



Commonwealth of Massachusetts • Executive Office of Energy & Environmental Affairs

# Department of Environmental Protection

Southeast Regional Office • 20 Riverside Drive, Lakeville MA 02347 • 508-946-2700

40 Years Cleaner, 40 Years Greener - MassDEP Celebrates Four Decades of Environmental Progress

Charles D. Baker  
Governor

Karyn E. Polito  
Lieutenant Governor

Matthew A. Beaton  
Secretary

Martin Suuberg  
Commissioner

November 19, 2015

Michael Yunits, Town Administrator  
Town of Norton  
70 East Main Street  
Norton, Massachusetts 02766

RE: **NORTON**  
Release Tracking Number 4-0025855  
Former Reed and Barton Facility  
47 Elm Street  
**ANALYTICAL RESULTS**

Dear Mr. Yunits:

The Massachusetts Department of Environmental Protection, Bureau of Waste Site Cleanup (MassDEP) conducted groundwater/sediment sampling on October 27 and 30, 2015 in the vicinity of the former Reed & Barton Facility (Facility) located at 47 Elm Street in Norton. The purpose of this limited environmental investigation was to determine if previous activities at the Facility have resulted in a release of oil and/or hazardous material to the environment pursuant to the Massachusetts Oil and Hazardous Material Release Prevention and Response Act (M.G.L. Chapter 21E). M.G.L. Chapter 21E is implemented through regulations known as the Massachusetts Contingency Plan (310 CMR 40.0000 et seq. – the MCP). Both M.G.L. c. 21E and the MCP require the performance of response actions to provide for the protection of harm to health, safety, public welfare and the environment which may result from releases of oil and/or hazardous material.

Enclosed are the laboratory results from the analysis of groundwater samples obtained from Microwells RB-5, RB-6, RB-7, RB-8 and RB-9 and seepage meter RB-SM1 which were installed by MassDEP. Microwells RB-1, RB-3 and RB-4 were not installed and a groundwater sample was not obtained from RB-2 due to insufficient groundwater recharge. The locations of the various sampling points are indicated on the enclosed Site Plan. Analytical results received by MassDEP on October 30, 2015 indicate that trichloroethylene (TCE) was detected in a groundwater sample collected by MassDEP from Microwell RB-5 located immediately downgradient of the Former Reed and Barton Facility at a concentration of 9.7 micrograms per liter (ug/L). This TCE concentration is greater than the MCP Category RCGW-1/RCGW-2 Reportable Concentration (5 ug/L) for TCE in groundwater. One sediment sample was obtained from the Rumford River downstream from the closed waste disposal lagoons associated with the Former Reed & Barton Facility and analyzed for metals. Mercury was the only metal detected in the sediment at a concentration exceeding MassDEP's Stage I Freshwater Sediment Screening Criteria for Metals.

This information is available in alternate format. Call Michelle Waters-Ekanem, Diversity Director, at 617-292-5751. TTY# MassRelay Service 1-800-439-2370  
MassDEP Website: [www.mass.gov/dep](http://www.mass.gov/dep)

Printed on Recycled Paper

MassDEP has assigned Release Tracking Number 4-0025855 to this release and has issued a Notice of Responsibility dated November 16, 2015 to RB Liquidation, Inc., f/k/a Reed and Barton Corporation.

Complete copies of the laboratory data packages are available by contacting MassDEP's Southeast Regional Office in Lakeville, Massachusetts or through the MassDEP Searchable Sites database at: <http://public.dep.state.ma.us/SearchableSites2/Search.aspx>.

MassDEP appreciates the cooperation of the Town of Norton in granting access for this limited environmental investigation. If you have any questions regarding the enclosed analytical results, please contact Elliott Jacobs at the letterhead address or by calling (508) 946-2786.

Sincerely,



Leonard J. Pinaud, Chief  
State & Federal Site Management  
Bureau of Waste Site Cleanup

P/EJ/lg

Enclosures: Site Plan and Analytical Data

ec: Norton Board of Health

Norton Conservation Commission  
ATTN: Jennifer Carlino, Conservation Agent

Norton Fire Department  
ATTN: Captain Kent Campbell

DEP-SERO  
Gerard Martin, Acting Deputy Regional Director  
Elliott Jacobs, Project Manager



ANALYTICAL REPORT

Lab Number:	L1527533
Client:	Massachusetts DEP 20 Riverside Drive Lakeville, MA 02347-1676
ATTN:	Elliot Jacobs
Phone:	(508) 946-2786
Project Name:	REED & BARTON
Project Number:	101726.00
Report Date:	10/30/15

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NY (11148), CT (PH-0574), NH (2003), NJ NELAP (MA935), RI (LAO00065), ME (MA00086), PA (68-03671), VA (460195), MD (348), IL (200077), NC (666), TX (T104704476), DOD (L2217), USDA (Permit #P-330-11-00240).

---

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



Project Name: REED & BARTON  
Project Number: 101726.00

Lab Number: L1527533  
Report Date: 10/30/15

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1527533-01	RB-7	WATER	47 ELM ST., NORTON	10/27/15 11:15	10/27/15
L1527533-02	RB-6	WATER	47 ELM ST., NORTON	10/27/15 11:15	10/27/15
L1527533-03	RB-5	WATER	47 ELM ST., NORTON	10/27/15 14:00	10/27/15
L1527533-04	RB-SED-1	SOIL	47 ELM ST., NORTON	10/27/15 10:00	10/27/15
L1527533-05	TRIP BLANK	WATER	47 ELM ST., NORTON	10/27/15 00:00	10/27/15



Project Name: REED & BARTON  
 Project Number: 101726.00

Lab Number: L1527533  
 Report Date: 10/30/15

### 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 through F is required for "Presumptive Certainty" status		
A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	YES
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	YES
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	YES
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data?"	YES
E a.	VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	N/A
E b.	APH and TO-15 Methods only: Was the complete analyte list reported for each method?	N/A
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	YES
A response to questions G, H and I is required for "Presumptive Certainty" status		
G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	YES
H	Were all QC performance standards specified in the CAM protocol(s) achieved?	NO
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	NO
For any questions answered "No", please refer to the case narrative section on the following page(s).		

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



**Project Name:** REED & BARTON  
**Project Number:** 101726.00

**Lab Number:** L1527533  
**Report Date:** 10/30/15

### 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.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. 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. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. 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. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

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.

#### HOLD POLICY

For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.

**Project Name:** REED & BARTON  
**Project Number:** 101726.00

**Lab Number:** L1527533  
**Report Date:** 10/30/15

**Case Narrative (continued)**

**MCP Related Narratives**

**Sample Receipt**

In reference to question H:

A Matrix Spike was not submitted for the analysis of Metals.

**Volatile Organics**

In reference to question H:

The initial calibration, associated with L1527533-01, -02, and -03, did not meet the method required minimum response factor on the lowest calibration standard for trichloroethene (0.17985), 4-methyl-2-pentanone (0.05585), and 1,4-dioxane (0.00038), as well as the average response factor for 2-butanone, trichloroethene, 4-methyl-2-pentanone, and 1,4-dioxane.

The continuing calibration standard, associated with L1527533-01, -02, and -03, is outside the acceptance criteria for several compounds; however, it is within overall method allowances. A copy of the continuing calibration standard is included as an addendum to this report.

**Metals**

In reference to question I:

All samples were analyzed for a subset of MCP analytes per the Chain of Custody.

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

Authorized Signature:

 Kelly Stenstrom

Title: Technical Director/Representative

Date: 10/30/15

# ORGANICS



# VOLATILES

Project Name: REED &amp; BARTON

Lab Number: L1527533

Project Number: 101726.00

Report Date: 10/30/15

## SAMPLE RESULTS

Lab ID: L1527533-01  
 Client ID: RB-7  
 Sample Location: 47 ELM ST., NORTON  
 Matrix: Water  
 Analytical Method: 97,8260C  
 Analytical Date: 10/29/15 21:05  
 Analyst: MS

Date Collected: 10/27/15 11:15  
 Date Received: 10/27/15  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>MCP Volatile Organics - Westborough Lab</b>						
Methylene chloride	ND		ug/l	2.0	--	1
1,1-Dichloroethane	ND		ug/l	1.0	--	1
Chloroform	ND		ug/l	1.0	--	1
Carbon tetrachloride	ND		ug/l	1.0	--	1
1,2-Dichloropropane	ND		ug/l	1.0	--	1
Dibromochloromethane	ND		ug/l	1.0	--	1
1,1,2-Trichloroethane	ND		ug/l	1.0	--	1
Tetrachloroethene	ND		ug/l	1.0	--	1
Chlorobenzene	ND		ug/l	1.0	--	1
Trichlorofluoromethane	ND		ug/l	2.0	--	1
1,2-Dichloroethane	ND		ug/l	1.0	--	1
1,1,1-Trichloroethane	ND		ug/l	1.0	--	1
Bromodichloromethane	ND		ug/l	1.0	--	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	--	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	--	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	--	1
1,1-Dichloropropene	ND		ug/l	2.0	--	1
Bromoform	ND		ug/l	2.0	--	1
1,1,2,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Benzene	ND		ug/l	0.50	--	1
Toluene	1.4		ug/l	1.0	--	1
Ethylbenzene	ND		ug/l	1.0	--	1
Chloromethane	ND		ug/l	2.0	--	1
Bromomethane	ND		ug/l	2.0	--	1
Vinyl chloride	ND		ug/l	1.0	--	1
Chloroethane	ND		ug/l	2.0	--	1
1,1-Dichloroethene	ND		ug/l	1.0	--	1
trans-1,2-Dichloroethene	ND		ug/l	1.0	--	1
Trichloroethene	ND		ug/l	1.0	--	1
1,2-Dichlorobenzene	ND		ug/l	1.0	--	1

Project Name: REED &amp; BARTON

Lab Number: L1527533

Project Number: 101726.00

Report Date: 10/30/15

## SAMPLE RESULTS

Lab ID: L1527533-01  
 Client ID: RB-7  
 Sample Location: 47 ELM ST., NORTON

Date Collected: 10/27/15 11:15  
 Date Received: 10/27/15  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>MCP Volatile Organics - Westborough Lab</b>						
1,3-Dichlorobenzene	ND		ug/l	1.0	--	1
1,4-Dichlorobenzene	ND		ug/l	1.0	--	1
Methyl tert butyl ether	ND		ug/l	2.0	--	1
p/m-Xylene	ND		ug/l	2.0	--	1
o-Xylene	ND		ug/l	1.0	--	1
Xylene (Total)	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	ND		ug/l	1.0	--	1
1,2-Dichloroethene (total)	ND		ug/l	1.0	--	1
Dibromomethane	ND		ug/l	2.0	--	1
1,2,3-Trichloropropane	ND		ug/l	2.0	--	1
Styrene	ND		ug/l	1.0	--	1
Dichlorodifluoromethane	ND		ug/l	2.0	--	1
Acetone	ND		ug/l	5.0	--	1
Carbon disulfide	ND		ug/l	2.0	--	1
2-Butanone	ND		ug/l	5.0	--	1
4-Methyl-2-pentanone	ND		ug/l	5.0	--	1
2-Hexanone	ND		ug/l	5.0	--	1
Bromochloromethane	ND		ug/l	2.0	--	1
Tetrahydrofuran	ND		ug/l	2.0	--	1
2,2-Dichloropropane	ND		ug/l	2.0	--	1
1,2-Dibromoethane	ND		ug/l	2.0	--	1
1,3-Dichloropropane	ND		ug/l	2.0	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Bromobenzene	ND		ug/l	2.0	--	1
n-Butylbenzene	ND		ug/l	2.0	--	1
sec-Butylbenzene	ND		ug/l	2.0	--	1
tert-Butylbenzene	ND		ug/l	2.0	--	1
o-Chlorotoluene	ND		ug/l	2.0	--	1
p-Chlorotoluene	ND		ug/l	2.0	--	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.0	--	1
Hexachlorobutadiene	ND		ug/l	0.60	--	1
Isopropylbenzene	ND		ug/l	2.0	--	1
p-Isopropyltoluene	ND		ug/l	2.0	--	1
Naphthalene	ND		ug/l	2.0	--	1
n-Propylbenzene	ND		ug/l	2.0	--	1
1,2,3-Trichlorobenzene	ND		ug/l	2.0	--	1
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--	1
1,3,5-Trimethylbenzene	ND		ug/l	2.0	--	1
1,2,4-Trimethylbenzene	ND		ug/l	2.0	--	1



