

**Environmental
Resources
Management**

One Beacon Street, 5th Floor
Boston, MA 02108
(617) 646-7800
(617) 267-6447 (fax)

<http://www.erm.com>

14 November 2016
Reference: 0321744

Mr. David Costello
National Development
2310 Washington Street
Newton Lower Falls, MA 02462



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

Dear Mr. Costello:


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

Innovative Engineering Solutions, Inc. (IESI) collected groundwater samples from twenty-eight monitoring wells located on National Development property in July and October 2016. These samples were submitted to Alpha Analytical Laboratories, Inc. of Mansfield, Massachusetts, and/or TestAmerica Laboratories, Inc. of Buffalo, NY for analysis. All analytical results are attached to this letter.

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 <http://raytheon.erm.com/home.htm>.

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,

A handwritten signature in blue ink, appearing to read "John C. Drobinski".

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

A handwritten signature in blue ink, appearing to read "Lyndsey Colburn".

Lyndsey Colburn, P.G.
Principal Consultant

enclosures: BWSC-123 - Notice of Environmental Sampling
Laboratory Analytical Reports (CD)

cc: Jonathan Hone, Raytheon Company
PIP Repositories



Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC123

This Notice is Related to:
Release Tracking Number

NOTICE OF ENVIRONMENTAL SAMPLING

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

-

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

1. Street Address: _____
City/Town: _____ Zip Code: _____

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

1. Name: _____
2. Street Address: _____
City/Town: _____ Zip Code: _____

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

1. That environmental sampling will be/has been conducted at property owned by the recipient of this notice.
2. Of the results of environmental sampling conducted at property owned by the recipient of this notice.
3. Check to indicate if the analytical results are attached. (If item 2. above is checked, the analytical results from the environmental sampling must be attached to this notice.)

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

1. Street Address: _____
City/Town: _____ Zip Code: _____
2. MCP phase of work during which the sampling will be/has been conducted:
- | | |
|--|---|
| Immediate Response Action | Phase III Feasibility Evaluation |
| Release Abatement Measure | Phase IV Remedy Implementation Plan |
| Utility-related Abatement Measure | Phase V/Remedy Operation Status |
| Phase I Initial Site Investigation | Post-Temporary Solution Operation, Maintenance and Monitoring |
| Phase II Comprehensive Site Assessment | Other _____ |
- (specify)
3. Description of property where sampling will be/has been conducted:
residential commercial industrial school/playground Other _____
(specify)
4. Description of the sampling locations and types (e.g., soil, groundwater, indoor air, soil gas) to the extent known at the time of this notice.

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

Contact Name: _____
Street Address: _____
City/Town: _____ Zip Code: _____
Telephone: _____ Email: _____



Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC123

This Notice is Related to:
Release Tracking Number

	-	
--	---	--

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 of a release for which a notification to MassDEP has been made under the Massachusetts Contingency Plan (310 CMR 40.0300) on behalf of someone other than the owner of the property, the regulations require that the property owner (listed in **Section B** on the reverse side of this form) be given notice of the environmental sampling. The regulations also require that the property owner subsequently receive the analytical results following the analysis of the environmental samples.

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

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

FOR MORE INFORMATION

Information about the general process for addressing releases of oil or hazardous material under the Massachusetts Contingency Plan and related public involvement opportunities may be found at <http://www.mass.gov/eea/agencies/massdep/cleanup>. For more information regarding this notice, you may contact the party listed in **Section E** on the reverse side of this form. Information about the disposal site identified in Section A is also available in files at the Massachusetts Department of Environmental Protection. See <http://public.dep.state.ma.us/SearchableSites2/Search.aspx> to view site-specific files on-line or <http://mass.gov/eea/agencies/massdep/about/contacts/conduct-a-file-review.html> if you would like to make an appointment to see these files in person. 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.

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Buffalo

10 Hazelwood Drive

Amherst, NY 14228-2298

Tel: (716)691-2600

TestAmerica Job ID: 480-102681-1

Client Project/Site: IDS Wayland

For:

Innovative Engineering Solutions, Inc

25 Spring Street

Walpole, Massachusetts 02081

Attn: Vicki Pariyar



Authorized for release by:

7/13/2016 11:13:57 AM

Rebecca Jones, Project Management Assistant I

rebecca.jones@testamericainc.com

Designee for

Becky Mason, Project Manager II

(413)572-4000

becky.mason@testamericainc.com

LINKS

Review your project
results through

TotalAccess

Have a Question?



Visit us at:

www.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.

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15



Table of Contents

Cover Page	1
Table of Contents	2
Definitions/Glossary	3
Case Narrative	4
Detection Summary	7
Client Sample Results	10
Surrogate Summary	26
QC Sample Results	27
QC Association Summary	41
Lab Chronicle	44
Certification Summary	47
Method Summary	48
Sample Summary	49
Receipt Checklists	50
Chain of Custody	51

Definitions/Glossary

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-102681-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.

General Chemistry

Qualifier	Qualifier Description
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-102681-1

Job ID: 480-102681-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative 480-102681-1

Comments

No additional comments.

Receipt

The samples were received on 7/7/2016 2:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 0.9° C.

GC/MS VOA

Method 8260C: Due to the dilutions required, per question G on the MassDEP Analytical Protocol Certification Form, the CAM reporting limits specified in this CAM protocol could not be achieved for some or all samples/analytes.

Method 8260C: With the exception of diluted samples, per question G on the MassDEP Analytical Protocol Certification Form, TestAmerica's routine reporting limits do not achieve the CAM reporting limits specified in this CAM protocol for 1,2-dibromo-3-chloropropane, Carbon Disulfide, Isopropyl Ether, Naphthalene, tert-Amyl Methyl Ether and Tetrahydrofuran.

Method(s) 8260C: The continuing calibration verification (CCV) for Carbon Disulfide associated with batch 480-309992 recovered outside the MCP control limit criteria. MCP protocol allows for 20% of the target compounds to be outside the 20% difference but not over 40% difference. Difficult analytes are allowed to be outside the 20% difference but not over 60% difference. The following samples were affected : MW-265M-20160706 (480-102681-1), MW-562-20160706 (480-102681-2), REW-8-20160706 (480-102681-4), REW-11-20160706 (480-102681-5), REW-12-20160706 (480-102681-6) and TRIP BLANKS (480-102681-8).

Method(s) 8260C: The laboratory control sample (LCS) and / or the laboratory control sample duplicate (LCSD) for batch 480-309992 exceeded control limits for the following analytes: Carbon disulfide and Dichlorodifluoromethane. MCP protocol allows for 10% of the target compounds to be outside of the limits provided the recoveries are over 10%. The following samples were affected : MW-265M-20160706 (480-102681-1), MW-562-20160706 (480-102681-2), REW-8-20160706 (480-102681-4), REW-11-20160706 (480-102681-5), REW-12-20160706 (480-102681-6) and TRIP BLANKS (480-102681-8).

Method(s) 8260C: The laboratory control sample (LCS) and the laboratory control sample duplicate (LCSD) for batch 480-309992 exceeded control limits for the following analyte: 2-Hexanone . Unlike the calibration standards, this is due to the coelution with n-butyl Acetate in the spiking solution. This does not indicate a performance issue with the spike recovery, but rather the laboratory's ability to measure the two analytes together in a combined spiking solution. Through the use of spectral analysis, the two compounds can be distinguished from one another if present in a client sample. The following samples were affected : MW-265M-20160706 (480-102681-1), MW-562-20160706 (480-102681-2), REW-8-20160706 (480-102681-4), REW-11-20160706 (480-102681-5), REW-12-20160706 (480-102681-6) and TRIP BLANKS (480-102681-8).

Method(s) 8260C: The following sample was collected in properly preserved vials for analysis of volatile organic compounds (VOCs). However, the pH was outside the required criteria when verified by the laboratory, and corrective action was not possible: MW-265M-20160706 (480-102681-1). The sample was analyzed within 7 days per EPA recommendation.

Method(s) 8260C: The following samples were diluted to bring the concentration of target analytes within the calibration range: MW-265M-20160706 (480-102681-1) and REW-12-20160706 (480-102681-6). Elevated reporting limits (RLs) are provided.

Method(s) 8260C: The following sample was diluted due to the abundance of non-target analytes: MW-562-20160706 (480-102681-2). Elevated reporting limits (RLs) are provided.

Method(s) 8260C: The continuing calibration verification (CCV) for Naphthalene and Dichlorodifluoromethane associated with batch 480-310121 recovered outside the MCP control limit criteria. MCP protocol allows for 20% of the target compounds to be outside the 20% difference but not over 40% difference. The following samples were affected : REW-7-20160706 (480-102681-3) and DUP2-20160706 (480-102681-7).

Method(s) 8260C: The laboratory control sample (LCS) and the laboratory control sample duplicate (LCSD) for batch 480-310121 exceeded control limits for the following analyte: 2-Hexanone. Unlike the calibration standards, this is due to the coelution with N-Butyl

Case Narrative

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-102681-1

Job ID: 480-102681-1 (Continued)

Laboratory: TestAmerica Buffalo (Continued)

Acetate in the spiking solution. This does not indicate a performance issue with the spike recovery, but rather the laboratory's ability to measure the two analytes together in a combined spiking solution. Through the use of spectral analysis, the two compounds can be distinguished from one another if present in a client sample. The following samples were affected : REW-7-20160706 (480-102681-3) and DUP2-20160706 (480-102681-7).

Method(s) 8260C: The laboratory control sample (LCS) and the laboratory control sample duplicate (LCSD) for batch 480-310121 exceeded control limits for the following analyte: Dichlorodifluoromethane. MCP protocol allows for 10% of the target compounds to be outside of the limits provided the recoveries are over 10%. The following samples were affected : REW-7-20160706 (480-102681-3) and DUP2-20160706 (480-102681-7).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

HPLC/IC

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Metals

Method 6010C: At the request of the client, an abbreviated MCP compound list was reported for this job.

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry

Method(s) 9040C, SM 4500 H+ B: This analysis is normally performed in the field and has a method-defined holding time of 15 minutes. The following samples has been qualified with the "HF" flag to indicate analysis was performed in the laboratory outside the 15 minute timeframe: MW-265M-20160706 (480-102681-1), MW-562-20160706 (480-102681-2), REW-7-20160706 (480-102681-3), REW-8-20160706 (480-102681-4), REW-11-20160706 (480-102681-5) and REW-12-20160706 (480-102681-6).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

MassDEP Analytical Protocol Certification Form

Laboratory Name: **TestAmerica Buffalo** Project #: **480-102681-1**

Project Location: **Wayland** RTN:

This form provides certifications for the following data set: list Laboratory Sample ID Number(s):
480-102681-1(1-8)

Matrices: Groundwater/Surface Water Soil/Sediment Drinking Water Air Other:

CAM Protocols (check all that apply below):

8260 VOC CAM II A <input checked="" type="checkbox"/>	7470/7471 Hg CAM III B	Mass DEP VPH CAM IV A <input type="checkbox"/>	8081 Pesticides CAM V B <input type="checkbox"/>	7196 Hex Cr CAM VI B <input type="checkbox"/>	Mass DEP APH CAM IX A <input type="checkbox"/>
8270 SVOC CAM II B <input type="checkbox"/>	7010 Metals CAM III C <input type="checkbox"/>	Mass DEP EPH CAM IV B <input type="checkbox"/>	8151 Herbicides CAM V C <input type="checkbox"/>	8330 Explosives CAM VIII A <input type="checkbox"/>	TO-15 VOC CAM IX B <input type="checkbox"/>
6010 Metals CAM III A <input checked="" type="checkbox"/>	6020 Metals CAM III D <input type="checkbox"/>	8082 PCB CAM V A <input type="checkbox"/>	9014 Total Cyanide/PAC CAM VI A <input type="checkbox"/>	6860 Perchlorate CAM VIII B <input type="checkbox"/>	

Affirmative Responses to Questions A through F are 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 time.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
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?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
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"?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
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). b. APH and TO-15 Methods only: Was the complete analyte list reported for each method?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No
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)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

Responses to Questions G, H and I below are required for "Presumptive Certainty" status


G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No ¹
----------	---	--

Data User Note: 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

H	Were all QC performance standards specified in the CAM protocol(s) achieved?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No ¹
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s) ?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No ¹

¹ All negative responses must be addressed in an attached laboratory narrative.

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, is accurate and complete.

Signature:  Position: Project Management Assistant
 Printed Name: Rebecca Jones Date: 7/13/16 11:13

Detection Summary

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-102681-1

Client Sample ID: MW-265M-20160706

Lab Sample ID: 480-102681-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	100		50		ug/L	5		8260C	Total/NA
Acetone	600		250		ug/L	5		8260C	Total/NA
m-Xylene & p-Xylene	11		10		ug/L	5		8260C	Total/NA
Toluene	7.9		5.0		ug/L	5		8260C	Total/NA
Vinyl chloride	5.7		5.0		ug/L	5		8260C	Total/NA
Iron	390		0.050		mg/L	1		6010	Total/NA
Chloride	64		5.0		mg/L	10		300.0	Total/NA
Ammonia	0.20		0.20		mg/L	1		350.1	Total/NA
TOC Result 1	1200		10		mg/L	10		9060A	Total/NA
TOC Result 2	1100		10		mg/L	10		9060A	Total/NA
Total Organic Carbon - Duplicates	1100		10		mg/L	10		9060A	Total/NA
Alkalinity, Total	720		5.0		mg/L	1		SM 2320B	Total/NA
ortho-Phosphate	0.24		0.020		mg/L	1		SM 4500 P E	Total/NA
Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
pH	5.30	HF	0.100		SU	1		9040C	Total/NA

Client Sample ID: MW-562-20160706

Lab Sample ID: 480-102681-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	200		40		ug/L	4		8260C	Total/NA
cis-1,2-Dichloroethene	8.4		4.0		ug/L	4		8260C	Total/NA
Toluene	13		4.0		ug/L	4		8260C	Total/NA
Vinyl chloride	4.3		4.0		ug/L	4		8260C	Total/NA
Iron	260		0.050		mg/L	1		6010	Total/NA
Chloride	37		5.0		mg/L	10		300.0	Total/NA
Ammonia	2.6		0.40		mg/L	2		350.1	Total/NA
TOC Result 1	580		10		mg/L	10		9060A	Total/NA
TOC Result 2	590		10		mg/L	10		9060A	Total/NA
Total Organic Carbon - Duplicates	580		10		mg/L	10		9060A	Total/NA
Alkalinity, Total	580		5.0		mg/L	1		SM 2320B	Total/NA
ortho-Phosphate	0.79		0.020		mg/L	1		SM 4500 P E	Total/NA
Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
pH	6.46	HF	0.100		SU	1		9040C	Total/NA

Client Sample ID: REW-7-20160706

Lab Sample ID: 480-102681-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	70		10		ug/L	1		8260C	Total/NA
Acetone	50		50		ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	30		1.0		ug/L	1		8260C	Total/NA
m-Xylene & p-Xylene	2.2		2.0		ug/L	1		8260C	Total/NA
Toluene	83		1.0		ug/L	1		8260C	Total/NA
Vinyl chloride	23		1.0		ug/L	1		8260C	Total/NA
Iron	62		0.050		mg/L	1		6010	Total/NA
Chloride	24		2.5		mg/L	5		300.0	Total/NA
Ammonia	0.40		0.20		mg/L	1		350.1	Total/NA
TOC Result 1	75		1.0		mg/L	1		9060A	Total/NA
TOC Result 2	74		1.0		mg/L	1		9060A	Total/NA
Total Organic Carbon - Duplicates	74		1.0		mg/L	1		9060A	Total/NA
Alkalinity, Total	220		5.0		mg/L	1		SM 2320B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

