report Limits

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

MA MCP PRESUMPTIVE CERTAINTY --- CT REASONABLE CONFIDENCE PROTOCOLS

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

Other Project Specific Requirements/Comments/Detection Limits:

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	1,4-DIOXANE	VOC, 8260	Sample Specific Comments	
	TB-01-20080627-01	6/27/08	15:00	GW	MS		1		1
95066-04	MW-267S-20080625-01-MS	6/25/08	15:45	GW	EW	2			2
-04	MW-267S-20080625-01-MSD	6/25/08	15:45	GW	EW	2			2

Container Type: A V
Preservative: A B

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

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT MA MCP or CT RCP?

Relinquished By:	Date/Time	Received By:	Date/Time
[signature]	6/27/08 1710	[signature]	6/27-1710

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

CHAIN OF CUSTODY

PAGE 1 OF 1

ALPHA ANALYTICAL LABS

Westborough, MA TEL: 508-898-9220 FAX: 508-898-9193
Raynham, MA TEL: 508-822-9300 FAX: 508-822-3288
Bedford, NH TEL: 603-232-8247 FAX: 603-626-2241

Client Information

Client: Alpha Analytical Labs, Inc.
Address: 8 Walkup Dr.
Westboro, Ma 01581
Phone:
Fax:
Email:

☐ These samples have been Previously analyzed by Alpha

Project Information

Project Name: Raytheon
Project Location: MA
Project #:
Project Manager: Matt Beaupre
ALPHA Quote #:

Turn-Around Time

☒ Standard ☐ Rush (ONLY IF PRE-APPROVED)

Due Date: 07/14/08 Time:

Other Project Specific Requirements/Comments/Detection Limits:
2nd Revision -See Matt B. with Questions.

Date Rec'd in Lab: ALPHA Job #:

Report Information — Data Deliverables

☐ FAX ☒ EMAIL
☒ ADEx ☐ Add'l Deliverables

Billing Information

☐ Same as Client Info PO #:

Regulatory Requirements/Report Limits

State/Fed Program: MA
Criteria:

MCP PRESUMPTIVE CERTAINTY-CT REASONABLE CONFIDENCE PROTOCOLS

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

ANALYSIS

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

TOTAL # BOTTLES

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	1,4 Dioxane	Sample Specific Comments
	L0809566-01	06/25/08		GW		☒	
	L0809566-02					☒	
	L0809566-03					☒	
	L0809566-04					☒	MS/MSD
	L0809566-05					☒	
	L0809566-06	06/26/08				☒	
	L0809566-07	06/26/08				☒	
	L0809566-08	06/25/08				☒	
	L0809566-09	06/25/08				☒	
						☐	

Container Type	-	-	-	-	-	-	-	-	-	-	-	-	
Preservative	-	-	-	-	-	-	-	-	-	-	-	-	

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT MA MCP or CT RCP?

Relinquished By:	Date/Time	Received By:	Date/Time
	7/9/08		

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.

FORM NO: 01-01 Internal (rev. 12-April-06)

Sample Receipt Checklist

Client: ALPHA		**Receipt Date:** 6/30/08	
Project:		**Log-in Date:**	
ETR #: 0806187		**Inspection by:** VR	**Login by:** VR

ALL SECTIONS BELOW MUST BE COMPLETED

Comments / Notes

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

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

Number of coolers received for this project delivery: 3 VR

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

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

Cooler 1:
Temperature(s) taken from: 4° IR Gun, (Circle one) SN 460647143 or 94031
4° Temp. Blank, / NA
Were samples received on ice? (Yes) / No

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

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

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

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

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

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

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

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

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

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

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

Project Manager Acknowledgement: Date:

Sample storage refrigerator #: 03

Sample storage freezer #:_____

Cooler 2: 4°/4° Cooler 3: 4°/4°

Cooler 4: 4°/4° Cooler 5:_____

Cooler 6:_____ Cooler 7:_____

More:_____

Chemical preservation OK for ALL samples?
Yes / No / ~~N/A~~
If No, list samples below:

Please use back for any additional notes!

Sample Delivery Group Form

Laboratory Job number: L0809566

Client Account: ERM-New England **Received:** 06/27/2008 17:10

Samples Delivered by: CLIENT
Bill Of Laden N/A **Trackingnum**
Coc Present Present

Container Status Intact **Sample IDs**

All Containers Accounted For? No
Missing MW-555S-20080627-01, MW-555M-20080627-01, MW-555D-20080627-01.
Also missing Amber for Dup-003-20080625-01.

Were Extra Samples Received? Yes
Rec'd MW-556S-20080627-01, MW-556M-20080627-01, MW-556D-20080627-01 with date and time match above samples.

Do Sample Labels and COC agree? Yes

Are Samples in Appropriate Containers? Yes

Are Samples Received within Holding time? Yes

pH of Samples upon Receipt **Are samples Properly Preserved?** Yes
Initial pH **preserved in house with** **Final pH**
Other Issues
Chlorine Check N/A

Are VOA/VPH Vials Present? No
Aqueous: Do Vials Contain Head Space? N/A
Soils: Is MeOH Covering the Soil? N/A
Reagent H2O Preserved vials Frozen on N/A
Frozen by Client N/A

Cooler	Seal	Ice Present	Blue Ice Present	Temperature	Frozen upon Receipt	Delivered Direct from Site
C	Absent	Yes	No	2 c - IR Gun	No	No

Sample Delivery Group Form

Cooler	Seal	Ice Present	Blue Ice Present	Temperature	Frozen upon Receipt	Delivered Direct from Site
A	Absent	Yes	No	2.9 c - Temp. Blank	No	No
B	Absent	Yes	No	2.5 c - Temp. Blank	No	No
D	Absent	Yes	No	2.6 c - Temp. Blank	No	No

Certificate/Approval Program Summary

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

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

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

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

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

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

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

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

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

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

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

U.S. Army Corps of Engineers

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