

Appendix C
Analytical Laboratory Reports
(Provided on CD)

Appendix C
Injection Well Waste
Characterization



ANALYTICAL REPORT

Lab Number:	L0812109
Client:	ERM-New England 399 Boylston Street 6th Floor Boston, MA 02116
ATTN:	Jason Flattery
Project Name:	RAYTHEON-WAYLAND
Project Number:	0079387
Report Date:	08/21/08

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.

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Project Name: RAYTHEON-WAYLAND
Project Number: 0079387

Lab Number: L0812109
Report Date: 08/21/08

Alpha Sample ID	Client ID	Sample Location
L0812109-01	IW-4-A-20080814-01	WAYLAND, MA
L0812109-02	IW-4-B-20080814-01	WAYLAND, MA
L0812109-03	IW-5-A-20080814-01	WAYLAND, MA
L0812109-04	IW-5-B-20080814-01	WAYLAND, MA
L0812109-05	MW-560-A20080815-01	WAYLAND, MA
L0812109-06	MW-560-B20080815-01	WAYLAND, MA
L0812109-07	TB-01-20080815-01	WAYLAND, MA
L0812109-08	TB-02-20080815-01	WAYLAND, MA

Project Name: RAYTHEON-WAYLAND

Lab Number: L0812109

Project Number: 0079387

Report Date: 08/21/08

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 method(s) included in this report followed, including the requirement to note and discuss in a narrative QC data that did not meet appropriate performance standards or guidelines?	YES
C	Does the analytical data included in this report meet all the requirements for "Presumptive Certainty", as described in section 2.0 of the MADEP document CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	YES
D	VPH and EPH methods only: Was the VPH or EPH method run without significant modifications, as specified in Section 11.3?	N/A
A response to questions E and F is required for "Presumptive Certainty" status		
E	Were all QC performance standards and recommendations for the specified method(s) achieved?	YES
F	Were results for all analyte-list compounds/elements for the specified method(s) reported?	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-WAYLAND
Project Number: 0079387

Lab Number: L0812109
Report Date: 08/21/08

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.

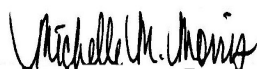
MCP Related Narratives

Report Submission

All MCP required questions were answered with affirmative responses; therefore, there are no relevant data issues to discuss.

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: 08/21/08

ORGANICS

VOLATILES

Project Name: RAYTHEON-WAYLAND**Lab Number:** L0812109**Project Number:** 0079387**Report Date:** 08/21/08**SAMPLE RESULTS**

Lab ID: L0812109-01
 Client ID: IW-4-A-20080814-01
 Sample Location: WAYLAND, MA
 Matrix: Soil
 Analytical Method: 60,8260B
 Analytical Date: 08/18/08 13:29
 Analyst: BN
 Percent Solids: 82%

Date Collected: 08/14/08 09:00
 Date Received: 08/15/08
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B/5035-Soil Analysis					
Methylene chloride	ND		ug/kg	12	1
1,1-Dichloroethane	ND		ug/kg	1.7	1
Chloroform	ND		ug/kg	1.7	1
Carbon tetrachloride	ND		ug/kg	1.2	1
1,2-Dichloropropane	ND		ug/kg	4.0	1
Dibromochloromethane	ND		ug/kg	1.2	1
1,1,2-Trichloroethane	ND		ug/kg	1.7	1
Tetrachloroethene	ND		ug/kg	1.2	1
Chlorobenzene	ND		ug/kg	1.2	1
Trichlorofluoromethane	ND		ug/kg	5.8	1
1,2-Dichloroethane	ND		ug/kg	1.2	1
1,1,1-Trichloroethane	ND		ug/kg	1.2	1
Bromodichloromethane	ND		ug/kg	1.2	1
trans-1,3-Dichloropropene	ND		ug/kg	1.2	1
cis-1,3-Dichloropropene	ND		ug/kg	1.2	1
1,1-Dichloropropene	ND		ug/kg	5.8	1
Bromoform	ND		ug/kg	4.6	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.2	1
Benzene	ND		ug/kg	1.2	1
Toluene	ND		ug/kg	1.7	1
Ethylbenzene	ND		ug/kg	1.2	1
Chloromethane	ND		ug/kg	5.8	1
Bromomethane	ND		ug/kg	2.3	1
Vinyl chloride	ND		ug/kg	2.3	1
Chloroethane	ND		ug/kg	2.3	1
1,1-Dichloroethene	ND		ug/kg	1.2	1
trans-1,2-Dichloroethene	ND		ug/kg	1.7	1
Trichloroethene	ND		ug/kg	1.2	1
1,2-Dichlorobenzene	ND		ug/kg	5.8	1
1,3-Dichlorobenzene	ND		ug/kg	5.8	1

Project Name: RAYTHEON-WAYLAND

Lab Number: L0812109

Project Number: 0079387

Report Date: 08/21/08

SAMPLE RESULTS

Lab ID: L0812109-01

Date Collected: 08/14/08 09:00

Client ID: IW-4-A-20080814-01

Date Received: 08/15/08

Sample Location: WAYLAND, MA

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B/5035-Soil Analysis					
1,4-Dichlorobenzene	ND		ug/kg	5.8	1
Methyl tert butyl ether	ND		ug/kg	2.3	1
p/m-Xylene	ND		ug/kg	2.3	1
o-Xylene	ND		ug/kg	2.3	1
cis-1,2-Dichloroethene	ND		ug/kg	1.2	1
Dibromomethane	ND		ug/kg	12	1
1,2,3-Trichloropropane	ND		ug/kg	12	1
Styrene	ND		ug/kg	2.3	1
Dichlorodifluoromethane	ND		ug/kg	12	1
Acetone	ND		ug/kg	12	1
Carbon disulfide	ND		ug/kg	58	1
2-Butanone	ND		ug/kg	12	1
4-Methyl-2-pentanone	ND		ug/kg	12	1
2-Hexanone	ND		ug/kg	12	1
Bromochloromethane	ND		ug/kg	5.8	1
Tetrahydrofuran	ND		ug/kg	23	1
2,2-Dichloropropane	ND		ug/kg	5.8	1
1,2-Dibromoethane	ND		ug/kg	4.6	1
1,3-Dichloropropane	ND		ug/kg	5.8	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.2	1
Bromobenzene	ND		ug/kg	5.8	1
n-Butylbenzene	ND		ug/kg	1.2	1
sec-Butylbenzene	ND		ug/kg	1.2	1
tert-Butylbenzene	ND		ug/kg	5.8	1
o-Chlorotoluene	ND		ug/kg	5.8	1
p-Chlorotoluene	ND		ug/kg	5.8	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.8	1
Hexachlorobutadiene	ND		ug/kg	5.8	1
Isopropylbenzene	ND		ug/kg	1.2	1
p-Isopropyltoluene	ND		ug/kg	1.2	1
Naphthalene	ND		ug/kg	5.8	1
n-Propylbenzene	ND		ug/kg	1.2	1
1,2,3-Trichlorobenzene	ND		ug/kg	5.8	1
1,2,4-Trichlorobenzene	ND		ug/kg	5.8	1
1,3,5-Trimethylbenzene	ND		ug/kg	5.8	1
1,2,4-Trimethylbenzene	ND		ug/kg	5.8	1
Ethyl ether	ND		ug/kg	5.8	1

Project Name: RAYTHEON-WAYLAND**Lab Number:** L0812109**Project Number:** 0079387**Report Date:** 08/21/08**SAMPLE RESULTS**

Lab ID: L0812109-01

Date Collected: 08/14/08 09:00

Client ID: IW-4-A-20080814-01

Date Received: 08/15/08

Sample Location: WAYLAND, MA

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B/5035-Soil Analysis					
Isopropyl Ether	ND		ug/kg	4.6	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	4.6	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	4.6	1
1,4-Dioxane	ND		ug/kg	580	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	105		70-130

Project Name: RAYTHEON-WAYLAND**Lab Number:** L0812109**Project Number:** 0079387**Report Date:** 08/21/08**SAMPLE RESULTS**

Lab ID: L0812109-02
 Client ID: IW-4-B-20080814-01
 Sample Location: WAYLAND, MA
 Matrix: Soil
 Analytical Method: 60,8260B
 Analytical Date: 08/18/08 14:05
 Analyst: BN
 Percent Solids: 72%

Date Collected: 08/14/08 09:20
 Date Received: 08/15/08
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B/5035-Soil Analysis					
Methylene chloride	ND		ug/kg	13	1
1,1-Dichloroethane	ND		ug/kg	2.0	1
Chloroform	ND		ug/kg	2.0	1
Carbon tetrachloride	ND		ug/kg	1.3	1
1,2-Dichloropropane	ND		ug/kg	4.7	1
Dibromochloromethane	ND		ug/kg	1.3	1
1,1,2-Trichloroethane	ND		ug/kg	2.0	1
Tetrachloroethene	ND		ug/kg	1.3	1
Chlorobenzene	ND		ug/kg	1.3	1
Trichlorofluoromethane	ND		ug/kg	6.7	1
1,2-Dichloroethane	ND		ug/kg	1.3	1
1,1,1-Trichloroethane	ND		ug/kg	1.3	1
Bromodichloromethane	ND		ug/kg	1.3	1
trans-1,3-Dichloropropene	ND		ug/kg	1.3	1
cis-1,3-Dichloropropene	ND		ug/kg	1.3	1
1,1-Dichloropropene	ND		ug/kg	6.7	1
Bromoform	ND		ug/kg	5.3	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.3	1
Benzene	ND		ug/kg	1.3	1
Toluene	ND		ug/kg	2.0	1
Ethylbenzene	ND		ug/kg	1.3	1
Chloromethane	ND		ug/kg	6.7	1
Bromomethane	ND		ug/kg	2.7	1
Vinyl chloride	ND		ug/kg	2.7	1
Chloroethane	ND		ug/kg	2.7	1
1,1-Dichloroethene	ND		ug/kg	1.3	1
trans-1,2-Dichloroethene	ND		ug/kg	2.0	1
Trichloroethene	ND		ug/kg	1.3	1
1,2-Dichlorobenzene	ND		ug/kg	6.7	1
1,3-Dichlorobenzene	ND		ug/kg	6.7	1

Project Name: RAYTHEON-WAYLAND

Lab Number: L0812109

Project Number: 0079387

Report Date: 08/21/08

SAMPLE RESULTS

Lab ID: L0812109-02

Date Collected: 08/14/08 09:20

Client ID: IW-4-B-20080814-01

Date Received: 08/15/08

Sample Location: WAYLAND, MA

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B/5035-Soil Analysis					
1,4-Dichlorobenzene	ND		ug/kg	6.7	1
Methyl tert butyl ether	ND		ug/kg	2.7	1
p/m-Xylene	ND		ug/kg	2.7	1
o-Xylene	ND		ug/kg	2.7	1
cis-1,2-Dichloroethene	ND		ug/kg	1.3	1
Dibromomethane	ND		ug/kg	13	1
1,2,3-Trichloropropane	ND		ug/kg	13	1
Styrene	ND		ug/kg	2.7	1
Dichlorodifluoromethane	ND		ug/kg	13	1
Acetone	ND		ug/kg	13	1
Carbon disulfide	ND		ug/kg	67	1
2-Butanone	ND		ug/kg	13	1
4-Methyl-2-pentanone	ND		ug/kg	13	1
2-Hexanone	ND		ug/kg	13	1
Bromochloromethane	ND		ug/kg	6.7	1
Tetrahydrofuran	ND		ug/kg	27	1
2,2-Dichloropropane	ND		ug/kg	6.7	1
1,2-Dibromoethane	ND		ug/kg	5.3	1
1,3-Dichloropropane	ND		ug/kg	6.7	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.3	1
Bromobenzene	ND		ug/kg	6.7	1
n-Butylbenzene	ND		ug/kg	1.3	1
sec-Butylbenzene	ND		ug/kg	1.3	1
tert-Butylbenzene	ND		ug/kg	6.7	1
o-Chlorotoluene	ND		ug/kg	6.7	1
p-Chlorotoluene	ND		ug/kg	6.7	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	6.7	1
Hexachlorobutadiene	ND		ug/kg	6.7	1
Isopropylbenzene	ND		ug/kg	1.3	1
p-Isopropyltoluene	ND		ug/kg	1.3	1
Naphthalene	ND		ug/kg	6.7	1
n-Propylbenzene	ND		ug/kg	1.3	1
1,2,3-Trichlorobenzene	ND		ug/kg	6.7	1
1,2,4-Trichlorobenzene	ND		ug/kg	6.7	1
1,3,5-Trimethylbenzene	ND		ug/kg	6.7	1
1,2,4-Trimethylbenzene	ND		ug/kg	6.7	1
Ethyl ether	ND		ug/kg	6.7	1

Project Name: RAYTHEON-WAYLAND**Lab Number:** L0812109**Project Number:** 0079387**Report Date:** 08/21/08**SAMPLE RESULTS**

Lab ID: L0812109-02

Date Collected: 08/14/08 09:20

Client ID: IW-4-B-20080814-01

Date Received: 08/15/08

Sample Location: WAYLAND, MA

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
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Volatile Organics by MCP 8260B/5035-Soil Analysis

Isopropyl Ether	ND		ug/kg	5.3	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	5.3	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	5.3	1
1,4-Dioxane	ND		ug/kg	670	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	106		70-130
Dibromofluoromethane	105		70-130

Project Name: RAYTHEON-WAYLAND

Lab Number: L0812109

Project Number: 0079387

Report Date: 08/21/08

SAMPLE RESULTS

Lab ID: L0812109-03
 Client ID: IW-5-A-20080814-01
 Sample Location: WAYLAND, MA
 Matrix: Soil
 Analytical Method: 60,8260B
 Analytical Date: 08/18/08 14:41
 Analyst: BN
 Percent Solids: 84%

Date Collected: 08/14/08 14:00
 Date Received: 08/15/08
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B/5035-Soil Analysis					
Methylene chloride	ND		ug/kg	11	1
1,1-Dichloroethane	ND		ug/kg	1.7	1
Chloroform	ND		ug/kg	1.7	1
Carbon tetrachloride	ND		ug/kg	1.1	1
1,2-Dichloropropane	ND		ug/kg	3.9	1
Dibromochloromethane	ND		ug/kg	1.1	1
1,1,2-Trichloroethane	ND		ug/kg	1.7	1
Tetrachloroethene	ND		ug/kg	1.1	1
Chlorobenzene	ND		ug/kg	1.1	1
Trichlorofluoromethane	ND		ug/kg	5.6	1
1,2-Dichloroethane	ND		ug/kg	1.1	1
1,1,1-Trichloroethane	ND		ug/kg	1.1	1
Bromodichloromethane	ND		ug/kg	1.1	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	1
cis-1,3-Dichloropropene	ND		ug/kg	1.1	1
1,1-Dichloropropene	ND		ug/kg	5.6	1
Bromoform	ND		ug/kg	4.5	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.1	1
Benzene	ND		ug/kg	1.1	1
Toluene	ND		ug/kg	1.7	1
Ethylbenzene	ND		ug/kg	1.1	1
Chloromethane	ND		ug/kg	5.6	1
Bromomethane	ND		ug/kg	2.2	1
Vinyl chloride	ND		ug/kg	2.2	1
Chloroethane	ND		ug/kg	2.2	1
1,1-Dichloroethene	ND		ug/kg	1.1	1
trans-1,2-Dichloroethene	ND		ug/kg	1.7	1
Trichloroethene	ND		ug/kg	1.1	1
1,2-Dichlorobenzene	ND		ug/kg	5.6	1
1,3-Dichlorobenzene	ND		ug/kg	5.6	1

Project Name: RAYTHEON-WAYLAND

Lab Number: L0812109

Project Number: 0079387

Report Date: 08/21/08

SAMPLE RESULTS

Lab ID: L0812109-03

Date Collected: 08/14/08 14:00

Client ID: IW-5-A-20080814-01

Date Received: 08/15/08

Sample Location: WAYLAND, MA

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B/5035-Soil Analysis					
1,4-Dichlorobenzene	ND		ug/kg	5.6	1
Methyl tert butyl ether	ND		ug/kg	2.2	1
p/m-Xylene	ND		ug/kg	2.2	1
o-Xylene	ND		ug/kg	2.2	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	1
Dibromomethane	ND		ug/kg	11	1
1,2,3-Trichloropropane	ND		ug/kg	11	1
Styrene	ND		ug/kg	2.2	1
Dichlorodifluoromethane	ND		ug/kg	11	1
Acetone	ND		ug/kg	11	1
Carbon disulfide	ND		ug/kg	56	1
2-Butanone	ND		ug/kg	11	1
4-Methyl-2-pentanone	ND		ug/kg	11	1
2-Hexanone	ND		ug/kg	11	1
Bromochloromethane	ND		ug/kg	5.6	1
Tetrahydrofuran	ND		ug/kg	22	1
2,2-Dichloropropane	ND		ug/kg	5.6	1
1,2-Dibromoethane	ND		ug/kg	4.5	1
1,3-Dichloropropane	ND		ug/kg	5.6	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.1	1
Bromobenzene	ND		ug/kg	5.6	1
n-Butylbenzene	ND		ug/kg	1.1	1
sec-Butylbenzene	ND		ug/kg	1.1	1
tert-Butylbenzene	ND		ug/kg	5.6	1
o-Chlorotoluene	ND		ug/kg	5.6	1
p-Chlorotoluene	ND		ug/kg	5.6	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.6	1
Hexachlorobutadiene	ND		ug/kg	5.6	1
Isopropylbenzene	ND		ug/kg	1.1	1
p-Isopropyltoluene	ND		ug/kg	1.1	1
Naphthalene	ND		ug/kg	5.6	1
n-Propylbenzene	ND		ug/kg	1.1	1
1,2,3-Trichlorobenzene	ND		ug/kg	5.6	1
1,2,4-Trichlorobenzene	ND		ug/kg	5.6	1
1,3,5-Trimethylbenzene	ND		ug/kg	5.6	1
1,2,4-Trimethylbenzene	ND		ug/kg	5.6	1
Ethyl ether	ND		ug/kg	5.6	1

Project Name: RAYTHEON-WAYLAND**Lab Number:** L0812109**Project Number:** 0079387**Report Date:** 08/21/08**SAMPLE RESULTS**

Lab ID: L0812109-03

Date Collected: 08/14/08 14:00

Client ID: IW-5-A-20080814-01

Date Received: 08/15/08

Sample Location: WAYLAND, MA

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B/5035-Soil Analysis					
Isopropyl Ether	ND		ug/kg	4.5	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	4.5	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	4.5	1
1,4-Dioxane	ND		ug/kg	560	1

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

Project Name: RAYTHEON-WAYLAND**Lab Number:** L0812109**Project Number:** 0079387**Report Date:** 08/21/08**SAMPLE RESULTS**

Lab ID: L0812109-04
 Client ID: IW-5-B-20080814-01
 Sample Location: WAYLAND, MA
 Matrix: Soil
 Analytical Method: 60,8260B
 Analytical Date: 08/18/08 15:17
 Analyst: BN
 Percent Solids: 73%

Date Collected: 08/14/08 14:30
 Date Received: 08/15/08
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B/5035-Soil Analysis					
Methylene chloride	ND		ug/kg	12	1
1,1-Dichloroethane	ND		ug/kg	1.8	1
Chloroform	ND		ug/kg	1.8	1
Carbon tetrachloride	ND		ug/kg	1.2	1
1,2-Dichloropropane	ND		ug/kg	4.2	1
Dibromochloromethane	ND		ug/kg	1.2	1
1,1,2-Trichloroethane	ND		ug/kg	1.8	1
Tetrachloroethene	ND		ug/kg	1.2	1
Chlorobenzene	ND		ug/kg	1.2	1
Trichlorofluoromethane	ND		ug/kg	6.0	1
1,2-Dichloroethane	ND		ug/kg	1.2	1
1,1,1-Trichloroethane	ND		ug/kg	1.2	1
Bromodichloromethane	ND		ug/kg	1.2	1
trans-1,3-Dichloropropene	ND		ug/kg	1.2	1
cis-1,3-Dichloropropene	ND		ug/kg	1.2	1
1,1-Dichloropropene	ND		ug/kg	6.0	1
Bromoform	ND		ug/kg	4.8	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.2	1
Benzene	ND		ug/kg	1.2	1
Toluene	ND		ug/kg	1.8	1
Ethylbenzene	ND		ug/kg	1.2	1
Chloromethane	ND		ug/kg	6.0	1
Bromomethane	ND		ug/kg	2.4	1
Vinyl chloride	ND		ug/kg	2.4	1
Chloroethane	ND		ug/kg	2.4	1
1,1-Dichloroethene	ND		ug/kg	1.2	1
trans-1,2-Dichloroethene	ND		ug/kg	1.8	1
Trichloroethene	ND		ug/kg	1.2	1
1,2-Dichlorobenzene	ND		ug/kg	6.0	1
1,3-Dichlorobenzene	ND		ug/kg	6.0	1

Project Name: RAYTHEON-WAYLAND

Lab Number: L0812109

Project Number: 0079387

Report Date: 08/21/08

SAMPLE RESULTS

Lab ID: L0812109-04
 Client ID: IW-5-B-20080814-01
 Sample Location: WAYLAND, MA

Date Collected: 08/14/08 14:30
 Date Received: 08/15/08
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B/5035-Soil Analysis					
1,4-Dichlorobenzene	ND		ug/kg	6.0	1
Methyl tert butyl ether	ND		ug/kg	2.4	1
p/m-Xylene	ND		ug/kg	2.4	1
o-Xylene	ND		ug/kg	2.4	1
cis-1,2-Dichloroethene	ND		ug/kg	1.2	1
Dibromomethane	ND		ug/kg	12	1
1,2,3-Trichloropropane	ND		ug/kg	12	1
Styrene	ND		ug/kg	2.4	1
Dichlorodifluoromethane	ND		ug/kg	12	1
Acetone	ND		ug/kg	12	1
Carbon disulfide	ND		ug/kg	60	1
2-Butanone	ND		ug/kg	12	1
4-Methyl-2-pentanone	ND		ug/kg	12	1
2-Hexanone	ND		ug/kg	12	1
Bromochloromethane	ND		ug/kg	6.0	1
Tetrahydrofuran	ND		ug/kg	24	1
2,2-Dichloropropane	ND		ug/kg	6.0	1
1,2-Dibromoethane	ND		ug/kg	4.8	1
1,3-Dichloropropane	ND		ug/kg	6.0	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.2	1
Bromobenzene	ND		ug/kg	6.0	1
n-Butylbenzene	ND		ug/kg	1.2	1
sec-Butylbenzene	ND		ug/kg	1.2	1
tert-Butylbenzene	ND		ug/kg	6.0	1
o-Chlorotoluene	ND		ug/kg	6.0	1
p-Chlorotoluene	ND		ug/kg	6.0	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	6.0	1
Hexachlorobutadiene	ND		ug/kg	6.0	1
Isopropylbenzene	ND		ug/kg	1.2	1
p-Isopropyltoluene	ND		ug/kg	1.2	1
Naphthalene	ND		ug/kg	6.0	1
n-Propylbenzene	ND		ug/kg	1.2	1
1,2,3-Trichlorobenzene	ND		ug/kg	6.0	1
1,2,4-Trichlorobenzene	ND		ug/kg	6.0	1
1,3,5-Trimethylbenzene	ND		ug/kg	6.0	1
1,2,4-Trimethylbenzene	ND		ug/kg	6.0	1
Ethyl ether	ND		ug/kg	6.0	1

Project Name: RAYTHEON-WAYLAND**Lab Number:** L0812109**Project Number:** 0079387**Report Date:** 08/21/08**SAMPLE RESULTS**

Lab ID: L0812109-04

Date Collected: 08/14/08 14:30

Client ID: IW-5-B-20080814-01

Date Received: 08/15/08

Sample Location: WAYLAND, MA

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B/5035-Soil Analysis					
Isopropyl Ether	ND		ug/kg	4.8	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	4.8	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	4.8	1
1,4-Dioxane	ND		ug/kg	600	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	104		70-130

Project Name: RAYTHEON-WAYLAND**Lab Number:** L0812109**Project Number:** 0079387**Report Date:** 08/21/08**SAMPLE RESULTS**

Lab ID: L0812109-05
 Client ID: MW-560-A20080815-01
 Sample Location: WAYLAND, MA
 Matrix: Soil
 Analytical Method: 60,8260B
 Analytical Date: 08/18/08 15:53
 Analyst: BN
 Percent Solids: 86%

Date Collected: 08/15/08 10:00
 Date Received: 08/15/08
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B/5035-Soil Analysis					
Methylene chloride	ND		ug/kg	11	1
1,1-Dichloroethane	ND		ug/kg	1.7	1
Chloroform	ND		ug/kg	1.7	1
Carbon tetrachloride	ND		ug/kg	1.1	1
1,2-Dichloropropane	ND		ug/kg	3.9	1
Dibromochloromethane	ND		ug/kg	1.1	1
1,1,2-Trichloroethane	ND		ug/kg	1.7	1
Tetrachloroethene	ND		ug/kg	1.1	1
Chlorobenzene	ND		ug/kg	1.1	1
Trichlorofluoromethane	ND		ug/kg	5.6	1
1,2-Dichloroethane	ND		ug/kg	1.1	1
1,1,1-Trichloroethane	ND		ug/kg	1.1	1
Bromodichloromethane	ND		ug/kg	1.1	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	1
cis-1,3-Dichloropropene	ND		ug/kg	1.1	1
1,1-Dichloropropene	ND		ug/kg	5.6	1
Bromoform	ND		ug/kg	4.5	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.1	1
Benzene	ND		ug/kg	1.1	1
Toluene	ND		ug/kg	1.7	1
Ethylbenzene	ND		ug/kg	1.1	1
Chloromethane	ND		ug/kg	5.6	1
Bromomethane	ND		ug/kg	2.2	1
Vinyl chloride	ND		ug/kg	2.2	1
Chloroethane	ND		ug/kg	2.2	1
1,1-Dichloroethene	ND		ug/kg	1.1	1
trans-1,2-Dichloroethene	ND		ug/kg	1.7	1
Trichloroethene	ND		ug/kg	1.1	1
1,2-Dichlorobenzene	ND		ug/kg	5.6	1
1,3-Dichlorobenzene	ND		ug/kg	5.6	1

Project Name: RAYTHEON-WAYLAND

Lab Number: L0812109

Project Number: 0079387

Report Date: 08/21/08

SAMPLE RESULTS

Lab ID: L0812109-05
 Client ID: MW-560-A20080815-01
 Sample Location: WAYLAND, MA