Detection Summary

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-102681-1

Client Sample ID: REW-7-20160706 (Continued)

Lab Sample ID: 480-102681-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
ortho-Phosphate	0.15		0.020		mg/L	1		SM 4500 P E	Total/NA
Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
pH	6.79	HF	0.100		SU	1		9040C	Total/NA

Client Sample ID: REW-8-20160706

Lab Sample ID: 480-102681-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	37		10		ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	4.1		1.0		ug/L	1		8260C	Total/NA
Toluene	31		1.0		ug/L	1		8260C	Total/NA
Vinyl chloride	3.9		1.0		ug/L	1		8260C	Total/NA
Iron	66		0.050		mg/L	1		6010	Total/NA
Chloride	32		2.5		mg/L	5		300.0	Total/NA
Ammonia	0.23		0.20		mg/L	1		350.1	Total/NA
TOC Result 1	80		1.0		mg/L	1		9060A	Total/NA
TOC Result 2	79		1.0		mg/L	1		9060A	Total/NA
Total Organic Carbon - Duplicates	79		1.0		mg/L	1		9060A	Total/NA
Alkalinity, Total	240		5.0		mg/L	1		SM 2320B	Total/NA
ortho-Phosphate	0.22		0.020		mg/L	1		SM 4500 P E	Total/NA
Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
pH	6.80	HF	0.100		SU	1		9040C	Total/NA

Client Sample ID: REW-11-20160706

Lab Sample ID: 480-102681-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	32		10		ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	32		1.0		ug/L	1		8260C	Total/NA
Toluene	24		1.0		ug/L	1		8260C	Total/NA
Trichloroethene	4.8		1.0		ug/L	1		8260C	Total/NA
Vinyl chloride	13		1.0		ug/L	1		8260C	Total/NA
Iron	68		0.050		mg/L	1		6010	Total/NA
Chloride	51		2.5		mg/L	5		300.0	Total/NA
Sulfate	18		10		mg/L	5		300.0	Total/NA
Ammonia	0.81		0.20		mg/L	1		350.1	Total/NA
TOC Result 1	200		5.0		mg/L	5		9060A	Total/NA
TOC Result 2	190		5.0		mg/L	5		9060A	Total/NA
Total Organic Carbon - Duplicates	200		5.0		mg/L	5		9060A	Total/NA
Alkalinity, Total	150		5.0		mg/L	1		SM 2320B	Total/NA
ortho-Phosphate	0.23		0.020		mg/L	1		SM 4500 P E	Total/NA
Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
pH	6.74	HF	0.100		SU	1		9040C	Total/NA

Client Sample ID: REW-12-20160706

Lab Sample ID: 480-102681-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	38		20		ug/L	2		8260C	Total/NA
cis-1,2-Dichloroethene	58		2.0		ug/L	2		8260C	Total/NA
Toluene	33		2.0		ug/L	2		8260C	Total/NA
Trichloroethene	5.9		2.0		ug/L	2		8260C	Total/NA
Vinyl chloride	21		2.0		ug/L	2		8260C	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

Detection Summary

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-102681-1

Client Sample ID: REW-12-20160706 (Continued)

Lab Sample ID: 480-102681-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	99		0.050		mg/L	1		6010	Total/NA
Chloride	40		2.5		mg/L	5		300.0	Total/NA
Sulfate	15		10		mg/L	5		300.0	Total/NA
Ammonia	0.45		0.20		mg/L	1		350.1	Total/NA
TOC Result 1	150		5.0		mg/L	5		9060A	Total/NA
TOC Result 2	160		5.0		mg/L	5		9060A	Total/NA
Total Organic Carbon - Duplicates	160		5.0		mg/L	5		9060A	Total/NA
Alkalinity, Total	200		5.0		mg/L	1		SM 2320B	Total/NA
ortho-Phosphate	0.15		0.020		mg/L	1		SM 4500 P E	Total/NA
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
pH	6.65	HF	0.100		SU	1		9040C	Total/NA

Client Sample ID: DUP2-20160706

Lab Sample ID: 480-102681-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	70		10		ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	29		1.0		ug/L	1		8260C	Total/NA
m-Xylene & p-Xylene	2.0		2.0		ug/L	1		8260C	Total/NA
Toluene	77		1.0		ug/L	1		8260C	Total/NA
Vinyl chloride	20		1.0		ug/L	1		8260C	Total/NA

Client Sample ID: TRIP BLANKS

Lab Sample ID: 480-102681-8

No Detections.

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

Client Sample Results

Client: Innovative Engineering Solutions, Inc
 Project/Site: IDS Wayland

TestAmerica Job ID: 480-102681-1

Client Sample ID: MW-265M-20160706

Lab Sample ID: 480-102681-1

Date Collected: 07/06/16 11:35

Matrix: Water

Date Received: 07/07/16 02:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.0		ug/L			07/07/16 13:46	5
1,1,1-Trichloroethane	ND		5.0		ug/L			07/07/16 13:46	5
1,1,2,2-Tetrachloroethane	ND		2.5		ug/L			07/07/16 13:46	5
1,1,2-Trichloroethane	ND		5.0		ug/L			07/07/16 13:46	5
1,1-Dichloroethane	ND		5.0		ug/L			07/07/16 13:46	5
1,1-Dichloroethene	ND		5.0		ug/L			07/07/16 13:46	5
1,1-Dichloropropene	ND		5.0		ug/L			07/07/16 13:46	5
1,2,3-Trichlorobenzene	ND		5.0		ug/L			07/07/16 13:46	5
1,2,3-Trichloropropane	ND		5.0		ug/L			07/07/16 13:46	5
1,2,4-Trichlorobenzene	ND		5.0		ug/L			07/07/16 13:46	5
1,2,4-Trimethylbenzene	ND		5.0		ug/L			07/07/16 13:46	5
1,2-Dibromo-3-Chloropropane	ND		25		ug/L			07/07/16 13:46	5
1,2-Dichlorobenzene	ND		5.0		ug/L			07/07/16 13:46	5
1,2-Dichloroethane	ND		5.0		ug/L			07/07/16 13:46	5
1,2-Dichloropropane	ND		5.0		ug/L			07/07/16 13:46	5
1,3,5-Trimethylbenzene	ND		5.0		ug/L			07/07/16 13:46	5
1,3-Dichlorobenzene	ND		5.0		ug/L			07/07/16 13:46	5
1,3-Dichloropropane	ND		5.0		ug/L			07/07/16 13:46	5
1,4-Dichlorobenzene	ND		5.0		ug/L			07/07/16 13:46	5
1,4-Dioxane	ND		250		ug/L			07/07/16 13:46	5
2,2-Dichloropropane	ND		5.0		ug/L			07/07/16 13:46	5
2-Butanone (MEK)	100		50		ug/L			07/07/16 13:46	5
2-Chlorotoluene	ND		5.0		ug/L			07/07/16 13:46	5
2-Hexanone	ND *		50		ug/L			07/07/16 13:46	5
4-Chlorotoluene	ND		5.0		ug/L			07/07/16 13:46	5
4-Isopropyltoluene	ND		5.0		ug/L			07/07/16 13:46	5
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			07/07/16 13:46	5
Acetone	600		250		ug/L			07/07/16 13:46	5
Benzene	ND		5.0		ug/L			07/07/16 13:46	5
Bromobenzene	ND		5.0		ug/L			07/07/16 13:46	5
Bromoform	ND		5.0		ug/L			07/07/16 13:46	5
Bromomethane	ND		10		ug/L			07/07/16 13:46	5
Carbon disulfide	ND *		50		ug/L			07/07/16 13:46	5
Carbon tetrachloride	ND		5.0		ug/L			07/07/16 13:46	5
Chlorobenzene	ND		5.0		ug/L			07/07/16 13:46	5
Chlorobromomethane	ND		5.0		ug/L			07/07/16 13:46	5
Chlorodibromomethane	ND		2.5		ug/L			07/07/16 13:46	5
Chloroethane	ND		10		ug/L			07/07/16 13:46	5
Chloroform	ND		5.0		ug/L			07/07/16 13:46	5
Chloromethane	ND		10		ug/L			07/07/16 13:46	5
cis-1,2-Dichloroethene	ND		5.0		ug/L			07/07/16 13:46	5
cis-1,3-Dichloropropene	ND		2.0		ug/L			07/07/16 13:46	5
Dichlorobromomethane	ND		2.5		ug/L			07/07/16 13:46	5
Dichlorodifluoromethane	ND *		5.0		ug/L			07/07/16 13:46	5
Ethyl ether	ND		5.0		ug/L			07/07/16 13:46	5
Ethylbenzene	ND		5.0		ug/L			07/07/16 13:46	5
Ethylene Dibromide	ND		5.0		ug/L			07/07/16 13:46	5
Hexachlorobutadiene	ND		2.0		ug/L			07/07/16 13:46	5
Isopropyl ether	ND		50		ug/L			07/07/16 13:46	5

TestAmerica Buffalo

Client Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-102681-1

Client Sample ID: MW-265M-20160706

Lab Sample ID: 480-102681-1

Date Collected: 07/06/16 11:35

Matrix: Water

Date Received: 07/07/16 02:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	ND		5.0		ug/L			07/07/16 13:46	5
Methyl tert-butyl ether	ND		5.0		ug/L			07/07/16 13:46	5
Methylene Chloride	ND		5.0		ug/L			07/07/16 13:46	5
m-Xylene & p-Xylene	11		10		ug/L			07/07/16 13:46	5
Naphthalene	ND		25		ug/L			07/07/16 13:46	5
n-Butylbenzene	ND		5.0		ug/L			07/07/16 13:46	5
N-Propylbenzene	ND		5.0		ug/L			07/07/16 13:46	5
o-Xylene	ND		5.0		ug/L			07/07/16 13:46	5
sec-Butylbenzene	ND		5.0		ug/L			07/07/16 13:46	5
Styrene	ND		5.0		ug/L			07/07/16 13:46	5
Tert-amyl methyl ether	ND		25		ug/L			07/07/16 13:46	5
Tert-butyl ethyl ether	ND		25		ug/L			07/07/16 13:46	5
tert-Butylbenzene	ND		5.0		ug/L			07/07/16 13:46	5
Tetrachloroethene	ND		5.0		ug/L			07/07/16 13:46	5
Tetrahydrofuran	ND		50		ug/L			07/07/16 13:46	5
Toluene	7.9		5.0		ug/L			07/07/16 13:46	5
trans-1,2-Dichloroethene	ND		5.0		ug/L			07/07/16 13:46	5
trans-1,3-Dichloropropene	ND		2.0		ug/L			07/07/16 13:46	5
Trichloroethene	ND		5.0		ug/L			07/07/16 13:46	5
Trichlorofluoromethane	ND		5.0		ug/L			07/07/16 13:46	5
Vinyl chloride	5.7		5.0		ug/L			07/07/16 13:46	5
Dibromomethane	ND		5.0		ug/L			07/07/16 13:46	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>Toluene-d8 (Surr)</i>	96		70 - 130		07/07/16 13:46	5
<i>1,2-Dichloroethane-d4 (Surr)</i>	110		70 - 130		07/07/16 13:46	5
<i>4-Bromofluorobenzene (Surr)</i>	91		70 - 130		07/07/16 13:46	5

Method: 6010 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	390		0.050		mg/L		07/07/16 08:55	07/07/16 20:27	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	64		5.0		mg/L			07/08/16 14:19	10
Sulfate	ND		20		mg/L			07/08/16 14:19	10
Ammonia	0.20		0.20		mg/L		07/07/16 20:52	07/08/16 17:39	1
Nitrate as N	ND		0.050		mg/L			07/07/16 11:08	1
TOC Result 1	1200		10		mg/L			07/07/16 22:35	10
TOC Result 2	1100		10		mg/L			07/07/16 22:35	10
Total Organic Carbon - Duplicates	1100		10		mg/L			07/07/16 22:35	10
Alkalinity, Total	720		5.0		mg/L			07/07/16 17:43	1
ortho-Phosphate	0.24		0.020		mg/L			07/07/16 11:15	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	5.30	HF	0.100		SU			07/07/16 11:52	1

TestAmerica Buffalo

Client Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-102681-1

Client Sample ID: MW-562-20160706

Lab Sample ID: 480-102681-2

Date Collected: 07/06/16 10:55

Matrix: Water

Date Received: 07/07/16 02:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		4.0		ug/L			07/07/16 14:12	4
1,1,1-Trichloroethane	ND		4.0		ug/L			07/07/16 14:12	4
1,1,2,2-Tetrachloroethane	ND		2.0		ug/L			07/07/16 14:12	4
1,1,2-Trichloroethane	ND		4.0		ug/L			07/07/16 14:12	4
1,1-Dichloroethane	ND		4.0		ug/L			07/07/16 14:12	4
1,1-Dichloroethene	ND		4.0		ug/L			07/07/16 14:12	4
1,1-Dichloropropene	ND		4.0		ug/L			07/07/16 14:12	4
1,2,3-Trichlorobenzene	ND		4.0		ug/L			07/07/16 14:12	4
1,2,3-Trichloropropane	ND		4.0		ug/L			07/07/16 14:12	4
1,2,4-Trichlorobenzene	ND		4.0		ug/L			07/07/16 14:12	4
1,2,4-Trimethylbenzene	ND		4.0		ug/L			07/07/16 14:12	4
1,2-Dibromo-3-Chloropropane	ND		20		ug/L			07/07/16 14:12	4
1,2-Dichlorobenzene	ND		4.0		ug/L			07/07/16 14:12	4
1,2-Dichloroethane	ND		4.0		ug/L			07/07/16 14:12	4
1,2-Dichloropropane	ND		4.0		ug/L			07/07/16 14:12	4
1,3,5-Trimethylbenzene	ND		4.0		ug/L			07/07/16 14:12	4
1,3-Dichlorobenzene	ND		4.0		ug/L			07/07/16 14:12	4
1,3-Dichloropropane	ND		4.0		ug/L			07/07/16 14:12	4
1,4-Dichlorobenzene	ND		4.0		ug/L			07/07/16 14:12	4
1,4-Dioxane	ND		200		ug/L			07/07/16 14:12	4
2,2-Dichloropropane	ND		4.0		ug/L			07/07/16 14:12	4
2-Butanone (MEK)	200		40		ug/L			07/07/16 14:12	4
2-Chlorotoluene	ND		4.0		ug/L			07/07/16 14:12	4
2-Hexanone	ND *		40		ug/L			07/07/16 14:12	4
4-Chlorotoluene	ND		4.0		ug/L			07/07/16 14:12	4
4-Isopropyltoluene	ND		4.0		ug/L			07/07/16 14:12	4
4-Methyl-2-pentanone (MIBK)	ND		40		ug/L			07/07/16 14:12	4
Acetone	ND		200		ug/L			07/07/16 14:12	4
Benzene	ND		4.0		ug/L			07/07/16 14:12	4
Bromobenzene	ND		4.0		ug/L			07/07/16 14:12	4
Bromoform	ND		4.0		ug/L			07/07/16 14:12	4
Bromomethane	ND		8.0		ug/L			07/07/16 14:12	4
Carbon disulfide	ND *		40		ug/L			07/07/16 14:12	4
Carbon tetrachloride	ND		4.0		ug/L			07/07/16 14:12	4
Chlorobenzene	ND		4.0		ug/L			07/07/16 14:12	4
Chlorobromomethane	ND		4.0		ug/L			07/07/16 14:12	4
Chlorodibromomethane	ND		2.0		ug/L			07/07/16 14:12	4
Chloroethane	ND		8.0		ug/L			07/07/16 14:12	4
Chloroform	ND		4.0		ug/L			07/07/16 14:12	4
Chloromethane	ND		8.0		ug/L			07/07/16 14:12	4
cis-1,2-Dichloroethene	8.4		4.0		ug/L			07/07/16 14:12	4
cis-1,3-Dichloropropene	ND		1.6		ug/L			07/07/16 14:12	4
Dichlorobromomethane	ND		2.0		ug/L			07/07/16 14:12	4
Dichlorodifluoromethane	ND *		4.0		ug/L			07/07/16 14:12	4
Ethyl ether	ND		4.0		ug/L			07/07/16 14:12	4
Ethylbenzene	ND		4.0		ug/L			07/07/16 14:12	4
Ethylene Dibromide	ND		4.0		ug/L			07/07/16 14:12	4
Hexachlorobutadiene	ND		1.6		ug/L			07/07/16 14:12	4
Isopropyl ether	ND		40		ug/L			07/07/16 14:12	4

