Environmental Resources Management

One Beacon Street, 5<sup>th</sup> Floor Boston, MA 02108 +1 617 646 7800 +1 617 267 6447 (fax)

http://www.erm.com

16 August 2012 Reference: 0167058

Mr. Tim Skehan c/o Russell's Garden Center 397 Boston Post Road Wayland, MA 01778

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

Dear Mr. Skehan:

On behalf of Raytheon Company (Raytheon), Environmental Resources Management (ERM) is submitting the results of groundwater sample analyses related to the Former Raytheon Facility located at 430 Boston Post Road in Wayland, Massachusetts (Site). These results are submitted pursuant to 310 CMR 40.1403(10) of the Massachusetts Contingency Plan (MCP).

ERM collected groundwater samples from an irrigation well on your property on 24 July 2012. Samples were submitted to TestAmerica Laboratories, Inc. of Westfield, Massachusetts. Analytical results are attached to this letter. These analytical data will be provided to the Massachusetts Department of Environmental Protection in the next MCP submittal.

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



Mr. Skehan 16 August 2012 Page 2 Environmental Resources Management

If you have any questions or comments, please contact the undersigned at (617) 646-7800 or Jonathan Hone, Raytheon Company, at (978) 436-8298.

Sincerely,

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

Jason D. Flattery, P.E. *Project Manager* 

enclosures: BWSC-123 – Notice of Environmental Sampling Laboratory Analytical Reports

cc: Jonathan Hone, Raytheon Company PIP Repositories

<b>NOTICE OF ENVIRONMENTAL SAMPLING</b> As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan
BWSC 12

BWSC	123
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		This Notice is Relate Release Tracking Num	
		3 13302	
A. The address of the disposal site related to t	this Notice	e and Release Tracking Number (provided above):	
1. Street Address: 430 Boston Post Road			
City/Town: <u>Wayland</u>	Zip Code:	01778	
B. This notice is being provided to the following	ng party:		
1. Name: Russell's Garden Center			
2. Street Address: <u>397 Boston Post Road</u>			
City/Town: Wayland Z	Zip Code:	02903	
C. This notice is being given to inform its reci	pient (the p	party listed in Section B):	
✓ 1. That environmental sampling will be/ha	is been cond	ducted at property owned by the recipient of this notice.	
2. Of the results of environmental samplin	ng conducted	ed at property owned by the recipient of this notice.	
3. Check to indicate if the analytical resul the environmental sampling must be attac	Its are attacl	ched. (If item 2. above is checked, the analytical results fror notice.)	m
D. Location of the property where the environ	mental san	npling will be/has been conducted:	
1. Street Address: <u>430 Boston Post Road</u>			
City/Town: Wayland	Zip Code:	01778	
2. MCP phase of work during which the sampling	will be/has	been conducted:	
<ul> <li>Immediate Response Action</li> <li>Release Abatement Measure</li> <li>Utility-related Abatement Measure</li> <li>Phase I Initial Site Investigation</li> <li>Phase II Comprehensive Site Assessment</li> <li>3. Description of property where sampling will be/</li> </ul>	<ul> <li>☐ Phase</li> <li>✓ Phase</li> <li>☐ Post-0</li> <li>☐ Other</li> </ul>	(specify)	
🗌 residential 🛛 commerical 🗹 i	industrial	school/playground Other	
4. Description of the sampling locations and types	s (e.g., soil,	(specify) groundwater) to the extent known at the time of this notice	
Collection of groundwater samples from	m existing	g monitoring wells.	
E. Contact information related to the party pro- Contact Name: Louis J. Burkhardt	viding this	notice:	
Street Address: 880 Technology Park Drive, T-30	033		
City/Town: Billerica	Zip Code:	01821	
Telephone: (978) 436-8238	Email: lou	uis_j_burkhardt@raytheon.com	

#### NOTICE OF ENVIRONMENTAL SAMPLING

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

#### MASSACHUSETTS REGULATIONS THAT REQUIRE THIS NOTICE

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

#### THE PERSON(S) PROVIDING THIS NOTICE

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

#### PURPOSE OF THIS NOTICE

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

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

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

#### FOR MORE INFORMATION

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



THE LEADER IN ENVIRONMENTAL TESTING

## **ANALYTICAL REPORT**

#### TestAmerica Laboratories, Inc.

TestAmerica Westfield Westfield Executive Park 53 Southampton Road Westfield, MA 01085 Tel: (413)572-4000

TestAmerica Job ID: 360-41816-1 Client Project/Site: IDS Wayland

#### For:

ERM-Northeast One Beacon Steet 5th Floor Boston, Massachusetts 02108

Attn: Jason Flattery

James Jer

Authorized for release by: 7/30/2012 2:06:31 PM James Wickham Technology Manager jamie.wickham@testamericainc.com

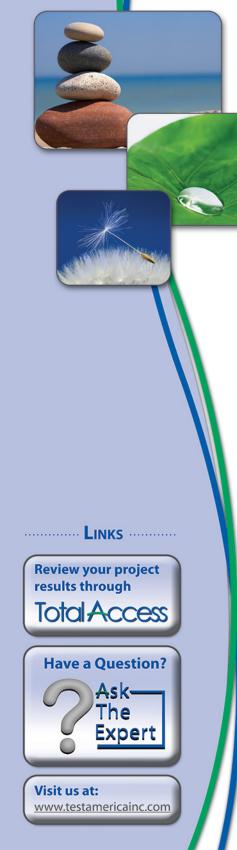
Designee for

Becky Mason Project Manager II becky.mason@testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.