**Project Name:** REED & BARTON

**Lab Number:** L1527533

**Project Number:** 101726.00

**Report Date:** 10/30/15

**SAMPLE RESULTS**

**Lab ID:** L1527533-01  
**Client ID:** RB-7  
**Sample Location:** 47 ELM ST., NORTON

**Date Collected:** 10/27/15 11:15  
**Date Received:** 10/27/15  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>MCP Volatile Organics - Westborough Lab</b>						
Ethyl ether	ND		ug/l	2.0	--	1
Isopropyl Ether	ND		ug/l	2.0	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.0	--	1
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0	--	1
1,4-Dioxane	ND		ug/l	250	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	101		70-130



Project Name: REED &amp; BARTON

Lab Number: L1527533

Project Number: 101726.00

Report Date: 10/30/15

## SAMPLE RESULTS

Lab ID: L1527533-02  
 Client ID: RB-6  
 Sample Location: 47 ELM ST., NORTON  
 Matrix: Water  
 Analytical Method: 97,8260C  
 Analytical Date: 10/29/15 21:31  
 Analyst: MS

Date Collected: 10/27/15 11:15  
 Date Received: 10/27/15  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>MCP Volatile Organics - Westborough Lab</b>						
Methylene chloride	ND		ug/l	2.0	--	1
1,1-Dichloroethane	ND		ug/l	1.0	--	1
Chloroform	ND		ug/l	1.0	--	1
Carbon tetrachloride	ND		ug/l	1.0	--	1
1,2-Dichloropropane	ND		ug/l	1.0	--	1
Dibromochloromethane	ND		ug/l	1.0	--	1
1,1,2-Trichloroethane	ND		ug/l	1.0	--	1
Tetrachloroethene	ND		ug/l	1.0	--	1
Chlorobenzene	ND		ug/l	1.0	--	1
Trichlorofluoromethane	ND		ug/l	2.0	--	1
1,2-Dichloroethane	ND		ug/l	1.0	--	1
1,1,1-Trichloroethane	ND		ug/l	1.0	--	1
Bromodichloromethane	ND		ug/l	1.0	--	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	--	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	--	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	--	1
1,1-Dichloropropene	ND		ug/l	2.0	--	1
Bromoform	ND		ug/l	2.0	--	1
1,1,2,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Benzene	ND		ug/l	0.50	--	1
Toluene	1.6		ug/l	1.0	--	1
Ethylbenzene	ND		ug/l	1.0	--	1
Chloromethane	ND		ug/l	2.0	--	1
Bromomethane	ND		ug/l	2.0	--	1
Vinyl chloride	ND		ug/l	1.0	--	1
Chloroethane	ND		ug/l	2.0	--	1
1,1-Dichloroethene	ND		ug/l	1.0	--	1
trans-1,2-Dichloroethene	ND		ug/l	1.0	--	1
Trichloroethene	ND		ug/l	1.0	--	1
1,2-Dichlorobenzene	ND		ug/l	1.0	--	1



Project Name: REED & BARTON  
Project Number: 101726.00

Lab Number: L1527533  
Report Date: 10/30/15

## SAMPLE RESULTS

Lab ID: L1527533-02  
Client ID: RB-6  
Sample Location: 47 ELM ST., NORTON

Date Collected: 10/27/15 11:15  
Date Received: 10/27/15  
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>MCP Volatile Organics - Westborough Lab</b>						
1,3-Dichlorobenzene	ND		ug/l	1.0	--	1
1,4-Dichlorobenzene	ND		ug/l	1.0	--	1
Methyl tert butyl ether	ND		ug/l	2.0	--	1
p/m-Xylene	ND		ug/l	2.0	--	1
o-Xylene	ND		ug/l	1.0	--	1
Xylene (Total)	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	3.2		ug/l	1.0	--	1
1,2-Dichloroethene (total)	3.2		ug/l	1.0	--	1
Dibromomethane	ND		ug/l	2.0	--	1
1,2,3-Trichloropropane	ND		ug/l	2.0	--	1
Styrene	ND		ug/l	1.0	--	1
Dichlorodifluoromethane	ND		ug/l	2.0	--	1
Acetone	6.3		ug/l	5.0	--	1
Carbon disulfide	ND		ug/l	2.0	--	1
2-Butanone	ND		ug/l	5.0	--	1
4-Methyl-2-pentanone	ND		ug/l	5.0	--	1
2-Hexanone	ND		ug/l	5.0	--	1
Bromochloromethane	ND		ug/l	2.0	--	1
Tetrahydrofuran	ND		ug/l	2.0	--	1
2,2-Dichloropropane	ND		ug/l	2.0	--	1
1,2-Dibromoethane	ND		ug/l	2.0	--	1
1,3-Dichloropropane	ND		ug/l	2.0	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Bromobenzene	ND		ug/l	2.0	--	1
n-Butylbenzene	ND		ug/l	2.0	--	1
sec-Butylbenzene	ND		ug/l	2.0	--	1
tert-Butylbenzene	ND		ug/l	2.0	--	1
o-Chlorotoluene	ND		ug/l	2.0	--	1
p-Chlorotoluene	ND		ug/l	2.0	--	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.0	--	1
Hexachlorobutadiene	ND		ug/l	0.60	--	1
Isopropylbenzene	ND		ug/l	2.0	--	1
p-Isopropyltoluene	ND		ug/l	2.0	--	1
Naphthalene	14		ug/l	2.0	--	1
n-Propylbenzene	ND		ug/l	2.0	--	1
1,2,3-Trichlorobenzene	ND		ug/l	2.0	--	1
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--	1
1,3,5-Trimethylbenzene	ND		ug/l	2.0	--	1
1,2,4-Trimethylbenzene	ND		ug/l	2.0	--	1



**Project Name:** REED & BARTON

**Lab Number:** L1527533

**Project Number:** 101726.00

**Report Date:** 10/30/15

**SAMPLE RESULTS**

Lab ID: L1527533-02  
 Client ID: RB-6  
 Sample Location: 47 ELM ST., NORTON

Date Collected: 10/27/15 11:15  
 Date Received: 10/27/15  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>MCP Volatile Organics - Westborough Lab</b>						
Ethyl ether	ND		ug/l	2.0	--	1
Isopropyl Ether	ND		ug/l	2.0	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.0	--	1
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0	--	1
1,4-Dioxane	ND		ug/l	250	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	100		70-130



Project Name: REED &amp; BARTON

Lab Number: L1527533

Project Number: 101726.00

Report Date: 10/30/15

## SAMPLE RESULTS

Lab ID: L1527533-03  
 Client ID: RB-5  
 Sample Location: 47 ELM ST., NORTON  
 Matrix: Water  
 Analytical Method: 97,8260C  
 Analytical Date: 10/29/15 21:57  
 Analyst: MS

Date Collected: 10/27/15 14:00  
 Date Received: 10/27/15  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>MCP Volatile Organics - Westborough Lab</b>						
Methylene chloride	ND		ug/l	2.0	--	1
1,1-Dichloroethane	ND		ug/l	1.0	--	1
Chloroform	ND		ug/l	1.0	--	1
Carbon tetrachloride	ND		ug/l	1.0	--	1
1,2-Dichloropropane	ND		ug/l	1.0	--	1
Dibromochloromethane	ND		ug/l	1.0	--	1
1,1,2-Trichloroethane	ND		ug/l	1.0	--	1
Tetrachloroethene	ND		ug/l	1.0	--	1
Chlorobenzene	ND		ug/l	1.0	--	1
Trichlorofluoromethane	ND		ug/l	2.0	--	1
1,2-Dichloroethane	ND		ug/l	1.0	--	1
1,1,1-Trichloroethane	ND		ug/l	1.0	--	1
Bromodichloromethane	ND		ug/l	1.0	--	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	--	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	--	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	--	1
1,1-Dichloropropene	ND		ug/l	2.0	--	1
Bromoform	ND		ug/l	2.0	--	1
1,1,2,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Benzene	ND		ug/l	0.50	--	1
Toluene	1.0		ug/l	1.0	--	1
Ethylbenzene	ND		ug/l	1.0	--	1
Chloromethane	ND		ug/l	2.0	--	1
Bromomethane	ND		ug/l	2.0	--	1
Vinyl chloride	ND		ug/l	1.0	--	1
Chloroethane	ND		ug/l	2.0	--	1
1,1-Dichloroethene	ND		ug/l	1.0	--	1
trans-1,2-Dichloroethene	ND		ug/l	1.0	--	1
Trichloroethene	9.7		ug/l	1.0	--	1
1,2-Dichlorobenzene	ND		ug/l	1.0	--	1

Project Name: REED &amp; BARTON

Lab Number: L1527533

Project Number: 101726.00

Report Date: 10/30/15

## SAMPLE RESULTS

Lab ID: L1527533-03  
 Client ID: RB-5  
 Sample Location: 47 ELM ST., NORTON

Date Collected: 10/27/15 14:00  
 Date Received: 10/27/15  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>MCP Volatile Organics - Westborough Lab</b>						
1,3-Dichlorobenzene	ND		ug/l	1.0	--	1
1,4-Dichlorobenzene	ND		ug/l	1.0	--	1
Methyl tert butyl ether	ND		ug/l	2.0	--	1
p/m-Xylene	ND		ug/l	2.0	--	1
o-Xylene	ND		ug/l	1.0	--	1
Xylene (Total)	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	3.4		ug/l	1.0	--	1
1,2-Dichloroethene (total)	3.4		ug/l	1.0	--	1
Dibromomethane	ND		ug/l	2.0	--	1
1,2,3-Trichloropropane	ND		ug/l	2.0	--	1
Styrene	ND		ug/l	1.0	--	1
Dichlorodifluoromethane	ND		ug/l	2.0	--	1
Acetone	7.4		ug/l	5.0	--	1
Carbon disulfide	ND		ug/l	2.0	--	1
2-Butanone	ND		ug/l	5.0	--	1
4-Methyl-2-pentanone	ND		ug/l	5.0	--	1
2-Hexanone	ND		ug/l	5.0	--	1
Bromochloromethane	ND		ug/l	2.0	--	1
Tetrahydrofuran	ND		ug/l	2.0	--	1
2,2-Dichloropropane	ND		ug/l	2.0	--	1
1,2-Dibromoethane	ND		ug/l	2.0	--	1
1,3-Dichloropropane	ND		ug/l	2.0	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Bromobenzene	ND		ug/l	2.0	--	1
n-Butylbenzene	ND		ug/l	2.0	--	1
sec-Butylbenzene	ND		ug/l	2.0	--	1
tert-Butylbenzene	ND		ug/l	2.0	--	1
o-Chlorotoluene	ND		ug/l	2.0	--	1
p-Chlorotoluene	ND		ug/l	2.0	--	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.0	--	1
Hexachlorobutadiene	ND		ug/l	0.60	--	1
Isopropylbenzene	ND		ug/l	2.0	--	1
p-Isopropyltoluene	ND		ug/l	2.0	--	1
Naphthalene	6.2		ug/l	2.0	--	1
n-Propylbenzene	ND		ug/l	2.0	--	1
1,2,3-Trichlorobenzene	ND		ug/l	2.0	--	1
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--	1
1,3,5-Trimethylbenzene	ND		ug/l	2.0	--	1
1,2,4-Trimethylbenzene	ND		ug/l	2.0	--	1