TestAmerica Buffalo

Client Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-102681-1

Client Sample ID: MW-562-20160706

Lab Sample ID: 480-102681-2

Date Collected: 07/06/16 10:55

Matrix: Water

Date Received: 07/07/16 02:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	ND		4.0		ug/L			07/07/16 14:12	4
Methyl tert-butyl ether	ND		4.0		ug/L			07/07/16 14:12	4
Methylene Chloride	ND		4.0		ug/L			07/07/16 14:12	4
m-Xylene & p-Xylene	ND		8.0		ug/L			07/07/16 14:12	4
Naphthalene	ND		20		ug/L			07/07/16 14:12	4
n-Butylbenzene	ND		4.0		ug/L			07/07/16 14:12	4
N-Propylbenzene	ND		4.0		ug/L			07/07/16 14:12	4
o-Xylene	ND		4.0		ug/L			07/07/16 14:12	4
sec-Butylbenzene	ND		4.0		ug/L			07/07/16 14:12	4
Styrene	ND		4.0		ug/L			07/07/16 14:12	4
Tert-amyl methyl ether	ND		20		ug/L			07/07/16 14:12	4
Tert-butyl ethyl ether	ND		20		ug/L			07/07/16 14:12	4
tert-Butylbenzene	ND		4.0		ug/L			07/07/16 14:12	4
Tetrachloroethene	ND		4.0		ug/L			07/07/16 14:12	4
Tetrahydrofuran	ND		40		ug/L			07/07/16 14:12	4
Toluene	13		4.0		ug/L			07/07/16 14:12	4
trans-1,2-Dichloroethene	ND		4.0		ug/L			07/07/16 14:12	4
trans-1,3-Dichloropropene	ND		1.6		ug/L			07/07/16 14:12	4
Trichloroethene	ND		4.0		ug/L			07/07/16 14:12	4
Trichlorofluoromethane	ND		4.0		ug/L			07/07/16 14:12	4
Vinyl chloride	4.3		4.0		ug/L			07/07/16 14:12	4
Dibromomethane	ND		4.0		ug/L			07/07/16 14:12	4

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	93		70 - 130		07/07/16 14:12	4
1,2-Dichloroethane-d4 (Surr)	107		70 - 130		07/07/16 14:12	4
4-Bromofluorobenzene (Surr)	91		70 - 130		07/07/16 14:12	4

Method: 6010 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	260		0.050		mg/L		07/07/16 08:55	07/07/16 20:31	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	37		5.0		mg/L			07/08/16 14:27	10
Sulfate	ND		20		mg/L			07/08/16 14:27	10
Ammonia	2.6		0.40		mg/L		07/07/16 20:52	07/08/16 17:48	2
Nitrate as N	ND		0.050		mg/L			07/07/16 11:07	1
TOC Result 1	580		10		mg/L			07/11/16 15:56	10
TOC Result 2	590		10		mg/L			07/11/16 15:56	10
Total Organic Carbon - Duplicates	580		10		mg/L			07/11/16 15:56	10
Alkalinity, Total	580		5.0		mg/L			07/07/16 17:52	1
ortho-Phosphate	0.79		0.020		mg/L			07/07/16 11:15	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.46	HF	0.100		SU			07/07/16 11:55	1

TestAmerica Buffalo

Client Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-102681-1

Client Sample ID: REW-7-20160706

Lab Sample ID: 480-102681-3

Date Collected: 07/06/16 09:30

Matrix: Water

Date Received: 07/07/16 02:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			07/07/16 20:02	1
1,1,1-Trichloroethane	ND		1.0		ug/L			07/07/16 20:02	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			07/07/16 20:02	1
1,1,2-Trichloroethane	ND		1.0		ug/L			07/07/16 20:02	1
1,1-Dichloroethane	ND		1.0		ug/L			07/07/16 20:02	1
1,1-Dichloroethene	ND		1.0		ug/L			07/07/16 20:02	1
1,1-Dichloropropene	ND		1.0		ug/L			07/07/16 20:02	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			07/07/16 20:02	1
1,2,3-Trichloropropane	ND		1.0		ug/L			07/07/16 20:02	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			07/07/16 20:02	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			07/07/16 20:02	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			07/07/16 20:02	1
1,2-Dichlorobenzene	ND		1.0		ug/L			07/07/16 20:02	1
1,2-Dichloroethane	ND		1.0		ug/L			07/07/16 20:02	1
1,2-Dichloropropane	ND		1.0		ug/L			07/07/16 20:02	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			07/07/16 20:02	1
1,3-Dichlorobenzene	ND		1.0		ug/L			07/07/16 20:02	1
1,3-Dichloropropane	ND		1.0		ug/L			07/07/16 20:02	1
1,4-Dichlorobenzene	ND		1.0		ug/L			07/07/16 20:02	1
1,4-Dioxane	ND		50		ug/L			07/07/16 20:02	1
2,2-Dichloropropane	ND		1.0		ug/L			07/07/16 20:02	1
2-Butanone (MEK)	70		10		ug/L			07/07/16 20:02	1
2-Chlorotoluene	ND		1.0		ug/L			07/07/16 20:02	1
2-Hexanone	ND *		10		ug/L			07/07/16 20:02	1
4-Chlorotoluene	ND		1.0		ug/L			07/07/16 20:02	1
4-Isopropyltoluene	ND		1.0		ug/L			07/07/16 20:02	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			07/07/16 20:02	1
Acetone	50		50		ug/L			07/07/16 20:02	1
Benzene	ND		1.0		ug/L			07/07/16 20:02	1
Bromobenzene	ND		1.0		ug/L			07/07/16 20:02	1
Bromoform	ND		1.0		ug/L			07/07/16 20:02	1
Bromomethane	ND		2.0		ug/L			07/07/16 20:02	1
Carbon disulfide	ND		10		ug/L			07/07/16 20:02	1
Carbon tetrachloride	ND		1.0		ug/L			07/07/16 20:02	1
Chlorobenzene	ND		1.0		ug/L			07/07/16 20:02	1
Chlorobromomethane	ND		1.0		ug/L			07/07/16 20:02	1
Chlorodibromomethane	ND		0.50		ug/L			07/07/16 20:02	1
Chloroethane	ND		2.0		ug/L			07/07/16 20:02	1
Chloroform	ND		1.0		ug/L			07/07/16 20:02	1
Chloromethane	ND		2.0		ug/L			07/07/16 20:02	1
cis-1,2-Dichloroethene	30		1.0		ug/L			07/07/16 20:02	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			07/07/16 20:02	1
Dichlorobromomethane	ND		0.50		ug/L			07/07/16 20:02	1
Dichlorodifluoromethane	ND *		1.0		ug/L			07/07/16 20:02	1
Ethyl ether	ND		1.0		ug/L			07/07/16 20:02	1
Ethylbenzene	ND		1.0		ug/L			07/07/16 20:02	1
Ethylene Dibromide	ND		1.0		ug/L			07/07/16 20:02	1
Hexachlorobutadiene	ND		0.40		ug/L			07/07/16 20:02	1
Isopropyl ether	ND		10		ug/L			07/07/16 20:02	1

TestAmerica Buffalo

Client Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-102681-1

Client Sample ID: REW-7-20160706

Lab Sample ID: 480-102681-3

Date Collected: 07/06/16 09:30

Matrix: Water

Date Received: 07/07/16 02:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	ND		1.0		ug/L			07/07/16 20:02	1
Methyl tert-butyl ether	ND		1.0		ug/L			07/07/16 20:02	1
Methylene Chloride	ND		1.0		ug/L			07/07/16 20:02	1
m-Xylene & p-Xylene	2.2		2.0		ug/L			07/07/16 20:02	1
Naphthalene	ND		5.0		ug/L			07/07/16 20:02	1
n-Butylbenzene	ND		1.0		ug/L			07/07/16 20:02	1
N-Propylbenzene	ND		1.0		ug/L			07/07/16 20:02	1
o-Xylene	ND		1.0		ug/L			07/07/16 20:02	1
sec-Butylbenzene	ND		1.0		ug/L			07/07/16 20:02	1
Styrene	ND		1.0		ug/L			07/07/16 20:02	1
Tert-amyl methyl ether	ND		5.0		ug/L			07/07/16 20:02	1
Tert-butyl ethyl ether	ND		5.0		ug/L			07/07/16 20:02	1
tert-Butylbenzene	ND		1.0		ug/L			07/07/16 20:02	1
Tetrachloroethene	ND		1.0		ug/L			07/07/16 20:02	1
Tetrahydrofuran	ND		10		ug/L			07/07/16 20:02	1
Toluene	83		1.0		ug/L			07/07/16 20:02	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			07/07/16 20:02	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			07/07/16 20:02	1
Trichloroethene	ND		1.0		ug/L			07/07/16 20:02	1
Trichlorofluoromethane	ND		1.0		ug/L			07/07/16 20:02	1
Vinyl chloride	23		1.0		ug/L			07/07/16 20:02	1
Dibromomethane	ND		1.0		ug/L			07/07/16 20:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>Toluene-d8 (Surr)</i>	92		70 - 130		07/07/16 20:02	1
<i>1,2-Dichloroethane-d4 (Surr)</i>	100		70 - 130		07/07/16 20:02	1
<i>4-Bromofluorobenzene (Surr)</i>	93		70 - 130		07/07/16 20:02	1

Method: 6010 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	62		0.050		mg/L		07/07/16 08:55	07/07/16 20:35	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	24		2.5		mg/L			07/08/16 14:35	5
Sulfate	ND		10		mg/L			07/08/16 14:35	5
Ammonia	0.40		0.20		mg/L		07/07/16 20:52	07/08/16 17:41	1
Nitrate as N	ND		0.050		mg/L			07/07/16 11:03	1
TOC Result 1	75		1.0		mg/L			07/07/16 23:31	1
TOC Result 2	74		1.0		mg/L			07/07/16 23:31	1
Total Organic Carbon - Duplicates	74		1.0		mg/L			07/07/16 23:31	1
Alkalinity, Total	220		5.0		mg/L			07/07/16 17:58	1
ortho-Phosphate	0.15		0.020		mg/L			07/07/16 11:15	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.79	HF	0.100		SU			07/07/16 11:58	1

TestAmerica Buffalo

Client Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-102681-1

Client Sample ID: REW-8-20160706

Lab Sample ID: 480-102681-4

Date Collected: 07/06/16 08:40

Matrix: Water

Date Received: 07/07/16 02:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			07/07/16 15:03	1
1,1,1-Trichloroethane	ND		1.0		ug/L			07/07/16 15:03	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			07/07/16 15:03	1
1,1,2-Trichloroethane	ND		1.0		ug/L			07/07/16 15:03	1
1,1-Dichloroethane	ND		1.0		ug/L			07/07/16 15:03	1
1,1-Dichloroethene	ND		1.0		ug/L			07/07/16 15:03	1
1,1-Dichloropropene	ND		1.0		ug/L			07/07/16 15:03	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			07/07/16 15:03	1
1,2,3-Trichloropropane	ND		1.0		ug/L			07/07/16 15:03	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			07/07/16 15:03	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			07/07/16 15:03	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			07/07/16 15:03	1
1,2-Dichlorobenzene	ND		1.0		ug/L			07/07/16 15:03	1
1,2-Dichloroethane	ND		1.0		ug/L			07/07/16 15:03	1
1,2-Dichloropropane	ND		1.0		ug/L			07/07/16 15:03	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			07/07/16 15:03	1
1,3-Dichlorobenzene	ND		1.0		ug/L			07/07/16 15:03	1
1,3-Dichloropropane	ND		1.0		ug/L			07/07/16 15:03	1
1,4-Dichlorobenzene	ND		1.0		ug/L			07/07/16 15:03	1
1,4-Dioxane	ND		50		ug/L			07/07/16 15:03	1
2,2-Dichloropropane	ND		1.0		ug/L			07/07/16 15:03	1
2-Butanone (MEK)	37		10		ug/L			07/07/16 15:03	1
2-Chlorotoluene	ND		1.0		ug/L			07/07/16 15:03	1
2-Hexanone	ND *		10		ug/L			07/07/16 15:03	1
4-Chlorotoluene	ND		1.0		ug/L			07/07/16 15:03	1
4-Isopropyltoluene	ND		1.0		ug/L			07/07/16 15:03	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			07/07/16 15:03	1
Acetone	ND		50		ug/L			07/07/16 15:03	1
Benzene	ND		1.0		ug/L			07/07/16 15:03	1
Bromobenzene	ND		1.0		ug/L			07/07/16 15:03	1
Bromoform	ND		1.0		ug/L			07/07/16 15:03	1
Bromomethane	ND		2.0		ug/L			07/07/16 15:03	1
Carbon disulfide	ND *		10		ug/L			07/07/16 15:03	1
Carbon tetrachloride	ND		1.0		ug/L			07/07/16 15:03	1
Chlorobenzene	ND		1.0		ug/L			07/07/16 15:03	1
Chlorobromomethane	ND		1.0		ug/L			07/07/16 15:03	1
Chlorodibromomethane	ND		0.50		ug/L			07/07/16 15:03	1
Chloroethane	ND		2.0		ug/L			07/07/16 15:03	1
Chloroform	ND		1.0		ug/L			07/07/16 15:03	1
Chloromethane	ND		2.0		ug/L			07/07/16 15:03	1
cis-1,2-Dichloroethene	4.1		1.0		ug/L			07/07/16 15:03	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			07/07/16 15:03	1
Dichlorobromomethane	ND		0.50		ug/L			07/07/16 15:03	1
Dichlorodifluoromethane	ND *		1.0		ug/L			07/07/16 15:03	1
Ethyl ether	ND		1.0		ug/L			07/07/16 15:03	1
Ethylbenzene	ND		1.0		ug/L			07/07/16 15:03	1
Ethylene Dibromide	ND		1.0		ug/L			07/07/16 15:03	1
Hexachlorobutadiene	ND		0.40		ug/L			07/07/16 15:03	1
Isopropyl ether	ND		10		ug/L			07/07/16 15:03	1