Date Collected: 08/15/08 10:00
 Date Received: 08/15/08
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B/5035-Soil Analysis					
1,4-Dichlorobenzene	ND		ug/kg	5.6	1
Methyl tert butyl ether	ND		ug/kg	2.2	1
p/m-Xylene	ND		ug/kg	2.2	1
o-Xylene	ND		ug/kg	2.2	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	1
Dibromomethane	ND		ug/kg	11	1
1,2,3-Trichloropropane	ND		ug/kg	11	1
Styrene	ND		ug/kg	2.2	1
Dichlorodifluoromethane	ND		ug/kg	11	1
Acetone	17		ug/kg	11	1
Carbon disulfide	ND		ug/kg	56	1
2-Butanone	ND		ug/kg	11	1
4-Methyl-2-pentanone	ND		ug/kg	11	1
2-Hexanone	ND		ug/kg	11	1
Bromochloromethane	ND		ug/kg	5.6	1
Tetrahydrofuran	ND		ug/kg	22	1
2,2-Dichloropropane	ND		ug/kg	5.6	1
1,2-Dibromoethane	ND		ug/kg	4.5	1
1,3-Dichloropropane	ND		ug/kg	5.6	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.1	1
Bromobenzene	ND		ug/kg	5.6	1
n-Butylbenzene	ND		ug/kg	1.1	1
sec-Butylbenzene	ND		ug/kg	1.1	1
tert-Butylbenzene	ND		ug/kg	5.6	1
o-Chlorotoluene	ND		ug/kg	5.6	1
p-Chlorotoluene	ND		ug/kg	5.6	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.6	1
Hexachlorobutadiene	ND		ug/kg	5.6	1
Isopropylbenzene	ND		ug/kg	1.1	1
p-Isopropyltoluene	ND		ug/kg	1.1	1
Naphthalene	ND		ug/kg	5.6	1
n-Propylbenzene	ND		ug/kg	1.1	1
1,2,3-Trichlorobenzene	ND		ug/kg	5.6	1
1,2,4-Trichlorobenzene	ND		ug/kg	5.6	1
1,3,5-Trimethylbenzene	ND		ug/kg	5.6	1
1,2,4-Trimethylbenzene	ND		ug/kg	5.6	1
Ethyl ether	ND		ug/kg	5.6	1

Project Name: RAYTHEON-WAYLAND**Lab Number:** L0812109**Project Number:** 0079387**Report Date:** 08/21/08**SAMPLE RESULTS**

Lab ID: L0812109-05
 Client ID: MW-560-A20080815-01
 Sample Location: WAYLAND, MA

Date Collected: 08/15/08 10:00
 Date Received: 08/15/08
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B/5035-Soil Analysis					
Isopropyl Ether	ND		ug/kg	4.5	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	4.5	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	4.5	1
1,4-Dioxane	ND		ug/kg	560	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	105		70-130

Project Name: RAYTHEON-WAYLAND**Lab Number:** L0812109**Project Number:** 0079387**Report Date:** 08/21/08**SAMPLE RESULTS**

Lab ID: L0812109-06
 Client ID: MW-560-B20080815-01
 Sample Location: WAYLAND, MA
 Matrix: Soil
 Analytical Method: 60,8260B
 Analytical Date: 08/18/08 16:29
 Analyst: BN
 Percent Solids: 71%

Date Collected: 08/15/08 10:30
 Date Received: 08/15/08
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B/5035-Soil Analysis					
Methylene chloride	ND		ug/kg	14	1
1,1-Dichloroethane	ND		ug/kg	2.0	1
Chloroform	ND		ug/kg	2.0	1
Carbon tetrachloride	ND		ug/kg	1.4	1
1,2-Dichloropropane	ND		ug/kg	4.7	1
Dibromochloromethane	ND		ug/kg	1.4	1
1,1,2-Trichloroethane	ND		ug/kg	2.0	1
Tetrachloroethene	ND		ug/kg	1.4	1
Chlorobenzene	ND		ug/kg	1.4	1
Trichlorofluoromethane	ND		ug/kg	6.8	1
1,2-Dichloroethane	ND		ug/kg	1.4	1
1,1,1-Trichloroethane	ND		ug/kg	1.4	1
Bromodichloromethane	ND		ug/kg	1.4	1
trans-1,3-Dichloropropene	ND		ug/kg	1.4	1
cis-1,3-Dichloropropene	ND		ug/kg	1.4	1
1,1-Dichloropropene	ND		ug/kg	6.8	1
Bromoform	ND		ug/kg	5.4	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.4	1
Benzene	ND		ug/kg	1.4	1
Toluene	ND		ug/kg	2.0	1
Ethylbenzene	ND		ug/kg	1.4	1
Chloromethane	ND		ug/kg	6.8	1
Bromomethane	ND		ug/kg	2.7	1
Vinyl chloride	ND		ug/kg	2.7	1
Chloroethane	ND		ug/kg	2.7	1
1,1-Dichloroethene	ND		ug/kg	1.4	1
trans-1,2-Dichloroethene	ND		ug/kg	2.0	1
Trichloroethene	ND		ug/kg	1.4	1
1,2-Dichlorobenzene	ND		ug/kg	6.8	1
1,3-Dichlorobenzene	ND		ug/kg	6.8	1

Project Name: RAYTHEON-WAYLAND

Lab Number: L0812109

Project Number: 0079387

Report Date: 08/21/08

SAMPLE RESULTS

Lab ID: L0812109-06
 Client ID: MW-560-B20080815-01
 Sample Location: WAYLAND, MA

Date Collected: 08/15/08 10:30
 Date Received: 08/15/08
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B/5035-Soil Analysis					
1,4-Dichlorobenzene	ND		ug/kg	6.8	1
Methyl tert butyl ether	ND		ug/kg	2.7	1
p/m-Xylene	ND		ug/kg	2.7	1
o-Xylene	ND		ug/kg	2.7	1
cis-1,2-Dichloroethene	ND		ug/kg	1.4	1
Dibromomethane	ND		ug/kg	14	1
1,2,3-Trichloropropane	ND		ug/kg	14	1
Styrene	ND		ug/kg	2.7	1
Dichlorodifluoromethane	ND		ug/kg	14	1
Acetone	ND		ug/kg	14	1
Carbon disulfide	ND		ug/kg	68	1
2-Butanone	ND		ug/kg	14	1
4-Methyl-2-pentanone	ND		ug/kg	14	1
2-Hexanone	ND		ug/kg	14	1
Bromochloromethane	ND		ug/kg	6.8	1
Tetrahydrofuran	ND		ug/kg	27	1
2,2-Dichloropropane	ND		ug/kg	6.8	1
1,2-Dibromoethane	ND		ug/kg	5.4	1
1,3-Dichloropropane	ND		ug/kg	6.8	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.4	1
Bromobenzene	ND		ug/kg	6.8	1
n-Butylbenzene	ND		ug/kg	1.4	1
sec-Butylbenzene	ND		ug/kg	1.4	1
tert-Butylbenzene	ND		ug/kg	6.8	1
o-Chlorotoluene	ND		ug/kg	6.8	1
p-Chlorotoluene	ND		ug/kg	6.8	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	6.8	1
Hexachlorobutadiene	ND		ug/kg	6.8	1
Isopropylbenzene	ND		ug/kg	1.4	1
p-Isopropyltoluene	ND		ug/kg	1.4	1
Naphthalene	ND		ug/kg	6.8	1
n-Propylbenzene	ND		ug/kg	1.4	1
1,2,3-Trichlorobenzene	ND		ug/kg	6.8	1
1,2,4-Trichlorobenzene	ND		ug/kg	6.8	1
1,3,5-Trimethylbenzene	ND		ug/kg	6.8	1
1,2,4-Trimethylbenzene	ND		ug/kg	6.8	1
Ethyl ether	ND		ug/kg	6.8	1

Project Name: RAYTHEON-WAYLAND**Lab Number:** L0812109**Project Number:** 0079387**Report Date:** 08/21/08**SAMPLE RESULTS**

Lab ID: L0812109-06

Date Collected: 08/15/08 10:30

Client ID: MW-560-B20080815-01

Date Received: 08/15/08

Sample Location: WAYLAND, MA

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B/5035-Soil Analysis					
Isopropyl Ether	ND		ug/kg	5.4	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	5.4	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	5.4	1
1,4-Dioxane	ND		ug/kg	680	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	106		70-130

Project Name: RAYTHEON-WAYLAND**Lab Number:** L0812109**Project Number:** 0079387**Report Date:** 08/21/08**SAMPLE RESULTS**

Lab ID:	L0812109-08	Date Collected:	08/15/08 09:00
Client ID:	TB-02-20080815-01	Date Received:	08/15/08
Sample Location:	WAYLAND, MA	Field Prep:	Not Specified
Matrix:	Soil		
Analytical Method:	60,8260B		
Analytical Date:	08/19/08 10:10		
Analyst:	BN		
Percent Solids:	Results are reported on an 'AS RECEIVED' basis.		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B/5035-Soil Analysis					
Methylene chloride	ND		ug/kg	500	1
1,1-Dichloroethane	ND		ug/kg	75	1
Chloroform	ND		ug/kg	75	1
Carbon tetrachloride	ND		ug/kg	50	1
1,2-Dichloropropane	ND		ug/kg	180	1
Dibromochloromethane	ND		ug/kg	50	1
1,1,2-Trichloroethane	ND		ug/kg	75	1
Tetrachloroethene	ND		ug/kg	50	1
Chlorobenzene	ND		ug/kg	50	1
Trichlorofluoromethane	ND		ug/kg	250	1
1,2-Dichloroethane	ND		ug/kg	50	1
1,1,1-Trichloroethane	ND		ug/kg	50	1
Bromodichloromethane	ND		ug/kg	50	1
trans-1,3-Dichloropropene	ND		ug/kg	50	1
cis-1,3-Dichloropropene	ND		ug/kg	50	1
1,1-Dichloropropene	ND		ug/kg	250	1
Bromoform	ND		ug/kg	200	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	50	1
Benzene	ND		ug/kg	50	1
Toluene	ND		ug/kg	75	1
Ethylbenzene	ND		ug/kg	50	1
Chloromethane	ND		ug/kg	250	1
Bromomethane	ND		ug/kg	100	1
Vinyl chloride	ND		ug/kg	100	1
Chloroethane	ND		ug/kg	100	1
1,1-Dichloroethene	ND		ug/kg	50	1
trans-1,2-Dichloroethene	ND		ug/kg	75	1
Trichloroethene	ND		ug/kg	50	1
1,2-Dichlorobenzene	ND		ug/kg	250	1
1,3-Dichlorobenzene	ND		ug/kg	250	1

Project Name: RAYTHEON-WAYLAND

Lab Number: L0812109

Project Number: 0079387

Report Date: 08/21/08

SAMPLE RESULTS

Lab ID: L0812109-08

Date Collected: 08/15/08 09:00

Client ID: TB-02-20080815-01

Date Received: 08/15/08

Sample Location: WAYLAND, MA

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B/5035-Soil Analysis					
1,4-Dichlorobenzene	ND		ug/kg	250	1
Methyl tert butyl ether	ND		ug/kg	100	1
p/m-Xylene	ND		ug/kg	100	1
o-Xylene	ND		ug/kg	100	1
cis-1,2-Dichloroethene	ND		ug/kg	50	1
Dibromomethane	ND		ug/kg	500	1
1,2,3-Trichloropropane	ND		ug/kg	500	1
Styrene	ND		ug/kg	100	1
Dichlorodifluoromethane	ND		ug/kg	500	1
Acetone	ND		ug/kg	500	1
Carbon disulfide	ND		ug/kg	2500	1
2-Butanone	ND		ug/kg	500	1
4-Methyl-2-pentanone	ND		ug/kg	500	1
2-Hexanone	ND		ug/kg	500	1
Bromochloromethane	ND		ug/kg	250	1
Tetrahydrofuran	ND		ug/kg	1000	1
2,2-Dichloropropane	ND		ug/kg	250	1
1,2-Dibromoethane	ND		ug/kg	200	1
1,3-Dichloropropane	ND		ug/kg	250	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	50	1
Bromobenzene	ND		ug/kg	250	1
n-Butylbenzene	ND		ug/kg	50	1
sec-Butylbenzene	ND		ug/kg	50	1
tert-Butylbenzene	ND		ug/kg	250	1
o-Chlorotoluene	ND		ug/kg	250	1
p-Chlorotoluene	ND		ug/kg	250	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	250	1
Hexachlorobutadiene	ND		ug/kg	250	1
Isopropylbenzene	ND		ug/kg	50	1
p-Isopropyltoluene	ND		ug/kg	50	1
Naphthalene	ND		ug/kg	250	1
n-Propylbenzene	ND		ug/kg	50	1
1,2,3-Trichlorobenzene	ND		ug/kg	250	1
1,2,4-Trichlorobenzene	ND		ug/kg	250	1
1,3,5-Trimethylbenzene	ND		ug/kg	250	1
1,2,4-Trimethylbenzene	ND		ug/kg	250	1
Ethyl ether	ND		ug/kg	250	1

Project Name: RAYTHEON-WAYLAND**Lab Number:** L0812109**Project Number:** 0079387**Report Date:** 08/21/08**SAMPLE RESULTS**

Lab ID: L0812109-08

Date Collected: 08/15/08 09:00

Client ID: TB-02-20080815-01

Date Received: 08/15/08

Sample Location: WAYLAND, MA

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B/5035-Soil Analysis					
Isopropyl Ether	ND		ug/kg	200	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	200	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	200	1
1,4-Dioxane	ND		ug/kg	25000	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	105		70-130

Project Name: RAYTHEON-WAYLAND
Project Number: 0079387

Lab Number: L0812109
Report Date: 08/21/08

Method Blank Analysis
Batch Quality Control

Analytical Method: 60,8260B
Analytical Date: 08/18/08 10:29
Analyst: BN

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by MCP 8260B/5035-Soil Analysis for sample(s): 01-06 Batch: WG332873-6				
Methylene chloride	ND		ug/kg	10
1,1-Dichloroethane	ND		ug/kg	1.5
Chloroform	ND		ug/kg	1.5
Carbon tetrachloride	ND		ug/kg	1.0
1,2-Dichloropropane	ND		ug/kg	3.5
Dibromochloromethane	ND		ug/kg	1.0
1,1,2-Trichloroethane	ND		ug/kg	1.5
Tetrachloroethene	ND		ug/kg	1.0
Chlorobenzene	ND		ug/kg	1.0
Trichlorofluoromethane	ND		ug/kg	5.0
1,2-Dichloroethane	ND		ug/kg	1.0
1,1,1-Trichloroethane	ND		ug/kg	1.0
Bromodichloromethane	ND		ug/kg	1.0
trans-1,3-Dichloropropene	ND		ug/kg	1.0
cis-1,3-Dichloropropene	ND		ug/kg	1.0
1,1-Dichloropropene	ND		ug/kg	5.0
Bromoform	ND		ug/kg	4.0
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.0
Benzene	ND		ug/kg	1.0
Toluene	ND		ug/kg	1.5
Ethylbenzene	ND		ug/kg	1.0
Chloromethane	ND		ug/kg	5.0
Bromomethane	ND		ug/kg	2.0
Vinyl chloride	ND		ug/kg	2.0
Chloroethane	ND		ug/kg	2.0
1,1-Dichloroethene	ND		ug/kg	1.0
trans-1,2-Dichloroethene	ND		ug/kg	1.5
Trichloroethene	ND		ug/kg	1.0
1,2-Dichlorobenzene	ND		ug/kg	5.0
1,3-Dichlorobenzene	ND		ug/kg	5.0
1,4-Dichlorobenzene	ND		ug/kg	5.0

Project Name: RAYTHEON-WAYLAND
Project Number: 0079387

Lab Number: L0812109
Report Date: 08/21/08

Method Blank Analysis
Batch Quality Control

Analytical Method: 60,8260B
Analytical Date: 08/18/08 10:29
Analyst: BN

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by MCP 8260B/5035-Soil Analysis for sample(s): 01-06 Batch: WG332873-6				
Methyl tert butyl ether	ND		ug/kg	2.0
p/m-Xylene	ND		ug/kg	2.0
o-Xylene	ND		ug/kg	2.0
cis-1,2-Dichloroethene	ND		ug/kg	1.0
Dibromomethane	ND		ug/kg	10
1,2,3-Trichloropropane	ND		ug/kg	10
Styrene	ND		ug/kg	2.0
Dichlorodifluoromethane	ND		ug/kg	10
Acetone	ND		ug/kg	10
Carbon disulfide	ND		ug/kg	50
2-Butanone	ND		ug/kg	10
4-Methyl-2-pentanone	ND		ug/kg	10
2-Hexanone	ND		ug/kg	10
Bromochloromethane	ND		ug/kg	5.0
Tetrahydrofuran	ND		ug/kg	20
2,2-Dichloropropane	ND		ug/kg	5.0
1,2-Dibromoethane	ND		ug/kg	4.0
1,3-Dichloropropane	ND		ug/kg	5.0
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.0
Bromobenzene	ND		ug/kg	5.0
n-Butylbenzene	ND		ug/kg	1.0
sec-Butylbenzene	ND		ug/kg	1.0
tert-Butylbenzene	ND		ug/kg	5.0
o-Chlorotoluene	ND		ug/kg	5.0
p-Chlorotoluene	ND		ug/kg	5.0
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.0
Hexachlorobutadiene	ND		ug/kg	5.0
Isopropylbenzene	ND		ug/kg	1.0
p-Isopropyltoluene	ND		ug/kg	1.0
Naphthalene	ND		ug/kg	5.0
n-Propylbenzene	ND		ug/kg	1.0

Project Name: RAYTHEON-WAYLAND
Project Number: 0079387

Lab Number: L0812109
Report Date: 08/21/08

Method Blank Analysis
Batch Quality Control

Analytical Method: 60,8260B
Analytical Date: 08/18/08 10:29
Analyst: BN

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by MCP 8260B/5035-Soil Analysis for sample(s): 01-06 Batch: WG332873-6				
1,2,3-Trichlorobenzene	ND		ug/kg	5.0
1,2,4-Trichlorobenzene	ND		ug/kg	5.0
1,3,5-Trimethylbenzene	ND		ug/kg	5.0
1,2,4-Trimethylbenzene	ND		ug/kg	5.0
Ethyl ether	ND		ug/kg	5.0
Isopropyl Ether	ND		ug/kg	4.0
Ethyl-Tert-Butyl-Ether	ND		ug/kg	4.0
Tertiary-Amyl Methyl Ether	ND		ug/kg	4.0
1,4-Dioxane	ND		ug/kg	500

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	106		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	107		70-130

Project Name: RAYTHEON-WAYLAND
Project Number: 0079387

Lab Number: L0812109
Report Date: 08/21/08

Method Blank Analysis
Batch Quality Control

Analytical Method: 60,8260B
Analytical Date: 08/19/08 08:58
Analyst: BN

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by MCP 8260B/5035-Soil Analysis for sample(s): 08 Batch: WG333051-6				
Methylene chloride	ND		ug/kg	500
1,1-Dichloroethane	ND		ug/kg	75
Chloroform	ND		ug/kg	75
Carbon tetrachloride	ND		ug/kg	50
1,2-Dichloropropane	ND		ug/kg	180
Dibromochloromethane	ND		ug/kg	50
1,1,2-Trichloroethane	ND		ug/kg	75
Tetrachloroethene	ND		ug/kg	50
Chlorobenzene	ND		ug/kg	50
Trichlorofluoromethane	ND		ug/kg	250
1,2-Dichloroethane	ND		ug/kg	50
1,1,1-Trichloroethane	ND		ug/kg	50
Bromodichloromethane	ND		ug/kg	50
trans-1,3-Dichloropropene	ND		ug/kg	50
cis-1,3-Dichloropropene	ND		ug/kg	50
1,1-Dichloropropene	ND		ug/kg	250
Bromoform	ND		ug/kg	200
1,1,2,2-Tetrachloroethane	ND		ug/kg	50
Benzene	ND		ug/kg	50
Toluene	ND		ug/kg	75
Ethylbenzene	ND		ug/kg	50
Chloromethane	ND		ug/kg	250
Bromomethane	ND		ug/kg	100
Vinyl chloride	ND		ug/kg	100
Chloroethane	ND		ug/kg	100
1,1-Dichloroethene	ND		ug/kg	50
trans-1,2-Dichloroethene	ND		ug/kg	75
Trichloroethene	ND		ug/kg	50
1,2-Dichlorobenzene	ND		ug/kg	250
1,3-Dichlorobenzene	ND		ug/kg	250
1,4-Dichlorobenzene	ND		ug/kg	250

Project Name: RAYTHEON-WAYLAND
Project Number: 0079387

Lab Number: L0812109
Report Date: 08/21/08

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 60,8260B
Analytical Date: 08/19/08 08:58
Analyst: BN

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by MCP 8260B/5035-Soil Analysis for sample(s): 08 Batch: WG333051-6				
Methyl tert butyl ether	ND		ug/kg	100
p/m-Xylene	ND		ug/kg	100
o-Xylene	ND		ug/kg	100
cis-1,2-Dichloroethene	ND		ug/kg	50
Dibromomethane	ND		ug/kg	500
1,2,3-Trichloropropane	ND		ug/kg	500
Styrene	ND		ug/kg	100
Dichlorodifluoromethane	ND		ug/kg	500
Acetone	ND		ug/kg	500
Carbon disulfide	ND		ug/kg	2500
2-Butanone	ND		ug/kg	500
4-Methyl-2-pentanone	ND		ug/kg	500
2-Hexanone	ND		ug/kg	500
Bromochloromethane	ND		ug/kg	250
Tetrahydrofuran	ND		ug/kg	1000
2,2-Dichloropropane	ND		ug/kg	250
1,2-Dibromoethane	ND		ug/kg	200
1,3-Dichloropropane	ND		ug/kg	250
1,1,1,2-Tetrachloroethane	ND		ug/kg	50
Bromobenzene	ND		ug/kg	250
n-Butylbenzene	ND		ug/kg	50
sec-Butylbenzene	ND		ug/kg	50
tert-Butylbenzene	ND		ug/kg	250
o-Chlorotoluene	ND		ug/kg	250
p-Chlorotoluene	ND		ug/kg	250
1,2-Dibromo-3-chloropropane	ND		ug/kg	250
Hexachlorobutadiene	ND		ug/kg	250
Isopropylbenzene	ND		ug/kg	50
p-Isopropyltoluene	ND		ug/kg	50
Naphthalene	ND		ug/kg	250
n-Propylbenzene	ND		ug/kg	50

Project Name: RAYTHEON-WAYLAND
Project Number: 0079387

Lab Number: L0812109
Report Date: 08/21/08

Method Blank Analysis
Batch Quality Control

Analytical Method: 60,8260B
Analytical Date: 08/19/08 08:58
Analyst: BN

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by MCP 8260B/5035-Soil Analysis for sample(s): 08 Batch: WG333051-6				
1,2,3-Trichlorobenzene	ND		ug/kg	250
1,2,4-Trichlorobenzene	ND		ug/kg	250
1,3,5-Trimethylbenzene	ND		ug/kg	250
1,2,4-Trimethylbenzene	ND		ug/kg	250
Ethyl ether	ND		ug/kg	250
Isopropyl Ether	ND		ug/kg	200
Ethyl-Tert-Butyl-Ether	ND		ug/kg	200
Tertiary-Amyl Methyl Ether	ND		ug/kg	200
1,4-Dioxane	ND		ug/kg	25000

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	106		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	107		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: RAYTHEON-WAYLAND

Lab Number: L0812109

Project Number: 0079387

Report Date: 08/21/08

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B/5035-Soil Analysis Associated sample(s): 01-06 Batch: WG332873-4 WG332873-5					
Methylene chloride	100	96	70-130	4	25
1,1-Dichloroethane	103	97	70-130	6	25
Chloroform	100	98	70-130	2	25
Carbon tetrachloride	100	94	70-130	6	25
1,2-Dichloropropane	100	98	70-130	2	25
Dibromochloromethane	101	101	70-130	0	25
1,1,2-Trichloroethane	99	98	70-130	1	25
Tetrachloroethene	100	96	70-130	4	25
Chlorobenzene	99	97	70-130	2	25
Trichlorofluoromethane	99	92	70-130	7	25
1,2-Dichloroethane	97	96	70-130	1	25
1,1,1-Trichloroethane	98	94	70-130	4	25
Bromodichloromethane	98	96	70-130	2	25
trans-1,3-Dichloropropene	101	103	70-130	2	25
cis-1,3-Dichloropropene	102	101	70-130	1	25
1,1-Dichloropropene	99	96	70-130	3	25
Bromoform	92	96	70-130	4	50
1,1,2,2-Tetrachloroethane	99	106	70-130	7	25
Benzene	101	97	70-130	4	25
Toluene	100	97	70-130	3	25
Ethylbenzene	101	98	70-130	3	25

Lab Control Sample Analysis

Batch Quality Control

Project Name: RAYTHEON-WAYLAND

Lab Number: L0812109

Project Number: 0079387

Report Date: 08/21/08

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B/5035-Soil Analysis Associated sample(s): 01-06 Batch: WG332873-4 WG332873-5					
Chloromethane	90	87	70-130	3	50
Bromomethane	94	92	70-130	2	50
Vinyl chloride	94	89	70-130	5	25
Chloroethane	100	95	70-130	5	25
1,1-Dichloroethene	97	90	70-130	7	25
trans-1,2-Dichloroethene	103	96	70-130	7	25
Trichloroethene	101	96	70-130	5	25
1,2-Dichlorobenzene	101	98	70-130	3	25
1,3-Dichlorobenzene	100	98	70-130	2	25
1,4-Dichlorobenzene	101	98	70-130	3	25
Methyl tert butyl ether	93	96	70-130	3	25
p/m-Xylene	102	99	70-130	3	25
o-Xylene	103	101	70-130	2	25
cis-1,2-Dichloroethene	99	96	70-130	3	25
Dibromomethane	94	94	70-130	0	25
1,2,3-Trichloropropane	110	114	70-130	4	25
Styrene	104	102	70-130	2	25
Dichlorodifluoromethane	77	71	70-130	8	50
Acetone	104	104	70-130	0	50
Carbon disulfide	83	79	70-130	5	25
2-Butanone	103	113	70-130	9	50

Lab Control Sample Analysis

Batch Quality Control

Project Name: RAYTHEON-WAYLAND

Lab Number: L0812109

Project Number: 0079387

Report Date: 08/21/08

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B/5035-Soil Analysis Associated sample(s): 01-06 Batch: WG332873-4 WG332873-5					
4-Methyl-2-pentanone	110	115	70-130	4	50
2-Hexanone	104	116	70-130	11	50
Bromochloromethane	98	95	70-130	3	25
Tetrahydrofuran	97	101	70-130	4	25
2,2-Dichloropropane	103	103	70-130	0	50
1,2-Dibromoethane	98	100	70-130	2	25
1,3-Dichloropropane	97	101	70-130	4	25
1,1,1,2-Tetrachloroethane	103	98	70-130	5	25
Bromobenzene	98	98	70-130	0	25
n-Butylbenzene	103	101	70-130	2	25
sec-Butylbenzene	104	99	70-130	5	25
tert-Butylbenzene	100	97	70-130	3	25
o-Chlorotoluene	101	100	70-130	1	25
p-Chlorotoluene	102	101	70-130	1	25
1,2-Dibromo-3-chloropropane	100	103	70-130	3	50
Hexachlorobutadiene	99	93	70-130	6	25
Isopropylbenzene	122	119	70-130	2	25
p-Isopropyltoluene	106	103	70-130	3	25
Naphthalene	99	105	70-130	6	25
n-Propylbenzene	104	100	70-130	4	25
1,2,3-Trichlorobenzene	102	103	70-130	1	25