## **Table of Contents**

Cover Page	1
Table of Contents	2
Case Narrative	3
Detection Summary	5
Method Summary	6
Sample Summary	7
Client Sample Results	8
Definitions	12
QC Association	13
Surrogate Summary	14
QC Sample Results	15
Chronicle	21
Certification Summary	22
Receipt Checklists	24
Chain of Custody	25

3
5
8
9
13

	MassDEP Analytical Protocol Certification Form						
Labo	Laboratory Name: TestAmerica Westfield Project #: 360-41816-1						
Proje	ect Location:	IDS W	ayland	RTN:			
This	form provide	es certifications for	the following data	a set: list Laborato	ory Sample ID Number(s):		
360-4	1816-1						
Matrio	ces: X	Groundwater/Surfa	ce Water	Soil/Sediment	Drinking Water Air	Other:	
		(check all that ap					
8260 CAM	_	7470/7471 Hg CAM III B	Mass DEP VPH	8081 Pesticides	7196 Hex Cr CAM VI B	Mass DEP APH	
	SVOC	7010 Metals	Mass DEP EPH	8151 Herbicides	8330 Explosives	TO-15 VOC	
CAM	II B	CAM III C	CAM IV B			САМ ІХ В	
6010 Metals 6020 Metals 8082 PCB Cyanide/PAC 6860 Perchlorate							
CAM							
	Affirmative	Responses to Que	stions A through I	F are required for "	Presumptive Certainty st	tatus	
					ed on the Chain-of-Custody,		
A	properly pre method hold		mperature) in the fie	eld or laboratory, and	d prepared/analyzed within	X Yes No	
B Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?					XYes No		
с	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?       X Yes					X Yes No	
D					pecified in CAM VII A, nd Reporting of Analytical	X Yes 🗌 No	
Е	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).       Image: Constraint of the individual method of the indit method of the individual method of the indivi						
- Were all applicable CAM protocol QC and performance standard non-conformances identified and					XYes No		
	Responses to Questions G, H and I below are required for "Presumptive Certainty" status						
G	Were the reprotocol(s)?		elow all CAM report	ing limits specified i	n the selected CAM	Yes X No <sup>1</sup>	
<u>Data User Note:</u> Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WCS-07-350							
н		performance stand				Yes X No <sup>1</sup>	
1		•	•	• • • • •	cted CAM protocol(s) ?	Yes X No <sup>1</sup>	
<sup>1</sup> All negative responses must be addressed in an attached laboratory narrative.							
obtair	l, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, is accurate and complete.						
Signa	ature:	Donum -	Diem	Position:	Technical M	anager	
	ed Name:	James \	Vickham	Date:	7/30/12 1	4:03	
1113 1011		anouny signed and approved					

#### Job ID: 360-41816-1

#### Laboratory: TestAmerica Westfield

#### Narrative

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

TestAmerica's Reporting Limits (RLs) for this report may not always meet client specified method reporting limits due to various reasons such as methodology, dilutions, matrix or moisture content (soils). TestAmerica's pivot table EDD documents which compound(s) exceed certain regulatory standards. If not included with your deliverables, please contact your Project Manager about the availability of this EDD for your report.

#### Receipt

The sample was received on 7/24/2012 3:30 PM; the sample arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.2° C.

#### GC/MS VOA

Method 8260C: For batch 93476 the curve dated 7-25-12-12 uses quadratic regressions for Methylene Chloride

Method 8260C: The laboratory control sample (LCS) and the laboratory control sample duplicate (LCSD) for batch 93476 exceeded control limits for one or more compounds. The data is flagged accordingly. Please reference the QC report for details.

No other analytical or quality issues were noted.

#### Metals

At the request of the client, a non-MCP analyte list was reported for this job.

No analytical or quality issues were noted.

#### **General Chemistry**

No analytical or quality issues were noted.

Client Sample ID: RUSSWELL-20120724-01

#### Lab Sample ID: 360-41816-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type	4
Chlorodibromomethane	4.3		0.50		ug/L	1	_	8260C	Total/NA	
Chloroform	28		1.0		ug/L	1		8260C	Total/NA	5
Dichlorobromomethane	9.6		0.50		ug/L	1		8260C	Total/NA	J
Sodium	33000		2000		ug/L	1		6010C	Total/NA	
Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type	
Chloride	67		10		mg/L	10	_	300.0	Total/NA	
										8
										9
										13

#### Client: ERM-Northeast Project/Site: IDS Wayland

5	
8	
9	
13	

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds (GC/MS)	MA DEP	TAL WFD
6010C	Metals (ICP)	SW846	TAL WFD
300.0	Anions, Ion Chromatography	MCAWW	TAL WFD

#### Protocol References:

MA DEP = Massachusetts Department Of Environmental Protection

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

#### Laboratory References:

TAL WFD = TestAmerica Westfield, Westfield Executive Park, 53 Southampton Road, Westfield, MA 01085, TEL (413)572-4000

#### Sample Summary

Client: ERM-Northeast Project/Site: IDS Wayland

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
360-41816-1	RUSSWELL-20120724-01	Water	07/24/12 11:30	07/24/12 15:30

	41816-1 k: Water	Sample ID: 360- Matrix	Lab
5	Dil Fac	Analyzed	red
	1	07/26/12 16:25	
	1	07/26/12 16:25	
	1	07/26/12 16:25	
7	1	07/26/12 16:25	
	1	07/26/12 16:25	

	Method: 8260C - Volatile	<b>Organic Compounds</b>	(GC/MS)
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Client Sample ID: RUSSWELL-20120724-01

Regult Qualifier	ы		D Branarad	Analyzed	Dil Fa
			D Prepared		
		-			
		-			
		-			
		<del>.</del>			
		-			
		ug/L			
	1.0	ug/L		07/26/12 16:25	
ND	1.0	ug/L		07/26/12 16:25	
ND	1.0	ug/L		07/26/12 16:25	
ND	1.0	ug/L		07/26/12 16:25	
ND	1.0	ug/L		07/26/12 16:25	
ND	50	ug/L		07/26/12 16:25	
ND	1.0	ug/L		07/26/12 16:25	
ND *	10	ug/L		07/26/12 16:25	
ND	1.0	ug/L		07/26/12 16:25	
ND	10	ug/L		07/26/12 16:25	
ND	1.0	ug/L		07/26/12 16:25	
ND	1.0	ug/L		07/26/12 16:25	
ND	10	ug/L		07/26/12 16:25	
ND	50	ug/L		07/26/12 16:25	
ND	1.0	ug/L		07/26/12 16:25	
ND	1.0	ug/L		07/26/12 16:25	
ND	1.0	ug/L		07/26/12 16:25	
ND	2.0	ug/L		07/26/12 16:25	
ND	10	ug/L		07/26/12 16:25	
ND	1.0			07/26/12 16:25	
ND	1.0			07/26/12 16:25	
ND	1.0			07/26/12 16:25	
				07/26/12 16:25	
		-			
		<del>.</del>			
ND	10	ug/L		07/26/12 16:25	
	ND ND ND ND ND ND ND ND ND ND ND ND ND N	ND         1.0           ND         1.0           ND         0.50           ND         1.0           ND         1.0	ND         1.0         ug/L           ND         1.0         ug/L           ND         0.50         ug/L           ND         1.0         ug/L	ND         1.0         ug/L           ND         0.50         ug/L           ND         1.0         ug/L	ND         1.0         ugit         -         07/28/12/16/25           ND         1.0         ugit         07/28/12/16/25         ND           ND         0.56         ugit         07/28/12/16/25         ND           ND         1.0         ugit         07/28/12/16/25         ND         16/28/12/16/25           ND         1.0         ugit         07/28/12/16/25         ND         16/28/12/16/25         ND         17/28/12/16/25           ND         1.0         ugit         07/28/12/16/25         ND         17/28/12/16/25         ND         10/28/12/16/25         ND </td