TestAmerica Buffalo

Client Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-102681-1

Client Sample ID: REW-8-20160706

Lab Sample ID: 480-102681-4

Date Collected: 07/06/16 08:40

Matrix: Water

Date Received: 07/07/16 02:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	ND		1.0		ug/L			07/07/16 15:03	1
Methyl tert-butyl ether	ND		1.0		ug/L			07/07/16 15:03	1
Methylene Chloride	ND		1.0		ug/L			07/07/16 15:03	1
m-Xylene & p-Xylene	ND		2.0		ug/L			07/07/16 15:03	1
Naphthalene	ND		5.0		ug/L			07/07/16 15:03	1
n-Butylbenzene	ND		1.0		ug/L			07/07/16 15:03	1
N-Propylbenzene	ND		1.0		ug/L			07/07/16 15:03	1
o-Xylene	ND		1.0		ug/L			07/07/16 15:03	1
sec-Butylbenzene	ND		1.0		ug/L			07/07/16 15:03	1
Styrene	ND		1.0		ug/L			07/07/16 15:03	1
Tert-amyl methyl ether	ND		5.0		ug/L			07/07/16 15:03	1
Tert-butyl ethyl ether	ND		5.0		ug/L			07/07/16 15:03	1
tert-Butylbenzene	ND		1.0		ug/L			07/07/16 15:03	1
Tetrachloroethene	ND		1.0		ug/L			07/07/16 15:03	1
Tetrahydrofuran	ND		10		ug/L			07/07/16 15:03	1
Toluene	31		1.0		ug/L			07/07/16 15:03	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			07/07/16 15:03	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			07/07/16 15:03	1
Trichloroethene	ND		1.0		ug/L			07/07/16 15:03	1
Trichlorofluoromethane	ND		1.0		ug/L			07/07/16 15:03	1
Vinyl chloride	3.9		1.0		ug/L			07/07/16 15:03	1
Dibromomethane	ND		1.0		ug/L			07/07/16 15:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	91		70 - 130		07/07/16 15:03	1
1,2-Dichloroethane-d4 (Surr)	105		70 - 130		07/07/16 15:03	1
4-Bromofluorobenzene (Surr)	88		70 - 130		07/07/16 15:03	1

Method: 6010 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	66		0.050		mg/L		07/07/16 08:55	07/07/16 20:49	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	32		2.5		mg/L			07/08/16 15:32	5
Sulfate	ND		10		mg/L			07/08/16 15:32	5
Ammonia	0.23		0.20		mg/L		07/07/16 20:52	07/08/16 17:41	1
Nitrate as N	ND		0.050		mg/L			07/07/16 11:02	1
TOC Result 1	80		1.0		mg/L			07/08/16 00:26	1
TOC Result 2	79		1.0		mg/L			07/08/16 00:26	1
Total Organic Carbon - Duplicates	79		1.0		mg/L			07/08/16 00:26	1
Alkalinity, Total	240		5.0		mg/L			07/07/16 18:06	1
ortho-Phosphate	0.22		0.020		mg/L			07/07/16 11:15	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.80	HF	0.100		SU			07/07/16 12:01	1

TestAmerica Buffalo

Client Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-102681-1

Client Sample ID: REW-11-20160706

Lab Sample ID: 480-102681-5

Date Collected: 07/06/16 10:15

Matrix: Water

Date Received: 07/07/16 02:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			07/07/16 15:28	1
1,1,1-Trichloroethane	ND		1.0		ug/L			07/07/16 15:28	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			07/07/16 15:28	1
1,1,2-Trichloroethane	ND		1.0		ug/L			07/07/16 15:28	1
1,1-Dichloroethane	ND		1.0		ug/L			07/07/16 15:28	1
1,1-Dichloroethene	ND		1.0		ug/L			07/07/16 15:28	1
1,1-Dichloropropene	ND		1.0		ug/L			07/07/16 15:28	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			07/07/16 15:28	1
1,2,3-Trichloropropane	ND		1.0		ug/L			07/07/16 15:28	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			07/07/16 15:28	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			07/07/16 15:28	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			07/07/16 15:28	1
1,2-Dichlorobenzene	ND		1.0		ug/L			07/07/16 15:28	1
1,2-Dichloroethane	ND		1.0		ug/L			07/07/16 15:28	1
1,2-Dichloropropane	ND		1.0		ug/L			07/07/16 15:28	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			07/07/16 15:28	1
1,3-Dichlorobenzene	ND		1.0		ug/L			07/07/16 15:28	1
1,3-Dichloropropane	ND		1.0		ug/L			07/07/16 15:28	1
1,4-Dichlorobenzene	ND		1.0		ug/L			07/07/16 15:28	1
1,4-Dioxane	ND		50		ug/L			07/07/16 15:28	1
2,2-Dichloropropane	ND		1.0		ug/L			07/07/16 15:28	1
2-Butanone (MEK)	32		10		ug/L			07/07/16 15:28	1
2-Chlorotoluene	ND		1.0		ug/L			07/07/16 15:28	1
2-Hexanone	ND *		10		ug/L			07/07/16 15:28	1
4-Chlorotoluene	ND		1.0		ug/L			07/07/16 15:28	1
4-Isopropyltoluene	ND		1.0		ug/L			07/07/16 15:28	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			07/07/16 15:28	1
Acetone	ND		50		ug/L			07/07/16 15:28	1
Benzene	ND		1.0		ug/L			07/07/16 15:28	1
Bromobenzene	ND		1.0		ug/L			07/07/16 15:28	1
Bromoform	ND		1.0		ug/L			07/07/16 15:28	1
Bromomethane	ND		2.0		ug/L			07/07/16 15:28	1
Carbon disulfide	ND *		10		ug/L			07/07/16 15:28	1
Carbon tetrachloride	ND		1.0		ug/L			07/07/16 15:28	1
Chlorobenzene	ND		1.0		ug/L			07/07/16 15:28	1
Chlorobromomethane	ND		1.0		ug/L			07/07/16 15:28	1
Chlorodibromomethane	ND		0.50		ug/L			07/07/16 15:28	1
Chloroethane	ND		2.0		ug/L			07/07/16 15:28	1
Chloroform	ND		1.0		ug/L			07/07/16 15:28	1
Chloromethane	ND		2.0		ug/L			07/07/16 15:28	1
cis-1,2-Dichloroethene	32		1.0		ug/L			07/07/16 15:28	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			07/07/16 15:28	1
Dichlorobromomethane	ND		0.50		ug/L			07/07/16 15:28	1
Dichlorodifluoromethane	ND *		1.0		ug/L			07/07/16 15:28	1
Ethyl ether	ND		1.0		ug/L			07/07/16 15:28	1
Ethylbenzene	ND		1.0		ug/L			07/07/16 15:28	1
Ethylene Dibromide	ND		1.0		ug/L			07/07/16 15:28	1
Hexachlorobutadiene	ND		0.40		ug/L			07/07/16 15:28	1
Isopropyl ether	ND		10		ug/L			07/07/16 15:28	1

TestAmerica Buffalo

Client Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-102681-1

Client Sample ID: REW-11-20160706

Lab Sample ID: 480-102681-5

Date Collected: 07/06/16 10:15

Matrix: Water

Date Received: 07/07/16 02:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	ND		1.0		ug/L			07/07/16 15:28	1
Methyl tert-butyl ether	ND		1.0		ug/L			07/07/16 15:28	1
Methylene Chloride	ND		1.0		ug/L			07/07/16 15:28	1
m-Xylene & p-Xylene	ND		2.0		ug/L			07/07/16 15:28	1
Naphthalene	ND		5.0		ug/L			07/07/16 15:28	1
n-Butylbenzene	ND		1.0		ug/L			07/07/16 15:28	1
N-Propylbenzene	ND		1.0		ug/L			07/07/16 15:28	1
o-Xylene	ND		1.0		ug/L			07/07/16 15:28	1
sec-Butylbenzene	ND		1.0		ug/L			07/07/16 15:28	1
Styrene	ND		1.0		ug/L			07/07/16 15:28	1
Tert-amyl methyl ether	ND		5.0		ug/L			07/07/16 15:28	1
Tert-butyl ethyl ether	ND		5.0		ug/L			07/07/16 15:28	1
tert-Butylbenzene	ND		1.0		ug/L			07/07/16 15:28	1
Tetrachloroethene	ND		1.0		ug/L			07/07/16 15:28	1
Tetrahydrofuran	ND		10		ug/L			07/07/16 15:28	1
Toluene	24		1.0		ug/L			07/07/16 15:28	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			07/07/16 15:28	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			07/07/16 15:28	1
Trichloroethene	4.8		1.0		ug/L			07/07/16 15:28	1
Trichlorofluoromethane	ND		1.0		ug/L			07/07/16 15:28	1
Vinyl chloride	13		1.0		ug/L			07/07/16 15:28	1
Dibromomethane	ND		1.0		ug/L			07/07/16 15:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	92		70 - 130		07/07/16 15:28	1
1,2-Dichloroethane-d4 (Surr)	107		70 - 130		07/07/16 15:28	1
4-Bromofluorobenzene (Surr)	90		70 - 130		07/07/16 15:28	1

Method: 6010 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	68		0.050		mg/L		07/07/16 08:55	07/07/16 20:52	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	51		2.5		mg/L			07/08/16 15:40	5
Sulfate	18		10		mg/L			07/08/16 15:40	5
Ammonia	0.81		0.20		mg/L		07/07/16 20:52	07/08/16 17:42	1
Nitrate as N	ND		0.050		mg/L			07/07/16 11:05	1
TOC Result 1	200		5.0		mg/L			07/08/16 01:22	5
TOC Result 2	190		5.0		mg/L			07/08/16 01:22	5
Total Organic Carbon - Duplicates	200		5.0		mg/L			07/08/16 01:22	5
Alkalinity, Total	150		5.0		mg/L			07/07/16 18:12	1
ortho-Phosphate	0.23		0.020		mg/L			07/07/16 11:15	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.74	HF	0.100		SU			07/07/16 12:04	1

TestAmerica Buffalo

Client Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-102681-1

Client Sample ID: REW-12-20160706

Lab Sample ID: 480-102681-6

Date Collected: 07/06/16 08:05

Matrix: Water

Date Received: 07/07/16 02:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		2.0		ug/L			07/07/16 15:53	2
1,1,1-Trichloroethane	ND		2.0		ug/L			07/07/16 15:53	2
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			07/07/16 15:53	2
1,1,2-Trichloroethane	ND		2.0		ug/L			07/07/16 15:53	2
1,1-Dichloroethane	ND		2.0		ug/L			07/07/16 15:53	2
1,1-Dichloroethene	ND		2.0		ug/L			07/07/16 15:53	2
1,1-Dichloropropene	ND		2.0		ug/L			07/07/16 15:53	2
1,2,3-Trichlorobenzene	ND		2.0		ug/L			07/07/16 15:53	2
1,2,3-Trichloropropane	ND		2.0		ug/L			07/07/16 15:53	2
1,2,4-Trichlorobenzene	ND		2.0		ug/L			07/07/16 15:53	2
1,2,4-Trimethylbenzene	ND		2.0		ug/L			07/07/16 15:53	2
1,2-Dibromo-3-Chloropropane	ND		10		ug/L			07/07/16 15:53	2
1,2-Dichlorobenzene	ND		2.0		ug/L			07/07/16 15:53	2
1,2-Dichloroethane	ND		2.0		ug/L			07/07/16 15:53	2
1,2-Dichloropropane	ND		2.0		ug/L			07/07/16 15:53	2
1,3,5-Trimethylbenzene	ND		2.0		ug/L			07/07/16 15:53	2
1,3-Dichlorobenzene	ND		2.0		ug/L			07/07/16 15:53	2
1,3-Dichloropropane	ND		2.0		ug/L			07/07/16 15:53	2
1,4-Dichlorobenzene	ND		2.0		ug/L			07/07/16 15:53	2
1,4-Dioxane	ND		100		ug/L			07/07/16 15:53	2
2,2-Dichloropropane	ND		2.0		ug/L			07/07/16 15:53	2
2-Butanone (MEK)	38		20		ug/L			07/07/16 15:53	2
2-Chlorotoluene	ND		2.0		ug/L			07/07/16 15:53	2
2-Hexanone	ND *		20		ug/L			07/07/16 15:53	2
4-Chlorotoluene	ND		2.0		ug/L			07/07/16 15:53	2
4-Isopropyltoluene	ND		2.0		ug/L			07/07/16 15:53	2
4-Methyl-2-pentanone (MIBK)	ND		20		ug/L			07/07/16 15:53	2
Acetone	ND		100		ug/L			07/07/16 15:53	2
Benzene	ND		2.0		ug/L			07/07/16 15:53	2
Bromobenzene	ND		2.0		ug/L			07/07/16 15:53	2
Bromoform	ND		2.0		ug/L			07/07/16 15:53	2
Bromomethane	ND		4.0		ug/L			07/07/16 15:53	2
Carbon disulfide	ND *		20		ug/L			07/07/16 15:53	2
Carbon tetrachloride	ND		2.0		ug/L			07/07/16 15:53	2
Chlorobenzene	ND		2.0		ug/L			07/07/16 15:53	2
Chlorobromomethane	ND		2.0		ug/L			07/07/16 15:53	2
Chlorodibromomethane	ND		1.0		ug/L			07/07/16 15:53	2
Chloroethane	ND		4.0		ug/L			07/07/16 15:53	2
Chloroform	ND		2.0		ug/L			07/07/16 15:53	2
Chloromethane	ND		4.0		ug/L			07/07/16 15:53	2
cis-1,2-Dichloroethene	58		2.0		ug/L			07/07/16 15:53	2
cis-1,3-Dichloropropene	ND		0.80		ug/L			07/07/16 15:53	2
Dichlorobromomethane	ND		1.0		ug/L			07/07/16 15:53	2
Dichlorodifluoromethane	ND *		2.0		ug/L			07/07/16 15:53	2
Ethyl ether	ND		2.0		ug/L			07/07/16 15:53	2
Ethylbenzene	ND		2.0		ug/L			07/07/16 15:53	2
Ethylene Dibromide	ND		2.0		ug/L			07/07/16 15:53	2
Hexachlorobutadiene	ND		0.80		ug/L			07/07/16 15:53	2
Isopropyl ether	ND		20		ug/L			07/07/16 15:53	2