**Project Name:** REED & BARTON

**Lab Number:** L1527533

**Project Number:** 101726.00

**Report Date:** 10/30/15

**SAMPLE RESULTS**

Lab ID: L1527533-03  
 Client ID: RB-5  
 Sample Location: 47 ELM ST., NORTON

Date Collected: 10/27/15 14:00  
 Date Received: 10/27/15  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>MCP Volatile Organics - Westborough Lab</b>						
Ethyl ether	ND		ug/l	2.0	--	1
Isopropyl Ether	ND		ug/l	2.0	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.0	--	1
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0	--	1
1,4-Dioxane	ND		ug/l	250	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	101		70-130



Project Name: REED & BARTON  
Project Number: 101726.00

Lab Number: L1527533  
Report Date: 10/30/15

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 97,8260C  
Analytical Date: 10/29/15 20:39  
Analyst: MS

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics - Westborough Lab for sample(s): 01-03 Batch: WG835638-3					
Methylene chloride	ND		ug/l	2.0	--
1,1-Dichloroethane	ND		ug/l	1.0	--
Chloroform	ND		ug/l	1.0	--
Carbon tetrachloride	ND		ug/l	1.0	--
1,2-Dichloropropane	ND		ug/l	1.0	--
Dibromochloromethane	ND		ug/l	1.0	--
1,1,2-Trichloroethane	ND		ug/l	1.0	--
Tetrachloroethene	ND		ug/l	1.0	--
Chlorobenzene	ND		ug/l	1.0	--
Trichlorofluoromethane	ND		ug/l	2.0	--
1,2-Dichloroethane	ND		ug/l	1.0	--
1,1,1-Trichloroethane	ND		ug/l	1.0	--
Bromodichloromethane	ND		ug/l	1.0	--
trans-1,3-Dichloropropene	ND		ug/l	0.50	--
cis-1,3-Dichloropropene	ND		ug/l	0.50	--
1,3-Dichloropropene, Total	ND		ug/l	0.50	--
1,1-Dichloropropene	ND		ug/l	2.0	--
Bromoform	ND		ug/l	2.0	--
1,1,2,2-Tetrachloroethane	ND		ug/l	1.0	--
Benzene	ND		ug/l	0.50	--
Toluene	ND		ug/l	1.0	--
Ethylbenzene	ND		ug/l	1.0	--
Chloromethane	ND		ug/l	2.0	--
Bromomethane	ND		ug/l	2.0	--
Vinyl chloride	ND		ug/l	1.0	--
Chloroethane	ND		ug/l	2.0	--
1,1-Dichloroethene	ND		ug/l	1.0	--
trans-1,2-Dichloroethene	ND		ug/l	1.0	--
Trichloroethene	ND		ug/l	1.0	--

Project Name: REED & BARTON  
 Project Number: 101726.00

Lab Number: L1527533  
 Report Date: 10/30/15

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 97,8260C  
 Analytical Date: 10/29/15 20:39  
 Analyst: MS

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics - Westborough Lab for sample(s): 01-03 Batch: WG835638-3					
1,2-Dichlorobenzene	ND		ug/l	1.0	--
1,3-Dichlorobenzene	ND		ug/l	1.0	--
1,4-Dichlorobenzene	ND		ug/l	1.0	--
Methyl tert butyl ether	ND		ug/l	2.0	--
p/m-Xylene	ND		ug/l	2.0	--
o-Xylene	ND		ug/l	1.0	--
Xylene (Total)	ND		ug/l	1.0	--
cis-1,2-Dichloroethene	ND		ug/l	1.0	--
1,2-Dichloroethene (total)	ND		ug/l	1.0	--
Dibromomethane	ND		ug/l	2.0	--
1,2,3-Trichloropropane	ND		ug/l	2.0	--
Styrene	ND		ug/l	1.0	--
Dichlorodifluoromethane	ND		ug/l	2.0	--
Acetone	ND		ug/l	5.0	--
Carbon disulfide	ND		ug/l	2.0	--
2-Butanone	ND		ug/l	5.0	--
4-Methyl-2-pentanone	ND		ug/l	5.0	--
2-Hexanone	ND		ug/l	5.0	--
Bromochloromethane	ND		ug/l	2.0	--
Tetrahydrofuran	ND		ug/l	2.0	--
2,2-Dichloropropane	ND		ug/l	2.0	--
1,2-Dibromoethane	ND		ug/l	2.0	--
1,3-Dichloropropane	ND		ug/l	2.0	--
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--
Bromobenzene	ND		ug/l	2.0	--
n-Butylbenzene	ND		ug/l	2.0	--
sec-Butylbenzene	ND		ug/l	2.0	--
tert-Butylbenzene	ND		ug/l	2.0	--
o-Chlorotoluene	ND		ug/l	2.0	--



Project Name: REED & BARTON  
 Project Number: 101726.00

Lab Number: L1527533  
 Report Date: 10/30/15

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 97,8260C  
 Analytical Date: 10/29/15 20:39  
 Analyst: MS

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics - Westborough Lab for sample(s): 01-03 Batch: WG835638-3					
p-Chlorotoluene	ND		ug/l	2.0	--
1,2-Dibromo-3-chloropropane	ND		ug/l	2.0	--
Hexachlorobutadiene	ND		ug/l	0.60	--
Isopropylbenzene	ND		ug/l	2.0	--
p-Isopropyltoluene	ND		ug/l	2.0	--
Naphthalene	ND		ug/l	2.0	--
n-Propylbenzene	ND		ug/l	2.0	--
1,2,3-Trichlorobenzene	ND		ug/l	2.0	--
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--
1,3,5-Trimethylbenzene	ND		ug/l	2.0	--
1,2,4-Trimethylbenzene	ND		ug/l	2.0	--
Ethyl ether	ND		ug/l	2.0	--
Isopropyl Ether	ND		ug/l	2.0	--
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.0	--
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0	--
1,4-Dioxane	ND		ug/l	250	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	100		70-130



**Lab Control Sample Analysis**  
Batch Quality Control

**Project Name:** REED & BARTON  
**Project Number:** 101726.00

**Lab Number:** L1527533  
**Report Date:** 10/30/15

Parameter	LCS		LCS D		%Recovery		RPD	Qual	RPD	Limits
	%Recovery	Qual	%Recovery	Qual	%Recovery	Qual				
MCP Volatile Organics - Westborough Lab Associated sample(s): 01-03 Batch: WG835638-1 WG835638-2										
Methylene chloride	106		104		70-130		2		20	
1,1-Dichloroethane	105		107		70-130		2		20	
Chloroform	105		107		70-130		2		20	
Carbon tetrachloride	106		110		70-130		4		20	
1,2-Dichloropropane	105		108		70-130		3		20	
Dibromochloromethane	95		99		70-130		4		20	
1,1,2-Trichloroethane	94		100		70-130		6		20	
Tetrachloroethene	100		100		70-130		0		20	
Chlorobenzene	96		98		70-130		2		20	
Trichlorofluoromethane	110		112		70-130		2		20	
1,2-Dichloroethane	109		109		70-130		0		20	
1,1,1-Trichloroethane	106		109		70-130		3		20	
Bromodichloromethane	108		108		70-130		0		20	
trans-1,3-Dichloropropene	101		103		70-130		2		20	
cis-1,3-Dichloropropene	115		115		70-130		0		20	
1,1-Dichloropropene	104		107		70-130		3		20	
Bromoform	90		97		70-130		7		20	
1,1,2,2-Tetrachloroethane	89		98		70-130		10		20	
Benzene	103		104		70-130		1		20	
Toluene	88		90		70-130		2		20	
Ethylbenzene	95		97		70-130		2		20	



### Lab Control Sample Analysis

Batch Quality Control

Project Name: REED & BARTON  
 Project Number: 101726.00

Lab Number: L1527533  
 Report Date: 10/30/15

Parameter	LCS		LCSD		%Recovery		RPD	Qual	RPD	Limits
	%Recovery	Qual	%Recovery	Qual	%Recovery	Limits				
MCP Volatile Organics - Westborough Lab Associated sample(s): 01-03 Batch: WG835638-1 WG835638-2										
Chloromethane	98		95		70-130		3		20	20
Bromomethane	98		81		70-130		19		20	20
Vinyl chloride	105		105		70-130		0		20	20
Chloroethane	102		103		70-130		1		20	20
1,1-Dichloroethene	106		108		70-130		2		20	20
trans-1,2-Dichloroethene	105		106		70-130		1		20	20
Trichloroethene	106		108		70-130		2		20	20
1,2-Dichlorobenzene	94		94		70-130		0		20	20
1,3-Dichlorobenzene	93		95		70-130		2		20	20
1,4-Dichlorobenzene	94		93		70-130		1		20	20
Methyl tert butyl ether	104		112		70-130		7		20	20
p/m-Xylene	96		99		70-130		3		20	20
o-Xylene	96		98		70-130		2		20	20
cis-1,2-Dichloroethene	106		107		70-130		1		20	20
Dibromomethane	109		110		70-130		1		20	20
1,2,3-Trichloropropane	93		100		70-130		7		20	20
Styrene	97		100		70-130		3		20	20
Dichlorodifluoromethane	92		93		70-130		1		20	20
Acetone	113		123		70-130		8		20	20
Carbon disulfide	102		103		70-130		1		20	20
2-Butanone	101		116		70-130		14		20	20



### Lab Control Sample Analysis Batch Quality Control

**Project Name:** REED & BARTON  
**Project Number:** 101726.00

**Lab Number:** L1527533  
**Report Date:** 10/30/15

Parameter	LCS		LCS D		%Recovery		RPD	Qual	RPD	Limits
	%Recovery	Qual	%Recovery	Qual	%Recovery	Limits				
MCP Volatile Organics - Westborough Lab Associated sample(s): 01-03 Batch: WG835638-1 WG835638-2										
4-Methyl-2-pentanone	103		119		70-130		14		20	
2-Hexanone	89		102		70-130		14		20	
Bromochloromethane	114		112		70-130		2		20	
Tetrahydrofuran	114		122		70-130		7		20	
2,2-Dichloropropane	133	Q	136		70-130	Q	2		20	
1,2-Dibromoethane	97		102		70-130		5		20	
1,3-Dichloropropane	96		100		70-130		4		20	
1,1,1,2-Tetrachloroethane	95		98		70-130		3		20	
Bromobenzene	91		93		70-130		2		20	
n-Butylbenzene	97		98		70-130		1		20	
sec-Butylbenzene	94		96		70-130		2		20	
tert-Butylbenzene	92		93		70-130		1		20	
o-Chlorotoluene	93		93		70-130		0		20	
p-Chlorotoluene	93		94		70-130		1		20	
1,2-Dibromo-3-chloropropane	87		100		70-130		14		20	
Hexachlorobutadiene	96		98		70-130		2		20	
Isopropylbenzene	97		99		70-130		2		20	
p-Isopropyltoluene	95		96		70-130		1		20	
Naphthalene	93		100		70-130		7		20	
n-Propylbenzene	94		95		70-130		1		20	
1,2,3-Trichlorobenzene	95		97		70-130		2		20	