Lab Sample ID: 360-41816-1

Matrix: Water

5

6 7

#### Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

#### Client Sample ID: RUSSWELL-20120724-01 Date Collected: 07/24/12 11:30

Date Received: 07/24/12 15:30								
Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	ND		2.0	ug/L			07/26/12 16:25	1
Methyl tert-butyl ether	ND		1.0	ug/L			07/26/12 16:25	1
Methylene Chloride	ND		2.0	ug/L			07/26/12 16:25	1
n-Butylbenzene	ND		1.0	ug/L			07/26/12 16:25	1
N-Propylbenzene	ND		1.0	ug/L			07/26/12 16:25	1
Naphthalene	ND		5.0	ug/L			07/26/12 16:25	1
o-Xylene	ND		1.0	ug/L			07/26/12 16:25	1
sec-Butylbenzene	ND		1.0	ug/L			07/26/12 16:25	1
Styrene	ND		1.0	ug/L			07/26/12 16:25	1
Tert-amyl methyl ether	ND		5.0	ug/L			07/26/12 16:25	1
Tert-butyl ethyl ether	ND		5.0	ug/L			07/26/12 16:25	1
tert-Butylbenzene	ND		1.0	ug/L			07/26/12 16:25	1
Tetrachloroethene	ND		1.0	ug/L			07/26/12 16:25	1
Tetrahydrofuran	ND		10	ug/L			07/26/12 16:25	1
Toluene	ND		1.0	ug/L			07/26/12 16:25	1
trans-1,2-Dichloroethene	ND		1.0	ug/L			07/26/12 16:25	1
trans-1,3-Dichloropropene	ND		0.40	ug/L			07/26/12 16:25	1
Trichloroethene	ND		1.0	ug/L			07/26/12 16:25	1
Trichlorofluoromethane	ND		1.0	ug/L			07/26/12 16:25	1
Vinyl chloride	ND		0.50	ug/L			07/26/12 16:25	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	99		70 - 130		-		07/26/12 16:25	1
Dibromofluoromethane	103		70 - 130				07/26/12 16:25	1
Toluene-d8 (Surr)	98		70 - 130				07/26/12 16:25	1

#### Method: 6010C - Metals (ICP)

Client Sample ID: RUSSWELL-20120724-01 Date Collected: 07/24/12 11:30							Lab S	ample ID: 360- Matrix	41816-1 c: Water
Date Received: 07/24/12 15:30									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium	33000		2000		ug/L		07/25/12 10:25	07/25/12 16:57	1

#### **Client Sample Results**

7

#### Client: ERM-Northeast Project/Site: IDS Wayland

General Chemistry									
_ Client Sample ID: RUSS	SWELL-20120724-01						Lab	Sample ID: 360-	41816-1
Date Collected: 07/24/12 11:30							Matrix	c: Water	
Date Received: 07/24/12	2 15:30								
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	67		10		mg/L			07/26/12 15:28	10

#### Client: ERM-Northeast Project/Site: IDS Wayland

#### Qualifiers

#### **GC/MS VOA**

Qualifier	Qualifier Description
*	LCS or LCSD exceeds the control limits

#### Glossary

Quaimer	Qualifier Description	
*	LCS or LCSD exceeds the control limits	5
Glossary		6
Abbreviation	These commonly used abbreviations may or may not be present in this report.	
¢.	Listed under the "D" column to designate that the result is reported on a dry weight basis	
%R	Percent Recovery	
CNF	Contains no Free Liquid	8
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample	
EDL	Estimated Detection Limit	9
EPA	United States Environmental Protection Agency	
MDL	Method Detection Limit	
ML	Minimum Level (Dioxin)	
ND	Not detected at the reporting limit (or MDL or EDL if shown)	
PQL	Practical Quantitation Limit	
QC	Quality Control	
RL	Reporting Limit	
RPD	Relative Percent Difference, a measure of the relative difference between two points	
TEF	Toxicity Equivalent Factor (Dioxin)	
TEQ	Toxicity Equivalent Quotient (Dioxin)	

#### **GC/MS VOA**

#### Analysis Batch: 93476

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
360-41816-1	RUSSWELL-20120724-01	Total/NA	Water	8260C	
LCS 360-93476/3	Lab Control Sample	Total/NA	Water	8260C	
LCSD 360-93476/4	Lab Control Sample Dup	Total/NA	Water	8260C	
MB 360-93476/6	Method Blank	Total/NA	Water	8260C	

#### Metals

#### Prep Batch: 93422

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
360-41816-1	RUSSWELL-20120724-01	Total/NA	Water	3010A	
LCS 360-93422/2-A	Lab Control Sample	Total/NA	Water	3010A	
LCSD 360-93422/3-A	Lab Control Sample Dup	Total/NA	Water	3010A	
MB 360-93422/1-A	Method Blank	Total/NA	Water	3010A	

#### Analysis Batch: 93462

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch	
360-41816-1	RUSSWELL-20120724-01	Total/NA	Water	6010C	93422	
LCS 360-93422/2-A	Lab Control Sample	Total/NA	Water	6010C	93422	
LCSD 360-93422/3-A	Lab Control Sample Dup	Total/NA	Water	6010C	93422	
MB 360-93422/1-A	Method Blank	Total/NA	Water	6010C	93422	

#### **General Chemistry**

#### Analysis Batch: 93596

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
360-41816-1	RUSSWELL-20120724-01	Total/NA	Water	300.0	
LCS 360-93596/4	Lab Control Sample	Total/NA	Water	300.0	
MB 360-93596/3	Method Blank	Total/NA	Water	300.0	