TestAmerica Buffalo

Client Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-102681-1

Client Sample ID: REW-12-20160706

Lab Sample ID: 480-102681-6

Date Collected: 07/06/16 08:05

Matrix: Water

Date Received: 07/07/16 02:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	ND		2.0		ug/L			07/07/16 15:53	2
Methyl tert-butyl ether	ND		2.0		ug/L			07/07/16 15:53	2
Methylene Chloride	ND		2.0		ug/L			07/07/16 15:53	2
m-Xylene & p-Xylene	ND		4.0		ug/L			07/07/16 15:53	2
Naphthalene	ND		10		ug/L			07/07/16 15:53	2
n-Butylbenzene	ND		2.0		ug/L			07/07/16 15:53	2
N-Propylbenzene	ND		2.0		ug/L			07/07/16 15:53	2
o-Xylene	ND		2.0		ug/L			07/07/16 15:53	2
sec-Butylbenzene	ND		2.0		ug/L			07/07/16 15:53	2
Styrene	ND		2.0		ug/L			07/07/16 15:53	2
Tert-amyl methyl ether	ND		10		ug/L			07/07/16 15:53	2
Tert-butyl ethyl ether	ND		10		ug/L			07/07/16 15:53	2
tert-Butylbenzene	ND		2.0		ug/L			07/07/16 15:53	2
Tetrachloroethene	ND		2.0		ug/L			07/07/16 15:53	2
Tetrahydrofuran	ND		20		ug/L			07/07/16 15:53	2
Toluene	33		2.0		ug/L			07/07/16 15:53	2
trans-1,2-Dichloroethene	ND		2.0		ug/L			07/07/16 15:53	2
trans-1,3-Dichloropropene	ND		0.80		ug/L			07/07/16 15:53	2
Trichloroethene	5.9		2.0		ug/L			07/07/16 15:53	2
Trichlorofluoromethane	ND		2.0		ug/L			07/07/16 15:53	2
Vinyl chloride	21		2.0		ug/L			07/07/16 15:53	2
Dibromomethane	ND		2.0		ug/L			07/07/16 15:53	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	90		70 - 130		07/07/16 15:53	2
1,2-Dichloroethane-d4 (Surr)	110		70 - 130		07/07/16 15:53	2
4-Bromofluorobenzene (Surr)	90		70 - 130		07/07/16 15:53	2

Method: 6010 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	99		0.050		mg/L		07/07/16 08:55	07/07/16 20:56	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	40		2.5		mg/L			07/08/16 15:48	5
Sulfate	15		10		mg/L			07/08/16 15:48	5
Ammonia	0.45		0.20		mg/L		07/07/16 20:52	07/08/16 17:43	1
Nitrate as N	ND		0.050		mg/L			07/07/16 11:00	1
TOC Result 1	150		5.0		mg/L			07/11/16 16:24	5
TOC Result 2	160		5.0		mg/L			07/11/16 16:24	5
Total Organic Carbon - Duplicates	160		5.0		mg/L			07/11/16 16:24	5
Alkalinity, Total	200		5.0		mg/L			07/07/16 18:31	1
ortho-Phosphate	0.15		0.020		mg/L			07/07/16 11:15	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.65	HF	0.100		SU			07/07/16 12:07	1

TestAmerica Buffalo

Client Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-102681-1

Client Sample ID: DUP2-20160706

Lab Sample ID: 480-102681-7

Date Collected: 07/06/16 00:00

Matrix: Water

Date Received: 07/07/16 02:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			07/07/16 20:28	1
1,1,1-Trichloroethane	ND		1.0		ug/L			07/07/16 20:28	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			07/07/16 20:28	1
1,1,2-Trichloroethane	ND		1.0		ug/L			07/07/16 20:28	1
1,1-Dichloroethane	ND		1.0		ug/L			07/07/16 20:28	1
1,1-Dichloroethene	ND		1.0		ug/L			07/07/16 20:28	1
1,1-Dichloropropene	ND		1.0		ug/L			07/07/16 20:28	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			07/07/16 20:28	1
1,2,3-Trichloropropane	ND		1.0		ug/L			07/07/16 20:28	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			07/07/16 20:28	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			07/07/16 20:28	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			07/07/16 20:28	1
1,2-Dichlorobenzene	ND		1.0		ug/L			07/07/16 20:28	1
1,2-Dichloroethane	ND		1.0		ug/L			07/07/16 20:28	1
1,2-Dichloropropane	ND		1.0		ug/L			07/07/16 20:28	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			07/07/16 20:28	1
1,3-Dichlorobenzene	ND		1.0		ug/L			07/07/16 20:28	1
1,3-Dichloropropane	ND		1.0		ug/L			07/07/16 20:28	1
1,4-Dichlorobenzene	ND		1.0		ug/L			07/07/16 20:28	1
1,4-Dioxane	ND		50		ug/L			07/07/16 20:28	1
2,2-Dichloropropane	ND		1.0		ug/L			07/07/16 20:28	1
2-Butanone (MEK)	70		10		ug/L			07/07/16 20:28	1
2-Chlorotoluene	ND		1.0		ug/L			07/07/16 20:28	1
2-Hexanone	ND *		10		ug/L			07/07/16 20:28	1
4-Chlorotoluene	ND		1.0		ug/L			07/07/16 20:28	1
4-Isopropyltoluene	ND		1.0		ug/L			07/07/16 20:28	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			07/07/16 20:28	1
Acetone	ND		50		ug/L			07/07/16 20:28	1
Benzene	ND		1.0		ug/L			07/07/16 20:28	1
Bromobenzene	ND		1.0		ug/L			07/07/16 20:28	1
Bromoform	ND		1.0		ug/L			07/07/16 20:28	1
Bromomethane	ND		2.0		ug/L			07/07/16 20:28	1
Carbon disulfide	ND		10		ug/L			07/07/16 20:28	1
Carbon tetrachloride	ND		1.0		ug/L			07/07/16 20:28	1
Chlorobenzene	ND		1.0		ug/L			07/07/16 20:28	1
Chlorobromomethane	ND		1.0		ug/L			07/07/16 20:28	1
Chlorodibromomethane	ND		0.50		ug/L			07/07/16 20:28	1
Chloroethane	ND		2.0		ug/L			07/07/16 20:28	1
Chloroform	ND		1.0		ug/L			07/07/16 20:28	1
Chloromethane	ND		2.0		ug/L			07/07/16 20:28	1
cis-1,2-Dichloroethene	29		1.0		ug/L			07/07/16 20:28	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			07/07/16 20:28	1
Dichlorobromomethane	ND		0.50		ug/L			07/07/16 20:28	1
Dichlorodifluoromethane	ND *		1.0		ug/L			07/07/16 20:28	1
Ethyl ether	ND		1.0		ug/L			07/07/16 20:28	1
Ethylbenzene	ND		1.0		ug/L			07/07/16 20:28	1
Ethylene Dibromide	ND		1.0		ug/L			07/07/16 20:28	1
Hexachlorobutadiene	ND		0.40		ug/L			07/07/16 20:28	1
Isopropyl ether	ND		10		ug/L			07/07/16 20:28	1

TestAmerica Buffalo

Client Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-102681-1

Client Sample ID: DUP2-20160706

Lab Sample ID: 480-102681-7

Date Collected: 07/06/16 00:00

Matrix: Water

Date Received: 07/07/16 02:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	ND		1.0		ug/L			07/07/16 20:28	1
Methyl tert-butyl ether	ND		1.0		ug/L			07/07/16 20:28	1
Methylene Chloride	ND		1.0		ug/L			07/07/16 20:28	1
m-Xylene & p-Xylene	2.0		2.0		ug/L			07/07/16 20:28	1
Naphthalene	ND		5.0		ug/L			07/07/16 20:28	1
n-Butylbenzene	ND		1.0		ug/L			07/07/16 20:28	1
N-Propylbenzene	ND		1.0		ug/L			07/07/16 20:28	1
o-Xylene	ND		1.0		ug/L			07/07/16 20:28	1
sec-Butylbenzene	ND		1.0		ug/L			07/07/16 20:28	1
Styrene	ND		1.0		ug/L			07/07/16 20:28	1
Tert-amyl methyl ether	ND		5.0		ug/L			07/07/16 20:28	1
Tert-butyl ethyl ether	ND		5.0		ug/L			07/07/16 20:28	1
tert-Butylbenzene	ND		1.0		ug/L			07/07/16 20:28	1
Tetrachloroethene	ND		1.0		ug/L			07/07/16 20:28	1
Tetrahydrofuran	ND		10		ug/L			07/07/16 20:28	1
Toluene	77		1.0		ug/L			07/07/16 20:28	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			07/07/16 20:28	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			07/07/16 20:28	1
Trichloroethene	ND		1.0		ug/L			07/07/16 20:28	1
Trichlorofluoromethane	ND		1.0		ug/L			07/07/16 20:28	1
Vinyl chloride	20		1.0		ug/L			07/07/16 20:28	1
Dibromomethane	ND		1.0		ug/L			07/07/16 20:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>Toluene-d8 (Surr)</i>	91		70 - 130		07/07/16 20:28	1
<i>1,2-Dichloroethane-d4 (Surr)</i>	101		70 - 130		07/07/16 20:28	1
<i>4-Bromofluorobenzene (Surr)</i>	93		70 - 130		07/07/16 20:28	1

Client Sample ID: TRIP BLANKS

Lab Sample ID: 480-102681-8

Date Collected: 07/06/16 00:00

Matrix: Water

Date Received: 07/07/16 02:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			07/07/16 11:43	1
1,1,1-Trichloroethane	ND		1.0		ug/L			07/07/16 11:43	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			07/07/16 11:43	1
1,1,2-Trichloroethane	ND		1.0		ug/L			07/07/16 11:43	1
1,1-Dichloroethane	ND		1.0		ug/L			07/07/16 11:43	1
1,1-Dichloroethene	ND		1.0		ug/L			07/07/16 11:43	1
1,1-Dichloropropene	ND		1.0		ug/L			07/07/16 11:43	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			07/07/16 11:43	1
1,2,3-Trichloropropane	ND		1.0		ug/L			07/07/16 11:43	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			07/07/16 11:43	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			07/07/16 11:43	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			07/07/16 11:43	1
1,2-Dichlorobenzene	ND		1.0		ug/L			07/07/16 11:43	1
1,2-Dichloroethane	ND		1.0		ug/L			07/07/16 11:43	1
1,2-Dichloropropane	ND		1.0		ug/L			07/07/16 11:43	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			07/07/16 11:43	1

TestAmerica Buffalo

Client Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-102681-1

Client Sample ID: TRIP BLANKS

Lab Sample ID: 480-102681-8

Date Collected: 07/06/16 00:00

Matrix: Water

Date Received: 07/07/16 02:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	ND		1.0		ug/L			07/07/16 11:43	1
1,3-Dichloropropane	ND		1.0		ug/L			07/07/16 11:43	1
1,4-Dichlorobenzene	ND		1.0		ug/L			07/07/16 11:43	1
1,4-Dioxane	ND		50		ug/L			07/07/16 11:43	1
2,2-Dichloropropane	ND		1.0		ug/L			07/07/16 11:43	1
2-Butanone (MEK)	ND		10		ug/L			07/07/16 11:43	1
2-Chlorotoluene	ND		1.0		ug/L			07/07/16 11:43	1
2-Hexanone	ND	*	10		ug/L			07/07/16 11:43	1
4-Chlorotoluene	ND		1.0		ug/L			07/07/16 11:43	1
4-Isopropyltoluene	ND		1.0		ug/L			07/07/16 11:43	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			07/07/16 11:43	1
Acetone	ND		50		ug/L			07/07/16 11:43	1
Benzene	ND		1.0		ug/L			07/07/16 11:43	1
Bromobenzene	ND		1.0		ug/L			07/07/16 11:43	1
Bromoform	ND		1.0		ug/L			07/07/16 11:43	1
Bromomethane	ND		2.0		ug/L			07/07/16 11:43	1
Carbon disulfide	ND	*	10		ug/L			07/07/16 11:43	1
Carbon tetrachloride	ND		1.0		ug/L			07/07/16 11:43	1
Chlorobenzene	ND		1.0		ug/L			07/07/16 11:43	1
Chlorobromomethane	ND		1.0		ug/L			07/07/16 11:43	1
Chlorodibromomethane	ND		0.50		ug/L			07/07/16 11:43	1
Chloroethane	ND		2.0		ug/L			07/07/16 11:43	1
Chloroform	ND		1.0		ug/L			07/07/16 11:43	1
Chloromethane	ND		2.0		ug/L			07/07/16 11:43	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			07/07/16 11:43	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			07/07/16 11:43	1
Dichlorobromomethane	ND		0.50		ug/L			07/07/16 11:43	1
Dichlorodifluoromethane	ND	*	1.0		ug/L			07/07/16 11:43	1
Ethyl ether	ND		1.0		ug/L			07/07/16 11:43	1
Ethylbenzene	ND		1.0		ug/L			07/07/16 11:43	1
Ethylene Dibromide	ND		1.0		ug/L			07/07/16 11:43	1
Hexachlorobutadiene	ND		0.40		ug/L			07/07/16 11:43	1
Isopropyl ether	ND		10		ug/L			07/07/16 11:43	1
Isopropylbenzene	ND		1.0		ug/L			07/07/16 11:43	1
Methyl tert-butyl ether	ND		1.0		ug/L			07/07/16 11:43	1
Methylene Chloride	ND		1.0		ug/L			07/07/16 11:43	1
m-Xylene & p-Xylene	ND		2.0		ug/L			07/07/16 11:43	1
Naphthalene	ND		5.0		ug/L			07/07/16 11:43	1
n-Butylbenzene	ND		1.0		ug/L			07/07/16 11:43	1
N-Propylbenzene	ND		1.0		ug/L			07/07/16 11:43	1
o-Xylene	ND		1.0		ug/L			07/07/16 11:43	1
sec-Butylbenzene	ND		1.0		ug/L			07/07/16 11:43	1
Styrene	ND		1.0		ug/L			07/07/16 11:43	1
Tert-amyl methyl ether	ND		5.0		ug/L			07/07/16 11:43	1
Tert-butyl ethyl ether	ND		5.0		ug/L			07/07/16 11:43	1
tert-Butylbenzene	ND		1.0		ug/L			07/07/16 11:43	1
Tetrachloroethene	ND		1.0		ug/L			07/07/16 11:43	1
Tetrahydrofuran	ND		10		ug/L			07/07/16 11:43	1
Toluene	ND		1.0		ug/L			07/07/16 11:43	1

TestAmerica Buffalo

Client Sample Results

Client: Innovative Engineering Solutions, Inc
 Project/Site: IDS Wayland

TestAmerica Job ID: 480-102681-1

Client Sample ID: TRIP BLANKS

Lab Sample ID: 480-102681-8

Date Collected: 07/06/16 00:00

Matrix: Water

Date Received: 07/07/16 02:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	ND		1.0		ug/L			07/07/16 11:43	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			07/07/16 11:43	1
Trichloroethene	ND		1.0		ug/L			07/07/16 11:43	1
Trichlorofluoromethane	ND		1.0		ug/L			07/07/16 11:43	1
Vinyl chloride	ND		1.0		ug/L			07/07/16 11:43	1
Dibromomethane	ND		1.0		ug/L			07/07/16 11:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	92		70 - 130		07/07/16 11:43	1
1,2-Dichloroethane-d4 (Surr)	105		70 - 130		07/07/16 11:43	1
4-Bromofluorobenzene (Surr)	90		70 - 130		07/07/16 11:43	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15

Surrogate Summary

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-102681-1

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

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	TOL	12DCE	BFB
		(70-130)	(70-130)	(70-130)
480-102681-1	MW-265M-20160706	96	110	91
480-102681-2	MW-562-20160706	93	107	91
480-102681-3	REW-7-20160706	92	100	93
480-102681-4	REW-8-20160706	91	105	88
480-102681-5	REW-11-20160706	92	107	90
480-102681-6	REW-12-20160706	90	110	90
480-102681-7	DUP2-20160706	91	101	93
480-102681-8	TRIP BLANKS	92	105	90
LCS 480-309992/5	Lab Control Sample	96	98	98
LCS 480-310121/5	Lab Control Sample	93	92	95
LCSD 480-309992/6	Lab Control Sample Dup	95	85	99
LCSD 480-310121/8	Lab Control Sample Dup	93	84	97
MB 480-309992/8	Method Blank	91	105	89
MB 480-310121/7	Method Blank	94	100	91