Lab Control Sample Analysis

Batch Quality Control

Project Name: RAYTHEON-WAYLAND

Lab Number: L0812109

Project Number: 0079387

Report Date: 08/21/08

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B/5035-Soil Analysis Associated sample(s): 01-06 Batch: WG332873-4 WG332873-5					
1,2,4-Trichlorobenzene	103	102	70-130	1	25
1,3,5-Trimethylbenzene	104	100	70-130	4	25
1,2,4-Trimethylbenzene	102	101	70-130	1	25
Ethyl ether	83	82	70-130	1	25
Isopropyl Ether	93	94	70-130	1	25
Ethyl-Tert-Butyl-Ether	100	100	70-130	0	25
Tertiary-Amyl Methyl Ether	98	98	70-130	0	25
1,4-Dioxane	95	98	70-130	3	50

Surrogate	LCS %Recovery	Qualifier	LCSD %Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		102		70-130
Toluene-d8	101		103		70-130
4-Bromofluorobenzene	102		104		70-130
Dibromofluoromethane	101		98		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: RAYTHEON-WAYLAND

Lab Number: L0812109

Project Number: 0079387

Report Date: 08/21/08

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B/5035-Soil Analysis Associated sample(s): 08 Batch: WG333051-4 WG333051-5					
Methylene chloride	95	87	70-130	9	25
1,1-Dichloroethane	94	93	70-130	1	25
Chloroform	94	94	70-130	0	25
Carbon tetrachloride	88	85	70-130	3	25
1,2-Dichloropropane	96	96	70-130	0	25
Dibromochloromethane	94	94	70-130	0	25
1,1,2-Trichloroethane	93	92	70-130	1	25
Tetrachloroethene	88	84	70-130	5	25
Chlorobenzene	91	90	70-130	1	25
Trichlorofluoromethane	90	88	70-130	2	25
1,2-Dichloroethane	93	94	70-130	1	25
1,1,1-Trichloroethane	90	87	70-130	3	25
Bromodichloromethane	94	94	70-130	0	25
trans-1,3-Dichloropropene	94	96	70-130	2	25
cis-1,3-Dichloropropene	96	100	70-130	4	25
1,1-Dichloropropene	88	91	70-130	3	25
Bromoform	89	91	70-130	2	50
1,1,2,2-Tetrachloroethane	97	101	70-130	4	25
Benzene	94	93	70-130	1	25
Toluene	90	88	70-130	2	25
Ethylbenzene	92	89	70-130	3	25

Lab Control Sample Analysis

Batch Quality Control

Project Name: RAYTHEON-WAYLAND

Lab Number: L0812109

Project Number: 0079387

Report Date: 08/21/08

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B/5035-Soil Analysis Associated sample(s): 08 Batch: WG333051-4 WG333051-5					
Chloromethane	81	82	70-130	1	50
Bromomethane	94	85	70-130	10	50
Vinyl chloride	84	84	70-130	0	25
Chloroethane	89	85	70-130	5	25
1,1-Dichloroethene	87	87	70-130	0	25
trans-1,2-Dichloroethene	93	93	70-130	0	25
Trichloroethene	91	90	70-130	1	25
1,2-Dichlorobenzene	95	94	70-130	1	25
1,3-Dichlorobenzene	94	93	70-130	1	25
1,4-Dichlorobenzene	95	93	70-130	2	25
Methyl tert butyl ether	84	88	70-130	5	25
p/m-Xylene	92	90	70-130	2	25
o-Xylene	91	88	70-130	3	25
cis-1,2-Dichloroethene	94	93	70-130	1	25
Dibromomethane	95	99	70-130	4	25
1,2,3-Trichloropropane	107	111	70-130	4	25
Styrene	92	90	70-130	2	25
Dichlorodifluoromethane	73	70	70-130	4	50
Acetone	102	104	70-130	2	50
Carbon disulfide	72	70	70-130	3	25
2-Butanone	97	112	70-130	14	50

Lab Control Sample Analysis

Batch Quality Control

Project Name: RAYTHEON-WAYLAND

Lab Number: L0812109

Project Number: 0079387

Report Date: 08/21/08

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B/5035-Soil Analysis Associated sample(s): 08 Batch: WG333051-4 WG333051-5					
4-Methyl-2-pentanone	105	110	70-130	5	50
2-Hexanone	95	105	70-130	10	50
Bromochloromethane	98	96	70-130	2	25
Tetrahydrofuran	86	92	70-130	7	25
2,2-Dichloropropane	93	91	70-130	2	50
1,2-Dibromoethane	94	98	70-130	4	25
1,3-Dichloropropane	91	94	70-130	3	25
1,1,1,2-Tetrachloroethane	90	93	70-130	3	25
Bromobenzene	94	93	70-130	1	25
n-Butylbenzene	94	91	70-130	3	25
sec-Butylbenzene	94	90	70-130	4	25
tert-Butylbenzene	92	90	70-130	2	25
o-Chlorotoluene	93	91	70-130	2	25
p-Chlorotoluene	96	91	70-130	5	25
1,2-Dibromo-3-chloropropane	95	96	70-130	1	50
Hexachlorobutadiene	89	85	70-130	5	25
Isopropylbenzene	112	109	70-130	3	25
p-Isopropyltoluene	98	94	70-130	4	25
Naphthalene	95	95	70-130	0	25
n-Propylbenzene	95	90	70-130	5	25
1,2,3-Trichlorobenzene	98	98	70-130	0	25

Lab Control Sample Analysis

Batch Quality Control

Project Name: RAYTHEON-WAYLAND

Lab Number: L0812109

Project Number: 0079387

Report Date: 08/21/08

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B/5035-Soil Analysis Associated sample(s): 08 Batch: WG333051-4 WG333051-5					
1,2,4-Trichlorobenzene	99	95	70-130	4	25
1,3,5-Trimethylbenzene	95	91	70-130	4	25
1,2,4-Trimethylbenzene	95	92	70-130	3	25
Ethyl ether	71	74	70-130	4	25
Isopropyl Ether	81	83	70-130	2	25
Ethyl-Tert-Butyl-Ether	88	92	70-130	4	25
Tertiary-Amyl Methyl Ether	88	91	70-130	3	25
1,4-Dioxane	103	111	70-130	7	50

Surrogate	LCS %Recovery	Qualifier	LCSD %Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		106		70-130
Toluene-d8	100		103		70-130
4-Bromofluorobenzene	101		94		70-130
Dibromofluoromethane	102		107		70-130

INORGANICS & MISCELLANEOUS

Project Name: RAYTHEON-WAYLAND
Project Number: 0079387

Lab Number: L0812109
Report Date: 08/21/08

SAMPLE RESULTS

Lab ID: L0812109-01
Client ID: IW-4-A-20080814-01
Sample Location: WAYLAND, MA
Matrix: Soil

Date Collected: 08/14/08 09:00
Date Received: 08/15/08
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry									
Solids, Total	82		%	0.10	1	-	08/18/08 17:10	30,2540G	SD



Project Name: RAYTHEON-WAYLAND**Lab Number:** L0812109**Project Number:** 0079387**Report Date:** 08/21/08**SAMPLE RESULTS**

Lab ID: L0812109-02
Client ID: IW-4-B-20080814-01
Sample Location: WAYLAND, MA
Matrix: Soil

Date Collected: 08/14/08 09:20
Date Received: 08/15/08
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry									
Solids, Total	72		%	0.10	1	-	08/18/08 17:10	30,2540G	SD



Project Name: RAYTHEON-WAYLAND
Project Number: 0079387

Lab Number: L0812109
Report Date: 08/21/08

SAMPLE RESULTS

Lab ID: L0812109-03
Client ID: IW-5-A-20080814-01
Sample Location: WAYLAND, MA
Matrix: Soil

Date Collected: 08/14/08 14:00
Date Received: 08/15/08
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry									
Solids, Total	84		%	0.10	1	-	08/18/08 17:10	30,2540G	SD



Project Name: RAYTHEON-WAYLAND**Lab Number:** L0812109**Project Number:** 0079387**Report Date:** 08/21/08**SAMPLE RESULTS**

Lab ID: L0812109-04
Client ID: IW-5-B-20080814-01
Sample Location: WAYLAND, MA
Matrix: Soil

Date Collected: 08/14/08 14:30
Date Received: 08/15/08
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry									
Solids, Total	73		%	0.10	1	-	08/18/08 17:10	30,2540G	SD



Project Name: RAYTHEON-WAYLAND
Project Number: 0079387

Lab Number: L0812109
Report Date: 08/21/08

SAMPLE RESULTS

Lab ID: L0812109-05
Client ID: MW-560-A20080815-01
Sample Location: WAYLAND, MA
Matrix: Soil

Date Collected: 08/15/08 10:00
Date Received: 08/15/08
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry									
Solids, Total	86		%	0.10	1	-	08/18/08 17:10	30,2540G	SD



Project Name: RAYTHEON-WAYLAND
Project Number: 0079387

Lab Number: L0812109
Report Date: 08/21/08

SAMPLE RESULTS

Lab ID: L0812109-06
Client ID: MW-560-B20080815-01
Sample Location: WAYLAND, MA
Matrix: Soil

Date Collected: 08/15/08 10:30
Date Received: 08/15/08
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry									
Solids, Total	71		%	0.10	1	-	08/18/08 17:10	30,2540G	SD



Lab Duplicate Analysis
Batch Quality Control

Project Name: RAYTHEON-WAYLAND

Project Number: 0079387

Lab Number: L0812109

Report Date: 08/21/08

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Associated sample(s): 01-06 QC Batch ID: WG333008-1 QC Sample: L0812103-01 Client ID: DUP Sample					
Solids, Total	74	75	%	1	20

Project Name: RAYTHEON-WAYLAND

Lab Number: L0812109

Project Number: 0079387

Report Date: 08/21/08

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp	Pres	Seal	Analysis
L0812109-01A	Vial MeOH preserved	A	N/A	3.5 c	Y	Absent	MCP-8260HLW(14)
L0812109-01B	Vial water preserved	A	N/A	3.5 c	Y	Absent	MCP-8260HLW(14)
L0812109-01C	Vial water preserved	A	N/A	3.5 c	Y	Absent	MCP-8260HLW(14)
L0812109-01D	Plastic 2oz unpreserved for TS	A	N/A	3.5 c	Y	Absent	TS(7)
L0812109-02A	Vial MeOH preserved	A	N/A	3.5 c	Y	Absent	MCP-8260HLW(14)
L0812109-02B	Vial water preserved	A	N/A	3.5 c	Y	Absent	MCP-8260HLW(14)
L0812109-02C	Vial water preserved	A	N/A	3.5 c	Y	Absent	MCP-8260HLW(14)
L0812109-02D	Plastic 2oz unpreserved for TS	A	N/A	3.5 c	Y	Absent	TS(7)
L0812109-03A	Vial MeOH preserved	A	N/A	3.5 c	Y	Absent	MCP-8260HLW(14)
L0812109-03B	Vial water preserved	A	N/A	3.5 c	Y	Absent	MCP-8260HLW(14)
L0812109-03C	Vial water preserved	A	N/A	3.5 c	Y	Absent	MCP-8260HLW(14)
L0812109-03D	Plastic 2oz unpreserved for TS	A	N/A	3.5 c	Y	Absent	TS(7)
L0812109-04A	Vial MeOH preserved	A	N/A	3.5 c	Y	Absent	MCP-8260HLW(14)
L0812109-04B	Vial water preserved	A	N/A	3.5 c	Y	Absent	MCP-8260HLW(14)
L0812109-04C	Vial water preserved	A	N/A	3.5 c	Y	Absent	MCP-8260HLW(14)
L0812109-04D	Plastic 2oz unpreserved for TS	A	N/A	3.5 c	Y	Absent	TS(7)
L0812109-05A	Vial MeOH preserved	A	N/A	3.5 c	Y	Absent	MCP-8260HLW(14)
L0812109-05B	Vial water preserved	A	N/A	3.5 c	Y	Absent	MCP-8260HLW(14)
L0812109-05C	Vial water preserved	A	N/A	3.5 c	Y	Absent	MCP-8260HLW(14)
L0812109-05D	Plastic 2oz unpreserved for TS	A	N/A	3.5 c	Y	Absent	TS(7)
L0812109-06A	Vial MeOH preserved	A	N/A	3.5 c	Y	Absent	MCP-8260HLW(14)
L0812109-06B	Vial water preserved	A	N/A	3.5 c	Y	Absent	MCP-8260HLW(14)
L0812109-06C	Vial water preserved	A	N/A	3.5 c	Y	Absent	MCP-8260HLW(14)
L0812109-06D	Plastic 2oz unpreserved for TS	A	N/A	3.5 c	Y	Absent	TS(7)
L0812109-07A	Vial MeOH preserved	A	N/A	3.5 c	Y	Absent	HOLD(14)
L0812109-08A	Vial MeOH preserved	A	N/A	3.5 c	Y	Absent	MCP-8260HLW(14)

*Hold days indicated by values in parentheses



Project Name: RAYTHEON-WAYLAND
Project Number: 0079387

Lab Number: L0812109
Report Date: 08/21/08

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.

Project Name: RAYTHEON-WAYLAND
Project Number: 0079387

Lab Number: L0812109
Report Date: 08/21/08

REFERENCES

- 30 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.
- 60 Quality Assurance and Quality Control Requirements and Performance Standards for SW-846 Methods. MADEP BWSC. WSC-CAM-IIA (Revision 4), WSC-CAM-V C (Revision 2), WSC-CAM-IIIA (Revision 5). May 2004.

LIMITATION OF LIABILITIES

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

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





CHAIN OF CUSTODY

PAGE OF

Project Information

Westborough, MA Mansfield, MA
 TEL: 508-898-9220 TEL: 508-822-9300
 FAX: 508-898-9193 FAX: 508-822-3298

Project Name: **FANTHEON - WAYLAND**
 Project Location: **WAYLAND, MA**
 Project #: **0079307**
 Project Manager: **JASON FLATTERY**
 ALPHA Quote #:

Client Information

Client: **ERM-New England**
 Address: **399 Boylston Street, 6th Floor**
 Boston, MA 02116
 Phone: **617-267-8377**
 Fax: **617-267-6447**
 Email: **Jason.Flattery@erm.com**

Project Location: **WAYLAND, MA**
 Project #: **0079307**
 Project Manager: **JASON FLATTERY**
 ALPHA Quote #:
Turn-Around Time

Standard Rush (ONLY IF PRE-APPROVED)
 Due Date: **8/22** Time:
 Other Project Specific Requirements/Comments/Detection Limits:

Date Rec'd in Lab: **8/15**

ALPHA Job #: **40812109**

Report Information

FAX EMAIL
 ADEX Add'l Deliverables

Billing Information

Same as Client Info

PO #:

Regulatory Requirements/Report Limits

State/Fed Program: **MSP/PLS-1**

Criteria

MCP PRESUMPTIVE CERTAINTY-CT REASONABLE CONFIDENCE PROTOCOLS

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

ANALYSIS

SAMPLE HANDLING

- Filtration
- Done
- Not Needed
- Lab to do
- Lab to do (Please specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials
		Date	Time		
2109.1	IW-4-A-20080814-01	8/14/08	9:00	S	EW
2	IW-4-B-20080814-01	8/14/08	9:20	S	EW
3	IW-5-A-20080814-01	8/14/08	14:00	S	BM
4	IW-5-B-20080814-01	8/14/08	14:30	S	EW
5	MW-5A0-A-20080815-01	8/15/08	10:00	S	EW
6	MW-5A0-B-20080815-01	8/15/08	10:30	S	EW
7	TB-01-20080815-01	8/15/08	11:11		
8	TB-02-20080815-01	8/15/08	09:00		

ANALYSIS	Criteria	Result
VOC B260 LOW		1
VOC B260 HIGH		1
TOTAL SOLIDS		1

Sample Specific Comments

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT
 MA MCP OR CT RCP?

Relinquished By: **Samuel Henry**

Container Type: **V**
 Preservative: **NO**

Date/Time: **8/15/08 11:50**

Received By: **John Blanda**

Date/Time: **8/15/08 11:50**

Relinquished By: **Samuel Henry**

Container Type: **V**
 Preservative: **NO**

Date/Time: **8/15/08 11:50**

Received By: **John Blanda**

Date/Time: **8/15/08 11:50**

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.



ANALYTICAL REPORT

Lab Number:	L0811944
Client:	ERM-New England 399 Boylston Street 6th Floor Boston, MA 02116
ATTN:	Jason Flattery
Project Name:	RAYTHEON-WAYLAND
Project Number:	0079387
Report Date:	08/20/08

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-WAYLAND
Project Number: 0079387

Lab Number: L0811944
Report Date: 08/20/08

Alpha Sample ID	Client ID	Sample Location
L0811944-01	IW-9A-20080813-01	WAYLAND, MA
L0811944-02	IW-6B-20080812-01	WAYLAND, MA
L0811944-03	IW-6A-20080812-01	WAYLAND, MA
L0811944-04	IW-3A-20080812-01	WAYLAND, MA
L0811944-05	IW-7A-20080812-01	WAYLAND, MA
L0811944-06	IW-7B-20080812-01	WAYLAND, MA
L0811944-07	IW-8A-20080812-01	WAYLAND, MA
L0811944-08	IW-8B-20080812-01	WAYLAND, MA
L0811944-09	IW-9B-20080813-01	WAYLAND, MA
L0811944-10	TB-001-20080813-01+TB-002-2008	WAYLAND, MA

Project Name: RAYTHEON-WAYLAND
Project Number: 0079387

Lab Number: L0811944
Report Date: 08/20/08

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?	NO
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-WAYLAND
Project Number: 0079387

Lab Number: L0811944
Report Date: 08/20/08

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.

MCP Related Narratives:

Volatile Organics

L0811944-10 Trip Blank was analyzed as a methanol preserved high sample due to the water preserved sample having no internal standard or surrogate recoveries.

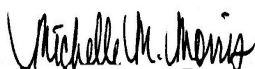
In reference to question E:

The surrogate recovery for L0811944-07 is above the acceptance criteria for 4-Bromofluorobenzene (133%). Since the sample was non-detect for all target analytes, re-analysis is not required.

The WG332718-2 LCSD recoveries associated with L0811944-01 through -09 were above the acceptance criteria for 1,2,3-Trichloropropane (137%) and Isopropylbenzene (136%); however, the associated samples were non-detect for these target compounds. The results of the original analysis are reported.

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: 08/20/08

ORGANICS

VOLATILES

Project Name: RAYTHEON-WAYLAND**Lab Number:** L0811944**Project Number:** 0079387**Report Date:** 08/20/08**SAMPLE RESULTS**

Lab ID: L0811944-01
 Client ID: IW-9A-20080813-01
 Sample Location: WAYLAND, MA
 Matrix: Soil
 Analytical Method: 60,8260B
 Analytical Date: 08/15/08 12:13
 Analyst: PD
 Percent Solids: 84%

Date Collected: 08/13/08 10:30
 Date Received: 08/13/08
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B/5035-Soil Analysis					
Methylene chloride	ND		ug/kg	11	1
1,1-Dichloroethane	ND		ug/kg	1.6	1
Chloroform	ND		ug/kg	1.6	1
Carbon tetrachloride	ND		ug/kg	1.1	1
1,2-Dichloropropane	ND		ug/kg	3.8	1
Dibromochloromethane	ND		ug/kg	1.1	1
1,1,1-Trichloroethane	ND		ug/kg	1.6	1
Tetrachloroethene	ND		ug/kg	1.1	1
Chlorobenzene	ND		ug/kg	1.1	1
Trichlorofluoromethane	ND		ug/kg	5.4	1
1,2-Dichloroethane	ND		ug/kg	1.1	1
1,1,1-Trichloroethane	ND		ug/kg	1.1	1
Bromodichloromethane	ND		ug/kg	1.1	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	1
cis-1,3-Dichloropropene	ND		ug/kg	1.1	1
1,1-Dichloropropene	ND		ug/kg	5.4	1
Bromoform	ND		ug/kg	4.3	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.1	1
Benzene	ND		ug/kg	1.1	1
Toluene	ND		ug/kg	1.6	1
Ethylbenzene	ND		ug/kg	1.1	1
Chloromethane	ND		ug/kg	5.4	1
Bromomethane	ND		ug/kg	2.2	1
Vinyl chloride	ND		ug/kg	2.2	1
Chloroethane	ND		ug/kg	2.2	1
1,1-Dichloroethene	ND		ug/kg	1.1	1
trans-1,2-Dichloroethene	ND		ug/kg	1.6	1
Trichloroethene	ND		ug/kg	1.1	1
1,2-Dichlorobenzene	ND		ug/kg	5.4	1
1,3-Dichlorobenzene	ND		ug/kg	5.4	1

Project Name: RAYTHEON-WAYLAND

Lab Number: L0811944

Project Number: 0079387

Report Date: 08/20/08

SAMPLE RESULTS

Lab ID: L0811944-01

Date Collected: 08/13/08 10:30

Client ID: IW-9A-20080813-01

Date Received: 08/13/08

Sample Location: WAYLAND, MA

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B/5035-Soil Analysis					
1,4-Dichlorobenzene	ND		ug/kg	5.4	1
Methyl tert butyl ether	ND		ug/kg	2.2	1
p/m-Xylene	ND		ug/kg	2.2	1
o-Xylene	ND		ug/kg	2.2	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	1
Dibromomethane	ND		ug/kg	11	1
1,2,3-Trichloropropane	ND		ug/kg	11	1
Styrene	ND		ug/kg	2.2	1
Dichlorodifluoromethane	ND		ug/kg	11	1
Acetone	ND		ug/kg	11	1
Carbon disulfide	ND		ug/kg	54	1
2-Butanone	ND		ug/kg	11	1
4-Methyl-2-pentanone	ND		ug/kg	11	1
2-Hexanone	ND		ug/kg	11	1
Bromochloromethane	ND		ug/kg	5.4	1
Tetrahydrofuran	ND		ug/kg	22	1
2,2-Dichloropropane	ND		ug/kg	5.4	1
1,2-Dibromoethane	ND		ug/kg	4.3	1
1,3-Dichloropropane	ND		ug/kg	5.4	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.1	1
Bromobenzene	ND		ug/kg	5.4	1
n-Butylbenzene	ND		ug/kg	1.1	1
sec-Butylbenzene	ND		ug/kg	1.1	1
tert-Butylbenzene	ND		ug/kg	5.4	1
o-Chlorotoluene	ND		ug/kg	5.4	1
p-Chlorotoluene	ND		ug/kg	5.4	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.4	1
Hexachlorobutadiene	ND		ug/kg	5.4	1
Isopropylbenzene	ND		ug/kg	1.1	1
p-Isopropyltoluene	ND		ug/kg	1.1	1
Naphthalene	ND		ug/kg	5.4	1
n-Propylbenzene	ND		ug/kg	1.1	1
1,2,3-Trichlorobenzene	ND		ug/kg	5.4	1
1,2,4-Trichlorobenzene	ND		ug/kg	5.4	1
1,3,5-Trimethylbenzene	ND		ug/kg	5.4	1
1,2,4-Trimethylbenzene	ND		ug/kg	5.4	1
Ethyl ether	ND		ug/kg	5.4	1

Project Name: RAYTHEON-WAYLAND**Lab Number:** L0811944**Project Number:** 0079387**Report Date:** 08/20/08**SAMPLE RESULTS**

Lab ID: L0811944-01

Date Collected: 08/13/08 10:30

Client ID: IW-9A-20080813-01

Date Received: 08/13/08

Sample Location: WAYLAND, MA

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B/5035-Soil Analysis					
Isopropyl Ether	ND		ug/kg	4.3	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	4.3	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	4.3	1
1,4-Dioxane	ND		ug/kg	540	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	111		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	119		70-130
Dibromofluoromethane	92		70-130

Project Name: RAYTHEON-WAYLAND

Lab Number: L0811944

Project Number: 0079387

Report Date: 08/20/08

SAMPLE RESULTS

Lab ID: L0811944-02
 Client ID: IW-6B-20080812-01
 Sample Location: WAYLAND, MA
 Matrix: Soil
 Analytical Method: 60,8260B
 Analytical Date: 08/15/08 12:50
 Analyst: PD
 Percent Solids: 72%

Date Collected: 08/12/08 10:00
 Date Received: 08/13/08
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B/5035-Soil Analysis					
Methylene chloride	ND		ug/kg	11	1
1,1-Dichloroethane	ND		ug/kg	1.6	1
Chloroform	ND		ug/kg	1.6	1
Carbon tetrachloride	ND		ug/kg	1.1	1
1,2-Dichloropropane	ND		ug/kg	3.7	1
Dibromochloromethane	ND		ug/kg	1.1	1
1,1,2-Trichloroethane	ND		ug/kg	1.6	1
Tetrachloroethene	ND		ug/kg	1.1	1
Chlorobenzene	ND		ug/kg	1.1	1
Trichlorofluoromethane	ND		ug/kg	5.3	1
1,2-Dichloroethane	ND		ug/kg	1.1	1
1,1,1-Trichloroethane	ND		ug/kg	1.1	1
Bromodichloromethane	ND		ug/kg	1.1	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	1
cis-1,3-Dichloropropene	ND		ug/kg	1.1	1
1,1-Dichloropropene	ND		ug/kg	5.3	1
Bromoform	ND		ug/kg	4.3	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.1	1
Benzene	ND		ug/kg	1.1	1
Toluene	ND		ug/kg	1.6	1
Ethylbenzene	ND		ug/kg	1.1	1
Chloromethane	ND		ug/kg	5.3	1
Bromomethane	ND		ug/kg	2.1	1
Vinyl chloride	ND		ug/kg	2.1	1
Chloroethane	ND		ug/kg	2.1	1
1,1-Dichloroethene	ND		ug/kg	1.1	1
trans-1,2-Dichloroethene	ND		ug/kg	1.6	1
Trichloroethene	3.6		ug/kg	1.1	1
1,2-Dichlorobenzene	ND		ug/kg	5.3	1
1,3-Dichlorobenzene	ND		ug/kg	5.3	1