Prep Type: Total/NA

#### Method: 8260C - Volatile Organic Compounds (GC/MS)

Ма	trix:	W	ater

				Percent Su
		BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	(70-130)
360-41816-1	RUSSWELL-20120724-01	99	103	98
LCS 360-93476/3	Lab Control Sample	100	101	100
LCSD 360-93476/4	Lab Control Sample Dup	101	101	101
MB 360-93476/6	Method Blank	101	102	99

#### Surrogate Legend

BFB = 4-Bromofluorobenzene

DBFM = Dibromofluoromethane

TOL = Toluene-d8 (Surr)

## 2 3 4 5 6 7 8

Client Sample ID: Method Blank Prep Type: Total/NA

#### Lab Sample ID: MB 360-93476/6 Matrix: Water

Matrix: Water						Prep Type: 1	otal/NA
Analysis Batch: 93476	MB	МВ					
Analyte		Qualifier	RL	MDL Unit	D Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	ug/L		07/26/12 14:10	1
1,1,1-Trichloroethane	ND		1.0	ug/L		07/26/12 14:10	1
1,1,2,2-Tetrachloroethane	ND		0.50	ug/L		07/26/12 14:10	1
1,1,2-Trichloroethane	ND		1.0	ug/L		07/26/12 14:10	1
1,1-Dichloroethane	ND		1.0	ug/L		07/26/12 14:10	1
1,1-Dichloroethene	ND		1.0	ug/L		07/26/12 14:10	1
1,1-Dichloropropene	ND		1.0	ug/L		07/26/12 14:10	1
1,2,3-Trichlorobenzene	ND		1.0	ug/L		07/26/12 14:10	1
1,2,3-Trichloropropane	ND		1.0	ug/L		07/26/12 14:10	1
1,2,4-Trichlorobenzene	ND		1.0	ug/L		07/26/12 14:10	
1,2,4-Trimethylbenzene	ND		1.0	ug/L		07/26/12 14:10	1
1,2-Dibromo-3-Chloropropane	ND		5.0	ug/L		07/26/12 14:10	1
1,2-Dichlorobenzene	ND		1.0	ug/L		07/26/12 14:10	1
1,2-Dichloroethane	ND		1.0	ug/L		07/26/12 14:10	1
1,2-Dichloropropane	ND		1.0	ug/L		07/26/12 14:10	1
1,3,5-Trimethylbenzene	ND		1.0	ug/L		07/26/12 14:10	1
1,3-Dichlorobenzene	ND		1.0	ug/L		07/26/12 14:10	1
1,3-Dichloropropane	ND		1.0	ug/L		07/26/12 14:10	1
1,4-Dichlorobenzene	ND		1.0	ug/L		07/26/12 14:10	
1,4-Dioxane	ND		50	ug/L		07/26/12 14:10	1
2,2-Dichloropropane	ND		1.0	ug/L		07/26/12 14:10	1
2-Butanone (MEK)	ND		10	ug/L		07/26/12 14:10	
2-Chlorotoluene	ND		1.0	ug/L		07/26/12 14:10	1
2-Hexanone	ND		10	ug/L		07/26/12 14:10	1
4-Chlorotoluene	ND		1.0	ug/L		07/26/12 14:10	
4-Isopropyltoluene	ND		1.0	ug/L		07/26/12 14:10	1
4-Methyl-2-pentanone (MIBK)	ND		10	ug/L		07/26/12 14:10	1
Acetone	ND		50	ug/L		07/26/12 14:10	
Benzene	ND		1.0	ug/L		07/26/12 14:10	1
Bromobenzene	ND		1.0	ug/L		07/26/12 14:10	1
Bromoform	ND		1.0	ug/L		07/26/12 14:10	
Bromomethane	ND		2.0	ug/L		07/26/12 14:10	1
Carbon disulfide	ND		10	ug/L		07/26/12 14:10	1
Carbon tetrachloride	ND		1.0	ug/L		07/26/12 14:10	1
Chlorobenzene	ND		1.0	ug/L		07/26/12 14:10	1
Chlorobromomethane	ND		1.0	ug/L		07/26/12 14:10	1
Chlorodibromomethane	ND		0.50			07/26/12 14:10	
				ug/L			1
Chloroethane	ND		2.0	ug/L		07/26/12 14:10	1
Chloroform	ND		1.0	ug/L		07/26/12 14:10	1
Chloromethane	ND		2.0	ug/L		07/26/12 14:10	1
cis-1,2-Dichloroethene	ND		1.0	ug/L		07/26/12 14:10	1
cis-1,3-Dichloropropene	ND		0.40	ug/L		07/26/12 14:10	1
Dibromomethane	ND		1.0	ug/L		07/26/12 14:10	1
Dichlorobromomethane	ND		0.50	ug/L		07/26/12 14:10	1
Dichlorodifluoromethane	ND		1.0	ug/L		07/26/12 14:10	1
Ethyl ether	ND		1.0	ug/L		07/26/12 14:10	1
Ethylbenzene	ND		1.0	ug/L		07/26/12 14:10	1
Ethylene Dibromide	ND		1.0	ug/L		07/26/12 14:10	1

**Client Sample ID: Method Blank** 

Prep Type: Total/NA

## 2 3 4 5 6 7 8

	3

Dil Fac

1

1

1

Analyzed

07/26/12 14:10

07/26/12 14:10

07/26/12 14:10

Prep Type: Total/NA

Client Sample ID: Lab Control Sample

Prepared

#### Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

#### Lab Sample ID: MB 360-93476/6

#### Matrix: Water Analysis Batch: 93476

	MB MB					
Analyte	Result Qualifier	RL	MDL Unit	D Prepared	Analyzed	Dil Fac
Isopropyl ether	ND	10	ug/L		07/26/12 14:10	1
Isopropylbenzene	ND	1.0	ug/L		07/26/12 14:10	1
m-Xylene & p-Xylene	ND	2.0	ug/L		07/26/12 14:10	1
Methyl tert-butyl ether	ND	1.0	ug/L		07/26/12 14:10	1
Methylene Chloride	ND	2.0	ug/L		07/26/12 14:10	1
n-Butylbenzene	ND	1.0	ug/L		07/26/12 14:10	1
N-Propylbenzene	ND	1.0	ug/L		07/26/12 14:10	1
Naphthalene	ND	5.0	ug/L		07/26/12 14:10	1
o-Xylene	ND	1.0	ug/L		07/26/12 14:10	1
sec-Butylbenzene	ND	1.0	ug/L		07/26/12 14:10	1
Styrene	ND	1.0	ug/L		07/26/12 14:10	1
Tert-amyl methyl ether	ND	5.0	ug/L		07/26/12 14:10	1
Tert-butyl ethyl ether	ND	5.0	ug/L		07/26/12 14:10	1
tert-Butylbenzene	ND	1.0	ug/L		07/26/12 14:10	1
Tetrachloroethene	ND	1.0	ug/L		07/26/12 14:10	1
Tetrahydrofuran	ND	10	ug/L		07/26/12 14:10	1
Toluene	ND	1.0	ug/L		07/26/12 14:10	1
trans-1,2-Dichloroethene	ND	1.0	ug/L		07/26/12 14:10	1
trans-1,3-Dichloropropene	ND	0.40	ug/L		07/26/12 14:10	1
Trichloroethene	ND	1.0	ug/L		07/26/12 14:10	1
Trichlorofluoromethane	ND	1.0	ug/L		07/26/12 14:10	1
Vinyl chloride	ND	0.50	ug/L		07/26/12 14:10	1
	MB MB					