# Lab Control Sample Analysis

Batch Quality Control

Project Name: REED & BARTON  
 Project Number: 101726.00

Lab Number: L1527533  
 Report Date: 10/30/15

Parameter	LCS		LCSD		%Recovery		RPD	
	%Recovery	Qual	%Recovery	Qual	%Recovery	Limits	RPD	Limits
MCP Volatile Organics - Westborough Lab Associated sample(s): 01-03 Batch: WG835638-1 WG835638-2								
1,2,4-Trichlorobenzene	98		98		70-130		0	20
1,3,5-Trimethylbenzene	92		95		70-130		3	20
1,2,4-Trimethylbenzene	93		95		70-130		2	20
Ethyl ether	107		111		70-130		4	20
Isopropyl Ether	104		108		70-130		4	20
Ethyl-Tert-Butyl-Ether	105		109		70-130		4	20
Tertiary-Amyl Methyl Ether	102		107		70-130		5	20
1,4-Dioxane	40	Q	158	Q	70-130		119	20

Surrogate	LCS		LCSD		Acceptance	
	%Recovery	Qual	%Recovery	Qual	%Recovery	Criteria
1,2-Dichloroethane-d4	104		105		70-130	
Toluene-d8	95		95		70-130	
4-Bromofluorobenzene	99		99		70-130	
Dibromofluoromethane	99		102		70-130	



## METALS



**Project Name:** REED & BARTON  
**Project Number:** 101726.00

**Lab Number:** L1527533  
**Report Date:** 10/30/15

**SAMPLE RESULTS**

**Lab ID:** L1527533-04  
**Client ID:** RB-SED-1  
**Sample Location:** 47 ELM ST., NORTON  
**Matrix:** Soil  
**Percent Solids:** 47%

**Date Collected:** 10/27/15 10:00  
**Date Received:** 10/27/15  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
<b>MCP Total Metals - Westborough Lab</b>											
Arsenic, Total	20		mg/kg	0.84	--	1	10/28/15 02:57	10/28/15 12:39	EPA 3050B	97,6010C	JH
Barium, Total	92		mg/kg	0.84	--	1	10/28/15 02:57	10/28/15 12:39	EPA 3050B	97,6010C	JH
Cadmium, Total	ND		mg/kg	0.84	--	1	10/28/15 02:57	10/28/15 12:39	EPA 3050B	97,6010C	JH
Chromium, Total	17		mg/kg	0.84	--	1	10/28/15 02:57	10/28/15 12:39	EPA 3050B	97,6010C	JH
Lead, Total	33		mg/kg	4.2	--	1	10/28/15 02:57	10/28/15 12:39	EPA 3050B	97,6010C	JH
Mercury, Total	1.57		mg/kg	0.139	--	1	10/28/15 07:45	10/28/15 15:10	EPA 7471B	97,7471B	DB
Selenium, Total	ND		mg/kg	4.2	--	1	10/28/15 02:57	10/28/15 12:39	EPA 3050B	97,6010C	JH
Silver, Total	ND		mg/kg	0.84	--	1	10/28/15 02:57	10/28/15 12:39	EPA 3050B	97,6010C	JH



Project Name: REED & BARTON  
 Project Number: 101726.00

Lab Number: L1527533  
 Report Date: 10/30/15

### Method Blank Analysis Batch Quality Control

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
MCP Total Metals - Westborough Lab for sample(s): 04 Batch: WG834823-1									
Arsenic, Total	ND	mg/kg	0.40	--	1	10/28/15 02:57	10/28/15 11:29	97,6010C	JH
Barium, Total	ND	mg/kg	0.40	--	1	10/28/15 02:57	10/28/15 11:29	97,6010C	JH
Cadmium, Total	ND	mg/kg	0.40	--	1	10/28/15 02:57	10/28/15 11:29	97,6010C	JH
Chromium, Total	ND	mg/kg	0.40	--	1	10/28/15 02:57	10/28/15 11:29	97,6010C	JH
Lead, Total	ND	mg/kg	2.0	--	1	10/28/15 02:57	10/28/15 11:29	97,6010C	JH
Selenium, Total	ND	mg/kg	2.0	--	1	10/28/15 02:57	10/28/15 11:29	97,6010C	JH
Silver, Total	ND	mg/kg	0.40	--	1	10/28/15 02:57	10/28/15 11:29	97,6010C	JH

#### Prep Information

Digestion Method: EPA 3050B

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
MCP Total Metals - Westborough Lab for sample(s): 04 Batch: WG834831-1									
Mercury, Total	ND	mg/kg	0.083	--	1	10/28/15 07:45	10/28/15 14:47	97,7471B	DB

#### Prep Information

Digestion Method: EPA 7471B



### Lab Control Sample Analysis Batch Quality Control

**Project Name:** REED & BARTON  
**Project Number:** 101726.00

**Lab Number:** L1527533  
**Report Date:** 10/30/15

Parameter	LCS		LCSD		%Recovery		RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual	Limits	Qual			
MCP Total Metals - Westborough Lab Associated sample(s): 04 Batch: WG834823-2 WG834823-3 SRM Lot Number: D088-540									
Arsenic, Total	105		105		79-121		0		30
Barium, Total	110		99		83-117		11		30
Cadmium, Total	107		107		83-117		0		30
Chromium, Total	110		110		80-120		0		30
Lead, Total	98		98		81-117		0		30
Selenium, Total	108		108		78-122		0		30
Silver, Total	110		108		75-124		2		30

MCP Total Metals - Westborough Lab Associated sample(s): 04 Batch: WG834831-2 WG834831-3 SRM Lot Number: D088-540									
Mercury, Total	100		103		72-128		3		30



# **INORGANICS & MISCELLANEOUS**

**Project Name:** REED & BARTON  
**Project Number:** 101726.00

**Lab Number:** L1527533  
**Report Date:** 10/30/15

**SAMPLE RESULTS**

**Lab ID:** L1527533-04  
**Client ID:** RB-SED-1  
**Sample Location:** 47 ELM ST., NORTON  
**Matrix:** Soil

**Date Collected:** 10/27/15 10:00  
**Date Received:** 10/27/15  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	47.2		%	0.100	NA	1	-	10/27/15 19:27	30,2540G	RT



Project Name: REED &amp; BARTON

Lab Number: L1527533

Project Number: 101726.00

Report Date: 10/30/15

## Sample Receipt and Container Information

Were project specific reporting limits specified? YES

## Cooler Information Custody Seal

Cooler

A Absent

## Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1527533-01A	Vial HCl preserved	A	N/A	2.3	Y	Absent	MCP-8260-10(14)
L1527533-01B	Vial HCl preserved	A	N/A	2.3	Y	Absent	MCP-8260-10(14)
L1527533-01C	Vial HCl preserved	A	N/A	2.3	Y	Absent	MCP-8260-10(14)
L1527533-02A	Vial HCl preserved	A	N/A	2.3	Y	Absent	MCP-8260-10(14)
L1527533-02B	Vial HCl preserved	A	N/A	2.3	Y	Absent	MCP-8260-10(14)
L1527533-02C	Vial HCl preserved	A	N/A	2.3	Y	Absent	MCP-8260-10(14)
L1527533-03A	Vial HCl preserved	A	N/A	2.3	Y	Absent	MCP-8260-10(14)
L1527533-03B	Vial HCl preserved	A	N/A	2.3	Y	Absent	MCP-8260-10(14)
L1527533-03C	Vial HCl preserved	A	N/A	2.3	Y	Absent	MCP-8260-10(14)
L1527533-04A	Glass 120ml/4oz unpreserved	A	N/A	2.3	Y	Absent	MCP-CR-6010T-10(180),MCP-AS-6010T-10(180),MCP-7471T-10(28),MCP-CD-6010T-10(180),MCP-AG-6010T-10(180),MCP-SE-6010T-10(180),MCP-BA-6010T-10(180),MCP-PB-6010T-10(180)
L1527533-04B	Plastic 2oz unpreserved for TS	A	N/A	2.3	Y	Absent	TS(7)
L1527533-05A	Vial HCl preserved	A	N/A	2.3	Y	Absent	HOLD-8260(14)
L1527533-05B	Vial HCl preserved	A	N/A	2.3	Y	Absent	HOLD-8260(14)

\*Values in parentheses indicate holding time in days



**Project Name:** REED & BARTON  
**Project Number:** 101726.00

**Lab Number:** L1527533  
**Report Date:** 10/30/15

## GLOSSARY

### Acronyms

EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
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.
LCS D	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: 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.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
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.
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.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL 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.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

### Footnotes

- 1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

### Terms

**Total:** With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

**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

- 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 at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

**Report Format:** Data Usability Report



**Project Name:** REED & BARTON**Lab Number:** L1527533**Project Number:** 101726.00**Report Date:** 10/30/15**Data Qualifiers**

- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to 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.
- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.
- J** - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- ND** - Not detected at the reporting limit (RL) for the sample.

---

*Report Format:* Data Usability Report

**Project Name:** REED & BARTON  
**Project Number:** 101726.00

**Lab Number:** L1527533  
**Report Date:** 10/30/15

### REFERENCES

- 30 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.
- 97 EPA Test Methods (SW-846) with QC Requirements & Performance Standards for the Analysis of EPA SW-846 Methods under the Massachusetts Contingency Plan, WSC-CAM-IIA, IIB, IIIA, IIIB, IIIC, IIID, VA, VB, VC, VIA, VIB, VIIIA and VIIIB, July 2010.

### LIMITATION OF LIABILITIES

Alpha Analytical 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 Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical 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 Analytical.

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.



## Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

### Westborough Facility

**EPA 8260C:** 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene, Iodomethane (methyl iodide) (soil), Methyl methacrylate (soil), Azobenzene.

**EPA 8270D:** Dimethylnaphthalene, 1,4-Diphenylhydrazine.

**EPA 625:** 4-Chloroaniline, 4-Methylphenol.

**SM4500:** Soil: Total Phosphorus, TKN, NO<sub>2</sub>, NO<sub>3</sub>.

### Mansfield Facility

**EPA 8270D:** Biphenyl.

**EPA 2540D:** TSS

**EPA TO-15:** Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

The following analytes are included in our Massachusetts DEP Scope of Accreditation, Westborough Facility:

### Drinking Water

**EPA 200.8:** Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Tl; **EPA 200.7:** Ba,Be,Ca,Cd,Cr,Cu,Na; **EPA 245.1:** Mercury;

**EPA 300.0:** Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO<sub>3</sub>-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B**

**EPA 332:** Perchlorate.

**Microbiology:** **SM9215B; SM9223-P/A, SM9223B-Colilert-QT, Enterolert-QT.**

### Non-Potable Water

**EPA 200.8:** Al,Sb,As,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,Zn;

**EPA 200.7:** Al,Sb,As,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Mo,Ni,K,Se,Ag,Na,Sr,Ti,Tl,V,Zn;

**EPA 245.1, SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2340B, SM2320B, SM4500CL-E, SM4500F-BC,**

**SM426C, SM4500NH<sub>3</sub>-BH, EPA 350.1:** Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **SM4500NO<sub>3</sub>-F,**

**EPA 353.2:** Nitrate-N, **SM4500NH<sub>3</sub>-BC-NES, EPA 351.1, SM4500P-E, SM4500P-B, E, SM5220D, EPA 410.4,**

**SM5210B, SM5310C, SM4500CL-D, EPA 1664, SM14 510AC, EPA 420.1, SM4500-CN-CE, SM2540D.**

**EPA 624:** Volatile Halocarbons & Aromatics,

**EPA 608:** Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT,

Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs

**EPA 625:** SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.

**Microbiology:** **SM9223B-Colilert-QT; Enterolert-QT, SM9222D-MF.**

For a complete listing of analytes and methods, please contact your Alpha Project Manager.