Project Name: RAYTHEON-WAYLAND

Lab Number: L0811944

Project Number: 0079387

Report Date: 08/20/08

SAMPLE RESULTS

Lab ID: L0811944-02

Date Collected: 08/12/08 10:00

Client ID: IW-6B-20080812-01

Date Received: 08/13/08

Sample Location: WAYLAND, MA

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B/5035-Soil Analysis					
1,4-Dichlorobenzene	ND		ug/kg	5.3	1
Methyl tert butyl ether	ND		ug/kg	2.1	1
p/m-Xylene	ND		ug/kg	2.1	1
o-Xylene	ND		ug/kg	2.1	1
cis-1,2-Dichloroethene	1.1		ug/kg	1.1	1
Dibromomethane	ND		ug/kg	11	1
1,2,3-Trichloropropane	ND		ug/kg	11	1
Styrene	ND		ug/kg	2.1	1
Dichlorodifluoromethane	ND		ug/kg	11	1
Acetone	16		ug/kg	11	1
Carbon disulfide	ND		ug/kg	53	1
2-Butanone	ND		ug/kg	11	1
4-Methyl-2-pentanone	ND		ug/kg	11	1
2-Hexanone	ND		ug/kg	11	1
Bromochloromethane	ND		ug/kg	5.3	1
Tetrahydrofuran	ND		ug/kg	21	1
2,2-Dichloropropane	ND		ug/kg	5.3	1
1,2-Dibromoethane	ND		ug/kg	4.3	1
1,3-Dichloropropane	ND		ug/kg	5.3	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.1	1
Bromobenzene	ND		ug/kg	5.3	1
n-Butylbenzene	ND		ug/kg	1.1	1
sec-Butylbenzene	ND		ug/kg	1.1	1
tert-Butylbenzene	ND		ug/kg	5.3	1
o-Chlorotoluene	ND		ug/kg	5.3	1
p-Chlorotoluene	ND		ug/kg	5.3	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.3	1
Hexachlorobutadiene	ND		ug/kg	5.3	1
Isopropylbenzene	ND		ug/kg	1.1	1
p-Isopropyltoluene	ND		ug/kg	1.1	1
Naphthalene	ND		ug/kg	5.3	1
n-Propylbenzene	ND		ug/kg	1.1	1
1,2,3-Trichlorobenzene	ND		ug/kg	5.3	1
1,2,4-Trichlorobenzene	ND		ug/kg	5.3	1
1,3,5-Trimethylbenzene	ND		ug/kg	5.3	1
1,2,4-Trimethylbenzene	ND		ug/kg	5.3	1
Ethyl ether	ND		ug/kg	5.3	1

Project Name: RAYTHEON-WAYLAND**Lab Number:** L0811944**Project Number:** 0079387**Report Date:** 08/20/08**SAMPLE RESULTS**

Lab ID: L0811944-02

Date Collected: 08/12/08 10:00

Client ID: IW-6B-20080812-01

Date Received: 08/13/08

Sample Location: WAYLAND, MA

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B/5035-Soil Analysis					
Isopropyl Ether	ND		ug/kg	4.3	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	4.3	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	4.3	1
1,4-Dioxane	ND		ug/kg	530	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	130		70-130
Toluene-d8	116		70-130
4-Bromofluorobenzene	130		70-130
Dibromofluoromethane	108		70-130

Project Name: RAYTHEON-WAYLAND

Lab Number: L0811944

Project Number: 0079387

Report Date: 08/20/08

SAMPLE RESULTS

Lab ID: L0811944-03
 Client ID: IW-6A-20080812-01
 Sample Location: WAYLAND, MA
 Matrix: Soil
 Analytical Method: 60,8260B
 Analytical Date: 08/15/08 13:27
 Analyst: PD
 Percent Solids: 73%

Date Collected: 08/12/08 09:50
 Date Received: 08/13/08
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B/5035-Soil Analysis					
Methylene chloride	ND		ug/kg	13	1
1,1-Dichloroethane	ND		ug/kg	1.9	1
Chloroform	ND		ug/kg	1.9	1
Carbon tetrachloride	ND		ug/kg	1.3	1
1,2-Dichloropropane	ND		ug/kg	4.5	1
Dibromochloromethane	ND		ug/kg	1.3	1
1,1,2-Trichloroethane	ND		ug/kg	1.9	1
Tetrachloroethene	ND		ug/kg	1.3	1
Chlorobenzene	ND		ug/kg	1.3	1
Trichlorofluoromethane	ND		ug/kg	6.5	1
1,2-Dichloroethane	ND		ug/kg	1.3	1
1,1,1-Trichloroethane	ND		ug/kg	1.3	1
Bromodichloromethane	ND		ug/kg	1.3	1
trans-1,3-Dichloropropene	ND		ug/kg	1.3	1
cis-1,3-Dichloropropene	ND		ug/kg	1.3	1
1,1-Dichloropropene	ND		ug/kg	6.5	1
Bromoform	ND		ug/kg	5.2	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.3	1
Benzene	ND		ug/kg	1.3	1
Toluene	ND		ug/kg	1.9	1
Ethylbenzene	ND		ug/kg	1.3	1
Chloromethane	ND		ug/kg	6.5	1
Bromomethane	ND		ug/kg	2.6	1
Vinyl chloride	ND		ug/kg	2.6	1
Chloroethane	ND		ug/kg	2.6	1
1,1-Dichloroethene	ND		ug/kg	1.3	1
trans-1,2-Dichloroethene	ND		ug/kg	1.9	1
Trichloroethene	1.9		ug/kg	1.3	1
1,2-Dichlorobenzene	ND		ug/kg	6.5	1
1,3-Dichlorobenzene	ND		ug/kg	6.5	1

Project Name: RAYTHEON-WAYLAND

Lab Number: L0811944

Project Number: 0079387

Report Date: 08/20/08

SAMPLE RESULTS

Lab ID: L0811944-03

Date Collected: 08/12/08 09:50

Client ID: IW-6A-20080812-01

Date Received: 08/13/08

Sample Location: WAYLAND, MA

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B/5035-Soil Analysis					
1,4-Dichlorobenzene	ND		ug/kg	6.5	1
Methyl tert butyl ether	ND		ug/kg	2.6	1
p/m-Xylene	ND		ug/kg	2.6	1
o-Xylene	ND		ug/kg	2.6	1
cis-1,2-Dichloroethene	ND		ug/kg	1.3	1
Dibromomethane	ND		ug/kg	13	1
1,2,3-Trichloropropane	ND		ug/kg	13	1
Styrene	ND		ug/kg	2.6	1
Dichlorodifluoromethane	ND		ug/kg	13	1
Acetone	25		ug/kg	13	1
Carbon disulfide	ND		ug/kg	65	1
2-Butanone	ND		ug/kg	13	1
4-Methyl-2-pentanone	ND		ug/kg	13	1
2-Hexanone	ND		ug/kg	13	1
Bromochloromethane	ND		ug/kg	6.5	1
Tetrahydrofuran	ND		ug/kg	26	1
2,2-Dichloropropane	ND		ug/kg	6.5	1
1,2-Dibromoethane	ND		ug/kg	5.2	1
1,3-Dichloropropane	ND		ug/kg	6.5	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.3	1
Bromobenzene	ND		ug/kg	6.5	1
n-Butylbenzene	ND		ug/kg	1.3	1
sec-Butylbenzene	ND		ug/kg	1.3	1
tert-Butylbenzene	ND		ug/kg	6.5	1
o-Chlorotoluene	ND		ug/kg	6.5	1
p-Chlorotoluene	ND		ug/kg	6.5	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	6.5	1
Hexachlorobutadiene	ND		ug/kg	6.5	1
Isopropylbenzene	ND		ug/kg	1.3	1
p-Isopropyltoluene	ND		ug/kg	1.3	1
Naphthalene	ND		ug/kg	6.5	1
n-Propylbenzene	ND		ug/kg	1.3	1
1,2,3-Trichlorobenzene	ND		ug/kg	6.5	1
1,2,4-Trichlorobenzene	ND		ug/kg	6.5	1
1,3,5-Trimethylbenzene	ND		ug/kg	6.5	1
1,2,4-Trimethylbenzene	ND		ug/kg	6.5	1
Ethyl ether	ND		ug/kg	6.5	1

Project Name: RAYTHEON-WAYLAND**Lab Number:** L0811944**Project Number:** 0079387**Report Date:** 08/20/08**SAMPLE RESULTS**

Lab ID: L0811944-03

Date Collected: 08/12/08 09:50

Client ID: IW-6A-20080812-01

Date Received: 08/13/08

Sample Location: WAYLAND, MA

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B/5035-Soil Analysis					
Isopropyl Ether	ND		ug/kg	5.2	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	5.2	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	5.2	1
1,4-Dioxane	ND		ug/kg	650	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	118		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	115		70-130
Dibromofluoromethane	98		70-130

Project Name: RAYTHEON-WAYLAND

Lab Number: L0811944

Project Number: 0079387

Report Date: 08/20/08

SAMPLE RESULTS

Lab ID: L0811944-04
 Client ID: IW-3A-20080812-01
 Sample Location: WAYLAND, MA
 Matrix: Soil
 Analytical Method: 60,8260B
 Analytical Date: 08/15/08 14:04
 Analyst: PD
 Percent Solids: 62%

Date Collected: 08/12/08 09:30
 Date Received: 08/13/08
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B/5035-Soil Analysis					
Methylene chloride	ND		ug/kg	14	1
1,1-Dichloroethane	ND		ug/kg	2.1	1
Chloroform	ND		ug/kg	2.1	1
Carbon tetrachloride	ND		ug/kg	1.4	1
1,2-Dichloropropane	ND		ug/kg	5.0	1
Dibromochloromethane	ND		ug/kg	1.4	1
1,1,2-Trichloroethane	ND		ug/kg	2.1	1
Tetrachloroethene	1.8		ug/kg	1.4	1
Chlorobenzene	ND		ug/kg	1.4	1
Trichlorofluoromethane	ND		ug/kg	7.1	1
1,2-Dichloroethane	ND		ug/kg	1.4	1
1,1,1-Trichloroethane	ND		ug/kg	1.4	1
Bromodichloromethane	ND		ug/kg	1.4	1
trans-1,3-Dichloropropene	ND		ug/kg	1.4	1
cis-1,3-Dichloropropene	ND		ug/kg	1.4	1
1,1-Dichloropropene	ND		ug/kg	7.1	1
Bromoform	ND		ug/kg	5.6	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.4	1
Benzene	ND		ug/kg	1.4	1
Toluene	ND		ug/kg	2.1	1
Ethylbenzene	ND		ug/kg	1.4	1
Chloromethane	ND		ug/kg	7.1	1
Bromomethane	ND		ug/kg	2.8	1
Vinyl chloride	ND		ug/kg	2.8	1
Chloroethane	ND		ug/kg	2.8	1
1,1-Dichloroethene	ND		ug/kg	1.4	1
trans-1,2-Dichloroethene	ND		ug/kg	2.1	1
Trichloroethene	95		ug/kg	1.4	1
1,2-Dichlorobenzene	ND		ug/kg	7.1	1
1,3-Dichlorobenzene	ND		ug/kg	7.1	1

Project Name: RAYTHEON-WAYLAND

Lab Number: L0811944

Project Number: 0079387

Report Date: 08/20/08

SAMPLE RESULTS

Lab ID: L0811944-04

Date Collected: 08/12/08 09:30

Client ID: IW-3A-20080812-01

Date Received: 08/13/08

Sample Location: WAYLAND, MA

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B/5035-Soil Analysis					
1,4-Dichlorobenzene	ND		ug/kg	7.1	1
Methyl tert butyl ether	ND		ug/kg	2.8	1
p/m-Xylene	ND		ug/kg	2.8	1
o-Xylene	ND		ug/kg	2.8	1
cis-1,2-Dichloroethene	2.2		ug/kg	1.4	1
Dibromomethane	ND		ug/kg	14	1
1,2,3-Trichloropropane	ND		ug/kg	14	1
Styrene	ND		ug/kg	2.8	1
Dichlorodifluoromethane	ND		ug/kg	14	1
Acetone	61		ug/kg	14	1
Carbon disulfide	ND		ug/kg	71	1
2-Butanone	ND		ug/kg	14	1
4-Methyl-2-pentanone	ND		ug/kg	14	1
2-Hexanone	ND		ug/kg	14	1
Bromochloromethane	ND		ug/kg	7.1	1
Tetrahydrofuran	ND		ug/kg	28	1
2,2-Dichloropropane	ND		ug/kg	7.1	1
1,2-Dibromoethane	ND		ug/kg	5.6	1
1,3-Dichloropropane	ND		ug/kg	7.1	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.4	1
Bromobenzene	ND		ug/kg	7.1	1
n-Butylbenzene	ND		ug/kg	1.4	1
sec-Butylbenzene	ND		ug/kg	1.4	1
tert-Butylbenzene	ND		ug/kg	7.1	1
o-Chlorotoluene	ND		ug/kg	7.1	1
p-Chlorotoluene	ND		ug/kg	7.1	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	7.1	1
Hexachlorobutadiene	ND		ug/kg	7.1	1
Isopropylbenzene	ND		ug/kg	1.4	1
p-Isopropyltoluene	2.3		ug/kg	1.4	1
Naphthalene	ND		ug/kg	7.1	1
n-Propylbenzene	ND		ug/kg	1.4	1
1,2,3-Trichlorobenzene	ND		ug/kg	7.1	1
1,2,4-Trichlorobenzene	ND		ug/kg	7.1	1
1,3,5-Trimethylbenzene	ND		ug/kg	7.1	1
1,2,4-Trimethylbenzene	ND		ug/kg	7.1	1
Ethyl ether	ND		ug/kg	7.1	1

Project Name: RAYTHEON-WAYLAND**Lab Number:** L0811944**Project Number:** 0079387**Report Date:** 08/20/08**SAMPLE RESULTS**

Lab ID: L0811944-04

Date Collected: 08/12/08 09:30

Client ID: IW-3A-20080812-01

Date Received: 08/13/08

Sample Location: WAYLAND, MA

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B/5035-Soil Analysis					
Isopropyl Ether	ND		ug/kg	5.6	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	5.6	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	5.6	1
1,4-Dioxane	ND		ug/kg	710	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	117		70-130
Toluene-d8	106		70-130
4-Bromofluorobenzene	122		70-130
Dibromofluoromethane	99		70-130

Project Name: RAYTHEON-WAYLAND

Lab Number: L0811944

Project Number: 0079387

Report Date: 08/20/08

SAMPLE RESULTS

Lab ID: L0811944-05
 Client ID: IW-7A-20080812-01
 Sample Location: WAYLAND, MA
 Matrix: Soil
 Analytical Method: 60,8260B
 Analytical Date: 08/15/08 14:40
 Analyst: PD
 Percent Solids: 75%

Date Collected: 08/12/08 09:30
 Date Received: 08/13/08
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B/5035-Soil Analysis					
Methylene chloride	ND		ug/kg	13	1
1,1-Dichloroethane	ND		ug/kg	1.9	1
Chloroform	ND		ug/kg	1.9	1
Carbon tetrachloride	ND		ug/kg	1.3	1
1,2-Dichloropropane	ND		ug/kg	4.5	1
Dibromochloromethane	ND		ug/kg	1.3	1
1,1,1-Trichloroethane	ND		ug/kg	1.9	1
Tetrachloroethene	ND		ug/kg	1.3	1
Chlorobenzene	ND		ug/kg	1.3	1
Trichlorofluoromethane	ND		ug/kg	6.4	1
1,2-Dichloroethane	ND		ug/kg	1.3	1
1,1,1-Trichloroethane	ND		ug/kg	1.3	1
Bromodichloromethane	ND		ug/kg	1.3	1
trans-1,3-Dichloropropene	ND		ug/kg	1.3	1
cis-1,3-Dichloropropene	ND		ug/kg	1.3	1
1,1-Dichloropropene	ND		ug/kg	6.4	1
Bromoform	ND		ug/kg	5.1	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.3	1
Benzene	ND		ug/kg	1.3	1
Toluene	ND		ug/kg	1.9	1
Ethylbenzene	ND		ug/kg	1.3	1
Chloromethane	ND		ug/kg	6.4	1
Bromomethane	ND		ug/kg	2.6	1
Vinyl chloride	ND		ug/kg	2.6	1
Chloroethane	ND		ug/kg	2.6	1
1,1-Dichloroethene	ND		ug/kg	1.3	1
trans-1,2-Dichloroethene	ND		ug/kg	1.9	1
Trichloroethene	4.3		ug/kg	1.3	1
1,2-Dichlorobenzene	ND		ug/kg	6.4	1
1,3-Dichlorobenzene	ND		ug/kg	6.4	1

Project Name: RAYTHEON-WAYLAND

Lab Number: L0811944

Project Number: 0079387

Report Date: 08/20/08

SAMPLE RESULTS

Lab ID: L0811944-05

Date Collected: 08/12/08 09:30

Client ID: IW-7A-20080812-01

Date Received: 08/13/08

Sample Location: WAYLAND, MA

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B/5035-Soil Analysis					
1,4-Dichlorobenzene	ND		ug/kg	6.4	1
Methyl tert butyl ether	ND		ug/kg	2.6	1
p/m-Xylene	ND		ug/kg	2.6	1
o-Xylene	ND		ug/kg	2.6	1
cis-1,2-Dichloroethene	ND		ug/kg	1.3	1
Dibromomethane	ND		ug/kg	13	1
1,2,3-Trichloropropane	ND		ug/kg	13	1
Styrene	ND		ug/kg	2.6	1
Dichlorodifluoromethane	ND		ug/kg	13	1
Acetone	14		ug/kg	13	1
Carbon disulfide	ND		ug/kg	64	1
2-Butanone	ND		ug/kg	13	1
4-Methyl-2-pentanone	ND		ug/kg	13	1
2-Hexanone	ND		ug/kg	13	1
Bromochloromethane	ND		ug/kg	6.4	1
Tetrahydrofuran	ND		ug/kg	26	1
2,2-Dichloropropane	ND		ug/kg	6.4	1
1,2-Dibromoethane	ND		ug/kg	5.1	1
1,3-Dichloropropane	ND		ug/kg	6.4	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.3	1
Bromobenzene	ND		ug/kg	6.4	1
n-Butylbenzene	ND		ug/kg	1.3	1
sec-Butylbenzene	ND		ug/kg	1.3	1
tert-Butylbenzene	ND		ug/kg	6.4	1
o-Chlorotoluene	ND		ug/kg	6.4	1
p-Chlorotoluene	ND		ug/kg	6.4	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	6.4	1
Hexachlorobutadiene	ND		ug/kg	6.4	1
Isopropylbenzene	ND		ug/kg	1.3	1
p-Isopropyltoluene	ND		ug/kg	1.3	1
Naphthalene	ND		ug/kg	6.4	1
n-Propylbenzene	ND		ug/kg	1.3	1
1,2,3-Trichlorobenzene	ND		ug/kg	6.4	1
1,2,4-Trichlorobenzene	ND		ug/kg	6.4	1
1,3,5-Trimethylbenzene	ND		ug/kg	6.4	1
1,2,4-Trimethylbenzene	ND		ug/kg	6.4	1
Ethyl ether	ND		ug/kg	6.4	1

Project Name: RAYTHEON-WAYLAND**Lab Number:** L0811944**Project Number:** 0079387**Report Date:** 08/20/08**SAMPLE RESULTS**

Lab ID: L0811944-05

Date Collected: 08/12/08 09:30

Client ID: IW-7A-20080812-01

Date Received: 08/13/08

Sample Location: WAYLAND, MA

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B/5035-Soil Analysis					
Isopropyl Ether	ND		ug/kg	5.1	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	5.1	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	5.1	1
1,4-Dioxane	ND		ug/kg	640	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	120		70-130
Toluene-d8	108		70-130
4-Bromofluorobenzene	126		70-130
Dibromofluoromethane	100		70-130

Project Name: RAYTHEON-WAYLAND**Lab Number:** L0811944**Project Number:** 0079387**Report Date:** 08/20/08**SAMPLE RESULTS**

Lab ID: L0811944-06
 Client ID: IW-7B-20080812-01
 Sample Location: WAYLAND, MA
 Matrix: Soil
 Analytical Method: 60,8260B
 Analytical Date: 08/15/08 15:17
 Analyst: PD
 Percent Solids: 76%

Date Collected: 08/12/08 13:00
 Date Received: 08/13/08
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B/5035-Soil Analysis					
Methylene chloride	ND		ug/kg	12	1
1,1-Dichloroethane	ND		ug/kg	1.8	1
Chloroform	ND		ug/kg	1.8	1
Carbon tetrachloride	ND		ug/kg	1.2	1
1,2-Dichloropropane	ND		ug/kg	4.3	1
Dibromochloromethane	ND		ug/kg	1.2	1
1,1,2-Trichloroethane	ND		ug/kg	1.8	1
Tetrachloroethene	ND		ug/kg	1.2	1
Chlorobenzene	ND		ug/kg	1.2	1
Trichlorofluoromethane	ND		ug/kg	6.1	1
1,2-Dichloroethane	ND		ug/kg	1.2	1
1,1,1-Trichloroethane	ND		ug/kg	1.2	1
Bromodichloromethane	ND		ug/kg	1.2	1
trans-1,3-Dichloropropene	ND		ug/kg	1.2	1
cis-1,3-Dichloropropene	ND		ug/kg	1.2	1
1,1-Dichloropropene	ND		ug/kg	6.1	1
Bromoform	ND		ug/kg	4.9	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.2	1
Benzene	ND		ug/kg	1.2	1
Toluene	ND		ug/kg	1.8	1
Ethylbenzene	ND		ug/kg	1.2	1
Chloromethane	ND		ug/kg	6.1	1
Bromomethane	ND		ug/kg	2.4	1
Vinyl chloride	ND		ug/kg	2.4	1
Chloroethane	ND		ug/kg	2.4	1
1,1-Dichloroethene	ND		ug/kg	1.2	1
trans-1,2-Dichloroethene	ND		ug/kg	1.8	1
Trichloroethene	ND		ug/kg	1.2	1
1,2-Dichlorobenzene	ND		ug/kg	6.1	1
1,3-Dichlorobenzene	ND		ug/kg	6.1	1

Project Name: RAYTHEON-WAYLAND

Lab Number: L0811944

Project Number: 0079387

Report Date: 08/20/08

SAMPLE RESULTS

Lab ID: L0811944-06

Date Collected: 08/12/08 13:00

Client ID: IW-7B-20080812-01

Date Received: 08/13/08

Sample Location: WAYLAND, MA

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B/5035-Soil Analysis					
1,4-Dichlorobenzene	ND		ug/kg	6.1	1
Methyl tert butyl ether	ND		ug/kg	2.4	1
p/m-Xylene	ND		ug/kg	2.4	1
o-Xylene	ND		ug/kg	2.4	1
cis-1,2-Dichloroethene	ND		ug/kg	1.2	1
Dibromomethane	ND		ug/kg	12	1
1,2,3-Trichloropropane	ND		ug/kg	12	1
Styrene	ND		ug/kg	2.4	1
Dichlorodifluoromethane	ND		ug/kg	12	1
Acetone	ND		ug/kg	12	1
Carbon disulfide	ND		ug/kg	61	1
2-Butanone	ND		ug/kg	12	1
4-Methyl-2-pentanone	ND		ug/kg	12	1
2-Hexanone	ND		ug/kg	12	1
Bromochloromethane	ND		ug/kg	6.1	1
Tetrahydrofuran	ND		ug/kg	24	1
2,2-Dichloropropane	ND		ug/kg	6.1	1
1,2-Dibromoethane	ND		ug/kg	4.9	1
1,3-Dichloropropane	ND		ug/kg	6.1	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.2	1
Bromobenzene	ND		ug/kg	6.1	1
n-Butylbenzene	ND		ug/kg	1.2	1
sec-Butylbenzene	ND		ug/kg	1.2	1
tert-Butylbenzene	ND		ug/kg	6.1	1
o-Chlorotoluene	ND		ug/kg	6.1	1
p-Chlorotoluene	ND		ug/kg	6.1	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	6.1	1
Hexachlorobutadiene	ND		ug/kg	6.1	1
Isopropylbenzene	ND		ug/kg	1.2	1
p-Isopropyltoluene	ND		ug/kg	1.2	1
Naphthalene	ND		ug/kg	6.1	1
n-Propylbenzene	ND		ug/kg	1.2	1
1,2,3-Trichlorobenzene	ND		ug/kg	6.1	1
1,2,4-Trichlorobenzene	ND		ug/kg	6.1	1
1,3,5-Trimethylbenzene	ND		ug/kg	6.1	1
1,2,4-Trimethylbenzene	ND		ug/kg	6.1	1
Ethyl ether	ND		ug/kg	6.1	1

Project Name: RAYTHEON-WAYLAND**Lab Number:** L0811944**Project Number:** 0079387**Report Date:** 08/20/08**SAMPLE RESULTS**

Lab ID: L0811944-06

Date Collected: 08/12/08 13:00

Client ID: IW-7B-20080812-01

Date Received: 08/13/08

Sample Location: WAYLAND, MA

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B/5035-Soil Analysis					
Isopropyl Ether	ND		ug/kg	4.9	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	4.9	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	4.9	1
1,4-Dioxane	ND		ug/kg	610	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	109		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	113		70-130
Dibromofluoromethane	89		70-130

Project Name: RAYTHEON-WAYLAND**Lab Number:** L0811944**Project Number:** 0079387**Report Date:** 08/20/08**SAMPLE RESULTS**

Lab ID: L0811944-07
 Client ID: IW-8A-20080812-01
 Sample Location: WAYLAND, MA
 Matrix: Soil
 Analytical Method: 60,8260B
 Analytical Date: 08/15/08 15:54
 Analyst: PD
 Percent Solids: 88%

Date Collected: 08/12/08 13:10
 Date Received: 08/13/08
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B/5035-Soil Analysis					
Methylene chloride	ND		ug/kg	11	1
1,1-Dichloroethane	ND		ug/kg	1.6	1
Chloroform	ND		ug/kg	1.6	1
Carbon tetrachloride	ND		ug/kg	1.1	1
1,2-Dichloropropane	ND		ug/kg	3.8	1
Dibromochloromethane	ND		ug/kg	1.1	1
1,1,2-Trichloroethane	ND		ug/kg	1.6	1
Tetrachloroethene	ND		ug/kg	1.1	1
Chlorobenzene	ND		ug/kg	1.1	1
Trichlorofluoromethane	ND		ug/kg	5.5	1
1,2-Dichloroethane	ND		ug/kg	1.1	1
1,1,1-Trichloroethane	ND		ug/kg	1.1	1
Bromodichloromethane	ND		ug/kg	1.1	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	1
cis-1,3-Dichloropropene	ND		ug/kg	1.1	1
1,1-Dichloropropene	ND		ug/kg	5.5	1
Bromoform	ND		ug/kg	4.4	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.1	1
Benzene	ND		ug/kg	1.1	1
Toluene	ND		ug/kg	1.6	1
Ethylbenzene	ND		ug/kg	1.1	1
Chloromethane	ND		ug/kg	5.5	1
Bromomethane	ND		ug/kg	2.2	1
Vinyl chloride	ND		ug/kg	2.2	1
Chloroethane	ND		ug/kg	2.2	1
1,1-Dichloroethene	ND		ug/kg	1.1	1
trans-1,2-Dichloroethene	ND		ug/kg	1.6	1
Trichloroethene	ND		ug/kg	1.1	1
1,2-Dichlorobenzene	ND		ug/kg	5.5	1
1,3-Dichlorobenzene	ND		ug/kg	5.5	1