Surrogate Legend

TOL = Toluene-d8 (Surr)

12DCE = 1,2-Dichloroethane-d4 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

QC Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-102681-1

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

Lab Sample ID: MB 480-309992/8

Matrix: Water

Analysis Batch: 309992

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			07/07/16 11:17	1
1,1,1-Trichloroethane	ND		1.0		ug/L			07/07/16 11:17	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			07/07/16 11:17	1
1,1,2-Trichloroethane	ND		1.0		ug/L			07/07/16 11:17	1
1,1-Dichloroethane	ND		1.0		ug/L			07/07/16 11:17	1
1,1-Dichloroethene	ND		1.0		ug/L			07/07/16 11:17	1
1,1-Dichloropropene	ND		1.0		ug/L			07/07/16 11:17	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			07/07/16 11:17	1
1,2,3-Trichloropropane	ND		1.0		ug/L			07/07/16 11:17	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			07/07/16 11:17	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			07/07/16 11:17	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			07/07/16 11:17	1
1,2-Dichlorobenzene	ND		1.0		ug/L			07/07/16 11:17	1
1,2-Dichloroethane	ND		1.0		ug/L			07/07/16 11:17	1
1,2-Dichloropropane	ND		1.0		ug/L			07/07/16 11:17	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			07/07/16 11:17	1
1,3-Dichlorobenzene	ND		1.0		ug/L			07/07/16 11:17	1
1,3-Dichloropropane	ND		1.0		ug/L			07/07/16 11:17	1
1,4-Dichlorobenzene	ND		1.0		ug/L			07/07/16 11:17	1
1,4-Dioxane	ND		50		ug/L			07/07/16 11:17	1
2,2-Dichloropropane	ND		1.0		ug/L			07/07/16 11:17	1
2-Butanone (MEK)	ND		10		ug/L			07/07/16 11:17	1
2-Chlorotoluene	ND		1.0		ug/L			07/07/16 11:17	1
2-Hexanone	ND		10		ug/L			07/07/16 11:17	1
4-Chlorotoluene	ND		1.0		ug/L			07/07/16 11:17	1
4-Isopropyltoluene	ND		1.0		ug/L			07/07/16 11:17	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			07/07/16 11:17	1
Acetone	ND		50		ug/L			07/07/16 11:17	1
Benzene	ND		1.0		ug/L			07/07/16 11:17	1
Bromobenzene	ND		1.0		ug/L			07/07/16 11:17	1
Bromoform	ND		1.0		ug/L			07/07/16 11:17	1
Bromomethane	ND		2.0		ug/L			07/07/16 11:17	1
Carbon disulfide	ND		10		ug/L			07/07/16 11:17	1
Carbon tetrachloride	ND		1.0		ug/L			07/07/16 11:17	1
Chlorobenzene	ND		1.0		ug/L			07/07/16 11:17	1
Chlorobromomethane	ND		1.0		ug/L			07/07/16 11:17	1
Chlorodibromomethane	ND		0.50		ug/L			07/07/16 11:17	1
Chloroethane	ND		2.0		ug/L			07/07/16 11:17	1
Chloroform	ND		1.0		ug/L			07/07/16 11:17	1
Chloromethane	ND		2.0		ug/L			07/07/16 11:17	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			07/07/16 11:17	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			07/07/16 11:17	1
Dichlorobromomethane	ND		0.50		ug/L			07/07/16 11:17	1
Dichlorodifluoromethane	ND		1.0		ug/L			07/07/16 11:17	1
Ethyl ether	ND		1.0		ug/L			07/07/16 11:17	1
Ethylbenzene	ND		1.0		ug/L			07/07/16 11:17	1
Ethylene Dibromide	ND		1.0		ug/L			07/07/16 11:17	1
Hexachlorobutadiene	ND		0.40		ug/L			07/07/16 11:17	1

TestAmerica Buffalo

QC Sample Results

Client: Innovative Engineering Solutions, Inc
 Project/Site: IDS Wayland

TestAmerica Job ID: 480-102681-1

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

Lab Sample ID: MB 480-309992/8
Matrix: Water
Analysis Batch: 309992

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropyl ether	ND		10		ug/L			07/07/16 11:17	1
Isopropylbenzene	ND		1.0		ug/L			07/07/16 11:17	1
Methyl tert-butyl ether	ND		1.0		ug/L			07/07/16 11:17	1
Methylene Chloride	ND		1.0		ug/L			07/07/16 11:17	1
m-Xylene & p-Xylene	ND		2.0		ug/L			07/07/16 11:17	1
Naphthalene	ND		5.0		ug/L			07/07/16 11:17	1
n-Butylbenzene	ND		1.0		ug/L			07/07/16 11:17	1
N-Propylbenzene	ND		1.0		ug/L			07/07/16 11:17	1
o-Xylene	ND		1.0		ug/L			07/07/16 11:17	1
sec-Butylbenzene	ND		1.0		ug/L			07/07/16 11:17	1
Styrene	ND		1.0		ug/L			07/07/16 11:17	1
Tert-amyl methyl ether	ND		5.0		ug/L			07/07/16 11:17	1
Tert-butyl ethyl ether	ND		5.0		ug/L			07/07/16 11:17	1
tert-Butylbenzene	ND		1.0		ug/L			07/07/16 11:17	1
Tetrachloroethene	ND		1.0		ug/L			07/07/16 11:17	1
Tetrahydrofuran	ND		10		ug/L			07/07/16 11:17	1
Toluene	ND		1.0		ug/L			07/07/16 11:17	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			07/07/16 11:17	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			07/07/16 11:17	1
Trichloroethene	ND		1.0		ug/L			07/07/16 11:17	1
Trichlorofluoromethane	ND		1.0		ug/L			07/07/16 11:17	1
Vinyl chloride	ND		1.0		ug/L			07/07/16 11:17	1
Dibromomethane	ND		1.0		ug/L			07/07/16 11:17	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	91		70 - 130		07/07/16 11:17	1
1,2-Dichloroethane-d4 (Surr)	105		70 - 130		07/07/16 11:17	1
4-Bromofluorobenzene (Surr)	89		70 - 130		07/07/16 11:17	1

Lab Sample ID: LCS 480-309992/5
Matrix: Water
Analysis Batch: 309992

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	25.0	24.5		ug/L		98	70 - 130
1,1,1-Trichloroethane	25.0	21.5		ug/L		86	70 - 130
1,1,2,2-Tetrachloroethane	25.0	23.9		ug/L		96	70 - 130
1,1,2-Trichloroethane	25.0	23.9		ug/L		96	70 - 130
1,1-Dichloroethane	25.0	22.7		ug/L		91	70 - 130
1,1-Dichloroethene	25.0	22.2		ug/L		89	70 - 130
1,1-Dichloropropene	25.0	23.5		ug/L		94	70 - 130
1,2,3-Trichlorobenzene	25.0	24.5		ug/L		98	70 - 130
1,2,3-Trichloropropane	25.0	24.8		ug/L		99	70 - 130
1,2,4-Trichlorobenzene	25.0	24.2		ug/L		97	70 - 130
1,2,4-Trimethylbenzene	25.0	27.0		ug/L		108	70 - 130
1,2-Dibromo-3-Chloropropane	25.0	23.0		ug/L		92	70 - 130
1,2-Dichlorobenzene	25.0	23.3		ug/L		93	70 - 130
1,2-Dichloroethane	25.0	21.0		ug/L		84	70 - 130

TestAmerica Buffalo

QC Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-102681-1

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

Lab Sample ID: LCS 480-309992/5

Matrix: Water

Analysis Batch: 309992

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichloropropane	25.0	23.1		ug/L		92	70 - 130
1,3,5-Trimethylbenzene	25.0	25.9		ug/L		104	70 - 130
1,3-Dichlorobenzene	25.0	23.6		ug/L		94	70 - 130
1,3-Dichloropropane	25.0	24.1		ug/L		96	70 - 130
1,4-Dichlorobenzene	25.0	23.2		ug/L		93	70 - 130
1,4-Dioxane	500	449		ug/L		90	70 - 130
2,2-Dichloropropane	25.0	21.1		ug/L		85	70 - 130
2-Butanone (MEK)	125	127		ug/L		101	70 - 130
2-Chlorotoluene	25.0	27.2		ug/L		109	70 - 130
2-Hexanone	125	192	*	ug/L		154	70 - 130
4-Chlorotoluene	25.0	25.6		ug/L		103	70 - 130
4-Isopropyltoluene	25.0	27.1		ug/L		109	70 - 130
4-Methyl-2-pentanone (MIBK)	125	128		ug/L		102	70 - 130
Acetone	125	122		ug/L		98	70 - 130
Benzene	25.0	22.4		ug/L		90	70 - 130
Bromobenzene	25.0	23.3		ug/L		93	70 - 130
Bromoform	25.0	26.3		ug/L		105	70 - 130
Bromomethane	25.0	22.7		ug/L		91	70 - 130
Carbon disulfide	25.0	16.4	*	ug/L		66	70 - 130
Carbon tetrachloride	25.0	22.7		ug/L		91	70 - 130
Chlorobenzene	25.0	23.8		ug/L		95	70 - 130
Chlorobromomethane	25.0	21.2		ug/L		85	70 - 130
Chlorodibromomethane	25.0	24.8		ug/L		99	70 - 130
Chloroethane	25.0	23.7		ug/L		95	70 - 130
Chloroform	25.0	21.5		ug/L		86	70 - 130
Chloromethane	25.0	20.6		ug/L		82	70 - 130
cis-1,2-Dichloroethene	25.0	22.2		ug/L		89	70 - 130
cis-1,3-Dichloropropene	25.0	24.3		ug/L		97	70 - 130
Dichlorobromomethane	25.0	22.7		ug/L		91	70 - 130
Dichlorodifluoromethane	25.0	20.3		ug/L		81	70 - 130
Ethyl ether	25.0	22.2		ug/L		89	70 - 130
Ethylbenzene	25.0	25.5		ug/L		102	70 - 130
Ethylene Dibromide	25.0	23.6		ug/L		94	70 - 130
Hexachlorobutadiene	25.0	24.5		ug/L		98	70 - 130
Isopropyl ether	25.0	25.6		ug/L		102	70 - 130
Isopropylbenzene	25.0	25.7		ug/L		103	70 - 130
Methyl tert-butyl ether	25.0	21.8		ug/L		87	70 - 130
Methylene Chloride	25.0	23.8		ug/L		95	70 - 130
m-Xylene & p-Xylene	25.0	26.1		ug/L		104	70 - 130
Naphthalene	25.0	21.2		ug/L		85	70 - 130
n-Butylbenzene	25.0	26.9		ug/L		108	70 - 130
N-Propylbenzene	25.0	25.5		ug/L		102	70 - 130
o-Xylene	25.0	26.1		ug/L		105	70 - 130
sec-Butylbenzene	25.0	26.0		ug/L		104	70 - 130
Styrene	25.0	27.2		ug/L		109	70 - 130
Tert-amyl methyl ether	25.0	27.3		ug/L		109	70 - 130
Tert-butyl ethyl ether	25.0	24.8		ug/L		99	70 - 130
tert-Butylbenzene	25.0	25.4		ug/L		101	70 - 130

TestAmerica Buffalo

QC Sample Results

Client: Innovative Engineering Solutions, Inc
 Project/Site: IDS Wayland

TestAmerica Job ID: 480-102681-1

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

Lab Sample ID: LCS 480-309992/5

Matrix: Water

Analysis Batch: 309992

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Tetrachloroethene	25.0	24.7		ug/L		99	70 - 130
Tetrahydrofuran	50.0	47.3		ug/L		95	70 - 130
Toluene	25.0	25.0		ug/L		100	70 - 130
trans-1,2-Dichloroethene	25.0	22.5		ug/L		90	70 - 130
trans-1,3-Dichloropropene	25.0	25.7		ug/L		103	70 - 130
Trichloroethene	25.0	23.4		ug/L		93	70 - 130
Trichlorofluoromethane	25.0	22.9		ug/L		91	70 - 130
Vinyl chloride	25.0	21.3		ug/L		85	70 - 130
Dibromomethane	25.0	21.9		ug/L		88	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Toluene-d8 (Surr)	96		70 - 130
1,2-Dichloroethane-d4 (Surr)	98		70 - 130
4-Bromofluorobenzene (Surr)	98		70 - 130

Lab Sample ID: LCSD 480-309992/6

Matrix: Water

Analysis Batch: 309992

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	25.0	24.0		ug/L		96	70 - 130	2	20
1,1,1-Trichloroethane	25.0	19.6		ug/L		78	70 - 130	9	20
1,1,1,2,2-Tetrachloroethane	25.0	24.5		ug/L		98	70 - 130	3	20
1,1,2-Trichloroethane	25.0	23.3		ug/L		93	70 - 130	3	20
1,1-Dichloroethane	25.0	20.8		ug/L		83	70 - 130	9	20
1,1-Dichloroethene	25.0	19.7		ug/L		79	70 - 130	12	20
1,1-Dichloropropene	25.0	21.4		ug/L		86	70 - 130	9	20
1,2,3-Trichlorobenzene	25.0	24.9		ug/L		99	70 - 130	2	20
1,2,3-Trichloropropane	25.0	25.9		ug/L		103	70 - 130	4	20
1,2,4-Trichlorobenzene	25.0	25.5		ug/L		102	70 - 130	5	20
1,2,4-Trimethylbenzene	25.0	27.0		ug/L		108	70 - 130	0	20
1,2-Dibromo-3-Chloropropane	25.0	23.0		ug/L		92	70 - 130	0	20
1,2-Dichlorobenzene	25.0	23.4		ug/L		94	70 - 130	0	20
1,2-Dichloroethane	25.0	19.6		ug/L		78	70 - 130	7	20
1,2-Dichloropropane	25.0	21.5		ug/L		86	70 - 130	7	20
1,3,5-Trimethylbenzene	25.0	26.0		ug/L		104	70 - 130	0	20
1,3-Dichlorobenzene	25.0	23.7		ug/L		95	70 - 130	0	20
1,3-Dichloropropane	25.0	23.5		ug/L		94	70 - 130	2	20
1,4-Dichlorobenzene	25.0	23.4		ug/L		94	70 - 130	1	20
1,4-Dioxane	500	463		ug/L		93	70 - 130	3	20
2,2-Dichloropropane	25.0	19.2		ug/L		77	70 - 130	9	20
2-Butanone (MEK)	125	118		ug/L		95	70 - 130	7	20
2-Chlorotoluene	25.0	26.9		ug/L		108	70 - 130	1	20
2-Hexanone	125	190 *		ug/L		152	70 - 130	1	20
4-Chlorotoluene	25.0	25.2		ug/L		101	70 - 130	2	20
4-Isopropyltoluene	25.0	26.8		ug/L		107	70 - 130	1	20
4-Methyl-2-pentanone (MIBK)	125	127		ug/L		101	70 - 130	1	20
Acetone	125	114		ug/L		91	70 - 130	7	20