Send to Selected Lab

<b>Task Order for Laboratory Assistance</b>		<b>Initial Task Order (CO # 0)</b>	
<b>MassDEP Bureau of Waste Site Cleanup - LSS Contract</b>			
Includes Attachment 1 that provides the list of analytes for this order; Attachment 2 that provides the approved "Other Support Costs" for this order.			
<b>LSS Contract Laboratory</b>	Alpha Analytical, Inc., 8 Walkup Drive, Westborough, MA 01581 Attn: James Occhialini		
<b>Lab Phone, Fax, e-mail</b>	Phone: 508-380-8618 Fax: 508-898-9220 email:jocchialini@alphalab.com		
<b>DEP Requestor (name):</b>	Elliot Jacobs	<b>DEP Order Date:</b>	19-Oct-2015
<b>RTN Number(s), if applicable</b>		<b>DEP Proj. No.</b>	101726.00

<b>Type of Order</b>	<b>Date</b>	<b>DEP POC</b>	Elliot Jacobs
Initial Budget	19-Oct-15	<b>DEP Region</b>	SERO
<b>Site/Proj Name / Address:</b>	Site Discovery - 47 Elm Street Norton	<b>Ph. # POC:</b>	508-946-2786
		<b>e-mail POC:</b>	elliott.jacobs@state.ma.us

Approved Budget Summary			
<b>DEP Cost Adjustments (Non-analytical)</b>	Initial (CO # 0) = \$ 0	<b>Total Cost Adjustments</b>	\$0.00
<b>\$ This Order Only</b>	History of Budget Changes	<b>Total Approved Budget</b>	
<b>\$2,278.50</b>	Initial (CO # 0) = \$ 2278.5	<b>\$2,278.50</b>	

Summary of Samples to be Analyzed		
<b># Samples This Order Only</b>	<b>History of # Samples Sent for Analysis</b>	<b>Total Approved Samples for Analysis</b>
<b>34</b>	Initial (CO # 0) = 34	<b>34</b>

Summary of Analyses (see Analyte Order Sheet for Required Analyses)		
<b># Analyses This Order</b>	<b>History of # Analysis for this Project</b>	<b>Total Approved Analysis for this Project</b>
<b>34</b>	Initial (CO # 0) = 34	<b>34</b>

Environmental media of the samples	
Water (groundwater) / Sediment /	
Additional information and/or special instructions.	
Contact Elliot Jacobs at 508-946-2786 to confirm sampling date and coordinate container drop off/sample pick up. 16 GW samples for VOCs 8260 and 4 sediment samples for metals Cu, Ni, Ag by 6010.	

Contract Status of Ordered Analyses and Description of Approved Non-Contract Analyses	
All analyses in the approved unit price list. Not Applicable	

Data Report Transmittal Information (E-mail or Website Posting Optional)	
<b>Send Data Analysis/Report to following DEP Person:</b>	Same as POC listed above.
<b>Address of DEP report recipient:</b>	Same as POC listed above.

Invoice Instructions	
<b>Lab to Submit Original of Invoice to:</b>	MA Department of Environmental Protection, One Winter Street, Boston, Massachusetts 02108 Attn: Cathy Kiley (6th Fl)
<b>E-mail or hard copies of Complete Invoice to:</b>	cathy.kiley@state.ma.us and ap.madepbwsc@state.ma.us

MassDEP Authorized Approval for this Order	
<b>Name:</b>	<i>Cathy Kiley</i>
<b>Date:</b>	10/20/15

7A  
Volatile Organics CONTINUING CALIBRATION CHECK

Lab Name: Alpha Analytical Labs

SDG No.: L1527533

Instrument ID: Voal16.i Calibration Date: 29-OCT-2015 Time: 19:20

Lab File ID: 1029001 Init. Calib. Date(s): 15-OCT-2 16-OCT-2

Sample No: 8260 CCAL Init. Calib. Times : 22:02 00:38

Compound	RRF	RRF	MIN RRF	%D	MAX %D
dichlorodifluoromethane	.25207	.23096	.1	-8	20
chloromethane	.3425	.33664	.1	-2	20
vinyl chloride	.2682	.28207	.1	5	20
bromomethane	.10531	.10304	.1	-2	20
chloroethane	.15876	.16211	.1	2	20
trichlorofluoromethane	.37453	.41097	.1	10	20
ethyl ether	.13296	.14198	.05	7	20
1,1,-dichloroethene	.21825	.23073	.1	6	20
carbon disulfide	.68547	.70054	.1	2	20
freon-113	.23019	.24801	.1	8	20
iodomethane	.23838	.02612	.05	-89	20
acrolein	.02893	.02985	.05	3	20
methylene chloride	.24452	.25978	.1	6	20
acetone	100	113	.1	13	20
trans-1,2-dichloroethene	.24352	.25535	.1	5	20
methyl acetate	.176	.18173	.01	3	20
methyl tert butyl ether	.68011	.70863	.1	4	20
tert-butyl alcohol	.01646	.01352	.05	-18	20
Diisopropyl Ether	1.0548	1.0944	.05	4	20
1,1-dichloroethane	.48211	.50479	.2	5	20
Halothane	.20262	.20987	.05	4	20
acrylonitrile	.09144	.09383	.05	3	20
Ethyl-Tert-Butyl-Ether	.89501	.93703	.05	5	20
vinyl acetate	.73353	.76032	.05	4	20
cis-1,2-dichloroethene	.26974	.28567	.1	6	20
2,2-dichloropropane	.3212	.4269	.05	33	20
cyclohexane	.41693	.41911	.01	1	30
bromochloromethane	.09244	.10512	.05	14	20
chloroform	.33393	.35051	.2	5	20
ethyl acetate	.2087	.20939	.05	0	20
carbontetrachloride	.28367	.30019	.1	6	20
tetrahydrofuran	100	114	.05	14	20
1,1,1-trichloroethane	.30574	.32447	.1	6	20
2-butanone	.08317	.08441	.1	1	20
1,1-dichloropropene	.25233	.26367	.05	4	20
benzene	.76856	.79517	.5	3	20
Tertiary-Amyl Methyl Ether	.56099	.57024	.05	2	20
1,2-dichloroethane	.25555	.27762	.1	9	20

FORM VII MCP-8260-10

7A  
CONTINUING CALIBRATION CHECK

Lab Name: Alpha Analytical Labs

SDG No.: L1527533

Instrument ID: Voal16.i      Calibration Date: 29-OCT-2015      Time: 19:20

Lab File ID: 1029001      Init. Calib. Date(s): 15-OCT-2      16-OCT-2

Sample No: 8260      CCAL      Init. Calib. Times : 22:02      00:38

Compound	RRF	RRF	MIN RRF	%D	MAX %D	
methyl cyclohexane	.34905	.36973	.01	6	30	
trichloroethene	.19956	.21142	.2	6	20	F
dibromomethane	.1082	.11772	.05	9	20	
1,2-dichloropropane	.22784	.24029	.1	5	20	
bromodichloromethane	.28728	.31056	.2	8	20	
1,4-dioxane	.00043	.00017	.05	-60	20	F
2-chloroethylvinyl ether	.11226	.12891	.05	15	20	
cis-1,3-dichloropropene	.32726	.3766	.2	15	20	
toluene	.65036	.57484	.4	-12	20	
4-methyl-2-pentanone	.06859	.07055	.1	3	20	F
tetrachloroethene	.25885	.25789	.2	0	20	
trans-1,3-dichloropropene	.33573	.33818	.1	1	20	
1,1,2-trichloroethane	.1643	.15415	.1	-6	20	
ethyl-methacrylate	.30226	.27497	.01	-9	20	
chlorodibromomethane	.25583	.24395	.1	-5	20	
1,3-dichloropropane	.33992	.32547	.05	-4	20	
1,2-dibromoethane	.20136	.19508	.1	-3	20	
2-hexanone	.16852	.14967	.1	-11	20	
chlorobenzene	.68998	.66202	.5	-4	20	
ethyl benzene	1.1728	1.1126	.1	-5	20	
1,1,1,2-tetrachloroethane	.2563	.24415	.05	-5	20	
p/m xylene	.45685	.43743	.1	-4	20	
o xylene	.43767	.42132	.3	-4	20	
styrene	.70775	.68551	.31	-3	20	
bromoform	.29415	.26511	.1	-10	20	
isopropylbenzene	1.1817	1.1504	.1	-3	20	
bromobenzene	.54138	.49424	.05	-9	20	
n-propylbenzene	2.6191	2.4525	.05	-6	20	
1,4-dichlorobutane	.84404	.77896	.01	-8	20	
1,1,2,2,-tetrachloroethane	.46433	.41335	.3	-11	20	
4-ethyltoluene	1.0355	1.1005	.05	6	20	
2-chlorotoluene	1.5982	1.4905	.05	-7	20	
1,2,3-trichloropropane	.3679	.34233	.05	-7	20	
1,3,5-trimethylbenzene	1.8829	1.7315	.05	-8	20	
trans-1,4-dichloro-2-butene	.16209	.16414	.05	1	20	
4-chlorotoluene	1.5823	1.4692	.05	-7	20	
tert-butylbenzene	1.6633	1.5391	.05	-7	20	
1,2,4-trimethylbenzene	1.8790	1.7435	.05	-7	20	

FORM VII MCP-8260-10





ANALYTICAL REPORT

Lab Number:	L1528136
Client:	Massachusetts DEP 20 Riverside Drive Lakeville, MA 02347-1676
ATTN:	Elliot Jacobs
Phone:	(508) 946-2786
Project Name:	REED & BARTON
Project Number:	101726.00
Report Date:	11/06/15

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NY (11148), CT (PH-0574), NH (2003), NJ NELAP (MA935), RI (LAO00065), ME (MA00086), PA (68-03671), VA (460195), MD (348), IL (200077), NC (666), TX (T104704476), DOD (L2217), USDA (Permit #P-330-11-00240).

---

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



Project Name: REED & BARTON  
Project Number: 101726.00

Lab Number: L1528136  
Report Date: 11/06/15

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1528136-01	RB-9	WATER	47 ELM ST., NORTON	10/30/15 11:00	10/30/15
L1528136-02	RB-SM-1	WATER	47 ELM ST., NORTON	10/30/15 11:30	10/30/15



Project Name: REED &amp; BARTON

Lab Number: L1528136

Project Number: 101726.00

Report Date: 11/06/15

**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.

<b>An affirmative response to questions A through F is required for "Presumptive Certainty" status</b>		
A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	YES
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	YES
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	YES
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data?"	YES
E a.	VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	N/A
E b.	APH and TO-15 Methods only: Was the complete analyte list reported for each method?	N/A
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	YES
<b>A response to questions G, H and I is required for "Presumptive Certainty" status</b>		
G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	YES
H	Were all QC performance standards specified in the CAM protocol(s) achieved?	NO
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	YES
<b>For any questions answered "No", please refer to the case narrative section on the following page(s).</b>		

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



**Project Name:** REED & BARTON  
**Project Number:** 101726.00

**Lab Number:** L1528136  
**Report Date:** 11/06/15

### 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.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. 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. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. 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. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

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.

#### HOLD POLICY

For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.

**Project Name:** REED & BARTON  
**Project Number:** 101726.00

**Lab Number:** L1528136  
**Report Date:** 11/06/15

**Case Narrative (continued)**

MCP Related Narratives

Volatile Organics

In reference to question H:

The initial calibration, associated with L1528136-01 and -02, did not meet the method required minimum response factor on the lowest calibration standard for 1,4-dioxane (0.00205), as well as the average response factor for 1,4-dioxane.

The continuing calibration standard, associated with L1528136-01 and -02, is outside the acceptance criteria for several compounds; however, it is within overall method allowances. A copy of the continuing calibration standard is included as an addendum to this report.