Project Name: RAYTHEON-WAYLAND

Lab Number: L0811944

Project Number: 0079387

Report Date: 08/20/08

SAMPLE RESULTS

Lab ID: L0811944-07

Date Collected: 08/12/08 13:10

Client ID: IW-8A-20080812-01

Date Received: 08/13/08

Sample Location: WAYLAND, MA

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B/5035-Soil Analysis					
1,4-Dichlorobenzene	ND		ug/kg	5.5	1
Methyl tert butyl ether	ND		ug/kg	2.2	1
p/m-Xylene	ND		ug/kg	2.2	1
o-Xylene	ND		ug/kg	2.2	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	1
Dibromomethane	ND		ug/kg	11	1
1,2,3-Trichloropropane	ND		ug/kg	11	1
Styrene	ND		ug/kg	2.2	1
Dichlorodifluoromethane	ND		ug/kg	11	1
Acetone	ND		ug/kg	11	1
Carbon disulfide	ND		ug/kg	55	1
2-Butanone	ND		ug/kg	11	1
4-Methyl-2-pentanone	ND		ug/kg	11	1
2-Hexanone	ND		ug/kg	11	1
Bromochloromethane	ND		ug/kg	5.5	1
Tetrahydrofuran	ND		ug/kg	22	1
2,2-Dichloropropane	ND		ug/kg	5.5	1
1,2-Dibromoethane	ND		ug/kg	4.4	1
1,3-Dichloropropane	ND		ug/kg	5.5	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.1	1
Bromobenzene	ND		ug/kg	5.5	1
n-Butylbenzene	ND		ug/kg	1.1	1
sec-Butylbenzene	ND		ug/kg	1.1	1
tert-Butylbenzene	ND		ug/kg	5.5	1
o-Chlorotoluene	ND		ug/kg	5.5	1
p-Chlorotoluene	ND		ug/kg	5.5	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.5	1
Hexachlorobutadiene	ND		ug/kg	5.5	1
Isopropylbenzene	ND		ug/kg	1.1	1
p-Isopropyltoluene	ND		ug/kg	1.1	1
Naphthalene	ND		ug/kg	5.5	1
n-Propylbenzene	ND		ug/kg	1.1	1
1,2,3-Trichlorobenzene	ND		ug/kg	5.5	1
1,2,4-Trichlorobenzene	ND		ug/kg	5.5	1
1,3,5-Trimethylbenzene	ND		ug/kg	5.5	1
1,2,4-Trimethylbenzene	ND		ug/kg	5.5	1
Ethyl ether	ND		ug/kg	5.5	1

Project Name: RAYTHEON-WAYLAND**Lab Number:** L0811944**Project Number:** 0079387**Report Date:** 08/20/08**SAMPLE RESULTS**

Lab ID: L0811944-07

Date Collected: 08/12/08 13:10

Client ID: IW-8A-20080812-01

Date Received: 08/13/08

Sample Location: WAYLAND, MA

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B/5035-Soil Analysis					
Isopropyl Ether	ND		ug/kg	4.4	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	4.4	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	4.4	1
1,4-Dioxane	ND		ug/kg	550	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	119		70-130
Toluene-d8	113		70-130
4-Bromofluorobenzene	133		70-130
Dibromofluoromethane	103		70-130

Project Name: RAYTHEON-WAYLAND**Lab Number:** L0811944**Project Number:** 0079387**Report Date:** 08/20/08**SAMPLE RESULTS**

Lab ID: L0811944-08
 Client ID: IW-8B-20080812-01
 Sample Location: WAYLAND, MA
 Matrix: Soil
 Analytical Method: 60,8260B
 Analytical Date: 08/15/08 16:31
 Analyst: PD
 Percent Solids: 68%

Date Collected: 08/12/08 13:50
 Date Received: 08/13/08
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B/5035-Soil Analysis					
Methylene chloride	ND		ug/kg	14	1
1,1-Dichloroethane	ND		ug/kg	2.1	1
Chloroform	ND		ug/kg	2.1	1
Carbon tetrachloride	ND		ug/kg	1.4	1
1,2-Dichloropropane	ND		ug/kg	4.8	1
Dibromochloromethane	ND		ug/kg	1.4	1
1,1,2-Trichloroethane	ND		ug/kg	2.1	1
Tetrachloroethene	ND		ug/kg	1.4	1
Chlorobenzene	ND		ug/kg	1.4	1
Trichlorofluoromethane	ND		ug/kg	6.9	1
1,2-Dichloroethane	ND		ug/kg	1.4	1
1,1,1-Trichloroethane	ND		ug/kg	1.4	1
Bromodichloromethane	ND		ug/kg	1.4	1
trans-1,3-Dichloropropene	ND		ug/kg	1.4	1
cis-1,3-Dichloropropene	ND		ug/kg	1.4	1
1,1-Dichloropropene	ND		ug/kg	6.9	1
Bromoform	ND		ug/kg	5.5	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.4	1
Benzene	ND		ug/kg	1.4	1
Toluene	ND		ug/kg	2.1	1
Ethylbenzene	ND		ug/kg	1.4	1
Chloromethane	ND		ug/kg	6.9	1
Bromomethane	ND		ug/kg	2.8	1
Vinyl chloride	ND		ug/kg	2.8	1
Chloroethane	ND		ug/kg	2.8	1
1,1-Dichloroethene	ND		ug/kg	1.4	1
trans-1,2-Dichloroethene	ND		ug/kg	2.1	1
Trichloroethene	ND		ug/kg	1.4	1
1,2-Dichlorobenzene	ND		ug/kg	6.9	1
1,3-Dichlorobenzene	ND		ug/kg	6.9	1

Project Name: RAYTHEON-WAYLAND

Lab Number: L0811944

Project Number: 0079387

Report Date: 08/20/08

SAMPLE RESULTS

Lab ID: L0811944-08

Date Collected: 08/12/08 13:50

Client ID: IW-8B-20080812-01

Date Received: 08/13/08

Sample Location: WAYLAND, MA

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B/5035-Soil Analysis					
1,4-Dichlorobenzene	ND		ug/kg	6.9	1
Methyl tert butyl ether	ND		ug/kg	2.8	1
p/m-Xylene	ND		ug/kg	2.8	1
o-Xylene	ND		ug/kg	2.8	1
cis-1,2-Dichloroethene	ND		ug/kg	1.4	1
Dibromomethane	ND		ug/kg	14	1
1,2,3-Trichloropropane	ND		ug/kg	14	1
Styrene	ND		ug/kg	2.8	1
Dichlorodifluoromethane	ND		ug/kg	14	1
Acetone	ND		ug/kg	14	1
Carbon disulfide	ND		ug/kg	69	1
2-Butanone	ND		ug/kg	14	1
4-Methyl-2-pentanone	ND		ug/kg	14	1
2-Hexanone	ND		ug/kg	14	1
Bromochloromethane	ND		ug/kg	6.9	1
Tetrahydrofuran	ND		ug/kg	28	1
2,2-Dichloropropane	ND		ug/kg	6.9	1
1,2-Dibromoethane	ND		ug/kg	5.5	1
1,3-Dichloropropane	ND		ug/kg	6.9	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.4	1
Bromobenzene	ND		ug/kg	6.9	1
n-Butylbenzene	ND		ug/kg	1.4	1
sec-Butylbenzene	ND		ug/kg	1.4	1
tert-Butylbenzene	ND		ug/kg	6.9	1
o-Chlorotoluene	ND		ug/kg	6.9	1
p-Chlorotoluene	ND		ug/kg	6.9	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	6.9	1
Hexachlorobutadiene	ND		ug/kg	6.9	1
Isopropylbenzene	ND		ug/kg	1.4	1
p-Isopropyltoluene	ND		ug/kg	1.4	1
Naphthalene	ND		ug/kg	6.9	1
n-Propylbenzene	ND		ug/kg	1.4	1
1,2,3-Trichlorobenzene	ND		ug/kg	6.9	1
1,2,4-Trichlorobenzene	ND		ug/kg	6.9	1
1,3,5-Trimethylbenzene	ND		ug/kg	6.9	1
1,2,4-Trimethylbenzene	ND		ug/kg	6.9	1
Ethyl ether	ND		ug/kg	6.9	1

Project Name: RAYTHEON-WAYLAND**Lab Number:** L0811944**Project Number:** 0079387**Report Date:** 08/20/08**SAMPLE RESULTS**

Lab ID: L0811944-08

Date Collected: 08/12/08 13:50

Client ID: IW-8B-20080812-01

Date Received: 08/13/08

Sample Location: WAYLAND, MA

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B/5035-Soil Analysis					
Isopropyl Ether	ND		ug/kg	5.5	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	5.5	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	5.5	1
1,4-Dioxane	ND		ug/kg	690	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	108		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	114		70-130
Dibromofluoromethane	89		70-130

Project Name: RAYTHEON-WAYLAND**Lab Number:** L0811944**Project Number:** 0079387**Report Date:** 08/20/08**SAMPLE RESULTS**

Lab ID: L0811944-09
 Client ID: IW-9B-20080813-01
 Sample Location: WAYLAND, MA
 Matrix: Soil
 Analytical Method: 60,8260B
 Analytical Date: 08/15/08 17:07
 Analyst: PD
 Percent Solids: 71%

Date Collected: 08/12/08 14:00
 Date Received: 08/13/08
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B/5035-Soil Analysis					
Methylene chloride	ND		ug/kg	13	1
1,1-Dichloroethane	ND		ug/kg	2.0	1
Chloroform	ND		ug/kg	2.0	1
Carbon tetrachloride	ND		ug/kg	1.3	1
1,2-Dichloropropane	ND		ug/kg	4.6	1
Dibromochloromethane	ND		ug/kg	1.3	1
1,1,2-Trichloroethane	ND		ug/kg	2.0	1
Tetrachloroethene	ND		ug/kg	1.3	1
Chlorobenzene	ND		ug/kg	1.3	1
Trichlorofluoromethane	ND		ug/kg	6.5	1
1,2-Dichloroethane	ND		ug/kg	1.3	1
1,1,1-Trichloroethane	ND		ug/kg	1.3	1
Bromodichloromethane	ND		ug/kg	1.3	1
trans-1,3-Dichloropropene	ND		ug/kg	1.3	1
cis-1,3-Dichloropropene	ND		ug/kg	1.3	1
1,1-Dichloropropene	ND		ug/kg	6.5	1
Bromoform	ND		ug/kg	5.2	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.3	1
Benzene	ND		ug/kg	1.3	1
Toluene	ND		ug/kg	2.0	1
Ethylbenzene	ND		ug/kg	1.3	1
Chloromethane	ND		ug/kg	6.5	1
Bromomethane	ND		ug/kg	2.6	1
Vinyl chloride	ND		ug/kg	2.6	1
Chloroethane	ND		ug/kg	2.6	1
1,1-Dichloroethene	ND		ug/kg	1.3	1
trans-1,2-Dichloroethene	ND		ug/kg	2.0	1
Trichloroethene	ND		ug/kg	1.3	1
1,2-Dichlorobenzene	ND		ug/kg	6.5	1
1,3-Dichlorobenzene	ND		ug/kg	6.5	1

Project Name: RAYTHEON-WAYLAND

Lab Number: L0811944

Project Number: 0079387

Report Date: 08/20/08

SAMPLE RESULTS

Lab ID: L0811944-09

Date Collected: 08/12/08 14:00

Client ID: IW-9B-20080813-01

Date Received: 08/13/08

Sample Location: WAYLAND, MA

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B/5035-Soil Analysis					
1,4-Dichlorobenzene	ND		ug/kg	6.5	1
Methyl tert butyl ether	ND		ug/kg	2.6	1
p/m-Xylene	ND		ug/kg	2.6	1
o-Xylene	ND		ug/kg	2.6	1
cis-1,2-Dichloroethene	ND		ug/kg	1.3	1
Dibromomethane	ND		ug/kg	13	1
1,2,3-Trichloropropane	ND		ug/kg	13	1
Styrene	ND		ug/kg	2.6	1
Dichlorodifluoromethane	ND		ug/kg	13	1
Acetone	ND		ug/kg	13	1
Carbon disulfide	ND		ug/kg	65	1
2-Butanone	ND		ug/kg	13	1
4-Methyl-2-pentanone	ND		ug/kg	13	1
2-Hexanone	ND		ug/kg	13	1
Bromochloromethane	ND		ug/kg	6.5	1
Tetrahydrofuran	ND		ug/kg	26	1
2,2-Dichloropropane	ND		ug/kg	6.5	1
1,2-Dibromoethane	ND		ug/kg	5.2	1
1,3-Dichloropropane	ND		ug/kg	6.5	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.3	1
Bromobenzene	ND		ug/kg	6.5	1
n-Butylbenzene	ND		ug/kg	1.3	1
sec-Butylbenzene	ND		ug/kg	1.3	1
tert-Butylbenzene	ND		ug/kg	6.5	1
o-Chlorotoluene	ND		ug/kg	6.5	1
p-Chlorotoluene	ND		ug/kg	6.5	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	6.5	1
Hexachlorobutadiene	ND		ug/kg	6.5	1
Isopropylbenzene	ND		ug/kg	1.3	1
p-Isopropyltoluene	ND		ug/kg	1.3	1
Naphthalene	ND		ug/kg	6.5	1
n-Propylbenzene	ND		ug/kg	1.3	1
1,2,3-Trichlorobenzene	ND		ug/kg	6.5	1
1,2,4-Trichlorobenzene	ND		ug/kg	6.5	1
1,3,5-Trimethylbenzene	ND		ug/kg	6.5	1
1,2,4-Trimethylbenzene	ND		ug/kg	6.5	1
Ethyl ether	ND		ug/kg	6.5	1

Project Name: RAYTHEON-WAYLAND**Lab Number:** L0811944**Project Number:** 0079387**Report Date:** 08/20/08**SAMPLE RESULTS**

Lab ID: L0811944-09

Date Collected: 08/12/08 14:00

Client ID: IW-9B-20080813-01

Date Received: 08/13/08

Sample Location: WAYLAND, MA

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B/5035-Soil Analysis					
Isopropyl Ether	ND		ug/kg	5.2	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	5.2	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	5.2	1
1,4-Dioxane	ND		ug/kg	650	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	125		70-130
Toluene-d8	115		70-130
4-Bromofluorobenzene	129		70-130
Dibromofluoromethane	102		70-130

Project Name: RAYTHEON-WAYLAND**Lab Number:** L0811944**Project Number:** 0079387**Report Date:** 08/20/08**SAMPLE RESULTS**

Lab ID:	L0811944-10	Date Collected:	08/11/08 11:22
Client ID:	TB-001-20080813-01+TB-002-2008	Date Received:	08/13/08
Sample Location:	WAYLAND, MA	Field Prep:	Not Specified
Matrix:	Soil		
Analytical Method:	60,8260B		
Analytical Date:	08/20/08 12:10		
Analyst:	BN		
Percent Solids:	Results are reported on an 'AS RECEIVED' basis.		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B/5035-Soil Analysis					
Methylene chloride	ND		ug/kg	500	1
1,1-Dichloroethane	ND		ug/kg	75	1
Chloroform	ND		ug/kg	75	1
Carbon tetrachloride	ND		ug/kg	50	1
1,2-Dichloropropane	ND		ug/kg	180	1
Dibromochloromethane	ND		ug/kg	50	1
1,1,2-Trichloroethane	ND		ug/kg	75	1
Tetrachloroethene	ND		ug/kg	50	1
Chlorobenzene	ND		ug/kg	50	1
Trichlorofluoromethane	ND		ug/kg	250	1
1,2-Dichloroethane	ND		ug/kg	50	1
1,1,1-Trichloroethane	ND		ug/kg	50	1
Bromodichloromethane	ND		ug/kg	50	1
trans-1,3-Dichloropropene	ND		ug/kg	50	1
cis-1,3-Dichloropropene	ND		ug/kg	50	1
1,1-Dichloropropene	ND		ug/kg	250	1
Bromoform	ND		ug/kg	200	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	50	1
Benzene	ND		ug/kg	50	1
Toluene	ND		ug/kg	75	1
Ethylbenzene	ND		ug/kg	50	1
Chloromethane	ND		ug/kg	250	1
Bromomethane	ND		ug/kg	100	1
Vinyl chloride	ND		ug/kg	100	1
Chloroethane	ND		ug/kg	100	1
1,1-Dichloroethene	ND		ug/kg	50	1
trans-1,2-Dichloroethene	ND		ug/kg	75	1
Trichloroethene	ND		ug/kg	50	1
1,2-Dichlorobenzene	ND		ug/kg	250	1
1,3-Dichlorobenzene	ND		ug/kg	250	1

Project Name: RAYTHEON-WAYLAND

Lab Number: L0811944

Project Number: 0079387

Report Date: 08/20/08

SAMPLE RESULTS

Lab ID: L0811944-10

Date Collected: 08/11/08 11:22

Client ID: TB-001-20080813-01+TB-002-2008

Date Received: 08/13/08

Sample Location: WAYLAND, MA

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B/5035-Soil Analysis					
1,4-Dichlorobenzene	ND		ug/kg	250	1
Methyl tert butyl ether	ND		ug/kg	100	1
p/m-Xylene	ND		ug/kg	100	1
o-Xylene	ND		ug/kg	100	1
cis-1,2-Dichloroethene	ND		ug/kg	50	1
Dibromomethane	ND		ug/kg	500	1
1,2,3-Trichloropropane	ND		ug/kg	500	1
Styrene	ND		ug/kg	100	1
Dichlorodifluoromethane	ND		ug/kg	500	1
Acetone	ND		ug/kg	500	1
Carbon disulfide	ND		ug/kg	2500	1
2-Butanone	ND		ug/kg	500	1
4-Methyl-2-pentanone	ND		ug/kg	500	1
2-Hexanone	ND		ug/kg	500	1
Bromochloromethane	ND		ug/kg	250	1
Tetrahydrofuran	ND		ug/kg	1000	1
2,2-Dichloropropane	ND		ug/kg	250	1
1,2-Dibromoethane	ND		ug/kg	200	1
1,3-Dichloropropane	ND		ug/kg	250	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	50	1
Bromobenzene	ND		ug/kg	250	1
n-Butylbenzene	ND		ug/kg	50	1
sec-Butylbenzene	ND		ug/kg	50	1
tert-Butylbenzene	ND		ug/kg	250	1
o-Chlorotoluene	ND		ug/kg	250	1
p-Chlorotoluene	ND		ug/kg	250	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	250	1
Hexachlorobutadiene	ND		ug/kg	250	1
Isopropylbenzene	ND		ug/kg	50	1
p-Isopropyltoluene	ND		ug/kg	50	1
Naphthalene	ND		ug/kg	250	1
n-Propylbenzene	ND		ug/kg	50	1
1,2,3-Trichlorobenzene	ND		ug/kg	250	1
1,2,4-Trichlorobenzene	ND		ug/kg	250	1
1,3,5-Trimethylbenzene	ND		ug/kg	250	1
1,2,4-Trimethylbenzene	ND		ug/kg	250	1
Ethyl ether	ND		ug/kg	250	1

Project Name: RAYTHEON-WAYLAND**Lab Number:** L0811944**Project Number:** 0079387**Report Date:** 08/20/08**SAMPLE RESULTS**

Lab ID: L0811944-10

Date Collected: 08/11/08 11:22

Client ID: TB-001-20080813-01+TB-002-2008

Date Received: 08/13/08

Sample Location: WAYLAND, MA

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B/5035-Soil Analysis					
Isopropyl Ether	ND		ug/kg	200	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	200	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	200	1
1,4-Dioxane	ND		ug/kg	25000	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	106		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	99		70-130

Project Name: RAYTHEON-WAYLAND
Project Number: 0079387

Lab Number: L0811944
Report Date: 08/20/08

Method Blank Analysis
Batch Quality Control

Analytical Method: 60,8260B
Analytical Date: 08/15/08 10:54
Analyst: PD

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by MCP 8260B/5035-Soil Analysis for sample(s): 01-09 Batch: WG332718-3				
Methylene chloride	ND		ug/kg	10
1,1-Dichloroethane	ND		ug/kg	1.5
Chloroform	ND		ug/kg	1.5
Carbon tetrachloride	ND		ug/kg	1.0
1,2-Dichloropropane	ND		ug/kg	3.5
Dibromochloromethane	ND		ug/kg	1.0
1,1,2-Trichloroethane	ND		ug/kg	1.5
Tetrachloroethene	ND		ug/kg	1.0
Chlorobenzene	ND		ug/kg	1.0
Trichlorofluoromethane	ND		ug/kg	5.0
1,2-Dichloroethane	ND		ug/kg	1.0
1,1,1-Trichloroethane	ND		ug/kg	1.0
Bromodichloromethane	ND		ug/kg	1.0
trans-1,3-Dichloropropene	ND		ug/kg	1.0
cis-1,3-Dichloropropene	ND		ug/kg	1.0
1,1-Dichloropropene	ND		ug/kg	5.0
Bromoform	ND		ug/kg	4.0
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.0
Benzene	ND		ug/kg	1.0
Toluene	ND		ug/kg	1.5
Ethylbenzene	ND		ug/kg	1.0
Chloromethane	ND		ug/kg	5.0
Bromomethane	ND		ug/kg	2.0
Vinyl chloride	ND		ug/kg	2.0
Chloroethane	ND		ug/kg	2.0
1,1-Dichloroethene	ND		ug/kg	1.0
trans-1,2-Dichloroethene	ND		ug/kg	1.5
Trichloroethene	ND		ug/kg	1.0
1,2-Dichlorobenzene	ND		ug/kg	5.0
1,3-Dichlorobenzene	ND		ug/kg	5.0
1,4-Dichlorobenzene	ND		ug/kg	5.0

Project Name: RAYTHEON-WAYLAND
Project Number: 0079387

Lab Number: L0811944
Report Date: 08/20/08

Method Blank Analysis
Batch Quality Control

Analytical Method: 60,8260B
Analytical Date: 08/15/08 10:54
Analyst: PD

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by MCP 8260B/5035-Soil Analysis for sample(s): 01-09 Batch: WG332718-3				
Methyl tert butyl ether	ND		ug/kg	2.0
p/m-Xylene	ND		ug/kg	2.0
o-Xylene	ND		ug/kg	2.0
cis-1,2-Dichloroethene	ND		ug/kg	1.0
Dibromomethane	ND		ug/kg	10
1,2,3-Trichloropropane	ND		ug/kg	10
Styrene	ND		ug/kg	2.0
Dichlorodifluoromethane	ND		ug/kg	10
Acetone	ND		ug/kg	10
Carbon disulfide	ND		ug/kg	50
2-Butanone	ND		ug/kg	10
4-Methyl-2-pentanone	ND		ug/kg	10
2-Hexanone	ND		ug/kg	10
Bromochloromethane	ND		ug/kg	5.0
Tetrahydrofuran	ND		ug/kg	20
2,2-Dichloropropane	ND		ug/kg	5.0
1,2-Dibromoethane	ND		ug/kg	4.0
1,3-Dichloropropane	ND		ug/kg	5.0
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.0
Bromobenzene	ND		ug/kg	5.0
n-Butylbenzene	ND		ug/kg	1.0
sec-Butylbenzene	ND		ug/kg	1.0
tert-Butylbenzene	ND		ug/kg	5.0
o-Chlorotoluene	ND		ug/kg	5.0
p-Chlorotoluene	ND		ug/kg	5.0
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.0
Hexachlorobutadiene	ND		ug/kg	5.0
Isopropylbenzene	ND		ug/kg	1.0
p-Isopropyltoluene	ND		ug/kg	1.0
Naphthalene	ND		ug/kg	5.0
n-Propylbenzene	ND		ug/kg	1.0

Project Name: RAYTHEON-WAYLAND
Project Number: 0079387

Lab Number: L0811944
Report Date: 08/20/08

Method Blank Analysis
Batch Quality Control

Analytical Method: 60,8260B
Analytical Date: 08/15/08 10:54
Analyst: PD

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by MCP 8260B/5035-Soil Analysis for sample(s): 01-09 Batch: WG332718-3				
1,2,3-Trichlorobenzene	ND		ug/kg	5.0
1,2,4-Trichlorobenzene	ND		ug/kg	5.0
1,3,5-Trimethylbenzene	ND		ug/kg	5.0
1,2,4-Trimethylbenzene	ND		ug/kg	5.0
Ethyl ether	ND		ug/kg	5.0
Isopropyl Ether	ND		ug/kg	4.0
Ethyl-Tert-Butyl-Ether	ND		ug/kg	4.0
Tertiary-Amyl Methyl Ether	ND		ug/kg	4.0
1,4-Dioxane	ND		ug/kg	500

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	117		70-130
Toluene-d8	118		70-130
4-Bromofluorobenzene	129		70-130
Dibromofluoromethane	105		70-130

Project Name: RAYTHEON-WAYLAND
Project Number: 0079387

Lab Number: L0811944
Report Date: 08/20/08

Method Blank Analysis
Batch Quality Control

Analytical Method: 60,8260B
Analytical Date: 08/20/08 09:12
Analyst: BN

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by MCP 8260B/5035-Soil Analysis for sample(s): 10 Batch: WG333051-9				
Methylene chloride	ND		ug/kg	500
1,1-Dichloroethane	ND		ug/kg	75
Chloroform	ND		ug/kg	75
Carbon tetrachloride	ND		ug/kg	50
1,2-Dichloropropane	ND		ug/kg	180
Dibromochloromethane	ND		ug/kg	50
1,1,2-Trichloroethane	ND		ug/kg	75
Tetrachloroethene	ND		ug/kg	50
Chlorobenzene	ND		ug/kg	50
Trichlorofluoromethane	ND		ug/kg	250
1,2-Dichloroethane	ND		ug/kg	50
1,1,1-Trichloroethane	ND		ug/kg	50
Bromodichloromethane	ND		ug/kg	50
trans-1,3-Dichloropropene	ND		ug/kg	50
cis-1,3-Dichloropropene	ND		ug/kg	50
1,1-Dichloropropene	ND		ug/kg	250
Bromoform	ND		ug/kg	200
1,1,2,2-Tetrachloroethane	ND		ug/kg	50
Benzene	ND		ug/kg	50
Toluene	ND		ug/kg	75
Ethylbenzene	ND		ug/kg	50
Chloromethane	ND		ug/kg	250
Bromomethane	ND		ug/kg	100
Vinyl chloride	ND		ug/kg	100
Chloroethane	ND		ug/kg	100
1,1-Dichloroethene	ND		ug/kg	50
trans-1,2-Dichloroethene	ND		ug/kg	75
Trichloroethene	ND		ug/kg	50
1,2-Dichlorobenzene	ND		ug/kg	250
1,3-Dichlorobenzene	ND		ug/kg	250
1,4-Dichlorobenzene	ND		ug/kg	250

Project Name: RAYTHEON-WAYLAND
Project Number: 0079387

Lab Number: L0811944
Report Date: 08/20/08

Method Blank Analysis
Batch Quality Control

Analytical Method: 60,8260B
Analytical Date: 08/20/08 09:12
Analyst: BN

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by MCP 8260B/5035-Soil Analysis for sample(s): 10 Batch: WG333051-9				
Methyl tert butyl ether	ND		ug/kg	100
p/m-Xylene	ND		ug/kg	100
o-Xylene	ND		ug/kg	100
cis-1,2-Dichloroethene	ND		ug/kg	50
Dibromomethane	ND		ug/kg	500
1,2,3-Trichloropropane	ND		ug/kg	500
Styrene	ND		ug/kg	100
Dichlorodifluoromethane	ND		ug/kg	500
Acetone	ND		ug/kg	500
Carbon disulfide	ND		ug/kg	2500
2-Butanone	ND		ug/kg	500
4-Methyl-2-pentanone	ND		ug/kg	500
2-Hexanone	ND		ug/kg	500
Bromochloromethane	ND		ug/kg	250
Tetrahydrofuran	ND		ug/kg	1000
2,2-Dichloropropane	ND		ug/kg	250
1,2-Dibromoethane	ND		ug/kg	200
1,3-Dichloropropane	ND		ug/kg	250
1,1,1,2-Tetrachloroethane	ND		ug/kg	50
Bromobenzene	ND		ug/kg	250
n-Butylbenzene	ND		ug/kg	50
sec-Butylbenzene	ND		ug/kg	50
tert-Butylbenzene	ND		ug/kg	250
o-Chlorotoluene	ND		ug/kg	250
p-Chlorotoluene	ND		ug/kg	250
1,2-Dibromo-3-chloropropane	ND		ug/kg	250
Hexachlorobutadiene	ND		ug/kg	250
Isopropylbenzene	ND		ug/kg	50
p-Isopropyltoluene	ND		ug/kg	50
Naphthalene	ND		ug/kg	250
n-Propylbenzene	ND		ug/kg	50