TestAmerica Buffalo

QC Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-102681-1

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

Lab Sample ID: LCSD 480-309992/6

Matrix: Water

Analysis Batch: 309992

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	25.0	20.8		ug/L		83	70 - 130	8	20
Bromobenzene	25.0	23.4		ug/L		94	70 - 130	0	20
Bromoform	25.0	25.5		ug/L		102	70 - 130	3	20
Bromomethane	25.0	20.7		ug/L		83	70 - 130	9	20
Carbon disulfide	25.0	15.2	*	ug/L		61	70 - 130	8	20
Carbon tetrachloride	25.0	20.3		ug/L		81	70 - 130	11	20
Chlorobenzene	25.0	23.0		ug/L		92	70 - 130	4	20
Chlorobromomethane	25.0	19.9		ug/L		80	70 - 130	6	20
Chlorodibromomethane	25.0	24.6		ug/L		98	70 - 130	1	20
Chloroethane	25.0	21.5		ug/L		86	70 - 130	10	20
Chloroform	25.0	19.8		ug/L		79	70 - 130	8	20
Chloromethane	25.0	18.0		ug/L		72	70 - 130	13	20
cis-1,2-Dichloroethene	25.0	20.4		ug/L		82	70 - 130	8	20
cis-1,3-Dichloropropene	25.0	23.7		ug/L		95	70 - 130	2	20
Dichlorobromomethane	25.0	21.3		ug/L		85	70 - 130	6	20
Dichlorodifluoromethane	25.0	16.8	*	ug/L		67	70 - 130	19	20
Ethyl ether	25.0	21.7		ug/L		87	70 - 130	2	20
Ethylbenzene	25.0	24.0		ug/L		96	70 - 130	6	20
Ethylene Dibromide	25.0	23.5		ug/L		94	70 - 130	0	20
Hexachlorobutadiene	25.0	24.3		ug/L		97	70 - 130	1	20
Isopropyl ether	25.0	24.2		ug/L		97	70 - 130	5	20
Isopropylbenzene	25.0	25.5		ug/L		102	70 - 130	1	20
Methyl tert-butyl ether	25.0	21.1		ug/L		84	70 - 130	3	20
Methylene Chloride	25.0	22.1		ug/L		88	70 - 130	7	20
m-Xylene & p-Xylene	25.0	24.6		ug/L		99	70 - 130	6	20
Naphthalene	25.0	22.3		ug/L		89	70 - 130	5	20
n-Butylbenzene	25.0	26.2		ug/L		105	70 - 130	3	20
N-Propylbenzene	25.0	25.1		ug/L		101	70 - 130	2	20
o-Xylene	25.0	25.0		ug/L		100	70 - 130	5	20
sec-Butylbenzene	25.0	25.5		ug/L		102	70 - 130	2	20
Styrene	25.0	26.3		ug/L		105	70 - 130	3	20
Tert-amyl methyl ether	25.0	26.2		ug/L		105	70 - 130	4	20
Tert-butyl ethyl ether	25.0	24.0		ug/L		96	70 - 130	3	20
tert-Butylbenzene	25.0	25.2		ug/L		101	70 - 130	0	20
Tetrachloroethene	25.0	22.9		ug/L		91	70 - 130	8	20
Tetrahydrofuran	50.0	43.5		ug/L		87	70 - 130	8	20
Toluene	25.0	23.5		ug/L		94	70 - 130	6	20
trans-1,2-Dichloroethene	25.0	20.7		ug/L		83	70 - 130	9	20
trans-1,3-Dichloropropene	25.0	25.3		ug/L		101	70 - 130	1	20
Trichloroethene	25.0	21.9		ug/L		87	70 - 130	7	20
Trichlorofluoromethane	25.0	20.7		ug/L		83	70 - 130	10	20
Vinyl chloride	25.0	19.1		ug/L		76	70 - 130	11	20
Dibromomethane	25.0	20.8		ug/L		83	70 - 130	5	20

Surrogate	LCSD LCSD		Limits
	%Recovery	Qualifier	
Toluene-d8 (Surr)	95		70 - 130
1,2-Dichloroethane-d4 (Surr)	85		70 - 130
4-Bromofluorobenzene (Surr)	99		70 - 130

TestAmerica Buffalo

QC Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-102681-1

Lab Sample ID: MB 480-310121/7

Matrix: Water

Analysis Batch: 310121

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			07/07/16 19:22	1
1,1,1-Trichloroethane	ND		1.0		ug/L			07/07/16 19:22	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			07/07/16 19:22	1
1,1,2-Trichloroethane	ND		1.0		ug/L			07/07/16 19:22	1
1,1-Dichloroethane	ND		1.0		ug/L			07/07/16 19:22	1
1,1-Dichloroethene	ND		1.0		ug/L			07/07/16 19:22	1
1,1-Dichloropropene	ND		1.0		ug/L			07/07/16 19:22	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			07/07/16 19:22	1
1,2,3-Trichloropropane	ND		1.0		ug/L			07/07/16 19:22	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			07/07/16 19:22	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			07/07/16 19:22	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			07/07/16 19:22	1
1,2-Dichlorobenzene	ND		1.0		ug/L			07/07/16 19:22	1
1,2-Dichloroethane	ND		1.0		ug/L			07/07/16 19:22	1
1,2-Dichloropropane	ND		1.0		ug/L			07/07/16 19:22	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			07/07/16 19:22	1
1,3-Dichlorobenzene	ND		1.0		ug/L			07/07/16 19:22	1
1,3-Dichloropropane	ND		1.0		ug/L			07/07/16 19:22	1
1,4-Dichlorobenzene	ND		1.0		ug/L			07/07/16 19:22	1
1,4-Dioxane	ND		50		ug/L			07/07/16 19:22	1
2,2-Dichloropropane	ND		1.0		ug/L			07/07/16 19:22	1
2-Butanone (MEK)	ND		10		ug/L			07/07/16 19:22	1
2-Chlorotoluene	ND		1.0		ug/L			07/07/16 19:22	1
2-Hexanone	ND		10		ug/L			07/07/16 19:22	1
4-Chlorotoluene	ND		1.0		ug/L			07/07/16 19:22	1
4-Isopropyltoluene	ND		1.0		ug/L			07/07/16 19:22	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			07/07/16 19:22	1
Acetone	ND		50		ug/L			07/07/16 19:22	1
Benzene	ND		1.0		ug/L			07/07/16 19:22	1
Bromobenzene	ND		1.0		ug/L			07/07/16 19:22	1
Bromoform	ND		1.0		ug/L			07/07/16 19:22	1
Bromomethane	ND		2.0		ug/L			07/07/16 19:22	1
Carbon disulfide	ND		10		ug/L			07/07/16 19:22	1
Carbon tetrachloride	ND		1.0		ug/L			07/07/16 19:22	1
Chlorobenzene	ND		1.0		ug/L			07/07/16 19:22	1
Chlorobromomethane	ND		1.0		ug/L			07/07/16 19:22	1
Chlorodibromomethane	ND		0.50		ug/L			07/07/16 19:22	1
Chloroethane	ND		2.0		ug/L			07/07/16 19:22	1
Chloroform	ND		1.0		ug/L			07/07/16 19:22	1
Chloromethane	ND		2.0		ug/L			07/07/16 19:22	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			07/07/16 19:22	1
cis-1,3-Dichloropropane	ND		0.40		ug/L			07/07/16 19:22	1
Dichlorobromomethane	ND		0.50		ug/L			07/07/16 19:22	1
Dichlorodifluoromethane	ND		1.0		ug/L			07/07/16 19:22	1
Ethyl ether	ND		1.0		ug/L			07/07/16 19:22	1
Ethylbenzene	ND		1.0		ug/L			07/07/16 19:22	1
Ethylene Dibromide	ND		1.0		ug/L			07/07/16 19:22	1
Hexachlorobutadiene	ND		0.40		ug/L			07/07/16 19:22	1
Isopropyl ether	ND		10		ug/L			07/07/16 19:22	1
Isopropylbenzene	ND		1.0		ug/L			07/07/16 19:22	1

TestAmerica Buffalo

QC Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-102681-1

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

Lab Sample ID: MB 480-310121/7

Matrix: Water

Analysis Batch: 310121

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		1.0		ug/L			07/07/16 19:22	1
Methylene Chloride	ND		1.0		ug/L			07/07/16 19:22	1
m-Xylene & p-Xylene	ND		2.0		ug/L			07/07/16 19:22	1
Naphthalene	ND		5.0		ug/L			07/07/16 19:22	1
n-Butylbenzene	ND		1.0		ug/L			07/07/16 19:22	1
N-Propylbenzene	ND		1.0		ug/L			07/07/16 19:22	1
o-Xylene	ND		1.0		ug/L			07/07/16 19:22	1
sec-Butylbenzene	ND		1.0		ug/L			07/07/16 19:22	1
Styrene	ND		1.0		ug/L			07/07/16 19:22	1
Tert-amyl methyl ether	ND		5.0		ug/L			07/07/16 19:22	1
Tert-butyl ethyl ether	ND		5.0		ug/L			07/07/16 19:22	1
tert-Butylbenzene	ND		1.0		ug/L			07/07/16 19:22	1
Tetrachloroethene	ND		1.0		ug/L			07/07/16 19:22	1
Tetrahydrofuran	ND		10		ug/L			07/07/16 19:22	1
Toluene	ND		1.0		ug/L			07/07/16 19:22	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			07/07/16 19:22	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			07/07/16 19:22	1
Trichloroethene	ND		1.0		ug/L			07/07/16 19:22	1
Trichlorofluoromethane	ND		1.0		ug/L			07/07/16 19:22	1
Vinyl chloride	ND		1.0		ug/L			07/07/16 19:22	1
Dibromomethane	ND		1.0		ug/L			07/07/16 19:22	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	94		70 - 130		07/07/16 19:22	1
1,2-Dichloroethane-d4 (Surr)	100		70 - 130		07/07/16 19:22	1
4-Bromofluorobenzene (Surr)	91		70 - 130		07/07/16 19:22	1

Lab Sample ID: LCS 480-310121/5

Matrix: Water

Analysis Batch: 310121

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	25.0	22.9		ug/L		91	70 - 130
1,1,1-Trichloroethane	25.0	18.9		ug/L		75	70 - 130
1,1,1,2,2-Tetrachloroethane	25.0	23.8		ug/L		95	70 - 130
1,1,1,2-Trichloroethane	25.0	22.7		ug/L		91	70 - 130
1,1-Dichloroethane	25.0	20.2		ug/L		81	70 - 130
1,1-Dichloroethene	25.0	19.6		ug/L		78	70 - 130
1,1-Dichloropropene	25.0	20.5		ug/L		82	70 - 130
1,2,3-Trichlorobenzene	25.0	22.7		ug/L		91	70 - 130
1,2,3-Trichloropropane	25.0	24.4		ug/L		98	70 - 130
1,2,4-Trichlorobenzene	25.0	23.3		ug/L		93	70 - 130
1,2,4-Trimethylbenzene	25.0	25.6		ug/L		102	70 - 130
1,2-Dibromo-3-Chloropropane	25.0	21.7		ug/L		87	70 - 130
1,2-Dichlorobenzene	25.0	22.1		ug/L		88	70 - 130
1,2-Dichloroethane	25.0	19.0		ug/L		76	70 - 130
1,2-Dichloropropane	25.0	21.4		ug/L		85	70 - 130
1,3,5-Trimethylbenzene	25.0	24.3		ug/L		97	70 - 130

TestAmerica Buffalo

QC Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-102681-1

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

Lab Sample ID: LCS 480-310121/5

Matrix: Water

Analysis Batch: 310121

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,3-Dichlorobenzene	25.0	22.2		ug/L		89	70 - 130
1,3-Dichloropropane	25.0	22.4		ug/L		90	70 - 130
1,4-Dichlorobenzene	25.0	22.7		ug/L		91	70 - 130
1,4-Dioxane	500	380		ug/L		76	70 - 130
2,2-Dichloropropane	25.0	18.8		ug/L		75	70 - 130
2-Butanone (MEK)	125	124		ug/L		99	70 - 130
2-Chlorotoluene	25.0	24.8		ug/L		99	70 - 130
2-Hexanone	125	183	*	ug/L		147	70 - 130
4-Chlorotoluene	25.0	24.3		ug/L		97	70 - 130
4-Isopropyltoluene	25.0	25.0		ug/L		100	70 - 130
4-Methyl-2-pentanone (MIBK)	125	119		ug/L		95	70 - 130
Acetone	125	118		ug/L		94	70 - 130
Benzene	25.0	20.1		ug/L		80	70 - 130
Bromobenzene	25.0	22.3		ug/L		89	70 - 130
Bromoform	25.0	23.8		ug/L		95	70 - 130
Bromomethane	25.0	20.1		ug/L		80	70 - 130
Carbon disulfide	25.0	21.0		ug/L		84	70 - 130
Carbon tetrachloride	25.0	19.8		ug/L		79	70 - 130
Chlorobenzene	25.0	22.2		ug/L		89	70 - 130
Chlorobromomethane	25.0	19.4		ug/L		77	70 - 130
Chlorodibromomethane	25.0	23.3		ug/L		93	70 - 130
Chloroethane	25.0	20.5		ug/L		82	70 - 130
Chloroform	25.0	19.3		ug/L		77	70 - 130
Chloromethane	25.0	17.7		ug/L		71	70 - 130
cis-1,2-Dichloroethene	25.0	19.8		ug/L		79	70 - 130
cis-1,3-Dichloropropene	25.0	22.2		ug/L		89	70 - 130
Dichlorobromomethane	25.0	20.6		ug/L		82	70 - 130
Dichlorodifluoromethane	25.0	16.2	*	ug/L		65	70 - 130
Ethyl ether	25.0	20.3		ug/L		81	70 - 130
Ethylbenzene	25.0	22.8		ug/L		91	70 - 130
Ethylene Dibromide	25.0	22.3		ug/L		89	70 - 130
Hexachlorobutadiene	25.0	23.3		ug/L		93	70 - 130
Isopropyl ether	25.0	23.4		ug/L		94	70 - 130
Isopropylbenzene	25.0	23.9		ug/L		96	70 - 130
Methyl tert-butyl ether	25.0	19.6		ug/L		78	70 - 130
Methylene Chloride	25.0	20.9		ug/L		84	70 - 130
m-Xylene & p-Xylene	25.0	23.5		ug/L		94	70 - 130
Naphthalene	25.0	20.1		ug/L		80	70 - 130
n-Butylbenzene	25.0	24.7		ug/L		99	70 - 130
N-Propylbenzene	25.0	23.4		ug/L		93	70 - 130
o-Xylene	25.0	23.5		ug/L		94	70 - 130
sec-Butylbenzene	25.0	23.8		ug/L		95	70 - 130
Styrene	25.0	24.7		ug/L		99	70 - 130
Tert-amyl methyl ether	25.0	24.7		ug/L		99	70 - 130
Tert-butyl ethyl ether	25.0	22.6		ug/L		90	70 - 130
tert-Butylbenzene	25.0	23.4		ug/L		94	70 - 130
Tetrachloroethene	25.0	22.0		ug/L		88	70 - 130
Tetrahydrofuran	50.0	41.9		ug/L		84	70 - 130

TestAmerica Buffalo

QC Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-102681-1

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

Lab Sample ID: LCS 480-310121/5

Matrix: Water

Analysis Batch: 310121

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Toluene	25.0	22.6		ug/L		90	70 - 130
trans-1,2-Dichloroethene	25.0	19.6		ug/L		79	70 - 130
trans-1,3-Dichloropropene	25.0	23.4		ug/L		94	70 - 130
Trichloroethene	25.0	21.1		ug/L		84	70 - 130
Trichlorofluoromethane	25.0	20.3		ug/L		81	70 - 130
Vinyl chloride	25.0	19.7		ug/L		79	70 - 130
Dibromomethane	25.0	20.1		ug/L		80	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Toluene-d8 (Surr)	93		70 - 130
1,2-Dichloroethane-d4 (Surr)	92		70 - 130
4-Bromofluorobenzene (Surr)	95		70 - 130