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:  Lisa Westerlind

Title: Technical Director/Representative

Date: 11/06/15

# ORGANICS



# VOLATILES



Project Name: REED &amp; BARTON

Lab Number: L1528136

Project Number: 101726.00

Report Date: 11/06/15

## SAMPLE RESULTS

Lab ID: L1528136-01  
 Client ID: RB-9  
 Sample Location: 47 ELM ST., NORTON  
 Matrix: Water  
 Analytical Method: 97,8260C  
 Analytical Date: 11/05/15 14:41  
 Analyst: MM

Date Collected: 10/30/15 11:00  
 Date Received: 10/30/15  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>MCP Volatile Organics - Westborough Lab</b>						
Methylene chloride	ND		ug/l	2.0	--	1
1,1-Dichloroethane	ND		ug/l	1.0	--	1
Chloroform	ND		ug/l	1.0	--	1
Carbon tetrachloride	ND		ug/l	1.0	--	1
1,2-Dichloropropane	ND		ug/l	1.0	--	1
Dibromochloromethane	ND		ug/l	1.0	--	1
1,1,2-Trichloroethane	ND		ug/l	1.0	--	1
Tetrachloroethane	ND		ug/l	1.0	--	1
Chlorobenzene	ND		ug/l	1.0	--	1
Trichlorofluoromethane	ND		ug/l	2.0	--	1
1,2-Dichloroethane	ND		ug/l	1.0	--	1
1,1,1-Trichloroethane	ND		ug/l	1.0	--	1
Bromodichloromethane	ND		ug/l	1.0	--	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	--	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	--	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	--	1
1,1-Dichloropropene	ND		ug/l	2.0	--	1
Bromoform	ND		ug/l	2.0	--	1
1,1,2,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Benzene	ND		ug/l	0.50	--	1
Toluene	ND		ug/l	1.0	--	1
Ethylbenzene	ND		ug/l	1.0	--	1
Chloromethane	ND		ug/l	2.0	--	1
Bromomethane	ND		ug/l	2.0	--	1
Vinyl chloride	ND		ug/l	1.0	--	1
Chloroethane	ND		ug/l	2.0	--	1
1,1-Dichloroethene	ND		ug/l	1.0	--	1
trans-1,2-Dichloroethene	ND		ug/l	1.0	--	1
Trichloroethene	ND		ug/l	1.0	--	1
1,2-Dichlorobenzene	ND		ug/l	1.0	--	1



Project Name: REED &amp; BARTON

Lab Number: L1528136

Project Number: 101726.00

Report Date: 11/06/15

## SAMPLE RESULTS

Lab ID: L1528136-01  
 Client ID: RB-9  
 Sample Location: 47 ELM ST., NORTON

Date Collected: 10/30/15 11:00  
 Date Received: 10/30/15  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>MCP Volatile Organics - Westborough Lab</b>						
1,3-Dichlorobenzene	ND		ug/l	1.0	--	1
1,4-Dichlorobenzene	ND		ug/l	1.0	--	1
Methyl tert butyl ether	ND		ug/l	2.0	--	1
p/m-Xylene	ND		ug/l	2.0	--	1
o-Xylene	ND		ug/l	1.0	--	1
Xylene (Total)	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	ND		ug/l	1.0	--	1
1,2-Dichloroethene (total)	ND		ug/l	1.0	--	1
Dibromomethane	ND		ug/l	2.0	--	1
1,2,3-Trichloropropane	ND		ug/l	2.0	--	1
Styrene	ND		ug/l	1.0	--	1
Dichlorodifluoromethane	ND		ug/l	2.0	--	1
Acetone	ND		ug/l	5.0	--	1
Carbon disulfide	ND		ug/l	2.0	--	1
2-Butanone	ND		ug/l	5.0	--	1
4-Methyl-2-pentanone	ND		ug/l	5.0	--	1
2-Hexanone	ND		ug/l	5.0	--	1
Bromochloromethane	ND		ug/l	2.0	--	1
Tetrahydrofuran	ND		ug/l	2.0	--	1
2,2-Dichloropropane	ND		ug/l	2.0	--	1
1,2-Dibromoethane	ND		ug/l	2.0	--	1
1,3-Dichloropropane	ND		ug/l	2.0	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Bromobenzene	ND		ug/l	2.0	--	1
n-Butylbenzene	ND		ug/l	2.0	--	1
sec-Butylbenzene	ND		ug/l	2.0	--	1
tert-Butylbenzene	ND		ug/l	2.0	--	1
o-Chlorotoluene	ND		ug/l	2.0	--	1
p-Chlorotoluene	ND		ug/l	2.0	--	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.0	--	1
Hexachlorobutadiene	ND		ug/l	0.60	--	1
Isopropylbenzene	ND		ug/l	2.0	--	1
p-Isopropyltoluene	ND		ug/l	2.0	--	1
Naphthalene	ND		ug/l	2.0	--	1
n-Propylbenzene	ND		ug/l	2.0	--	1
1,2,3-Trichlorobenzene	ND		ug/l	2.0	--	1
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--	1
1,3,5-Trimethylbenzene	ND		ug/l	2.0	--	1
1,2,4-Trimethylbenzene	ND		ug/l	2.0	--	1

Project Name: REED & BARTON

Lab Number: L1528136

Project Number: 101726.00

Report Date: 11/06/15

**SAMPLE RESULTS**

Lab ID: L1528136-01  
 Client ID: RB-9  
 Sample Location: 47 ELM ST., NORTON

Date Collected: 10/30/15 11:00  
 Date Received: 10/30/15  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>MCP Volatile Organics - Westborough Lab</b>						
Ethyl ether	ND		ug/l	2.0	--	1
Isopropyl Ether	ND		ug/l	2.0	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.0	--	1
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0	--	1
1,4-Dioxane	ND		ug/l	250	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	108		70-130
Dibromofluoromethane	107		70-130



Project Name: REED &amp; BARTON

Lab Number: L1528136

Project Number: 101726.00

Report Date: 11/06/15

## SAMPLE RESULTS

Lab ID: L1528136-02  
 Client ID: RB-SM-1  
 Sample Location: 47 ELM ST., NORTON  
 Matrix: Water  
 Analytical Method: 97,8260C  
 Analytical Date: 11/05/15 15:14  
 Analyst: MM

Date Collected: 10/30/15 11:30  
 Date Received: 10/30/15  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>MCP Volatile Organics - Westborough Lab</b>						
Methylene chloride	ND		ug/l	2.0	--	1
1,1-Dichloroethane	ND		ug/l	1.0	--	1
Chloroform	ND		ug/l	1.0	--	1
Carbon tetrachloride	ND		ug/l	1.0	--	1
1,2-Dichloropropane	ND		ug/l	1.0	--	1
Dibromochloromethane	ND		ug/l	1.0	--	1
1,1,2-Trichloroethane	ND		ug/l	1.0	--	1
Tetrachloroethene	ND		ug/l	1.0	--	1
Chlorobenzene	ND		ug/l	1.0	--	1
Trichlorofluoromethane	ND		ug/l	2.0	--	1
1,2-Dichloroethane	ND		ug/l	1.0	--	1
1,1,1-Trichloroethane	ND		ug/l	1.0	--	1
Bromodichloromethane	ND		ug/l	1.0	--	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	--	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	--	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	--	1
1,1-Dichloropropene	ND		ug/l	2.0	--	1
Bromoform	ND		ug/l	2.0	--	1
1,1,2,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Benzene	ND		ug/l	0.50	--	1
Toluene	1.6		ug/l	1.0	--	1
Ethylbenzene	ND		ug/l	1.0	--	1
Chloromethane	ND		ug/l	2.0	--	1
Bromomethane	ND		ug/l	2.0	--	1
Vinyl chloride	ND		ug/l	1.0	--	1
Chloroethane	ND		ug/l	2.0	--	1
1,1-Dichloroethene	ND		ug/l	1.0	--	1
trans-1,2-Dichloroethene	ND		ug/l	1.0	--	1
Trichloroethene	ND		ug/l	1.0	--	1
1,2-Dichlorobenzene	ND		ug/l	1.0	--	1

Project Name: REED &amp; BARTON

Lab Number: L1528136

Project Number: 101726.00

Report Date: 11/06/15

## SAMPLE RESULTS

Lab ID: L1528136-02  
 Client ID: RB-SM-1  
 Sample Location: 47 ELM ST., NORTON

Date Collected: 10/30/15 11:30  
 Date Received: 10/30/15  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
MCP Volatile Organics - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/l	1.0	--	1
1,4-Dichlorobenzene	ND		ug/l	1.0	--	1
Methyl tert butyl ether	ND		ug/l	2.0	--	1
p/m-Xylene	ND		ug/l	2.0	--	1
o-Xylene	ND		ug/l	1.0	--	1
Xylene (Total)	ND		ug/l	1.0	--	1
cis-1,2-Dichloroethene	ND		ug/l	1.0	--	1
1,2-Dichloroethene (total)	ND		ug/l	1.0	--	1
Dibromomethane	ND		ug/l	2.0	--	1
1,2,3-Trichloropropane	ND		ug/l	2.0	--	1
Styrene	ND		ug/l	1.0	--	1
Dichlorodifluoromethane	ND		ug/l	2.0	--	1
Acetone	ND		ug/l	5.0	--	1
Carbon disulfide	ND		ug/l	2.0	--	1
2-Butanone	ND		ug/l	5.0	--	1
4-Methyl-2-pentanone	ND		ug/l	5.0	--	1
2-Hexanone	ND		ug/l	5.0	--	1
Bromochloromethane	ND		ug/l	2.0	--	1
Tetrahydrofuran	ND		ug/l	2.0	--	1
2,2-Dichloropropane	ND		ug/l	2.0	--	1
1,2-Dibromoethane	ND		ug/l	2.0	--	1
1,3-Dichloropropane	ND		ug/l	2.0	--	1
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--	1
Bromobenzene	ND		ug/l	2.0	--	1
n-Butylbenzene	ND		ug/l	2.0	--	1
sec-Butylbenzene	ND		ug/l	2.0	--	1
tert-Butylbenzene	ND		ug/l	2.0	--	1
o-Chlorotoluene	ND		ug/l	2.0	--	1
p-Chlorotoluene	ND		ug/l	2.0	--	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.0	--	1
Hexachlorobutadiene	ND		ug/l	0.60	--	1
Isopropylbenzene	ND		ug/l	2.0	--	1
p-Isopropyltoluene	ND		ug/l	2.0	--	1
Naphthalene	ND		ug/l	2.0	--	1
n-Propylbenzene	ND		ug/l	2.0	--	1
1,2,3-Trichlorobenzene	ND		ug/l	2.0	--	1
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--	1
1,3,5-Trimethylbenzene	ND		ug/l	2.0	--	1
1,2,4-Trimethylbenzene	ND		ug/l	2.0	--	1



Project Name: REED & BARTON

Lab Number: L1528136

Project Number: 101726.00

Report Date: 11/06/15

**SAMPLE RESULTS**

Lab ID: L1528136-02  
 Client ID: RB-SM-1  
 Sample Location: 47 ELM ST., NORTON

Date Collected: 10/30/15 11:30  
 Date Received: 10/30/15  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>MCP Volatile Organics - Westborough Lab</b>						
Ethyl ether	ND		ug/l	2.0	--	1
Isopropyl Ether	ND		ug/l	2.0	--	1
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.0	--	1
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0	--	1
1,4-Dioxane	ND		ug/l	250	--	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	107		70-130