Project Name: RAYTHEON-WAYLAND
Project Number: 0079387

Lab Number: L0811944
Report Date: 08/20/08

Method Blank Analysis
Batch Quality Control

Analytical Method: 60,8260B
Analytical Date: 08/20/08 09:12
Analyst: BN

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by MCP 8260B/5035-Soil Analysis for sample(s): 10 Batch: WG333051-9				
1,2,3-Trichlorobenzene	ND		ug/kg	250
1,2,4-Trichlorobenzene	ND		ug/kg	250
1,3,5-Trimethylbenzene	ND		ug/kg	250
1,2,4-Trimethylbenzene	ND		ug/kg	250
Ethyl ether	ND		ug/kg	250
Isopropyl Ether	ND		ug/kg	200
Ethyl-Tert-Butyl-Ether	ND		ug/kg	200
Tertiary-Amyl Methyl Ether	ND		ug/kg	200
1,4-Dioxane	ND		ug/kg	25000

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	115		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	107		70-130
Dibromofluoromethane	108		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: RAYTHEON-WAYLAND

Lab Number: L0811944

Project Number: 0079387

Report Date: 08/20/08

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B/5035-Soil Analysis Associated sample(s): 01-09 Batch: WG332718-1 WG332718-2					
Methylene chloride	89	100	70-130	12	25
1,1-Dichloroethane	100	117	70-130	16	25
Chloroform	93	110	70-130	17	25
Carbon tetrachloride	83	96	70-130	15	25
1,2-Dichloropropane	97	116	70-130	18	25
Dibromochloromethane	79	97	70-130	20	25
1,1,2-Trichloroethane	98	118	70-130	19	25
Tetrachloroethene	87	102	70-130	16	25
Chlorobenzene	93	111	70-130	18	25
Trichlorofluoromethane	103	122	70-130	17	25
1,2-Dichloroethane	104	123	70-130	17	25
1,1,1-Trichloroethane	90	105	70-130	15	25
Bromodichloromethane	90	108	70-130	18	25
trans-1,3-Dichloropropene	89	108	70-130	19	25
cis-1,3-Dichloropropene	90	108	70-130	18	25
1,1-Dichloropropene	95	113	70-130	17	25
Bromoform	70	86	70-130	21	50
1,1,2,2-Tetrachloroethane	102	121	70-130	17	25
Benzene	91	108	70-130	17	25
Toluene	92	110	70-130	18	25
Ethylbenzene	98	118	70-130	19	25

Lab Control Sample Analysis

Batch Quality Control

Project Name: RAYTHEON-WAYLAND

Lab Number: L0811944

Project Number: 0079387

Report Date: 08/20/08

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B/5035-Soil Analysis Associated sample(s): 01-09 Batch: WG332718-1 WG332718-2					
Chloromethane	86	99	70-130	14	50
Bromomethane	95	114	70-130	18	50
Vinyl chloride	100	113	70-130	12	25
Chloroethane	101	119	70-130	16	25
1,1-Dichloroethene	101	118	70-130	16	25
trans-1,2-Dichloroethene	88	105	70-130	18	25
Trichloroethene	87	103	70-130	17	25
1,2-Dichlorobenzene	92	109	70-130	17	25
1,3-Dichlorobenzene	94	110	70-130	16	25
1,4-Dichlorobenzene	93	112	70-130	19	25
Methyl tert butyl ether	87	97	70-130	11	25
p/m-Xylene	95	115	70-130	19	25
o-Xylene	94	109	70-130	15	25
cis-1,2-Dichloroethene	87	103	70-130	17	25
Dibromomethane	92	109	70-130	17	25
1,2,3-Trichloropropane	116	137	70-130	17	25
Styrene	93	109	70-130	16	25
Dichlorodifluoromethane	70	83	70-130	17	50
Acetone	98	110	70-130	12	50
Carbon disulfide	93	111	70-130	18	25
2-Butanone	100	118	70-130	17	50

Lab Control Sample Analysis

Batch Quality Control

Project Name: RAYTHEON-WAYLAND

Lab Number: L0811944

Project Number: 0079387

Report Date: 08/20/08

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B/5035-Soil Analysis Associated sample(s): 01-09 Batch: WG332718-1 WG332718-2					
4-Methyl-2-pentanone	97	120	70-130	21	50
2-Hexanone	110	128	70-130	15	50
Bromochloromethane	87	100	70-130	14	25
Tetrahydrofuran	90	107	70-130	17	25
2,2-Dichloropropane	93	110	70-130	17	50
1,2-Dibromoethane	91	109	70-130	18	25
1,3-Dichloropropane	102	120	70-130	16	25
1,1,1,2-Tetrachloroethane	80	97	70-130	19	25
Bromobenzene	88	106	70-130	19	25
n-Butylbenzene	105	126	70-130	18	25
sec-Butylbenzene	102	121	70-130	17	25
tert-Butylbenzene	98	116	70-130	17	25
o-Chlorotoluene	101	121	70-130	18	25
p-Chlorotoluene	102	122	70-130	18	25
1,2-Dibromo-3-chloropropane	92	107	70-130	15	50
Hexachlorobutadiene	78	90	70-130	14	25
Isopropylbenzene	114	136	70-130	18	25
p-Isopropyltoluene	102	123	70-130	19	25
Naphthalene	85	95	70-130	11	25
n-Propylbenzene	106	127	70-130	18	25
1,2,3-Trichlorobenzene	86	97	70-130	12	25

Lab Control Sample Analysis

Batch Quality Control

Project Name: RAYTHEON-WAYLAND

Lab Number: L0811944

Project Number: 0079387

Report Date: 08/20/08

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B/5035-Soil Analysis Associated sample(s): 01-09 Batch: WG332718-1 WG332718-2					
1,2,4-Trichlorobenzene	86	98	70-130	13	25
1,3,5-Trimethylbenzene	98	119	70-130	19	25
1,2,4-Trimethylbenzene	98	116	70-130	17	25
Ethyl ether	90	102	70-130	13	25
Isopropyl Ether	90	103	70-130	13	25
Ethyl-Tert-Butyl-Ether	88	99	70-130	12	25
Tertiary-Amyl Methyl Ether	80	92	70-130	14	25
1,4-Dioxane	98	109	70-130	11	50

Surrogate	LCS %Recovery	Qualifier	LCSD %Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	118		106		70-130
Toluene-d8	111		101		70-130
4-Bromofluorobenzene	113		102		70-130
Dibromofluoromethane	106		95		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: RAYTHEON-WAYLAND

Lab Number: L0811944

Project Number: 0079387

Report Date: 08/20/08

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B/5035-Soil Analysis Associated sample(s): 10 Batch: WG333051-7 WG333051-8					
Methylene chloride	95	100	70-130	5	25
1,1-Dichloroethane	93	94	70-130	1	25
Chloroform	91	94	70-130	3	25
Carbon tetrachloride	87	89	70-130	2	25
1,2-Dichloropropane	95	96	70-130	1	25
Dibromochloromethane	94	90	70-130	4	25
1,1,2-Trichloroethane	95	94	70-130	1	25
Tetrachloroethene	83	88	70-130	6	25
Chlorobenzene	89	90	70-130	1	25
Trichlorofluoromethane	92	98	70-130	6	25
1,2-Dichloroethane	95	96	70-130	1	25
1,1,1-Trichloroethane	89	92	70-130	3	25
Bromodichloromethane	92	95	70-130	3	25
trans-1,3-Dichloropropene	98	96	70-130	2	25
cis-1,3-Dichloropropene	96	99	70-130	3	25
1,1-Dichloropropene	91	93	70-130	2	25
Bromoform	89	88	70-130	1	50
1,1,2,2-Tetrachloroethane	99	95	70-130	4	25
Benzene	92	94	70-130	2	25
Toluene	88	90	70-130	2	25
Ethylbenzene	89	91	70-130	2	25

Lab Control Sample Analysis

Batch Quality Control

Project Name: RAYTHEON-WAYLAND

Lab Number: L0811944

Project Number: 0079387

Report Date: 08/20/08

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B/5035-Soil Analysis Associated sample(s): 10 Batch: WG333051-7 WG333051-8					
Chloromethane	86	89	70-130	3	50
Bromomethane	92	87	70-130	6	50
Vinyl chloride	92	92	70-130	0	25
Chloroethane	92	92	70-130	0	25
1,1-Dichloroethene	90	95	70-130	5	25
trans-1,2-Dichloroethene	90	92	70-130	2	25
Trichloroethene	90	91	70-130	1	25
1,2-Dichlorobenzene	90	91	70-130	1	25
1,3-Dichlorobenzene	87	90	70-130	3	25
1,4-Dichlorobenzene	88	90	70-130	2	25
Methyl tert butyl ether	94	90	70-130	4	25
p/m-Xylene	90	91	70-130	1	25
o-Xylene	91	93	70-130	2	25
cis-1,2-Dichloroethene	91	92	70-130	1	25
Dibromomethane	99	92	70-130	7	25
1,2,3-Trichloropropane	105	105	70-130	0	25
Styrene	92	93	70-130	1	25
Dichlorodifluoromethane	88	90	70-130	2	50
Acetone	87	106	70-130	20	50
Carbon disulfide	70	73	70-130	4	25
2-Butanone	112	104	70-130	7	50

Lab Control Sample Analysis

Batch Quality Control

Project Name: RAYTHEON-WAYLAND

Lab Number: L0811944

Project Number: 0079387

Report Date: 08/20/08

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B/5035-Soil Analysis Associated sample(s): 10 Batch: WG333051-7 WG333051-8					
4-Methyl-2-pentanone	116	108	70-130	7	50
2-Hexanone	108	104	70-130	4	50
Bromochloromethane	93	93	70-130	0	25
Tetrahydrofuran	96	91	70-130	5	25
2,2-Dichloropropane	95	94	70-130	1	50
1,2-Dibromoethane	95	94	70-130	1	25
1,3-Dichloropropane	95	94	70-130	1	25
1,1,1,2-Tetrachloroethane	94	90	70-130	4	25
Bromobenzene	88	90	70-130	2	25
n-Butylbenzene	90	94	70-130	4	25
sec-Butylbenzene	89	92	70-130	3	25
tert-Butylbenzene	87	91	70-130	4	25
o-Chlorotoluene	90	89	70-130	1	25
p-Chlorotoluene	92	94	70-130	2	25
1,2-Dibromo-3-chloropropane	94	92	70-130	2	50
Hexachlorobutadiene	81	86	70-130	6	25
Isopropylbenzene	108	111	70-130	3	25
p-Isopropyltoluene	92	96	70-130	4	25
Naphthalene	91	88	70-130	3	25
n-Propylbenzene	90	92	70-130	2	25
1,2,3-Trichlorobenzene	90	90	70-130	0	25

Lab Control Sample Analysis

Batch Quality Control

Project Name: RAYTHEON-WAYLAND

Lab Number: L0811944

Project Number: 0079387

Report Date: 08/20/08

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B/5035-Soil Analysis Associated sample(s): 10 Batch: WG333051-7 WG333051-8					
1,2,4-Trichlorobenzene	90	91	70-130	1	25
1,3,5-Trimethylbenzene	89	92	70-130	3	25
1,2,4-Trimethylbenzene	91	92	70-130	1	25
Ethyl ether	78	78	70-130	0	25
Isopropyl Ether	91	90	70-130	1	25
Ethyl-Tert-Butyl-Ether	99	96	70-130	3	25
Tertiary-Amyl Methyl Ether	97	94	70-130	3	25
1,4-Dioxane	108	104	70-130	4	50

Surrogate	LCS %Recovery	Qualifier	LCSD %Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	112		109		70-130
Toluene-d8	106		102		70-130
4-Bromofluorobenzene	106		104		70-130
Dibromofluoromethane	108		100		70-130

INORGANICS & MISCELLANEOUS

Project Name: RAYTHEON-WAYLAND**Lab Number:** L0811944**Project Number:** 0079387**Report Date:** 08/20/08**SAMPLE RESULTS**

Lab ID: L0811944-01
Client ID: IW-9A-20080813-01
Sample Location: WAYLAND, MA
Matrix: Soil

Date Collected: 08/13/08 10:30
Date Received: 08/13/08
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry									
Solids, Total	84		%	0.10	1	-	08/16/08 13:10	30,2540G	ST



Project Name: RAYTHEON-WAYLAND

Lab Number: L0811944

Project Number: 0079387

Report Date: 08/20/08

SAMPLE RESULTS

Lab ID: L0811944-02
 Client ID: IW-6B-20080812-01
 Sample Location: WAYLAND, MA
 Matrix: Soil

Date Collected: 08/12/08 10:00
 Date Received: 08/13/08
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry									
Solids, Total	72		%	0.10	1	-	08/16/08 13:10	30,2540G	ST



Project Name: RAYTHEON-WAYLAND**Lab Number:** L0811944**Project Number:** 0079387**Report Date:** 08/20/08**SAMPLE RESULTS**

Lab ID: L0811944-03
Client ID: IW-6A-20080812-01
Sample Location: WAYLAND, MA
Matrix: Soil

Date Collected: 08/12/08 09:50
Date Received: 08/13/08
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry									
Solids, Total	73		%	0.10	1	-	08/16/08 13:10	30,2540G	ST



Project Name: RAYTHEON-WAYLAND**Lab Number:** L0811944**Project Number:** 0079387**Report Date:** 08/20/08**SAMPLE RESULTS**

Lab ID: L0811944-04
Client ID: IW-3A-20080812-01
Sample Location: WAYLAND, MA
Matrix: Soil

Date Collected: 08/12/08 09:30
Date Received: 08/13/08
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry									
Solids, Total	62		%	0.10	1	-	08/16/08 13:10	30,2540G	ST



Project Name: RAYTHEON-WAYLAND**Lab Number:** L0811944**Project Number:** 0079387**Report Date:** 08/20/08**SAMPLE RESULTS**

Lab ID: L0811944-05
Client ID: IW-7A-20080812-01
Sample Location: WAYLAND, MA
Matrix: Soil

Date Collected: 08/12/08 09:30
Date Received: 08/13/08
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry									
Solids, Total	75		%	0.10	1	-	08/16/08 13:10	30,2540G	ST



Project Name: RAYTHEON-WAYLAND

Lab Number: L0811944

Project Number: 0079387

Report Date: 08/20/08

SAMPLE RESULTS

Lab ID: L0811944-06
 Client ID: IW-7B-20080812-01
 Sample Location: WAYLAND, MA
 Matrix: Soil

Date Collected: 08/12/08 13:00
 Date Received: 08/13/08
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry									
Solids, Total	76		%	0.10	1	-	08/16/08 13:10	30,2540G	ST



Project Name: RAYTHEON-WAYLAND**Lab Number:** L0811944**Project Number:** 0079387**Report Date:** 08/20/08**SAMPLE RESULTS**

Lab ID: L0811944-07
Client ID: IW-8A-20080812-01
Sample Location: WAYLAND, MA
Matrix: Soil

Date Collected: 08/12/08 13:10
Date Received: 08/13/08
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry									
Solids, Total	88		%	0.10	1	-	08/16/08 13:10	30,2540G	ST



Project Name: RAYTHEON-WAYLAND

Lab Number: L0811944

Project Number: 0079387

Report Date: 08/20/08

SAMPLE RESULTS

Lab ID: L0811944-08
 Client ID: IW-8B-20080812-01
 Sample Location: WAYLAND, MA
 Matrix: Soil

Date Collected: 08/12/08 13:50
 Date Received: 08/13/08
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry									
Solids, Total	68		%	0.10	1	-	08/16/08 13:10	30,2540G	ST



Project Name: RAYTHEON-WAYLAND

Lab Number: L0811944

Project Number: 0079387

Report Date: 08/20/08

SAMPLE RESULTS

Lab ID: L0811944-09
 Client ID: IW-9B-20080813-01
 Sample Location: WAYLAND, MA
 Matrix: Soil

Date Collected: 08/12/08 14:00
 Date Received: 08/13/08
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry									
Solids, Total	71		%	0.10	1	-	08/16/08 13:10	30,2540G	ST



Lab Duplicate Analysis
Batch Quality Control

Project Name: RAYTHEON-WAYLAND

Project Number: 0079387

Lab Number: L0811944

Report Date: 08/20/08

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Associated sample(s): 01-09 QC Batch ID: WG332833-1 QC Sample: L0812007-04 Client ID: DUP Sample					
Solids, Total	90	89	%	1	20

Project Name: RAYTHEON-WAYLAND

Lab Number: L0811944

Project Number: 0079387

Report Date: 08/20/08

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp	Pres	Seal	Analysis
L0811944-01A	Vial MeOH preserved	A	N/A	4.0C	Y	Absent	MCP-8260HLW(14)
L0811944-01B	Vial water preserved	A	N/A	4.0C	Y	Absent	MCP-8260HLW(14)
L0811944-01C	Vial water preserved	A	N/A	4.0C	Y	Absent	MCP-8260HLW(14)
L0811944-01D	Plastic 2oz unpreserved for TS	A	N/A	4.0C	Y	Absent	TS(7)
L0811944-02A	Vial MeOH preserved	A	N/A	4.0C	Y	Absent	MCP-8260HLW(14)
L0811944-02B	Vial water preserved	A	N/A	4.0C	Y	Absent	MCP-8260HLW(14)
L0811944-02C	Vial water preserved	A	N/A	4.0C	Y	Absent	MCP-8260HLW(14)
L0811944-02D	Plastic 2oz unpreserved for TS	A	N/A	4.0C	Y	Absent	TS(7)
L0811944-03A	Vial MeOH preserved	A	N/A	4.0C	Y	Absent	MCP-8260HLW(14)
L0811944-03B	Vial water preserved	A	N/A	4.0C	Y	Absent	MCP-8260HLW(14)
L0811944-03C	Vial water preserved	A	N/A	4.0C	Y	Absent	MCP-8260HLW(14)
L0811944-03D	Plastic 2oz unpreserved for TS	A	N/A	4.0C	Y	Absent	TS(7)
L0811944-04A	Vial MeOH preserved	A	N/A	4.0C	Y	Absent	MCP-8260HLW(14)
L0811944-04B	Vial water preserved	A	N/A	4.0C	Y	Absent	MCP-8260HLW(14)
L0811944-04C	Vial water preserved	A	N/A	4.0C	Y	Absent	MCP-8260HLW(14)
L0811944-04D	Plastic 2oz unpreserved for TS	A	N/A	4.0C	Y	Absent	TS(7)
L0811944-05A	Vial MeOH preserved	A	N/A	4.0C	Y	Absent	MCP-8260HLW(14)
L0811944-05B	Vial water preserved	A	N/A	4.0C	Y	Absent	MCP-8260HLW(14)
L0811944-05C	Vial water preserved	A	N/A	4.0C	Y	Absent	MCP-8260HLW(14)
L0811944-05D	Plastic 2oz unpreserved for TS	A	N/A	4.0C	Y	Absent	TS(7)
L0811944-06A	Vial MeOH preserved	A	N/A	4.0C	Y	Absent	MCP-8260HLW(14)
L0811944-06B	Vial water preserved	A	N/A	4.0C	Y	Absent	MCP-8260HLW(14)
L0811944-06C	Vial water preserved	A	N/A	4.0C	Y	Absent	MCP-8260HLW(14)
L0811944-06D	Plastic 2oz unpreserved for TS	A	N/A	4.0C	Y	Absent	TS(7)
L0811944-07A	Vial MeOH preserved	A	N/A	4.0C	Y	Absent	MCP-8260HLW(14)
L0811944-07B	Vial water preserved	A	N/A	4.0C	Y	Absent	MCP-8260HLW(14)
L0811944-07C	Vial water preserved	A	N/A	4.0C	Y	Absent	MCP-8260HLW(14)
L0811944-07D	Plastic 2oz unpreserved for TS	A	N/A	4.0C	Y	Absent	TS(7)
L0811944-08A	Vial MeOH preserved	A	N/A	4.0C	Y	Absent	MCP-8260HLW(14)
L0811944-08B	Vial water preserved	A	N/A	4.0C	Y	Absent	MCP-8260HLW(14)

*Hold days indicated by values in parentheses

Project Name: RAYTHEON-WAYLAND**Project Number:** 0079387**Lab Number:** L0811944**Report Date:** 08/20/08**Container Information**

Container ID	Container Type	Cooler	pH	Temp	Pres	Seal	Analysis
L0811944-08C	Vial water preserved	A	N/A	4.0C	Y	Absent	MCP-8260HLW(14)
L0811944-08D	Plastic 2oz unpreserved for TS	A	N/A	4.0C	Y	Absent	TS(7)
L0811944-09A	Vial MeOH preserved	A	N/A	4.0C	Y	Absent	MCP-8260HLW(14)
L0811944-09B	Vial water preserved	A	N/A	4.0C	Y	Absent	MCP-8260HLW(14)
L0811944-09C	Vial water preserved	A	N/A	4.0C	Y	Absent	MCP-8260HLW(14)
L0811944-09D	Plastic 2oz unpreserved for TS	A	N/A	4.0C	Y	Absent	TS(7)
L0811944-10A	Vial MeOH preserved	A	N/A	4.0C	Y	Absent	MCP-8260HLW(14)
L0811944-10B	Vial water preserved	A	N/A	4.0C	Y	Absent	MCP-8260HLW(14)

*Hold days indicated by values in parentheses



Project Name: RAYTHEON-WAYLAND
Project Number: 0079387

Lab Number: L0811944
Report Date: 08/20/08

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.

Project Name: RAYTHEON-WAYLAND
Project Number: 0079387

Lab Number: L0811944
Report Date: 08/20/08

REFERENCES

- 30 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.
- 60 Quality Assurance and Quality Control Requirements and Performance Standards for SW-846 Methods. MADEP BWSC. WSC-CAM-IIA (Revision 4), WSC-CAM-V C (Revision 2), WSC-CAM-IIIA (Revision 5). May 2004.

LIMITATION OF LIABILITIES

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

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



CHAIN OF CUSTODY



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

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

Client Information

Client: **ERM - Boston**

Address: **399 Baylston 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

Other Project Specific Requirements/Comments/Detection Limits:

Project Information

Project Name: **Raytheon - Maryland**

Project Location: **Maryland, MA**

Project #: **0679387**

Project Manager: **Jason Flattery**

ALPHA Quote #:

Turn-Around Time

Standard

RUSH (only confirmed if pre-approved)

Date Due: **8/26/08**

Time:

Date Rec'd in Lab: **8/13/08**

Report Information - Data Deliverables

FAX

EMAIL

GADEx

Add'l Deliverables

Regulatory Requirements/Report Limits

State / Fed Program

MCP

MA MCP PRESUMPTIVE CERTAINTY --- CT REASONABLE CONFIDENCE PROTOCOLS

Alpha Job #: **Log11944**

Billing Information

PO #:

Same as Client info

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

11944	- 01 IW-9A-20080813-01	8/13/08	1030	S	EW	1	2	1
	- 02 IW-6B-20080812-01	8/12/08	1000	S	BM	1	2	1
	- 03 IW-6A-20080812-01	8/12/08	0950	S	BM	1	2	1
	- 04 IW-3A-20080812-01	8/12/08	0930	S	BM	1	2	1
	- 05 IW-7A-20080812-01	8/12/08	1300	S	BM	1	2	1
	- 06 IW-7B-20080812-01	8/12/08	1310	S	EW	1	2	1
	- 07 IW-8A-20080812-01	8/12/08	1350	S	BM	1	2	1
	- 08 IW-8B-20080812-01	8/12/08	1400	S	BM	1	2	1
	- 09 IW-9B-20080813-01	8/13/08	1100	S	EW	1	2	1
	- 10 TB001-20080813-01	8/11/08	11:22	S	ZP	1	1	1

ANALYSIS	Yes	No	Are MCP Analytical Methods Required?	Are CT RCP (Reasonable Confidence Protocols) Required?	SAMPLE HANDLING
VOC 8260 High	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> Done
VOC 8260 Low	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/> Not needed
Total Solids	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> Lab to do
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> Preservation
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> Lab to do
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	(Please specify below)
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Sample Specific Comments

PLEASE ANSWER QUESTIONS ABOVE!

Container Type	Preservative
V	V
F	A

IS YOUR PROJECT MA MCP or CT RCP?

Relinquished By: **[Signature]** Date/Time: **08/13/08 13:30**

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

Received By: **[Signature]** Date/Time: **8/13/08 13:30**

Received By: **[Signature]** Date/Time: **8/13/08 13:40**

Received By: **[Signature]** Date/Time: **8/13/08 13:30**

Received By: **[Signature]** Date/Time: **8/13/08 13:40**

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.

EMAIL PLEASE

CHAIN OF CUSTODY

PAGE 2 of 2



Westborough, MA Mansfield, MA
 TEL: 508-898-9220 TEL: 508-822-9300
 FAX: 508-898-9193 FAX: 508-822-3288

Project Information

Project Name: WAYMON WAYMOND
 Project Location: WAYMOND, MA
 Project #: 0079387
 Project Manager: JASON FLATTERY
 ALPHA Quote #:
 Turn-Around Time

Client Information

Client: ERM-New England
 Address: 399 Boylston Street, 6th Floor
 Boston, MA 02116
 Phone: 617-267-8377
 Fax: 617-267-6447
 Email: JASON.FLATTERY@ERM.COM

Due Date: 8/20/05 Time:
 These samples have been previously analyzed by Alpha
 Standard Rush (ONLY IF PRE-APPROVED)
 Other Project Specific Requirements/Comments/Detection Limits:

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

<u>11944 - 10</u>	<u>TR-002-20080813-01</u>	<u>8/11/05</u>	<u>11:35</u>	<u>S</u>	<u>ZP</u>
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Date Rec'd in Lab: 8/13/05

Report Information

Report Information Data Deliverables
 FAX EMAIL
 ADEX Add'l Deliverables

Regulatory/Requirements/Report Limits

State/Fed Program: MCP1
 Criteria:

MCP PRESUMPTIVE CERTAINTY-CT REASONABLE CONFIDENCE PROTOCOLS

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

ANALYSIS

<u>VOC 8260 HIGH</u>									
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- SAMPLE HANDLING**
- Filtration
 - Done
 - Not Needed
 - Lab to do
 - Lab to do
 - Lab to do
- (Please specify below)

Sample Specific Comments

PLEASE ANSWER QUESTIONS ABOVE!