## Surrogate%RecoveryQualifierLimits4-Bromofluorobenzene10170 - 130Dibromofluoromethane10270 - 130Toluene-d8 (Surr)9970 - 130

#### Lab Sample ID: LCS 360-93476/3 Matrix: Water

#### Analysis Batch: 93476

Analysis Datch. 33470								
	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
1,1,1,2-Tetrachloroethane		21.1		ug/L		106	70 - 130	
1,1,1-Trichloroethane	20.0	21.2		ug/L		106	70 - 130	
1,1,2,2-Tetrachloroethane	20.0	21.3		ug/L		107	70 - 130	
1,1,2-Trichloroethane	20.0	20.3		ug/L		101	70 - 130	
1,1-Dichloroethane	20.0	21.6		ug/L		108	70 - 130	
1,1-Dichloroethene	20.0	19.6		ug/L		98	70 - 130	
1,1-Dichloropropene	20.0	20.6		ug/L		103	70 - 130	
1,2,3-Trichlorobenzene	20.0	20.7		ug/L		103	70 - 130	
1,2,3-Trichloropropane	20.0	20.8		ug/L		104	70 - 130	
1,2,4-Trichlorobenzene	20.0	22.0		ug/L		110	70 - 130	
1,2,4-Trimethylbenzene	20.0	21.4		ug/L		107	70 - 130	
1,2-Dibromo-3-Chloropropane	20.0	19.2		ug/L		96	70 - 130	
1,2-Dichlorobenzene	20.0	20.6		ug/L		103	70 <sub>-</sub> 130	
1,2-Dichloroethane	20.0	21.2		ug/L		106	70 - 130	
1,2-Dichloropropane	20.0	21.1		ug/L		105	70 - 130	
1,3,5-Trimethylbenzene	20.0	21.1		ug/L		105	70 <sub>-</sub> 130	

Prep Type: Total/NA

**Client Sample ID: Lab Control Sample** 

#### Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

#### Lab Sample ID: LCS 360-93476/3

Matrix: V	Vater	
Analysis	Batch:	93476

	Spike	LCS	LCS			%Rec.
Analyte	Added	Result	Qualifier Unit	D	%Rec	Limits
1,3-Dichlorobenzene	20.0	21.1	ug/L		105	70 - 130
,3-Dichloropropane	20.0	20.6	ug/L		103	70 - 130
,4-Dichlorobenzene	20.0	20.7	ug/L		104	70 - 130
,4-Dioxane	200	216	ug/L		108	70 - 130
,2-Dichloropropane	20.0	21.4	ug/L		107	70 <sub>-</sub> 130
-Butanone (MEK)	200	137	* ug/L		69	70 - 130
-Chlorotoluene	20.0	20.6	ug/L		103	70 <sub>-</sub> 130
-Hexanone	200	184	ug/L		92	70 <sub>-</sub> 130
-Chlorotoluene	20.0	20.9	ug/L		104	70 - 130
-Isopropyltoluene	20.0	22.4	ug/L		112	70 <sub>-</sub> 130
Methyl-2-pentanone (MIBK)	200	201	ug/L		100	70 <sub>-</sub> 130
cetone	200	153	ug/L		77	70 - 130
enzene	20.0	21.0	ug/L		105	70 - 130
romobenzene	20.0	20.7	ug/L		104	70 - 130
romoform	20.0	20.6	ug/L		103	70 - 130
romomethane	20.0	19.3	ug/L		96	70 - 130
arbon disulfide	20.0	25.0	ug/L		125	70 - 130
arbon tetrachloride	20.0	21.3	ug/L		106	70 - 130
hlorobenzene	20.0	20.8	ug/L		104	70 - 130
hlorobromomethane	20.0	20.5	ug/L		102	70 - 130
hlorodibromomethane	20.0	20.2	ug/L		101	70 - 130
hloroethane	20.0	19.4	ug/L		97	70 - 130
hloroform	20.0	20.0	ug/L		100	70 - 130
hloromethane	20.0	17.1	ug/L		86	70 - 130
s-1,2-Dichloroethene	20.0	21.3	ug/L		106	70 - 130
s-1,3-Dichloropropene	20.0	19.2	ug/L		96	70 - 130
ibromomethane	20.0	20.7	ug/L		104	70 - 130
ichlorobromomethane	20.0	20.4	ug/L		102	70 - 130
ichlorodifluoromethane	20.0	13.1	-		66	70 - 130
thyl ether	20.0	21.6	ug/L		108	70 - 130
thylbenzene	20.0	20.8	ug/L		104	70 - 130
thylene Dibromide	20.0	20.1	ug/L		101	70 - 130
exachlorobutadiene	20.0	21.2	ug/L		106	70 - 130
sopropyl ether	20.0	21.1	ug/L		105	70 - 130
sopropylbenzene	20.0	20.9	ug/L		104	70 - 130
n-Xylene & p-Xylene	40.0	41.1	ug/L		101	70 - 130
lethyl tert-butyl ether	20.0	21.4	ug/L		100	70 - 130
lethylene Chloride	20.0	20.5	ug/L		102	70 - 130
-Butylbenzene	20.0	21.6	ug/L		108	70 - 130
-Propylbenzene	20.0	21.0	ug/L		106	70 - 130
laphthalene	20.0	21.5	ug/L		100	70 - 130
-Xylene	20.0	20.3	ug/L		103	70 - 130
ec-Butylbenzene	20.0	20.7	ug/L		103	70 <u>-</u> 130
tyrene	20.0	21.4	ug/L		107	70 <sub>-</sub> 130
ert-amyl methyl ether	20.0	21.1	ug/L		105	70 - 130 70 - 130
ert-butyl ethyl ether	20.0	20.8	ug/L		104	70 - 130
		21.3	-			70 - 130 70 - 130
ert-Butylbenzene	20.0	21.2	ug/L		106	
etrachloroethene	20.0		ug/L		104 105	70 - 130 70 - 130
etrahydrofuran	200	209	ug/L		105	70 <sub>-</sub> 130
oluene	20.0	20.1	ug/L		100	70 - 130

#### Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

#### Lab Sample ID: LCS 360-93476/3

#### Matrix: Water

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
rans-1,2-Dichloroethene	20.0	20.6		ug/L		103	70 - 130	
rans-1,3-Dichloropropene	20.0	19.4		ug/L		97	70 <sub>-</sub> 130	
Frichloroethene	20.0	20.2		ug/L		101	70 - 130	
Frichlorofluoromethane	20.0	19.4		ug/L		97	70 <sub>-</sub> 130	
/inyl chloride	20.0	18.5		ug/L		93	70 <sub>-</sub> 130	

	203	203	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene	100		70 - 130
Dibromofluoromethane	101		70 - 130
Toluene-d8 (Surr)	100		70 - 130

#### Lab Sample ID: LCSD 360-93476/4 Matrix: Water

#### Analysis Batch: 93476

Analysis Datch. 33470	Spike		LCSD				%Rec.		RPD	
Analyte	Added		Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
1,1,1,2-Tetrachloroethane	20.0	20.6		ug/L		103	70 - 130	3	20	ī
1,1,1-Trichloroethane	20.0	20.2		ug/L		101	70 - 130	5	20	
1,1,2,2-Tetrachloroethane	20.0	20.8		ug/L		104	70 - 130	2	20	
1,1,2-Trichloroethane	20.0	20.3		ug/L		101	70 - 130	0	20	
1,1-Dichloroethane	20.0	20.7		ug/L		103	70 - 130	4	20	
1,1-Dichloroethene	20.0	18.7		ug/L		94	70 - 130	4	20	
1,1-Dichloropropene	20.0	19.4		ug/L		97	70 - 130	6	20	
1,2,3-Trichlorobenzene	20.0	20.4		ug/L		102	70 - 130	1	20	
1,2,3-Trichloropropane	20.0	20.9		ug/L		104	70 - 130	0	20	
1,2,4-Trichlorobenzene	20.0	21.5		ug/L		107	70 - 130	2	20	
1,2,4-Trimethylbenzene	20.0	20.6		ug/L		103	70 - 130	3	20	
1,2-Dibromo-3-Chloropropane	20.0	19.6		ug/L		98	70 - 130	2	20	
1,2-Dichlorobenzene	20.0	19.9		ug/L		100	70 - 130	3	20	
1,2-Dichloroethane	20.0	20.8		ug/L		104	70 - 130	2	20	
1,2-Dichloropropane	20.0	20.3		ug/L		102	70 _ 130	4	20	
1,3,5-Trimethylbenzene	20.0	20.3		ug/L		102	70 - 130	4	20	
1,3-Dichlorobenzene	20.0	20.1		ug/L		101	70 - 130	5	20	
1,3-Dichloropropane	20.0	20.4		ug/L		102	70 - 130	1	20	
1,4-Dichlorobenzene	20.0	20.1		ug/L		100	70 - 130	3	20	
1,4-Dioxane	200	214		ug/L		107	70 - 130	1	20	
2,2-Dichloropropane	20.0	20.1		ug/L		101	70 - 130	6	20	
2-Butanone (MEK)	200	145		ug/L		73	70 - 130	6	20	
2-Chlorotoluene	20.0	20.1		ug/L		101	70 - 130	3	20	
2-Hexanone	200	185		ug/L		93	70 - 130	1	20	
4-Chlorotoluene	20.0	20.2		ug/L		101	70 - 130	3	20	
4-Isopropyltoluene	20.0	21.6		ug/L		108	70 - 130	4	20	
4-Methyl-2-pentanone (MIBK)	200	203		ug/L		102	70 - 130	1	20	
Acetone	200	154		ug/L		77	70 - 130	0	20	
Benzene	20.0	20.0		ug/L		100	70 - 130	5	20	
Bromobenzene	20.0	20.2		ug/L		101	70 - 130	3	20	
Bromoform	20.0	19.5		ug/L		98	70 - 130	5	20	
Bromomethane	20.0	19.2		ug/L		96	70 - 130	1	20	
Carbon disulfide	20.0	24.6		ug/L		123	70 - 130	1	20	

#### Prep Type: Total/NA

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Lab Sample ID: LCSD 360-93476/4