Project Name: REED & BARTON  
 Project Number: 101726.00

Lab Number: L1528136  
 Report Date: 11/06/15

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 97,8260C  
 Analytical Date: 11/05/15 07:02  
 Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics - Westborough Lab for sample(s): 01-02 Batch: WG837646-3					
Methylene chloride	ND		ug/l	2.0	--
1,1-Dichloroethane	ND		ug/l	1.0	--
Chloroform	ND		ug/l	1.0	--
Carbon tetrachloride	ND		ug/l	1.0	--
1,2-Dichloropropane	ND		ug/l	1.0	--
Dibromochloromethane	ND		ug/l	1.0	--
1,1,2-Trichloroethane	ND		ug/l	1.0	--
Tetrachloroethene	ND		ug/l	1.0	--
Chlorobenzene	ND		ug/l	1.0	--
Trichlorofluoromethane	ND		ug/l	2.0	--
1,2-Dichloroethane	ND		ug/l	1.0	--
1,1,1-Trichloroethane	ND		ug/l	1.0	--
Bromodichloromethane	ND		ug/l	1.0	--
trans-1,3-Dichloropropene	ND		ug/l	0.50	--
cis-1,3-Dichloropropene	ND		ug/l	0.50	--
1,3-Dichloropropene, Total	ND		ug/l	0.50	--
1,1-Dichloropropene	ND		ug/l	2.0	--
Bromoform	ND		ug/l	2.0	--
1,1,2,2-Tetrachloroethane	ND		ug/l	1.0	--
Benzene	ND		ug/l	0.50	--
Toluene	ND		ug/l	1.0	--
Ethylbenzene	ND		ug/l	1.0	--
Chloromethane	ND		ug/l	2.0	--
Bromomethane	ND		ug/l	2.0	--
Vinyl chloride	ND		ug/l	1.0	--
Chloroethane	ND		ug/l	2.0	--
1,1-Dichloroethene	ND		ug/l	1.0	--
trans-1,2-Dichloroethene	ND		ug/l	1.0	--
Trichloroethene	ND		ug/l	1.0	--



Project Name: REED & BARTON  
 Project Number: 101726.00

Lab Number: L1528136  
 Report Date: 11/06/15

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 97,8260C  
 Analytical Date: 11/05/15 07:02  
 Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics - Westborough Lab for sample(s): 01-02 Batch: WG837646-3					
1,2-Dichlorobenzene	ND		ug/l	1.0	--
1,3-Dichlorobenzene	ND		ug/l	1.0	--
1,4-Dichlorobenzene	ND		ug/l	1.0	--
Methyl tert butyl ether	ND		ug/l	2.0	--
p/m-Xylene	ND		ug/l	2.0	--
o-Xylene	ND		ug/l	1.0	--
Xylene (Total)	ND		ug/l	1.0	--
cis-1,2-Dichloroethene	ND		ug/l	1.0	--
1,2-Dichloroethene (total)	ND		ug/l	1.0	--
Dibromomethane	ND		ug/l	2.0	--
1,2,3-Trichloropropane	ND		ug/l	2.0	--
Styrene	ND		ug/l	1.0	--
Dichlorodifluoromethane	ND		ug/l	2.0	--
Acetone	ND		ug/l	5.0	--
Carbon disulfide	ND		ug/l	2.0	--
2-Butanone	ND		ug/l	5.0	--
4-Methyl-2-pentanone	ND		ug/l	5.0	--
2-Hexanone	ND		ug/l	5.0	--
Bromochloromethane	ND		ug/l	2.0	--
Tetrahydrofuran	ND		ug/l	2.0	--
2,2-Dichloropropane	ND		ug/l	2.0	--
1,2-Dibromoethane	ND		ug/l	2.0	--
1,3-Dichloropropane	ND		ug/l	2.0	--
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	--
Bromobenzene	ND		ug/l	2.0	--
n-Butylbenzene	ND		ug/l	2.0	--
sec-Butylbenzene	ND		ug/l	2.0	--
tert-Butylbenzene	ND		ug/l	2.0	--
o-Chlorotoluene	ND		ug/l	2.0	--



Project Name: REED & BARTON  
 Project Number: 101726.00

Lab Number: L1528136  
 Report Date: 11/06/15

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 97,8260C  
 Analytical Date: 11/05/15 07:02  
 Analyst: MM

Parameter	Result	Qualifier	Units	RL	MDL
MCP Volatile Organics - Westborough Lab for sample(s): 01-02 Batch: WG837646-3					
p-Chlorotoluene	ND		ug/l	2.0	--
1,2-Dibromo-3-chloropropane	ND		ug/l	2.0	--
Hexachlorobutadiene	ND		ug/l	0.60	--
Isopropylbenzene	ND		ug/l	2.0	--
p-Isopropyltoluene	ND		ug/l	2.0	--
Naphthalene	ND		ug/l	2.0	--
n-Propylbenzene	ND		ug/l	2.0	--
1,2,3-Trichlorobenzene	ND		ug/l	2.0	--
1,2,4-Trichlorobenzene	ND		ug/l	2.0	--
1,3,5-Trimethylbenzene	ND		ug/l	2.0	--
1,2,4-Trimethylbenzene	ND		ug/l	2.0	--
Ethyl ether	ND		ug/l	2.0	--
Isopropyl Ether	ND		ug/l	2.0	--
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.0	--
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0	--
1,4-Dioxane	ND		ug/l	250	--
tert-Butyl Alcohol	ND		ug/l	10	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	101		70-130



### Lab Control Sample Analysis

Batch Quality Control

**Project Name:** REED & BARTON  
**Project Number:** 101726.00

**Lab Number:** L1528136  
**Report Date:** 11/06/15

Parameter	LCS		LCSD		%Recovery		RPD	Qual	RPD	Limits
	%Recovery	Qual	%Recovery	Qual	%Recovery	Limits				
MCP Volatile Organics - Westborough Lab Associated sample(s): 01-02 Batch: WG837646-1 WG837646-2										
Methylene chloride	107		99		70-130		8		20	
1,1-Dichloroethane	100		103		70-130		3		20	
Chloroform	102		102		70-130		0		20	
Carbon tetrachloride	91		93		70-130		2		20	
1,2-Dichloropropane	102		102		70-130		0		20	
Dibromochloromethane	98		97		70-130		1		20	
1,1,2-Trichloroethane	108		107		70-130		1		20	
Tetrachloroethene	94		94		70-130		0		20	
Chlorobenzene	102		102		70-130		0		20	
Trichlorofluoromethane	93		94		70-130		1		20	
1,2-Dichloroethane	102		104		70-130		2		20	
1,1,1-Trichloroethane	93		93		70-130		0		20	
Bromodichloromethane	99		98		70-130		1		20	
trans-1,3-Dichloropropene	100		100		70-130		0		20	
cis-1,3-Dichloropropene	99		99		70-130		0		20	
1,1-Dichloropropene	93		92		70-130		1		20	
Bromoform	84		97		70-130		14		20	
1,1,2,2-Tetrachloroethane	110		110		70-130		0		20	
Benzene	100		99		70-130		1		20	
Toluene	100		99		70-130		1		20	
Ethylbenzene	101		99		70-130		2		20	





## Lab Control Sample Analysis

Batch Quality Control

**Project Name:** REED & BARTON  
**Project Number:** 101726.00

**Lab Number:** L1528136  
**Report Date:** 11/06/15

Parameter	LCS		LCSD		%Recovery		RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual	%Recovery	Limits			
MCP Volatile Organics - Westborough Lab Associated sample(s): 01-02 Batch: WG837646-1 WG837646-2									
4-Methyl-2-pentanone	106		106		70-130		0		20
2-Hexanone	111		112		70-130		1		20
Bromochloromethane	115		114		70-130		1		20
Tetrahydrofuran	110		104		70-130		6		20
2,2-Dichloropropane	95		95		70-130		0		20
1,2-Dibromoethane	109		108		70-130		1		20
1,3-Dichloropropane	105		104		70-130		1		20
1,1,1,2-Tetrachloroethane	98		98		70-130		0		20
Bromobenzene	100		98		70-130		2		20
n-Butylbenzene	103		101		70-130		2		20
sec-Butylbenzene	96		95		70-130		1		20
tert-Butylbenzene	93		91		70-130		2		20
o-Chlorotoluene	98		99		70-130		1		20
p-Chlorotoluene	101		99		70-130		2		20
1,2-Dibromo-3-chloropropane	121		102		70-130		17		20
Hexachlorobutadiene	95		100		70-130		5		20
Isopropylbenzene	96		95		70-130		1		20
p-Isopropyltoluene	95		92		70-130		3		20
Naphthalene	82		88		70-130		7		20
n-Propylbenzene	98		99		70-130		1		20
1,2,3-Trichlorobenzene	98		106		70-130		8		20



### Lab Control Sample Analysis

Batch Quality Control

Project Name: REED & BARTON  
 Project Number: 101726.00

Lab Number: L1528136  
 Report Date: 11/06/15

Parameter	LCS		LCS D		%Recovery		RPD	Limits
	%Recovery	Qual	%Recovery	Qual	%Recovery	Qual		
MCP Volatile Organics - Westborough Lab Associated sample(s): 01-02 Batch: WG837646-1 WG837646-2								
1,2,4-Trichlorobenzene	96		96		70-130		0	20
1,3,5-Trimethylbenzene	95		94		70-130		1	20
1,2,4-Trimethylbenzene	97		95		70-130		2	20
Ethyl ether	106		105		70-130		1	20
Isopropyl Ether	102		102		70-130		0	20
Ethyl-Tert-Butyl-Ether	97		96		70-130		1	20
Tertiary-Amyl Methyl Ether	96		96		70-130		0	20
1,4-Dioxane	112		126		70-130		12	20
tert-Butyl Alcohol	118		136	Q	70-130		14	20

Surrogate	LCS		LCS D		Acceptance Criteria
	%Recovery	Qual	%Recovery	Qual	
1,2-Dichloroethane-d4	98		98		70-130
Toluene-d8	103		98		70-130
4-Bromofluorobenzene	94		97		70-130
Dibromofluoromethane	103		96		70-130



Project Name: REED &amp; BARTON

Lab Number: L1528136

Project Number: 101726.00

Report Date: 11/06/15

**Sample Receipt and Container Information**

Were project specific reporting limits specified? YES

**Cooler Information Custody Seal****Cooler**

A Absent

**Container Information**

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1528136-01A	Vial HCl preserved	A	N/A	3.1	Y	Absent	MCP-8260-10(14)
L1528136-01B	Vial HCl preserved	A	N/A	3.1	Y	Absent	MCP-8260-10(14)
L1528136-01C	Vial HCl preserved	A	N/A	3.1	Y	Absent	MCP-8260-10(14)
L1528136-02A	Vial HCl preserved	A	N/A	3.1	Y	Absent	MCP-8260-10(14)
L1528136-02B	Vial HCl preserved	A	N/A	3.1	Y	Absent	MCP-8260-10(14)
L1528136-02C	Vial HCl preserved	A	N/A	3.1	Y	Absent	MCP-8260-10(14)

\*Values in parentheses indicate holding time in days



**Project Name:** REED & BARTON  
**Project Number:** 101726.00

**Lab Number:** L1528136  
**Report Date:** 11/06/15

## GLOSSARY

### Acronyms

EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
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.
LFB	- Laboratory Fortified Blank: 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.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
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.
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.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL 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.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

### Footnotes

- 1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

### Terms

**Total:** With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

**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

- 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 at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

**Report Format:** Data Usability Report



**Project Name:** REED & BARTON**Lab Number:** L1528136**Project Number:** 101726.00**Report Date:** 11/06/15**Data Qualifiers**

- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to 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.
- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.
- J** - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- ND** - Not detected at the reporting limit (RL) for the sample.