Container Type	<u>V</u>
Preservative	<u>H₂O</u>

Relinquished By:

[Signature]

Date/Time

8/13/05 13:30

Received By:

Don Smith

Date/Time

8/13/05 13:50

IS YOUR PROJECT MA MCP OR CT RCP?

FORM NO. 01-0110
REV. 30-JUL-07

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.



ANALYTICAL REPORT

Lab Number:	L0811820
Client:	ERM-New England 399 Boylston Street 6th Floor Boston, MA 02116
ATTN:	Jason Flattery
Project Name:	RAYTHEON-WAYLAND
Project Number:	0079387
Report Date:	08/15/08

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-WAYLAND
Project Number: 0079387

Lab Number: L0811820
Report Date: 08/15/08

Alpha Sample ID	Client ID	Sample Location
L0811820-01	IW-01-A-20080812-01	WAYLAND, MA
L0811820-02	IW-01-B-20080812-01	WAYLAND, MA
L0811820-03	IW-02-A-20080812-01	WAYLAND, MA
L0811820-04	IW-02-B-20080812-01	WAYLAND, MA
L0811820-05	IW-03-B-20080812-01	WAYLAND, MA
L0811820-06	TB-001-20080812-01	WAYLAND, MA
L0811820-07	TB-002-20080812-01	WAYLAND, MA

Project Name: RAYTHEON-WAYLAND

Lab Number: L0811820

Project Number: 0079387

Report Date: 08/15/08

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 method(s) included in this report followed, including the requirement to note and discuss in a narrative QC data that did not meet appropriate performance standards or guidelines?	YES
C	Does the analytical data included in this report meet all the requirements for "Presumptive Certainty", as described in section 2.0 of the MADEP document CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	YES
D	VPH and EPH methods only: Was the VPH or EPH method run without significant modifications, as specified in Section 11.3?	N/A
A response to questions E and F is required for "Presumptive Certainty" status		
E	Were all QC performance standards and recommendations for the specified method(s) achieved?	NO
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-WAYLAND
Project Number: 0079387

Lab Number: L0811820
Report Date: 08/15/08

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.

MCP Related Narratives

Volatile Organics

L0811820-03: The Acetone concentration should be considered estimated because it exceeded the level of calibration. This analyte was not present in high level soil screen analysis.

In reference to question E:

The surrogate recovery for L0811820-01 and -02 is below the acceptance criteria for Dibromofluoromethane (5% and 4%, respectively), due to the basic nature of these samples (pH = 12).

The WG332606-2 LCSD recovery, associated with L0811820-01 through -06, is below the acceptance criteria for Dichlorodifluoromethane (64%); however, it has been identified as a "difficult" analyte. The results of the associated samples are reported; however, all results are considered to have a potentially low bias for this compound.

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: 08/15/08

ORGANICS

VOLATILES

Project Name: RAYTHEON-WAYLAND**Lab Number:** L0811820**Project Number:** 0079387**Report Date:** 08/15/08**SAMPLE RESULTS**

Lab ID: L0811820-01
 Client ID: IW-01-A-20080812-01
 Sample Location: WAYLAND, MA
 Matrix: Soil
 Analytical Method: 60,8260B
 Analytical Date: 08/14/08 12:22
 Analyst: PD
 Percent Solids: 66%

Date Collected: 08/12/08 09:00
 Date Received: 08/12/08
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B/5035-Soil Analysis					
Methylene chloride	ND		ug/kg	14	1
1,1-Dichloroethane	ND		ug/kg	2.1	1
Chloroform	ND		ug/kg	2.1	1
Carbon tetrachloride	ND		ug/kg	1.4	1
1,2-Dichloropropane	ND		ug/kg	5.0	1
Dibromochloromethane	ND		ug/kg	1.4	1
1,1,2-Trichloroethane	ND		ug/kg	2.1	1
Tetrachloroethene	ND		ug/kg	1.4	1
Chlorobenzene	ND		ug/kg	1.4	1
Trichlorofluoromethane	ND		ug/kg	7.1	1
1,2-Dichloroethane	ND		ug/kg	1.4	1
1,1,1-Trichloroethane	ND		ug/kg	1.4	1
Bromodichloromethane	ND		ug/kg	1.4	1
trans-1,3-Dichloropropene	ND		ug/kg	1.4	1
cis-1,3-Dichloropropene	ND		ug/kg	1.4	1
1,1-Dichloropropene	ND		ug/kg	7.1	1
Bromoform	ND		ug/kg	5.7	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.4	1
Benzene	ND		ug/kg	1.4	1
Toluene	ND		ug/kg	2.1	1
Ethylbenzene	ND		ug/kg	1.4	1
Chloromethane	ND		ug/kg	7.1	1
Bromomethane	ND		ug/kg	2.8	1
Vinyl chloride	ND		ug/kg	2.8	1
Chloroethane	ND		ug/kg	2.8	1
1,1-Dichloroethene	ND		ug/kg	1.4	1
trans-1,2-Dichloroethene	ND		ug/kg	2.1	1
Trichloroethene	ND		ug/kg	1.4	1
1,2-Dichlorobenzene	ND		ug/kg	7.1	1
1,3-Dichlorobenzene	ND		ug/kg	7.1	1

Project Name: RAYTHEON-WAYLAND

Lab Number: L0811820

Project Number: 0079387

Report Date: 08/15/08

SAMPLE RESULTS

Lab ID: L0811820-01
 Client ID: IW-01-A-20080812-01
 Sample Location: WAYLAND, MA

Date Collected: 08/12/08 09:00
 Date Received: 08/12/08
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B/5035-Soil Analysis					
1,4-Dichlorobenzene	ND		ug/kg	7.1	1
Methyl tert butyl ether	ND		ug/kg	2.8	1
p/m-Xylene	ND		ug/kg	2.8	1
o-Xylene	ND		ug/kg	2.8	1
cis-1,2-Dichloroethene	ND		ug/kg	1.4	1
Dibromomethane	ND		ug/kg	14	1
1,2,3-Trichloropropane	ND		ug/kg	14	1
Styrene	ND		ug/kg	2.8	1
Dichlorodifluoromethane	ND		ug/kg	14	1
Acetone	57		ug/kg	14	1
Carbon disulfide	ND		ug/kg	71	1
2-Butanone	ND		ug/kg	14	1
4-Methyl-2-pentanone	ND		ug/kg	14	1
2-Hexanone	ND		ug/kg	14	1
Bromochloromethane	ND		ug/kg	7.1	1
Tetrahydrofuran	ND		ug/kg	28	1
2,2-Dichloropropane	ND		ug/kg	7.1	1
1,2-Dibromoethane	ND		ug/kg	5.7	1
1,3-Dichloropropane	ND		ug/kg	7.1	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.4	1
Bromobenzene	ND		ug/kg	7.1	1
n-Butylbenzene	ND		ug/kg	1.4	1
sec-Butylbenzene	ND		ug/kg	1.4	1
tert-Butylbenzene	ND		ug/kg	7.1	1
o-Chlorotoluene	ND		ug/kg	7.1	1
p-Chlorotoluene	ND		ug/kg	7.1	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	7.1	1
Hexachlorobutadiene	ND		ug/kg	7.1	1
Isopropylbenzene	ND		ug/kg	1.4	1
p-Isopropyltoluene	3.1		ug/kg	1.4	1
Naphthalene	ND		ug/kg	7.1	1
n-Propylbenzene	ND		ug/kg	1.4	1
1,2,3-Trichlorobenzene	ND		ug/kg	7.1	1
1,2,4-Trichlorobenzene	ND		ug/kg	7.1	1
1,3,5-Trimethylbenzene	ND		ug/kg	7.1	1
1,2,4-Trimethylbenzene	ND		ug/kg	7.1	1
Ethyl ether	ND		ug/kg	7.1	1

Project Name: RAYTHEON-WAYLAND**Lab Number:** L0811820**Project Number:** 0079387**Report Date:** 08/15/08**SAMPLE RESULTS**

Lab ID: L0811820-01

Date Collected: 08/12/08 09:00

Client ID: IW-01-A-20080812-01

Date Received: 08/12/08

Sample Location: WAYLAND, MA

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B/5035-Soil Analysis					
Isopropyl Ether	ND		ug/kg	5.7	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	5.7	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	5.7	1
1,4-Dioxane	ND		ug/kg	710	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	115		70-130
Toluene-d8	106		70-130
4-Bromofluorobenzene	118		70-130
Dibromofluoromethane	5		70-130

Project Name: RAYTHEON-WAYLAND**Lab Number:** L0811820**Project Number:** 0079387**Report Date:** 08/15/08**SAMPLE RESULTS**

Lab ID: L0811820-02
 Client ID: IW-01-B-20080812-01
 Sample Location: WAYLAND, MA
 Matrix: Soil
 Analytical Method: 60,8260B
 Analytical Date: 08/14/08 12:59
 Analyst: PD
 Percent Solids: 66%

Date Collected: 08/12/08 09:10
 Date Received: 08/12/08
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B/5035-Soil Analysis					
Methylene chloride	ND		ug/kg	14	1
1,1-Dichloroethane	ND		ug/kg	2.2	1
Chloroform	ND		ug/kg	2.2	1
Carbon tetrachloride	ND		ug/kg	1.4	1
1,2-Dichloropropane	ND		ug/kg	5.1	1
Dibromochloromethane	ND		ug/kg	1.4	1
1,1,2-Trichloroethane	ND		ug/kg	2.2	1
Tetrachloroethene	ND		ug/kg	1.4	1
Chlorobenzene	ND		ug/kg	1.4	1
Trichlorofluoromethane	ND		ug/kg	7.3	1
1,2-Dichloroethane	ND		ug/kg	1.4	1
1,1,1-Trichloroethane	ND		ug/kg	1.4	1
Bromodichloromethane	ND		ug/kg	1.4	1
trans-1,3-Dichloropropene	ND		ug/kg	1.4	1
cis-1,3-Dichloropropene	ND		ug/kg	1.4	1
1,1-Dichloropropene	ND		ug/kg	7.3	1
Bromoform	ND		ug/kg	5.8	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.4	1
Benzene	ND		ug/kg	1.4	1
Toluene	ND		ug/kg	2.2	1
Ethylbenzene	ND		ug/kg	1.4	1
Chloromethane	ND		ug/kg	7.3	1
Bromomethane	ND		ug/kg	2.9	1
Vinyl chloride	ND		ug/kg	2.9	1
Chloroethane	ND		ug/kg	2.9	1
1,1-Dichloroethene	ND		ug/kg	1.4	1
trans-1,2-Dichloroethene	ND		ug/kg	2.2	1
Trichloroethene	1.6		ug/kg	1.4	1
1,2-Dichlorobenzene	ND		ug/kg	7.3	1
1,3-Dichlorobenzene	ND		ug/kg	7.3	1

Project Name: RAYTHEON-WAYLAND

Lab Number: L0811820

Project Number: 0079387

Report Date: 08/15/08

SAMPLE RESULTS

Lab ID: L0811820-02
 Client ID: IW-01-B-20080812-01
 Sample Location: WAYLAND, MA

Date Collected: 08/12/08 09:10
 Date Received: 08/12/08
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B/5035-Soil Analysis					
1,4-Dichlorobenzene	ND		ug/kg	7.3	1
Methyl tert butyl ether	ND		ug/kg	2.9	1
p/m-Xylene	ND		ug/kg	2.9	1
o-Xylene	ND		ug/kg	2.9	1
cis-1,2-Dichloroethene	1.7		ug/kg	1.4	1
Dibromomethane	ND		ug/kg	14	1
1,2,3-Trichloropropane	ND		ug/kg	14	1
Styrene	ND		ug/kg	2.9	1
Dichlorodifluoromethane	ND		ug/kg	14	1
Acetone	58		ug/kg	14	1
Carbon disulfide	ND		ug/kg	73	1
2-Butanone	ND		ug/kg	14	1
4-Methyl-2-pentanone	ND		ug/kg	14	1
2-Hexanone	ND		ug/kg	14	1
Bromochloromethane	ND		ug/kg	7.3	1
Tetrahydrofuran	ND		ug/kg	29	1
2,2-Dichloropropane	ND		ug/kg	7.3	1
1,2-Dibromoethane	ND		ug/kg	5.8	1
1,3-Dichloropropane	ND		ug/kg	7.3	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.4	1
Bromobenzene	ND		ug/kg	7.3	1
n-Butylbenzene	ND		ug/kg	1.4	1
sec-Butylbenzene	ND		ug/kg	1.4	1
tert-Butylbenzene	ND		ug/kg	7.3	1
o-Chlorotoluene	ND		ug/kg	7.3	1
p-Chlorotoluene	ND		ug/kg	7.3	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	7.3	1
Hexachlorobutadiene	ND		ug/kg	7.3	1
Isopropylbenzene	ND		ug/kg	1.4	1
p-Isopropyltoluene	2.2		ug/kg	1.4	1
Naphthalene	ND		ug/kg	7.3	1
n-Propylbenzene	ND		ug/kg	1.4	1
1,2,3-Trichlorobenzene	ND		ug/kg	7.3	1
1,2,4-Trichlorobenzene	ND		ug/kg	7.3	1
1,3,5-Trimethylbenzene	ND		ug/kg	7.3	1
1,2,4-Trimethylbenzene	ND		ug/kg	7.3	1
Ethyl ether	ND		ug/kg	7.3	1

Project Name: RAYTHEON-WAYLAND**Lab Number:** L0811820**Project Number:** 0079387**Report Date:** 08/15/08**SAMPLE RESULTS**

Lab ID: L0811820-02
 Client ID: IW-01-B-20080812-01
 Sample Location: WAYLAND, MA

Date Collected: 08/12/08 09:10
 Date Received: 08/12/08
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B/5035-Soil Analysis					
Isopropyl Ether	ND		ug/kg	5.8	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	5.8	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	5.8	1
1,4-Dioxane	ND		ug/kg	730	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	108		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	112		70-130
Dibromofluoromethane	4		70-130

Project Name: RAYTHEON-WAYLAND**Lab Number:** L0811820**Project Number:** 0079387**Report Date:** 08/15/08**SAMPLE RESULTS**

Lab ID: L0811820-03
 Client ID: IW-02-A-20080812-01
 Sample Location: WAYLAND, MA
 Matrix: Soil
 Analytical Method: 60,8260B
 Analytical Date: 08/14/08 13:36
 Analyst: PD
 Percent Solids: 72%

Date Collected: 08/12/08 09:15
 Date Received: 08/12/08
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B/5035-Soil Analysis					
Methylene chloride	ND		ug/kg	12	1
1,1-Dichloroethane	ND		ug/kg	1.8	1
Chloroform	ND		ug/kg	1.8	1
Carbon tetrachloride	ND		ug/kg	1.2	1
1,2-Dichloropropane	ND		ug/kg	4.3	1
Dibromochloromethane	ND		ug/kg	1.2	1
1,1,2-Trichloroethane	ND		ug/kg	1.8	1
Tetrachloroethene	ND		ug/kg	1.2	1
Chlorobenzene	ND		ug/kg	1.2	1
Trichlorofluoromethane	ND		ug/kg	6.1	1
1,2-Dichloroethane	ND		ug/kg	1.2	1
1,1,1-Trichloroethane	ND		ug/kg	1.2	1
Bromodichloromethane	ND		ug/kg	1.2	1
trans-1,3-Dichloropropene	ND		ug/kg	1.2	1
cis-1,3-Dichloropropene	ND		ug/kg	1.2	1
1,1-Dichloropropene	ND		ug/kg	6.1	1
Bromoform	ND		ug/kg	4.9	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.2	1
Benzene	ND		ug/kg	1.2	1
Toluene	ND		ug/kg	1.8	1
Ethylbenzene	ND		ug/kg	1.2	1
Chloromethane	ND		ug/kg	6.1	1
Bromomethane	ND		ug/kg	2.4	1
Vinyl chloride	ND		ug/kg	2.4	1
Chloroethane	ND		ug/kg	2.4	1
1,1-Dichloroethene	ND		ug/kg	1.2	1
trans-1,2-Dichloroethene	ND		ug/kg	1.8	1
Trichloroethene	ND		ug/kg	1.2	1
1,2-Dichlorobenzene	ND		ug/kg	6.1	1
1,3-Dichlorobenzene	ND		ug/kg	6.1	1

Project Name: RAYTHEON-WAYLAND

Lab Number: L0811820

Project Number: 0079387

Report Date: 08/15/08

SAMPLE RESULTS

Lab ID: L0811820-03
 Client ID: IW-02-A-20080812-01
 Sample Location: WAYLAND, MA

Date Collected: 08/12/08 09:15
 Date Received: 08/12/08
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B/5035-Soil Analysis					
1,4-Dichlorobenzene	ND		ug/kg	6.1	1
Methyl tert butyl ether	ND		ug/kg	2.4	1
p/m-Xylene	ND		ug/kg	2.4	1
o-Xylene	ND		ug/kg	2.4	1
cis-1,2-Dichloroethene	ND		ug/kg	1.2	1
Dibromomethane	ND		ug/kg	12	1
1,2,3-Trichloropropane	ND		ug/kg	12	1
Styrene	ND		ug/kg	2.4	1
Dichlorodifluoromethane	ND		ug/kg	12	1
Acetone	290	E	ug/kg	12	1
Carbon disulfide	ND		ug/kg	61	1
2-Butanone	ND		ug/kg	12	1
4-Methyl-2-pentanone	ND		ug/kg	12	1
2-Hexanone	ND		ug/kg	12	1
Bromochloromethane	ND		ug/kg	6.1	1
Tetrahydrofuran	ND		ug/kg	24	1
2,2-Dichloropropane	ND		ug/kg	6.1	1
1,2-Dibromoethane	ND		ug/kg	4.9	1
1,3-Dichloropropane	ND		ug/kg	6.1	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.2	1
Bromobenzene	ND		ug/kg	6.1	1
n-Butylbenzene	ND		ug/kg	1.2	1
sec-Butylbenzene	ND		ug/kg	1.2	1
tert-Butylbenzene	ND		ug/kg	6.1	1
o-Chlorotoluene	ND		ug/kg	6.1	1
p-Chlorotoluene	ND		ug/kg	6.1	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	6.1	1
Hexachlorobutadiene	ND		ug/kg	6.1	1
Isopropylbenzene	ND		ug/kg	1.2	1
p-Isopropyltoluene	12		ug/kg	1.2	1
Naphthalene	ND		ug/kg	6.1	1
n-Propylbenzene	ND		ug/kg	1.2	1
1,2,3-Trichlorobenzene	ND		ug/kg	6.1	1
1,2,4-Trichlorobenzene	ND		ug/kg	6.1	1
1,3,5-Trimethylbenzene	ND		ug/kg	6.1	1
1,2,4-Trimethylbenzene	ND		ug/kg	6.1	1
Ethyl ether	ND		ug/kg	6.1	1

Project Name: RAYTHEON-WAYLAND**Lab Number:** L0811820**Project Number:** 0079387**Report Date:** 08/15/08**SAMPLE RESULTS**

Lab ID: L0811820-03
 Client ID: IW-02-A-20080812-01
 Sample Location: WAYLAND, MA

Date Collected: 08/12/08 09:15
 Date Received: 08/12/08
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B/5035-Soil Analysis					
Isopropyl Ether	ND		ug/kg	4.9	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	4.9	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	4.9	1
1,4-Dioxane	ND		ug/kg	610	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	115		70-130
Toluene-d8	110		70-130
4-Bromofluorobenzene	124		70-130
Dibromofluoromethane	103		70-130

Project Name: RAYTHEON-WAYLAND**Lab Number:** L0811820**Project Number:** 0079387**Report Date:** 08/15/08**SAMPLE RESULTS**

Lab ID: L0811820-04
 Client ID: IW-02-B-20080812-01
 Sample Location: WAYLAND, MA
 Matrix: Soil
 Analytical Method: 60,8260B
 Analytical Date: 08/14/08 14:13
 Analyst: PD
 Percent Solids: 74%

Date Collected: 08/12/08 09:20
 Date Received: 08/12/08
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B/5035-Soil Analysis					
Methylene chloride	ND		ug/kg	9.1	1
1,1-Dichloroethane	ND		ug/kg	1.4	1
Chloroform	ND		ug/kg	1.4	1
Carbon tetrachloride	ND		ug/kg	0.91	1
1,2-Dichloropropane	ND		ug/kg	3.2	1
Dibromochloromethane	ND		ug/kg	0.91	1
1,1,2-Trichloroethane	ND		ug/kg	1.4	1
Tetrachloroethene	ND		ug/kg	0.91	1
Chlorobenzene	ND		ug/kg	0.91	1
Trichlorofluoromethane	ND		ug/kg	4.6	1
1,2-Dichloroethane	ND		ug/kg	0.91	1
1,1,1-Trichloroethane	ND		ug/kg	0.91	1
Bromodichloromethane	ND		ug/kg	0.91	1
trans-1,3-Dichloropropene	ND		ug/kg	0.91	1
cis-1,3-Dichloropropene	ND		ug/kg	0.91	1
1,1-Dichloropropene	ND		ug/kg	4.6	1
Bromoform	ND		ug/kg	3.6	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.91	1
Benzene	ND		ug/kg	0.91	1
Toluene	ND		ug/kg	1.4	1
Ethylbenzene	ND		ug/kg	0.91	1
Chloromethane	ND		ug/kg	4.6	1
Bromomethane	ND		ug/kg	1.8	1
Vinyl chloride	ND		ug/kg	1.8	1
Chloroethane	ND		ug/kg	1.8	1
1,1-Dichloroethene	ND		ug/kg	0.91	1
trans-1,2-Dichloroethene	ND		ug/kg	1.4	1
Trichloroethene	ND		ug/kg	0.91	1
1,2-Dichlorobenzene	ND		ug/kg	4.6	1
1,3-Dichlorobenzene	ND		ug/kg	4.6	1

Project Name: RAYTHEON-WAYLAND

Lab Number: L0811820

Project Number: 0079387

Report Date: 08/15/08

SAMPLE RESULTS

Lab ID: L0811820-04
 Client ID: IW-02-B-20080812-01
 Sample Location: WAYLAND, MA

Date Collected: 08/12/08 09:20
 Date Received: 08/12/08
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B/5035-Soil Analysis					
1,4-Dichlorobenzene	ND		ug/kg	4.6	1
Methyl tert butyl ether	ND		ug/kg	1.8	1
p/m-Xylene	ND		ug/kg	1.8	1
o-Xylene	ND		ug/kg	1.8	1
cis-1,2-Dichloroethene	ND		ug/kg	0.91	1
Dibromomethane	ND		ug/kg	9.1	1
1,2,3-Trichloropropane	ND		ug/kg	9.1	1
Styrene	ND		ug/kg	1.8	1
Dichlorodifluoromethane	ND		ug/kg	9.1	1
Acetone	62		ug/kg	9.1	1
Carbon disulfide	ND		ug/kg	46	1
2-Butanone	ND		ug/kg	9.1	1
4-Methyl-2-pentanone	ND		ug/kg	9.1	1
2-Hexanone	ND		ug/kg	9.1	1
Bromochloromethane	ND		ug/kg	4.6	1
Tetrahydrofuran	ND		ug/kg	18	1
2,2-Dichloropropane	ND		ug/kg	4.6	1
1,2-Dibromoethane	ND		ug/kg	3.6	1
1,3-Dichloropropane	ND		ug/kg	4.6	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.91	1
Bromobenzene	ND		ug/kg	4.6	1
n-Butylbenzene	ND		ug/kg	0.91	1
sec-Butylbenzene	ND		ug/kg	0.91	1
tert-Butylbenzene	ND		ug/kg	4.6	1
o-Chlorotoluene	ND		ug/kg	4.6	1
p-Chlorotoluene	ND		ug/kg	4.6	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	4.6	1
Hexachlorobutadiene	ND		ug/kg	4.6	1
Isopropylbenzene	ND		ug/kg	0.91	1
p-Isopropyltoluene	ND		ug/kg	0.91	1
Naphthalene	ND		ug/kg	4.6	1
n-Propylbenzene	ND		ug/kg	0.91	1
1,2,3-Trichlorobenzene	ND		ug/kg	4.6	1
1,2,4-Trichlorobenzene	ND		ug/kg	4.6	1
1,3,5-Trimethylbenzene	ND		ug/kg	4.6	1
1,2,4-Trimethylbenzene	ND		ug/kg	4.6	1
Ethyl ether	ND		ug/kg	4.6	1

Project Name: RAYTHEON-WAYLAND**Lab Number:** L0811820**Project Number:** 0079387**Report Date:** 08/15/08**SAMPLE RESULTS**

Lab ID: L0811820-04

Date Collected: 08/12/08 09:20

Client ID: IW-02-B-20080812-01

Date Received: 08/12/08

Sample Location: WAYLAND, MA

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B/5035-Soil Analysis					
Isopropyl Ether	ND		ug/kg	3.6	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	3.6	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	3.6	1
1,4-Dioxane	ND		ug/kg	460	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	107		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	111		70-130
Dibromofluoromethane	93		70-130

Project Name: RAYTHEON-WAYLAND**Lab Number:** L0811820**Project Number:** 0079387**Report Date:** 08/15/08**SAMPLE RESULTS**

Lab ID: L0811820-05
 Client ID: IW-03-B-20080812-01
 Sample Location: WAYLAND, MA
 Matrix: Soil
 Analytical Method: 60,8260B
 Analytical Date: 08/14/08 14:50
 Analyst: PD
 Percent Solids: 68%

Date Collected: 08/12/08 09:40
 Date Received: 08/12/08
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B/5035-Soil Analysis					
Methylene chloride	ND		ug/kg	17	1
1,1-Dichloroethane	ND		ug/kg	2.5	1
Chloroform	ND		ug/kg	2.5	1
Carbon tetrachloride	ND		ug/kg	1.7	1
1,2-Dichloropropane	ND		ug/kg	5.8	1
Dibromochloromethane	ND		ug/kg	1.7	1
1,1,2-Trichloroethane	ND		ug/kg	2.5	1
Tetrachloroethene	1.7		ug/kg	1.7	1
Chlorobenzene	ND		ug/kg	1.7	1
Trichlorofluoromethane	ND		ug/kg	8.4	1
1,2-Dichloroethane	ND		ug/kg	1.7	1
1,1,1-Trichloroethane	ND		ug/kg	1.7	1
Bromodichloromethane	ND		ug/kg	1.7	1
trans-1,3-Dichloropropene	ND		ug/kg	1.7	1
cis-1,3-Dichloropropene	ND		ug/kg	1.7	1
1,1-Dichloropropene	ND		ug/kg	8.4	1
Bromoform	ND		ug/kg	6.7	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.7	1
Benzene	ND		ug/kg	1.7	1
Toluene	ND		ug/kg	2.5	1
Ethylbenzene	ND		ug/kg	1.7	1
Chloromethane	ND		ug/kg	8.4	1
Bromomethane	ND		ug/kg	3.3	1
Vinyl chloride	ND		ug/kg	3.3	1
Chloroethane	ND		ug/kg	3.3	1
1,1-Dichloroethene	ND		ug/kg	1.7	1
trans-1,2-Dichloroethene	ND		ug/kg	2.5	1
Trichloroethene	81		ug/kg	1.7	1
1,2-Dichlorobenzene	ND		ug/kg	8.4	1
1,3-Dichlorobenzene	ND		ug/kg	8.4	1

Project Name: RAYTHEON-WAYLAND

Lab Number: L0811820

Project Number: 0079387

Report Date: 08/15/08

SAMPLE RESULTS

Lab ID: L0811820-05

Date Collected: 08/12/08 09:40

Client ID: IW-03-B-20080812-01

Date Received: 08/12/08

Sample Location: WAYLAND, MA

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B/5035-Soil Analysis					
1,4-Dichlorobenzene	ND		ug/kg	8.4	1
Methyl tert butyl ether	ND		ug/kg	3.3	1
p/m-Xylene	ND		ug/kg	3.3	1
o-Xylene	ND		ug/kg	3.3	1
cis-1,2-Dichloroethene	2.1		ug/kg	1.7	1
Dibromomethane	ND		ug/kg	17	1
1,2,3-Trichloropropane	ND		ug/kg	17	1
Styrene	ND		ug/kg	3.3	1
Dichlorodifluoromethane	ND		ug/kg	17	1
Acetone	45		ug/kg	17	1
Carbon disulfide	ND		ug/kg	84	1
2-Butanone	ND		ug/kg	17	1
4-Methyl-2-pentanone	ND		ug/kg	17	1
2-Hexanone	ND		ug/kg	17	1
Bromochloromethane	ND		ug/kg	8.4	1
Tetrahydrofuran	ND		ug/kg	33	1
2,2-Dichloropropane	ND		ug/kg	8.4	1
1,2-Dibromoethane	ND		ug/kg	6.7	1
1,3-Dichloropropane	ND		ug/kg	8.4	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.7	1
Bromobenzene	ND		ug/kg	8.4	1
n-Butylbenzene	ND		ug/kg	1.7	1
sec-Butylbenzene	ND		ug/kg	1.7	1
tert-Butylbenzene	ND		ug/kg	8.4	1
o-Chlorotoluene	ND		ug/kg	8.4	1
p-Chlorotoluene	ND		ug/kg	8.4	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	8.4	1
Hexachlorobutadiene	ND		ug/kg	8.4	1
Isopropylbenzene	ND		ug/kg	1.7	1
p-Isopropyltoluene	1.9		ug/kg	1.7	1
Naphthalene	ND		ug/kg	8.4	1
n-Propylbenzene	ND		ug/kg	1.7	1
1,2,3-Trichlorobenzene	ND		ug/kg	8.4	1
1,2,4-Trichlorobenzene	ND		ug/kg	8.4	1
1,3,5-Trimethylbenzene	ND		ug/kg	8.4	1
1,2,4-Trimethylbenzene	ND		ug/kg	8.4	1
Ethyl ether	ND		ug/kg	8.4	1

Project Name: RAYTHEON-WAYLAND**Lab Number:** L0811820**Project Number:** 0079387**Report Date:** 08/15/08**SAMPLE RESULTS**

Lab ID: L0811820-05
 Client ID: IW-03-B-20080812-01
 Sample Location: WAYLAND, MA

Date Collected: 08/12/08 09:40
 Date Received: 08/12/08
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B/5035-Soil Analysis					
Isopropyl Ether	ND		ug/kg	6.7	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	6.7	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	6.7	1
1,4-Dioxane	ND		ug/kg	840	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	112		70-130
Toluene-d8	107		70-130
4-Bromofluorobenzene	120		70-130
Dibromofluoromethane	98		70-130

Project Name: RAYTHEON-WAYLAND**Lab Number:** L0811820**Project Number:** 0079387**Report Date:** 08/15/08**SAMPLE RESULTS**

Lab ID:	L0811820-06	Date Collected:	08/11/08 11:22
Client ID:	TB-001-20080812-01	Date Received:	08/12/08
Sample Location:	WAYLAND, MA	Field Prep:	Not Specified
Matrix:	Soil		
Analytical Method:	60,8260B		
Analytical Date:	08/14/08 15:26		
Analyst:	PD		
Percent Solids:	Results are reported on an 'AS RECEIVED' basis.		