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

# Client Sample ID: Lab Control Sample Dup 5 6 7 8

Analysis Batch: 93476	• "						~-		
Analyte	Spike Added		LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Carbon tetrachloride	Added	19.9	Quaimer	ug/L		99	70 - 130	7	20
Chlorobenzene	20.0	20.0		ug/L		100	70 - 130 70 - 130	4	20
Chlorobromomethane	20.0	20.0		ug/L		100	70 - 130 70 - 130	2	20
Chlorodibromomethane	20.0	20.1		ug/L		101	70 - 130 70 - 130	1	20
Chloroethane	20.0	18.8		ug/L ug/L		94	70 - 130 70 - 130	3	20
Chloroform	20.0	19.3		-		94 96	70 <sub>-</sub> 130 70 - 130	3 4	20
Chloromethane	20.0	19.3 16.1		ug/L		81	70 - 130 70 - 130	4	20
				ug/L				5	
cis-1,2-Dichloroethene	20.0	20.3		ug/L		102	70 <sub>-</sub> 130		20
cis-1,3-Dichloropropene	20.0	18.7		ug/L		93	70 - 130	3	20
Dibromomethane	20.0	20.8		ug/L		104	70 <sub>-</sub> 130	0	20
Dichlorobromomethane	20.0	20.0		ug/L		100	70 - 130	2	20
Dichlorodifluoromethane	20.0	12.7	*	ug/L		64	70 - 130	3	20
Ethyl ether	20.0	21.5		ug/L		107	70 - 130	1	20
Ethylbenzene	20.0	19.7		ug/L		99	70 - 130	5	20
Ethylene Dibromide	20.0	20.4		ug/L		102	70 - 130	1	20
Hexachlorobutadiene	20.0	19.9		ug/L		100	70 - 130	6	20
Isopropyl ether	20.0	20.5		ug/L		103	70 - 130	3	20
Isopropylbenzene	20.0	20.0		ug/L		100	70 _ 130	4	20
m-Xylene & p-Xylene	40.0	39.1		ug/L		98	70 - 130	5	20
Methyl tert-butyl ether	20.0	21.0		ug/L		105	70 - 130	2	20
Methylene Chloride	20.0	19.8		ug/L		99	70 - 130	3	20
n-Butylbenzene	20.0	20.1		ug/L		101	70 - 130	7	20
N-Propylbenzene	20.0	20.2		ug/L		101	70 - 130	5	20
Naphthalene	20.0	20.5		ug/L		103	70 _ 130	0	20
o-Xylene	20.0	20.0		ug/L		100	70 - 130	3	20
sec-Butylbenzene	20.0	20.4		ug/L		102	70 - 130	5	20
Styrene	20.0	20.4		ug/L		102	70 _ 130	4	20
Tert-amyl methyl ether	20.0	20.8		ug/L		104	70 _ 130	0	20
Tert-butyl ethyl ether	20.0	21.1		ug/L		105	70 - 130	1	20
tert-Butylbenzene	20.0	20.4		ug/L		102	70 - 130	4	20
Tetrachloroethene	20.0	19.8		ug/L		99	70 - 130	5	20
Tetrahydrofuran	200	213		ug/L		106	70 - 130	2	20
Toluene	20.0	19.1		ug/L		95	70 - 130	5	20
trans-1,2-Dichloroethene	20.0	19.3		ug/L		96	70 - 130	7	20
trans-1,3-Dichloropropene	20.0	18.9		ug/L		95	70 - 130	2	20
Trichloroethene	20.0	18.9		ug/L		95	70 - 130	7	20
Trichlorofluoromethane	20.0	18.7		ug/L		94	70 - 130	3	20
Vinyl chloride	20.0	17.6		ug/L		88	70 - 130	5	20

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene	101		70 - 130
Dibromofluoromethane	101		70 - 130
Toluene-d8 (Surr)	101		70 - 130

#### Method: 6010C - Metals (ICP)

TestAmerica	Job I	D: 36	0-41816-1	1

Lab Sample ID: MB 360-93422/1-A											<b>Client Sa</b>	ample ID: N	lethod	Blank
Matrix: Water												Prep Ty	pe: To	tal/NA
Analysis Batch: 93462												Prep	Batch:	93422
	MB	MB												
Analyte	Result	Qualifier		RL		MDL	Unit		D	Р	repared	Analyze	d	Dil Fa
Sodium	ND			2000			ug/L			07/2	5/12 10:25	07/25/12 1	6:17	
- Lab Sample ID: LCS 360-93422/2-A									C	lient	Sample	ID: Lab Co	ntrol S	ample
Matrix: Water												Prep Ty		
Analysis Batch: 93462													Batch:	
			Spike		LCS	LCS						%Rec.		
Analyte			Added		Result	Qual	ifier	Unit		D	%Rec	Limits		
Sodium			20000		19200			ug/L			96	80 - 120		
Lab Sample ID: LCSD 360-93422/3-A								c	liont	Sam	nlo ID· I	ab Control	Sampl	o Du
Matrix: Water								Ŭ	nem	Jan		Prep Ty		
Analysis Batch: 93462													Batch:	
Analysis Datch. 35402			Spike		LCSD	LCS	C					%Rec.	Daten.	RP
Analyte			Added		Result			Unit		D	%Rec	Limits	RPD	Lim
Sodium			20000		20100			ug/L		_	100	80 - 120	5	2
	matogr	aphy												
lethod: 300.0 - Anions, Ion Chro	matogr	aphy									Client Sa	ample ID: N	lethod	Blan
- Method: 300.0 - Anions, Ion Chro - Lab Sample ID: MB 360-93596/3	matogr	aphy									Client Sa	ample ID: N Prep Ty		
- /ethod: 300.0 - Anions, Ion Chro - Lab Sample ID: MB 360-93596/3 Matrix: Water	matogr	aphy									Client Sa	ample ID: N Prep Ty		
Aethod: 300.0 - Anions, Ion Chro Lab Sample ID: MB 360-93596/3 Matrix: Water		арһу									Client Sa			
Aethod: 300.0 - Anions, Ion Chro Lab Sample ID: MB 360-93596/3 Matrix: Water Analysis Batch: 93596 Analyte	МВ			RL		RL	Unit		D		Client Sa		vpe: To	

Lab Sample ID: LCS 360-93596/4 Matrix: Water					Client Sample ID: Lab Control Sam Prep Type: Total/							
Analysis Batch: 93596	Spike	LCS	LCS				%Rec.					
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits					
Chloride	40.0	41.2		mg/L		103	85 - 115					

Lab Sample ID: 360-41816-1

Matrix: Water

#### Client Sample ID: RUSSWELL-20120724-01

#### Date Collected: 07/24/12 11:30 Date Received: 07/24/12 15:30

		•							
	Batch	Batch		Dilution	Batch	Prepared			
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab	
Total/NA	Analysis	8260C		1	93476	07/26/12 16:25	TH	TAL WFD	
Total/NA	Prep	3010A			93422	07/25/12 10:25	BH	TAL WFD	
Total/NA	Analysis	6010C		1	93462	07/25/12 16:57	TJS	TAL WFD	
Total/NA	Analysis	300.0		10	93596	07/26/12 15:28	AMS	TAL WFD	

#### Laboratory References:

TAL WFD = TestAmerica Westfield, Westfield Executive Park, 53 Southampton Road, Westfield, MA 01085, TEL (413)572-4000

#### **Certification Summary**

Client: ERM-Northeast Project/Site: IDS Wayland TestAmerica Job ID: 360-41816-1

#### Laboratory: TestAmerica Westfield

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date						
Connecticut	State Program	1	PH-0494	09-30-12						
Maine	State Program	1	MA00014	05-03-13						
Massachusetts	State Program	1	M-MA014	06-30-13						
New Hampshire	NELAC	1	2539	08-08-12						
Rhode Island	State Program	1	LAO00057	12-30-12						
Vermont	State Program	1	VT-10843	11-18-12						