**Project Name:** REED & BARTON

**Lab Number:** L1528136

**Project Number:** 101726.00

**Report Date:** 11/06/15

### REFERENCES

- 97 EPA Test Methods (SW-846) with QC Requirements & Performance Standards for the Analysis of EPA SW-846 Methods under the Massachusetts Contingency Plan, WSC-CAM-IIA, IIB, IIIA, IIIB, IIIC, IIID, VA, VB, VC, VIA, VIB, VIIIA and VIIIB, July 2010.

### LIMITATION OF LIABILITIES

Alpha Analytical 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 Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical 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 Analytical.

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.



## Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

### Westborough Facility

**EPA 8260C:** 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene; Iodomethane (methyl iodide) (soil); Methyl methacrylate (soil); Azobenzene; Bromobenzene (aqueous).  
**EPA 8270D:** Dimethylnaphthalene, 1,4-Diphenylhydrazine.  
**EPA 625:** 4-Chloroaniline, 4-Methylphenol.  
**SM4500:** Soil: Total Phosphorus, TKN, NO<sub>2</sub>, NO<sub>3</sub>.

### Mansfield Facility

**EPA 8270D:** Biphenyl.  
**EPA 2540D:** TSS  
**EPA TO-15:** Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

The following analytes are included in our Massachusetts DEP Scope of Accreditation, Westborough Facility:

### Drinking Water

**EPA 200.8:** Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Tl; **EPA 200.7:** Ba,Be,Ca,Cd,Cr,Cu,Na; **EPA 245.1:** Mercury;  
**EPA 300.0:** Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO3-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B**  
**EPA 332:** Perchlorate.  
**Microbiology:** **SM9215B; SM9223-P/A, SM9223B-Colilert-QT, Enterolert-QT.**

### Non-Potable Water

**EPA 200.8:** Al,Sb,As,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,Zn;  
**EPA 200.7:** Al,Sb,As,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Mo,Ni,K,Se,Ag,Na,Sr,Ti,Tl,V,Zn;  
**EPA 245.1, SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2340B, SM2320B, SM4500CL-E, SM4500F-BC, SM426C, SM4500NH3-BH, EPA 350.1:** Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **SM4500NO3-F,**  
**EPA 353.2:** Nitrate-N, **SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, SM4500P-B, E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, SM14 510AC, EPA 420.1, SM4500-CN-CE, SM2540D.**  
**EPA 624:** Volatile Halocarbons & Aromatics,  
**EPA 608:** Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs  
**EPA 625:** SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.  
**Microbiology:** **SM9223B-Colilert-QT; Enterolert-QT, SM9222D-MF.**

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

# CHAIN OF CUSTODY

PAGE 1 OF 1

ALPHA Job #: 21528136

Date Rec'd in Lab: 10/30/15

Report Information - Data Deliverables

320 Forbes Blvd  
Mansfield, MA 02048  
Tel: 508-892-9300

8 Walkup Drive  
Westboro, MA 01581  
Tel: 508-892-9220

Project Name: Reed & Barton

### Client Information

Client: Mass DEP

Address: 20 Riverside Drive

Lakeville, MA 02347

Phone: 508-946-2786

Email: elliot.jacobs@state.ma.us

Project Location: 476 W. St. Norton

Project #: 101726-00

Project Manager: Gillett Jacobs

ALPHA Quote #:

Turn-Around Time

Standard  RUSH (only confirmed if pre-approved)

Date Due: 11/3/15

Additional Project Information:

Regulatory Requirements & Project Information Requirements

- Yes  No MA MCP Analytical Methods
- Yes  No Matrix Spike Required on this SDG? (Required for MCP Inorganics)
- Yes  No GW1 Standards (Info Required for Metals & EPH with Targets)
- Yes  No NPDES RGP
- Other State / Fed Program

Criteria

ANALYSIS	VOC: <input type="checkbox"/> 2260 <input type="checkbox"/> 624 <input type="checkbox"/> 5242	METALS: <input type="checkbox"/> ABN <input type="checkbox"/> PAH	METALS: <input type="checkbox"/> MCP 13 <input type="checkbox"/> MCP 14 <input type="checkbox"/> RCP 15	EPH: <input type="checkbox"/> Ranges & Targets <input type="checkbox"/> RCRAB <input type="checkbox"/> PPI3	VPH: <input type="checkbox"/> Ranges & Targets <input type="checkbox"/> Ranges Only	VPH: <input type="checkbox"/> PCB <input type="checkbox"/> PEST	TPH: <input type="checkbox"/> Quant Only <input type="checkbox"/> Fingerprint	TOTAL # BOTTLES	SAMPLE INFO
28136-01								3	Filtration <input type="checkbox"/> Field <input type="checkbox"/> Lab to do Preservation <input type="checkbox"/> Lab to do
dc								3	

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler Initials	Container Type	Preservative	Requested By:	Received By:	Date/Time
28136-01	RB-9	10/30/15	11:00	water	EBT	V	B	Reed & Barton	10/30/15	10:16 AM
dc	RB-SM-1	10/30/15	11:30	water	EBT					

- Container Type**  
 P= Plastic  
 A= Amber glass  
 V= Vial  
 G= Glass  
 B= Bactera cup  
 C= Cube  
 O= Other  
 E= Encore  
 D= BOD Bottle
- Preservative**  
 A= None  
 B= HCl  
 C= HNO<sub>3</sub>  
 D= H<sub>2</sub>SO<sub>4</sub>  
 E= NaOH  
 F= MeOH  
 G= NaHSO<sub>4</sub>  
 H= Na<sub>2</sub>S<sub>2</sub>O<sub>8</sub>  
 I= Ascorbic Acid  
 J= NH<sub>4</sub>Cl  
 K= Zn Acetate  
 O= Other

All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

7A  
Volatile Organics CONTINUING CALIBRATION CHECK

Lab Name: Alpha Analytical Labs

SDG No.: L1528136

Instrument ID: Jack.i      Calibration Date: 05-NOV-2015      Time: 05:25

Lab File ID: 1105B02      Init. Calib. Date(s): 12-OCT-2      12-OCT-2

Sample No: 8260 CCAL      Init. Calib. Times : 11:05      14:19

Compound	RRF	RRF	MIN RRF	%D	MAX %D
dichlorodifluoromethane	.64845	.5274	.1	-19	20
chloromethane	.97727	.9714	.1	-1	20
vinyl chloride	.82783	.78676	.1	-5	20
bromomethane	.32615	.18633	.1	-43	20
chloroethane	.41172	.45932	.1	12	20
trichlorofluoromethane	.9394	.8704	.1	-7	20
ethyl ether	.29204	.31035	.05	6	20
1,1,-dichloroethene	.56977	.55427	.1	-3	20
carbon disulfide	1.7088	1.5794	.1	-8	20
methylene chloride	.59702	.63972	.1	7	20
acetone	100	128	.1	28	20
trans-1,2-dichloroethene	.63117	.64086	.1	2	20
methyl tert butyl ether	1.2511	1.2914	.1	3	20
tert butyl alcohol	.02869	.03398	.05	18	20
Diisopropyl Ether	2.7426	2.7848	.01	2	20
1,1-dichloroethane	1.3683	1.3689	.2	0	20
Ethyl-Tert-Butyl-Ether	1.9844	1.9290	.05	-3	20
cis-1,2-dichloroethene	.76984	.7723	.1	0	20
2,2-dichloropropane	.96888	.9199	.05	-5	20
bromochloromethane	.30597	.35301	.05	15	20
chloroform	1.1667	1.1896	.2	2	20
carbontetrachloride	.93122	.84949	.1	-9	20
tetrahydrofuran	.16797	.18517	.05	10	20
1,1,1-trichloroethane	1.0560	.98614	.1	-7	20
1,1-dichloropropene	.90464	.84419	.05	-7	20
2-butanone	.19059	.20891	.1	10	20
benzene	2.7957	2.7920	.5	0	20
Tertiary-Amyl Methyl Ether	1.4021	1.3475	.05	-4	20
1,2-dichloroethane	.80995	.82646	.1	2	20
trichloroethene	.71123	.6969	.2	-2	20
dibromomethane	.35257	.38973	.05	11	20
1,2-dichloropropane	.73853	.75663	.1	2	20
bromodichloromethane	.80055	.78975	.2	-1	20
1,4-dioxane	.00297	.00333	.05	12	20
cis-1,3-dichloropropene	.94696	.93594	.2	-1	20
toluene	2.1705	2.1738	.4	0	20
tetrachloroethene	1.0234	.96226	.2	-6	20
4-methyl-2-pentanone	.15137	.16057	.1	6	20

FORM VII MCP-8260-10

7A  
CONTINUING CALIBRATION CHECK

Lab Name: Alpha Analytical Labs

SDG No.: L1528136

Instrument ID: Jack.i      Calibration Date: 05-NOV-2015    Time: 05:25

Lab File ID: 1105B02      Init. Calib. Date(s): 12-OCT-2    12-OCT-2

Sample No: 8260 CCAL      Init. Calib. Times : 11:05      14:19

Compound	RRF	RRF	MIN RRF	%D	MAX %D
trans-1,3-dichloropropene	.8899	.88709	.1	0	20
1,1,2-trichloroethane	.45228	.48649	.1	8	20
chlorodibromomethane	.66722	.65389	.1	-2	20
1,3-dichloropropane	.95209	1.0004	.05	5	20
1,2-dibromoethane	.51877	.56654	.1	9	20
2-hexanone	.32965	.36591	.1	11	20
chlorobenzene	2.4227	2.4783	.5	2	20
ethyl benzene	4.0737	4.1007	.1	1	20
1,1,1,2-tetrachloroethane	.83842	.81982	.05	-2	20
p/m xylene	1.6470	1.7173	.1	4	20
o xylene	1.5375	1.5993	.3	4	20
bromoform	.64153	.5365	.1	-16	20
styrene	2.4785	2.6809	.3	8	20
isopropylbenzene	8.2002	7.8364	.1	-4	20
bromobenzene	1.9059	1.8986	.05	0	20
n-propylbenzene	6.1637	6.0523	.05	-2	20
1,1,2,2,-tetrachloroethane	1.0394	1.1396	.3	10	20
2-chlorotoluene	6.1637	6.0523	.05	-2	20
1,2,3-trichloropropane	.89186	.93067	.05	4	20
1,3,5-trimethybenzene	6.8613	6.5382	.05	-5	20
4-chorotoluene	5.4477	5.5096	.05	1	20
tert-butylbenzene	6.1050	5.6961	.05	-7	20
1,2,4-trimethylbenzene	6.7124	6.4980	.05	-3	20
sec-butylbenzene	8.5387	8.1897	.01	-4	20
p-isopropyltoluene	7.6423	7.2290	.05	-5	20
1,3-dichlorobenzene	3.8379	3.8530	.6	0	20
1,4-dichlorobenzene	3.6705	3.8124	.5	4	20
n-butylbenzene	5.5099	5.6694	.05	3	20
1,2-dichlorobenzene	3.3135	3.4421	.4	4	20
1,2-dibromo-3-chloropropane	.13751	.16593	.05	21	20
1,2,4-trichlorobenzene	100	95.490	.2	-5	20
hexachlorobutadiene	.64557	.61256	.05	-5	20
naphthalene	100	82.394	.05	-18	20
1,2,3-trichlorobenzene	100	97.705	.05	-2	20
dibromofluoromethane	.24936	.25754	.05	3	20
1,2-dichloroethane-d4	.27078	.26638	.05	-2	20
toluene-d8	1.1679	1.2045	.01	3	20

FORM VII MCP-8260-10



# Closed Reed and Barton

## Facility

### Elm Street and Cross Road

Norton, MA

○ Microwell

● Seepage Meter

0 50 ft  
Approx Scale

10/30/15