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B/5035-Soil Analysis					
Methylene chloride	ND		ug/kg	10	1
1,1-Dichloroethane	ND		ug/kg	1.5	1
Chloroform	ND		ug/kg	1.5	1
Carbon tetrachloride	ND		ug/kg	1.0	1
1,2-Dichloropropane	ND		ug/kg	3.5	1
Dibromochloromethane	ND		ug/kg	1.0	1
1,1,2-Trichloroethane	ND		ug/kg	1.5	1
Tetrachloroethene	ND		ug/kg	1.0	1
Chlorobenzene	ND		ug/kg	1.0	1
Trichlorofluoromethane	ND		ug/kg	5.0	1
1,2-Dichloroethane	ND		ug/kg	1.0	1
1,1,1-Trichloroethane	ND		ug/kg	1.0	1
Bromodichloromethane	ND		ug/kg	1.0	1
trans-1,3-Dichloropropene	ND		ug/kg	1.0	1
cis-1,3-Dichloropropene	ND		ug/kg	1.0	1
1,1-Dichloropropene	ND		ug/kg	5.0	1
Bromoform	ND		ug/kg	4.0	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.0	1
Benzene	ND		ug/kg	1.0	1
Toluene	ND		ug/kg	1.5	1
Ethylbenzene	ND		ug/kg	1.0	1
Chloromethane	ND		ug/kg	5.0	1
Bromomethane	ND		ug/kg	2.0	1
Vinyl chloride	ND		ug/kg	2.0	1
Chloroethane	ND		ug/kg	2.0	1
1,1-Dichloroethene	ND		ug/kg	1.0	1
trans-1,2-Dichloroethene	ND		ug/kg	1.5	1
Trichloroethene	ND		ug/kg	1.0	1
1,2-Dichlorobenzene	ND		ug/kg	5.0	1
1,3-Dichlorobenzene	ND		ug/kg	5.0	1

Project Name: RAYTHEON-WAYLAND

Lab Number: L0811820

Project Number: 0079387

Report Date: 08/15/08

SAMPLE RESULTS

Lab ID: L0811820-06

Date Collected: 08/11/08 11:22

Client ID: TB-001-20080812-01

Date Received: 08/12/08

Sample Location: WAYLAND, MA

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B/5035-Soil Analysis					
1,4-Dichlorobenzene	ND		ug/kg	5.0	1
Methyl tert butyl ether	ND		ug/kg	2.0	1
p/m-Xylene	ND		ug/kg	2.0	1
o-Xylene	ND		ug/kg	2.0	1
cis-1,2-Dichloroethene	ND		ug/kg	1.0	1
Dibromomethane	ND		ug/kg	10	1
1,2,3-Trichloropropane	ND		ug/kg	10	1
Styrene	ND		ug/kg	2.0	1
Dichlorodifluoromethane	ND		ug/kg	10	1
Acetone	ND		ug/kg	10	1
Carbon disulfide	ND		ug/kg	50	1
2-Butanone	ND		ug/kg	10	1
4-Methyl-2-pentanone	ND		ug/kg	10	1
2-Hexanone	ND		ug/kg	10	1
Bromochloromethane	ND		ug/kg	5.0	1
Tetrahydrofuran	ND		ug/kg	20	1
2,2-Dichloropropane	ND		ug/kg	5.0	1
1,2-Dibromoethane	ND		ug/kg	4.0	1
1,3-Dichloropropane	ND		ug/kg	5.0	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.0	1
Bromobenzene	ND		ug/kg	5.0	1
n-Butylbenzene	ND		ug/kg	1.0	1
sec-Butylbenzene	ND		ug/kg	1.0	1
tert-Butylbenzene	ND		ug/kg	5.0	1
o-Chlorotoluene	ND		ug/kg	5.0	1
p-Chlorotoluene	ND		ug/kg	5.0	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.0	1
Hexachlorobutadiene	ND		ug/kg	5.0	1
Isopropylbenzene	ND		ug/kg	1.0	1
p-Isopropyltoluene	ND		ug/kg	1.0	1
Naphthalene	ND		ug/kg	5.0	1
n-Propylbenzene	ND		ug/kg	1.0	1
1,2,3-Trichlorobenzene	ND		ug/kg	5.0	1
1,2,4-Trichlorobenzene	ND		ug/kg	5.0	1
1,3,5-Trimethylbenzene	ND		ug/kg	5.0	1
1,2,4-Trimethylbenzene	ND		ug/kg	5.0	1
Ethyl ether	ND		ug/kg	5.0	1

Project Name: RAYTHEON-WAYLAND**Lab Number:** L0811820**Project Number:** 0079387**Report Date:** 08/15/08**SAMPLE RESULTS**

Lab ID: L0811820-06

Date Collected: 08/11/08 11:22

Client ID: TB-001-20080812-01

Date Received: 08/12/08

Sample Location: WAYLAND, MA

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B/5035-Soil Analysis					
Isopropyl Ether	ND		ug/kg	4.0	1
Ethyl-Tert-Butyl-Ether	ND		ug/kg	4.0	1
Tertiary-Amyl Methyl Ether	ND		ug/kg	4.0	1
1,4-Dioxane	ND		ug/kg	500	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	111		70-130
Dibromofluoromethane	91		70-130

Project Name: RAYTHEON-WAYLAND

Lab Number: L0811820

Project Number: 0079387

Report Date: 08/15/08

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 60,8260B
 Analytical Date: 08/14/08 09:55
 Analyst: PD

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by MCP 8260B/5035-Soil Analysis for sample(s): 01-06 Batch: WG332606-3				
Methylene chloride	ND		ug/kg	10
1,1-Dichloroethane	ND		ug/kg	1.5
Chloroform	ND		ug/kg	1.5
Carbon tetrachloride	ND		ug/kg	1.0
1,2-Dichloropropane	ND		ug/kg	3.5
Dibromochloromethane	ND		ug/kg	1.0
1,1,2-Trichloroethane	ND		ug/kg	1.5
Tetrachloroethene	ND		ug/kg	1.0
Chlorobenzene	ND		ug/kg	1.0
Trichlorofluoromethane	ND		ug/kg	5.0
1,2-Dichloroethane	ND		ug/kg	1.0
1,1,1-Trichloroethane	ND		ug/kg	1.0
Bromodichloromethane	ND		ug/kg	1.0
trans-1,3-Dichloropropene	ND		ug/kg	1.0
cis-1,3-Dichloropropene	ND		ug/kg	1.0
1,1-Dichloropropene	ND		ug/kg	5.0
Bromoform	ND		ug/kg	4.0
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.0
Benzene	ND		ug/kg	1.0
Toluene	ND		ug/kg	1.5
Ethylbenzene	ND		ug/kg	1.0
Chloromethane	ND		ug/kg	5.0
Bromomethane	ND		ug/kg	2.0
Vinyl chloride	ND		ug/kg	2.0
Chloroethane	ND		ug/kg	2.0
1,1-Dichloroethene	ND		ug/kg	1.0
trans-1,2-Dichloroethene	ND		ug/kg	1.5
Trichloroethene	ND		ug/kg	1.0
1,2-Dichlorobenzene	ND		ug/kg	5.0
1,3-Dichlorobenzene	ND		ug/kg	5.0
1,4-Dichlorobenzene	ND		ug/kg	5.0

Project Name: RAYTHEON-WAYLAND
Project Number: 0079387

Lab Number: L0811820
Report Date: 08/15/08

Method Blank Analysis
Batch Quality Control

Analytical Method: 60,8260B
Analytical Date: 08/14/08 09:55
Analyst: PD

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by MCP 8260B/5035-Soil Analysis for sample(s): 01-06 Batch: WG332606-3				
Methyl tert butyl ether	ND		ug/kg	2.0
p/m-Xylene	ND		ug/kg	2.0
o-Xylene	ND		ug/kg	2.0
cis-1,2-Dichloroethene	ND		ug/kg	1.0
Dibromomethane	ND		ug/kg	10
1,2,3-Trichloropropane	ND		ug/kg	10
Styrene	ND		ug/kg	2.0
Dichlorodifluoromethane	ND		ug/kg	10
Acetone	ND		ug/kg	10
Carbon disulfide	ND		ug/kg	50
2-Butanone	ND		ug/kg	10
4-Methyl-2-pentanone	ND		ug/kg	10
2-Hexanone	ND		ug/kg	10
Bromochloromethane	ND		ug/kg	5.0
Tetrahydrofuran	ND		ug/kg	20
2,2-Dichloropropane	ND		ug/kg	5.0
1,2-Dibromoethane	ND		ug/kg	4.0
1,3-Dichloropropane	ND		ug/kg	5.0
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.0
Bromobenzene	ND		ug/kg	5.0
n-Butylbenzene	ND		ug/kg	1.0
sec-Butylbenzene	ND		ug/kg	1.0
tert-Butylbenzene	ND		ug/kg	5.0
o-Chlorotoluene	ND		ug/kg	5.0
p-Chlorotoluene	ND		ug/kg	5.0
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.0
Hexachlorobutadiene	ND		ug/kg	5.0
Isopropylbenzene	ND		ug/kg	1.0
p-Isopropyltoluene	ND		ug/kg	1.0
Naphthalene	ND		ug/kg	5.0
n-Propylbenzene	ND		ug/kg	1.0

Project Name: RAYTHEON-WAYLAND
Project Number: 0079387

Lab Number: L0811820
Report Date: 08/15/08

Method Blank Analysis
Batch Quality Control

Analytical Method: 60,8260B
Analytical Date: 08/14/08 09:55
Analyst: PD

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by MCP 8260B/5035-Soil Analysis for sample(s): 01-06 Batch: WG332606-3				
1,2,3-Trichlorobenzene	ND		ug/kg	5.0
1,2,4-Trichlorobenzene	ND		ug/kg	5.0
1,3,5-Trimethylbenzene	ND		ug/kg	5.0
1,2,4-Trimethylbenzene	ND		ug/kg	5.0
Ethyl ether	ND		ug/kg	5.0
Isopropyl Ether	ND		ug/kg	4.0
Ethyl-Tert-Butyl-Ether	ND		ug/kg	4.0
Tertiary-Amyl Methyl Ether	ND		ug/kg	4.0
1,4-Dioxane	ND		ug/kg	500

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	107		70-130
Toluene-d8	109		70-130
4-Bromofluorobenzene	119		70-130
Dibromofluoromethane	100		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: RAYTHEON-WAYLAND

Lab Number: L0811820

Project Number: 0079387

Report Date: 08/15/08

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B/5035-Soil Analysis Associated sample(s): 01-06 Batch: WG332606-1 WG332606-2					
Methylene chloride	95	83	70-130	13	25
1,1-Dichloroethane	106	93	70-130	13	25
Chloroform	102	89	70-130	14	25
Carbon tetrachloride	85	78	70-130	9	25
1,2-Dichloropropane	104	92	70-130	12	25
Dibromochloromethane	87	78	70-130	11	25
1,1,2-Trichloroethane	108	94	70-130	14	25
Tetrachloroethene	96	85	70-130	12	25
Chlorobenzene	102	90	70-130	13	25
Trichlorofluoromethane	107	96	70-130	11	25
1,2-Dichloroethane	111	99	70-130	11	25
1,1,1-Trichloroethane	95	86	70-130	10	25
Bromodichloromethane	97	87	70-130	11	25
trans-1,3-Dichloropropene	97	85	70-130	13	25
cis-1,3-Dichloropropene	100	88	70-130	13	25
1,1-Dichloropropene	101	89	70-130	13	25
Bromoform	78	71	70-130	9	50
1,1,2,2-Tetrachloroethane	111	101	70-130	9	25
Benzene	99	86	70-130	14	25
Toluene	101	89	70-130	13	25
Ethylbenzene	106	94	70-130	12	25

Lab Control Sample Analysis

Batch Quality Control

Project Name: RAYTHEON-WAYLAND

Lab Number: L0811820

Project Number: 0079387

Report Date: 08/15/08

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B/5035-Soil Analysis Associated sample(s): 01-06 Batch: WG332606-1 WG332606-2					
Chloromethane	89	81	70-130	9	50
Bromomethane	101	90	70-130	12	50
Vinyl chloride	100	90	70-130	11	25
Chloroethane	106	94	70-130	12	25
1,1-Dichloroethene	107	95	70-130	12	25
trans-1,2-Dichloroethene	97	86	70-130	12	25
Trichloroethene	95	83	70-130	13	25
1,2-Dichlorobenzene	102	90	70-130	13	25
1,3-Dichlorobenzene	103	90	70-130	13	25
1,4-Dichlorobenzene	104	92	70-130	12	25
Methyl tert butyl ether	92	81	70-130	13	25
p/m-Xylene	104	92	70-130	12	25
o-Xylene	100	89	70-130	12	25
cis-1,2-Dichloroethene	99	84	70-130	16	25
Dibromomethane	102	88	70-130	15	25
1,2,3-Trichloropropane	125	113	70-130	10	25
Styrene	101	90	70-130	12	25
Dichlorodifluoromethane	76	64	70-130	17	50
Acetone	104	98	70-130	6	50
Carbon disulfide	105	91	70-130	14	25
2-Butanone	112	101	70-130	10	50

Lab Control Sample Analysis

Batch Quality Control

Project Name: RAYTHEON-WAYLAND

Lab Number: L0811820

Project Number: 0079387

Report Date: 08/15/08

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B/5035-Soil Analysis Associated sample(s): 01-06 Batch: WG332606-1 WG332606-2					
4-Methyl-2-pentanone	116	105	70-130	10	50
2-Hexanone	123	109	70-130	12	50
Bromochloromethane	97	86	70-130	12	25
Tetrahydrofuran	103	84	70-130	20	25
2,2-Dichloropropane	99	87	70-130	13	50
1,2-Dibromoethane	102	90	70-130	13	25
1,3-Dichloropropane	108	96	70-130	12	25
1,1,1,2-Tetrachloroethane	90	79	70-130	13	25
Bromobenzene	99	86	70-130	14	25
n-Butylbenzene	110	98	70-130	12	25
sec-Butylbenzene	109	96	70-130	13	25
tert-Butylbenzene	104	91	70-130	13	25
o-Chlorotoluene	109	95	70-130	14	25
p-Chlorotoluene	110	96	70-130	14	25
1,2-Dibromo-3-chloropropane	102	94	70-130	8	50
Hexachlorobutadiene	86	78	70-130	10	25
Isopropylbenzene	123	110	70-130	11	25
p-Isopropyltoluene	110	98	70-130	12	25
Naphthalene	94	89	70-130	5	25
n-Propylbenzene	112	98	70-130	13	25
1,2,3-Trichlorobenzene	98	89	70-130	10	25

Lab Control Sample Analysis

Batch Quality Control

Project Name: RAYTHEON-WAYLAND

Lab Number: L0811820

Project Number: 0079387

Report Date: 08/15/08

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B/5035-Soil Analysis Associated sample(s): 01-06 Batch: WG332606-1 WG332606-2					
1,2,4-Trichlorobenzene	98	86	70-130	13	25
1,3,5-Trimethylbenzene	106	94	70-130	12	25
1,2,4-Trimethylbenzene	103	92	70-130	11	25
Ethyl ether	96	81	70-130	17	25
Isopropyl Ether	95	84	70-130	12	25
Ethyl-Tert-Butyl-Ether	93	82	70-130	13	25
Tertiary-Amyl Methyl Ether	86	77	70-130	11	25
1,4-Dioxane	102	95	70-130	7	50

Surrogate	LCS %Recovery	Qualifier	LCSD %Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		104		70-130
Toluene-d8	102		100		70-130
4-Bromofluorobenzene	102		101		70-130
Dibromofluoromethane	97		96		70-130

INORGANICS & MISCELLANEOUS

Project Name: RAYTHEON-WAYLAND

Lab Number: L0811820

Project Number: 0079387

Report Date: 08/15/08

SAMPLE RESULTS

Lab ID: L0811820-01
 Client ID: IW-01-A-20080812-01
 Sample Location: WAYLAND, MA
 Matrix: Soil

Date Collected: 08/12/08 09:00
 Date Received: 08/12/08
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry									
Solids, Total	66		%	0.10	1	-	08/12/08 16:25	30,2540G	NM



Project Name: RAYTHEON-WAYLAND**Lab Number:** L0811820**Project Number:** 0079387**Report Date:** 08/15/08**SAMPLE RESULTS**

Lab ID: L0811820-02
Client ID: IW-01-B-20080812-01
Sample Location: WAYLAND, MA
Matrix: Soil

Date Collected: 08/12/08 09:10
Date Received: 08/12/08
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry									
Solids, Total	66		%	0.10	1	-	08/12/08 16:25	30,2540G	NM



Project Name: RAYTHEON-WAYLAND

Lab Number: L0811820

Project Number: 0079387

Report Date: 08/15/08

SAMPLE RESULTS

Lab ID: L0811820-03
 Client ID: IW-02-A-20080812-01
 Sample Location: WAYLAND, MA
 Matrix: Soil

Date Collected: 08/12/08 09:15
 Date Received: 08/12/08
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry									
Solids, Total	72		%	0.10	1	-	08/12/08 16:25	30,2540G	NM



Project Name: RAYTHEON-WAYLAND

Lab Number: L0811820

Project Number: 0079387

Report Date: 08/15/08

SAMPLE RESULTS

Lab ID: L0811820-04
 Client ID: IW-02-B-20080812-01
 Sample Location: WAYLAND, MA
 Matrix: Soil

Date Collected: 08/12/08 09:20
 Date Received: 08/12/08
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry									
Solids, Total	74		%	0.10	1	-	08/12/08 16:25	30,2540G	NM



Project Name: RAYTHEON-WAYLAND

Lab Number: L0811820

Project Number: 0079387

Report Date: 08/15/08

SAMPLE RESULTS

Lab ID: L0811820-05
 Client ID: IW-03-B-20080812-01
 Sample Location: WAYLAND, MA
 Matrix: Soil

Date Collected: 08/12/08 09:40
 Date Received: 08/12/08
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry									
Solids, Total	68		%	0.10	1	-	08/12/08 16:25	30,2540G	NM



Lab Duplicate Analysis
Batch Quality Control

Project Name: RAYTHEON-WAYLAND

Project Number: 0079387

Lab Number: L0811820

Report Date: 08/15/08

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Associated sample(s): 01-05 QC Batch ID: WG332279-1 QC Sample: L0811819-01 Client ID: DUP Sample					
Solids, Total	87	85	%	2	20

Project Name: RAYTHEON-WAYLAND

Lab Number: L0811820

Project Number: 0079387

Report Date: 08/15/08

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp	Pres	Seal	Analysis
L0811820-01A	Vial MeOH preserved	A	N/A	2.4 c	Y	Absent	MCP-8260HLW(14)
L0811820-01B	Vial water preserved	A	N/A	2.4 c	Y	Absent	MCP-8260HLW(14)
L0811820-01C	Plastic 2oz unpreserved for TS	A	N/A	2.4 c	Y	Absent	TS(7)
L0811820-02A	Vial MeOH preserved	A	N/A	2.4 c	Y	Absent	MCP-8260HLW(14)
L0811820-02B	Vial water preserved	A	N/A	2.4 c	Y	Absent	MCP-8260HLW(14)
L0811820-02C	Plastic 2oz unpreserved for TS	A	N/A	2.4 c	Y	Absent	TS(7)
L0811820-03A	Vial MeOH preserved	A	N/A	2.4 c	Y	Absent	MCP-8260HLW(14)
L0811820-03B	Vial water preserved	A	N/A	2.4 c	Y	Absent	MCP-8260HLW(14)
L0811820-03C	Plastic 2oz unpreserved for TS	A	N/A	2.4 c	Y	Absent	TS(7)
L0811820-04A	Vial MeOH preserved	A	N/A	2.4 c	Y	Absent	MCP-8260HLW(14)
L0811820-04B	Vial water preserved	A	N/A	2.4 c	Y	Absent	MCP-8260HLW(14)
L0811820-04C	Plastic 2oz unpreserved for TS	A	N/A	2.4 c	Y	Absent	TS(7)
L0811820-05A	Vial MeOH preserved	A	N/A	2.4 c	Y	Absent	MCP-8260HLW(14)
L0811820-05B	Vial water preserved	A	N/A	2.4 c	Y	Absent	MCP-8260HLW(14)
L0811820-05C	Plastic 2oz unpreserved for TS	A	N/A	2.4 c	Y	Absent	TS(7)
L0811820-06A	Vial water preserved	A	N/A	2.4 c	Y	Absent	MCP-8260HLW(14)
L0811820-07A	Vial MeOH preserved	A	N/A	2.4 c	Y	Absent	HOLD(14)

*Hold days indicated by values in parentheses



Project Name: RAYTHEON-WAYLAND
Project Number: 0079387

Lab Number: L0811820
Report Date: 08/15/08

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: Not Specified



Project Name: RAYTHEON-WAYLAND
Project Number: 0079387

Lab Number: L0811820
Report Date: 08/15/08

REFERENCES

- 30 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.
- 60 Quality Assurance and Quality Control Requirements and Performance Standards for SW-846 Methods. MADEP BWSC. WSC-CAM-IIA (Revision 4), WSC-CAM-V C (Revision 2), WSC-CAM-IIIA (Revision 5). May 2004.

LIMITATION OF LIABILITIES

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

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





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

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

CHAIN OF CUSTODY

PAGE OF

Project Information

Project Name: RAYNHAM-WAYLAND

Project Location: WAYLAND, MA

Project #: 0079387

Project Manager: JASON FANTELY

ALPHA Quote #:

Turn-Around Time

Standard RUSH (only confirmed if pre-approved!)

Date Due: 8/19 Time:

Other Project: Specific Requirements/Comments/Detection Limits:

Date Rec'd in Lab: 8/12

Report Information - Data Deliverables

FAX EMAIL

ADEX Add'l Deliverables

Regulatory Requirements/Report Limits

State / Fed Program MCP/1331 Criteria

MAMCP PRESUMPTIVE CERTAINTY --- CT REASONABLE CONFIDENCE PROTOCOLS

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

ALPHA Job #: L0811820

Billing Information

Same as Client info PO #:

ANALYSIS	RESULTS
VOL B260 HIGH	1
VOL B260 LOW	1
TOTAL SOLIDS	1

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Time	Sample Matrix	Sampler's Initials
1820.1	1W-01-A-200B0812-01	8/12/08	09:00	S	EW
2	1W-01-B-200B0812-01		09:10		EW
3	1W-02-A-200B0812-01		09:15		EW
4	1W-02-B-200B0812-01		09:20		EW
5	1W-03-A-200B0812-01		09:30		EW
6	1W-03-B-200B0812-01		09:40		EW
7	1W-04-A-200B0812-01		09:50		EW
8	1W-04-B-200B0812-01		10:00		EW
9	1W-05-A-200B0812-01		11:22		EW
10	1W-05-B-200B0812-01		11:35		EW

Sample Specific Comments

PLEASE ANSWER QUESTIONS ABOVE!

Container Type	Preservative
V V P	F H ₂ O A

IS YOUR PROJECT MA MCP or CT RCP?

Relinquished By: [Signature]

Date/Time: 8/12/08 12:00

Received By: [Signature]

Date/Time: 8/13 13:00

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 are resolved. All samples submitted are subject to Alpha's Payment Terms. See reverse side.