#### **State Accreditation Matrix**

		Primary A	ccreditation
Mothed Name	Description	New Hampshire (NELAC)	Mass
Method Name 180.1	Description Turbidity, Nephelometric	P	P
80.1 245.1		NP/P	NP
	Mercury (CVAA)	NP/P	NP/P
00 10.4	Anions, Ion Chromatography	NP/F	NF/F NP
		P	P
24.2	Volatile Org Comp (GC/MS)(list upon request)	P	P P
524.2	Trihalomethane compounds	NP	NP
608	Organochlorine Pest/PCBs (list upon request)		1
624	Volatile Org Comp (GC/MS)(list upon request)	NP	NP
25	Semivolatile Org Comp (GC/MS)(list upon request)	NP	NP
010	Ignitability, Pensky-Martens Closed-Cup Method	SW	
103.1	E.coli		ambient/source
3546	Microwave Extraction	SW	
5035	Closed System Purge and Trap	SW	
6020	Metals (ICP/MS) (list upon request)	NP	
0-107-06-2	Nitrogen, Total Kjeldahl	NP	NP
200.7 Rev 4.4	Metals (ICP)(list upon request)	NP/P	NP/P
00.8 Rev 5.4	Metals (ICP/MS) (list upon request)	NP/P	NP/P
005A	Preparation, Total Recoverable or Dissolved Metals	NP/P	
010A	Preparation, Total Metals	NP/P	
020A	Preparation, Total Metals	NP/P	
050B	Preparation, Metals	SW	
510C	Liquid-Liquid Extraction (Separatory Funnel)	NP	
030B	Purge and Trap	NP	
010C	Metals (ICP)(list upon request)	NP/SW	
196A	Chromium. Hexavalent	NP/SW	
470A	Mercury (CVAA)	NP	
471A	Mercury (CVAA)	SW	
081B	Organochlorine Pesticides (GC)(list upon request)	NP/SW	
082A	PCBs by Gas Chromatography(list upon request)	NP/SW	
3260C	Volatile Org Comp. (GC/MS)(list upon request)	NP/SW	
270D		NP/SW	
-	Semivolatile Comp.(GC/MS)(list upon request)	NP/SW	
012A	Cyanide, Total and/or Amenable	NP/SW NP	
030B	Sulfide, Distillation (Acid Soluble and Insoluble)	SW	
9045C	pH	÷	
CT ETPH	Conn - Ext. Total petroleum Hydrocarbons (GC)	NP/SW	
Interolert	Enterococcus		ambient/source
.107041C	Nitrogen, Nitrate	NP	
.107-06-1B	Nitrogen Ammonia	NP	NP
204001A CN	Cyanide, Total	Р	NP/P
210-001A	Phenolics, Total Recoverable	NP	NP
IA-EPH	Mass - Extractable Petroleum Hydrocarbons (GC)	NP/SW	
/AVPH	Mass - Volatile Petroleum Hydrocarbons (GC)	NP/SW	
SM 2320B	Alkalinity	NP/P	NP/P
SM 2340B	Total Hardness (as CaCO3) by calculation	NP/P	NP
M 2510B	Conductivity, Specific Conductance	NP/P	NP/P
SM 2540C	Solids, Total Dissolved (TDS)	NP/P	NP/P
GM 2540D	Solids, Total Suspended (TSS)	NP	NP
M 3500 CR D	Chromium, Hexavalent	NP	
SM 4500 CI F	Chlorine, Residual		NP
M 4500 H+ B	pH	NP/P	NP/P
M 4500 NO2 B	Nitrogen, Nitrite	NP	P
M 4500 P E	Phosphorus, Orthophosphate	NP/P	NP
M 4500 P E	Phosphorus, Total	NP	NP
SM 4500 P E SM 4500 S2 D	Sulfide, Total	NP	
		NP	NP
SM 5210B	BOD, 5-Day		
SM 5310B	Organic Carbon, Total (TOC)	NP/P	NP
SM 9215E	Heterotrophic Plate Count (SimPlate)		P
SM 9222D	Coliforms, Fecal (Membrane Filter)		NP
SM 9223	Coliforms, Total, and E.Coli (Colilert-P/A)		Р
SM 9223	Coliforms, Total, and E.Coli (Enumeration)		P

Not all organic compounds are accreditied under YNI For methods with multiple compounds all compounds may not meet TNI criteria, a listing should be obtained from the laboratory The lab carries additional accreditations with several states. This is the laboratories typcial listing but is subject to change based on the laboratories current certification standing.

#### Login Sample Receipt Checklist

#### Client: ERM-Northeast

#### Login Number: 41816 List Number: 1

Creator: Kolb, Chris M

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Job Number: 360-41816-1

List Source: TestAmerica Westfield

	Custody Seal No.:	Clea		Blink lood All	Reprise Aspenders and the second seco	ble Skin Irritant	Possible Hazard Identification					RUSSWEI1-80100724-01		Sample Identification		Ster	t Name/number:	1. 1	÷ ۲	State, Zip MA 0210名	ostin	Dre Berren St	ERN	Uest Contact U-SO: Fintery	Client Information	Phone (413) 572-4000 Fax (413) 572-3707	TestAmerica Westfield Westfield Executive Park 53 Southampton Road	1 2 3 4 5 6 7 8
. <b>•</b>	Cooler Temperature(s) <sup>C</sup> o and Other Remarks:	Company Received by	1/24/12/2220 Company Received and International	2/07/24 1206	Special Instructions/QC	Poison B Unknown Radiological Return To Client Disposal By Lab						XXX X X X X 30 11 12 170	Preservation Code:	A=AIT Field Perfor	s www.ater ler's Init Filtered m MS/N	tials Samp ISD?	₩0 # I@? SWJE	346	$\sim$					Ľ	Sampler Sce Hy Canalho (Sr-c) Lab PM:	00 Fax (781) 466-6901	240 Bear Hill Rd. Suite 104 Wattham MA 02451	9 10 11 12 13 14 15
5-MARRON		Harmon MSSI & A Ruine T	VA 1230	Date Time 2012/07/24 1203 Company		Disposal By Lab Archive For Months						6 <sup>-</sup>		Total 1 Special Instructions/Note:	Number	DEP Form EDD Required		1 - Lee Z - other (specity)	<u>.</u>	D-Nitric Acid P-N204S		Preservation Codes	Pequested 000 € 360 −4 (816	Page.	Carrier Tracking No(s): COC No:		In of Custody Record TestAmerica	:

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