Lab Sample ID: LCSD 480-310121/8

Matrix: Water

Analysis Batch: 310121

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	25.0	24.0		ug/L		96	70 - 130	5	20
1,1,1-Trichloroethane	25.0	19.3		ug/L		77	70 - 130	2	20
1,1,1,2,2-Tetrachloroethane	25.0	23.1		ug/L		92	70 - 130	3	20
1,1,2-Trichloroethane	25.0	22.9		ug/L		92	70 - 130	1	20
1,1-Dichloroethane	25.0	20.3		ug/L		81	70 - 130	1	20
1,1-Dichloroethene	25.0	19.4		ug/L		78	70 - 130	1	20
1,1-Dichloropropene	25.0	21.0		ug/L		84	70 - 130	2	20
1,2,3-Trichlorobenzene	25.0	23.8		ug/L		95	70 - 130	5	20
1,2,3-Trichloropropane	25.0	23.6		ug/L		94	70 - 130	3	20
1,2,4-Trichlorobenzene	25.0	24.5		ug/L		98	70 - 130	5	20
1,2,4-Trimethylbenzene	25.0	26.7		ug/L		107	70 - 130	4	20
1,2-Dibromo-3-Chloropropane	25.0	22.3		ug/L		89	70 - 130	3	20
1,2-Dichlorobenzene	25.0	22.6		ug/L		90	70 - 130	2	20
1,2-Dichloroethane	25.0	18.8		ug/L		75	70 - 130	1	20
1,2-Dichloropropane	25.0	20.9		ug/L		84	70 - 130	2	20
1,3,5-Trimethylbenzene	25.0	25.5		ug/L		102	70 - 130	5	20
1,3-Dichlorobenzene	25.0	23.2		ug/L		93	70 - 130	4	20
1,3-Dichloropropane	25.0	22.6		ug/L		90	70 - 130	1	20
1,4-Dichlorobenzene	25.0	22.6		ug/L		90	70 - 130	0	20
1,4-Dioxane	500	386		ug/L		77	70 - 130	1	20
2,2-Dichloropropane	25.0	19.0		ug/L		76	70 - 130	1	20
2-Butanone (MEK)	125	115		ug/L		92	70 - 130	7	20
2-Chlorotoluene	25.0	26.0		ug/L		104	70 - 130	5	20
2-Hexanone	125	181	*	ug/L		145	70 - 130	1	20
4-Chlorotoluene	25.0	25.0		ug/L		100	70 - 130	3	20
4-Isopropyltoluene	25.0	26.3		ug/L		105	70 - 130	5	20
4-Methyl-2-pentanone (MIBK)	125	122		ug/L		97	70 - 130	2	20
Acetone	125	111		ug/L		89	70 - 130	6	20
Benzene	25.0	20.4		ug/L		82	70 - 130	2	20
Bromobenzene	25.0	22.9		ug/L		92	70 - 130	3	20

TestAmerica Buffalo

QC Sample Results

Client: Innovative Engineering Solutions, Inc
 Project/Site: IDS Wayland

TestAmerica Job ID: 480-102681-1

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

Lab Sample ID: LCSD 480-310121/8

Matrix: Water

Analysis Batch: 310121

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Bromoform	25.0	24.1		ug/L		96	70 - 130	1	20
Bromomethane	25.0	20.4		ug/L		81	70 - 130	1	20
Carbon disulfide	25.0	21.8		ug/L		87	70 - 130	4	20
Carbon tetrachloride	25.0	20.5		ug/L		82	70 - 130	3	20
Chlorobenzene	25.0	22.5		ug/L		90	70 - 130	2	20
Chlorobromomethane	25.0	18.9		ug/L		76	70 - 130	2	20
Chlorodibromomethane	25.0	23.5		ug/L		94	70 - 130	1	20
Chloroethane	25.0	21.2		ug/L		85	70 - 130	3	20
Chloroform	25.0	19.3		ug/L		77	70 - 130	0	20
Chloromethane	25.0	17.9		ug/L		71	70 - 130	1	20
cis-1,2-Dichloroethene	25.0	19.9		ug/L		80	70 - 130	1	20
cis-1,3-Dichloropropene	25.0	22.2		ug/L		89	70 - 130	0	20
Dichlorobromomethane	25.0	20.7		ug/L		83	70 - 130	1	20
Dichlorodifluoromethane	25.0	15.9	*	ug/L		64	70 - 130	2	20
Ethyl ether	25.0	20.1		ug/L		80	70 - 130	1	20
Ethylbenzene	25.0	24.0		ug/L		96	70 - 130	5	20
Ethylene Dibromide	25.0	22.8		ug/L		91	70 - 130	2	20
Hexachlorobutadiene	25.0	24.5		ug/L		98	70 - 130	5	20
Isopropyl ether	25.0	23.4		ug/L		94	70 - 130	0	20
Isopropylbenzene	25.0	25.2		ug/L		101	70 - 130	5	20
Methyl tert-butyl ether	25.0	19.6		ug/L		78	70 - 130	0	20
Methylene Chloride	25.0	21.3		ug/L		85	70 - 130	2	20
m-Xylene & p-Xylene	25.0	24.6		ug/L		99	70 - 130	5	20
Naphthalene	25.0	20.8		ug/L		83	70 - 130	4	20
n-Butylbenzene	25.0	26.4		ug/L		106	70 - 130	7	20
N-Propylbenzene	25.0	24.8		ug/L		99	70 - 130	6	20
o-Xylene	25.0	24.8		ug/L		99	70 - 130	6	20
sec-Butylbenzene	25.0	25.3		ug/L		101	70 - 130	6	20
Styrene	25.0	25.8		ug/L		103	70 - 130	4	20
Tert-amyl methyl ether	25.0	24.8		ug/L		99	70 - 130	1	20
Tert-butyl ethyl ether	25.0	22.9		ug/L		92	70 - 130	1	20
tert-Butylbenzene	25.0	24.9		ug/L		100	70 - 130	6	20
Tetrachloroethene	25.0	22.9		ug/L		92	70 - 130	4	20
Tetrahydrofuran	50.0	41.1		ug/L		82	70 - 130	2	20
Toluene	25.0	23.6		ug/L		95	70 - 130	5	20
trans-1,2-Dichloroethene	25.0	20.1		ug/L		80	70 - 130	2	20
trans-1,3-Dichloropropene	25.0	24.1		ug/L		96	70 - 130	3	20
Trichloroethene	25.0	21.1		ug/L		84	70 - 130	0	20
Trichlorofluoromethane	25.0	20.6		ug/L		82	70 - 130	1	20
Vinyl chloride	25.0	20.8		ug/L		83	70 - 130	5	20
Dibromomethane	25.0	20.1		ug/L		80	70 - 130	0	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Toluene-d8 (Surr)	93		70 - 130
1,2-Dichloroethane-d4 (Surr)	84		70 - 130
4-Bromofluorobenzene (Surr)	97		70 - 130

TestAmerica Buffalo

QC Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-102681-1

Method: 6010 - Metals (ICP)

Lab Sample ID: MB 480-309994/1-A
Matrix: Water
Analysis Batch: 310221

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 309994

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		0.050		mg/L		07/07/16 08:55	07/07/16 20:17	1

Lab Sample ID: LCS 480-309994/2-A
Matrix: Water
Analysis Batch: 310221

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 309994

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Iron	10.0	10.4		mg/L		104	80 - 120

Lab Sample ID: LCSD 480-309994/3-A
Matrix: Water
Analysis Batch: 310221

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 309994

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Iron	10.0	10.1		mg/L		101	80 - 120	3	20

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 480-310245/4
Matrix: Water
Analysis Batch: 310245

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		0.50		mg/L			07/08/16 13:44	1
Sulfate	ND		2.0		mg/L			07/08/16 13:44	1

Lab Sample ID: LCS 480-310245/3
Matrix: Water
Analysis Batch: 310245

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	50.0	51.2		mg/L		102	90 - 110
Sulfate	50.0	50.6		mg/L		101	90 - 110

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 480-310159/2-A
Matrix: Water
Analysis Batch: 310327

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 310159

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.20		mg/L		07/07/16 20:52	07/08/16 17:08	1

Lab Sample ID: LCS 480-310159/1-A
Matrix: Water
Analysis Batch: 310327

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 310159

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia	1.00	1.02		mg/L		102	90 - 110

TestAmerica Buffalo

QC Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-102681-1

Method: 9060A - Organic Carbon, Total (TOC)

Lab Sample ID: MB 480-310337/3

Matrix: Water

Analysis Batch: 310337

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TOC Result 1	ND		1.0		mg/L			07/07/16 17:04	1
TOC Result 2	ND		1.0		mg/L			07/07/16 17:04	1
Total Organic Carbon - Duplicates	ND		1.0		mg/L			07/07/16 17:04	1

Lab Sample ID: LCS 480-310337/4

Matrix: Water

Analysis Batch: 310337

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
TOC Result 1	60.0	60.8		mg/L		101	90 - 110
TOC Result 2	60.0	58.8		mg/L		98	90 - 110
Total Organic Carbon - Duplicates	60.0	59.8		mg/L		100	90 - 110

Lab Sample ID: 480-102681-4 MS

Matrix: Water

Analysis Batch: 310337

Client Sample ID: REW-8-20160706

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
TOC Result 1	80		20.0	97.7		mg/L		90	54 - 131
TOC Result 2	79		20.0	97.2		mg/L		89	54 - 131
Total Organic Carbon - Duplicates	79		20.0	97.4		mg/L		90	54 - 131

Lab Sample ID: 480-102681-3 DU

Matrix: Water

Analysis Batch: 310337

Client Sample ID: REW-7-20160706

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
TOC Result 1	75		74.8		mg/L		0	20
TOC Result 2	74		74.4		mg/L		0.9	20
Total Organic Carbon - Duplicates	74		74.6		mg/L		0.4	20

Lab Sample ID: MB 480-310699/27

Matrix: Water

Analysis Batch: 310699

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TOC Result 1	ND		1.0		mg/L			07/12/16 01:49	1
TOC Result 2	ND		1.0		mg/L			07/12/16 01:49	1
Total Organic Carbon - Duplicates	ND		1.0		mg/L			07/12/16 01:49	1

Lab Sample ID: MB 480-310699/3

Matrix: Water

Analysis Batch: 310699

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TOC Result 1	ND		1.0		mg/L			07/11/16 14:30	1
TOC Result 2	ND		1.0		mg/L			07/11/16 14:30	1

TestAmerica Buffalo

QC Sample Results

Client: Innovative Engineering Solutions, Inc
 Project/Site: IDS Wayland

TestAmerica Job ID: 480-102681-1

Method: 9060A - Organic Carbon, Total (TOC) (Continued)

Lab Sample ID: MB 480-310699/3
Matrix: Water
Analysis Batch: 310699

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Duplicates	ND		1.0		mg/L			07/11/16 14:30	1

Lab Sample ID: LCS 480-310699/28
Matrix: Water
Analysis Batch: 310699

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
TOC Result 1	60.0	58.6		mg/L		98	90 - 110
TOC Result 2	60.0	60.9		mg/L		102	90 - 110
Total Organic Carbon - Duplicates	60.0	59.7		mg/L		100	90 - 110

Lab Sample ID: LCS 480-310699/4
Matrix: Water
Analysis Batch: 310699

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
TOC Result 1	60.0	58.9		mg/L		98	90 - 110
TOC Result 2	60.0	61.3		mg/L		102	90 - 110
Total Organic Carbon - Duplicates	60.0	60.1		mg/L		100	90 - 110

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 480-310227/30
Matrix: Water
Analysis Batch: 310227

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND		5.0		mg/L			07/07/16 16:47	1

Lab Sample ID: MB 480-310227/7
Matrix: Water
Analysis Batch: 310227

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND		5.0		mg/L			07/07/16 13:52	1

Lab Sample ID: LCS 480-310227/31
Matrix: Water
Analysis Batch: 310227

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity, Total	100	97.4		mg/L		97	90 - 110

TestAmerica Buffalo

QC Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-102681-1

Method: SM 2320B - Alkalinity (Continued)

Lab Sample ID: LCS 480-310227/8
Matrix: Water
Analysis Batch: 310227

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity, Total	100	97.1		mg/L		97	90 - 110

Method: SM 4500 P E - Orthophosphate

Lab Sample ID: MB 480-310075/3
Matrix: Water
Analysis Batch: 310075

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
ortho-Phosphate	ND		0.020		mg/L			07/07/16 11:15	1

Lab Sample ID: LCS 480-310075/4
Matrix: Water
Analysis Batch: 310075

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
ortho-Phosphate	0.200	0.185		mg/L		93	90 - 110

Lab Sample ID: 480-102681-1 MS
Matrix: Water
Analysis Batch: 310075

Client Sample ID: MW-265M-20160706
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
ortho-Phosphate	0.24		1.00	1.33		mg/L		108	49 - 138

Lab Sample ID: 480-102681-1 MSD
Matrix: Water
Analysis Batch: 310075

Client Sample ID: MW-265M-20160706
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
ortho-Phosphate	0.24		1.00	1.25		mg/L		101	49 - 138	6	20

QC Association Summary

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-102681-1

GC/MS VOA

Analysis Batch: 309992

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-102681-1	MW-265M-20160706	Total/NA	Water	8260C	
480-102681-2	MW-562-20160706	Total/NA	Water	8260C	
480-102681-4	REW-8-20160706	Total/NA	Water	8260C	
480-102681-5	REW-11-20160706	Total/NA	Water	8260C	
480-102681-6	REW-12-20160706	Total/NA	Water	8260C	
480-102681-8	TRIP BLANKS	Total/NA	Water	8260C	
LCS 480-309992/5	Lab Control Sample	Total/NA	Water	8260C	
LCSD 480-309992/6	Lab Control Sample Dup	Total/NA	Water	8260C	
MB 480-309992/8	Method Blank	Total/NA	Water	8260C	

Analysis Batch: 310121

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-102681-3	REW-7-20160706	Total/NA	Water	8260C	
480-102681-7	DUP2-20160706	Total/NA	Water	8260C	
LCS 480-310121/5	Lab Control Sample	Total/NA	Water	8260C	
LCSD 480-310121/8	Lab Control Sample Dup	Total/NA	Water	8260C	
MB 480-310121/7	Method Blank	Total/NA	Water	8260C	

Metals

Prep Batch: 309994

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-102681-1	MW-265M-20160706	Total/NA	Water	3005A	
480-102681-2	MW-562-20160706	Total/NA	Water	3005A	
480-102681-3	REW-7-20160706	Total/NA	Water	3005A	
480-102681-4	REW-8-20160706	Total/NA	Water	3005A	
480-102681-5	REW-11-20160706	Total/NA	Water	3005A	
480-102681-6	REW-12-20160706	Total/NA	Water	3005A	
LCS 480-309994/2-A	Lab Control Sample	Total/NA	Water	3005A	
LCSD 480-309994/3-A	Lab Control Sample Dup	Total/NA	Water	3005A	
MB 480-309994/1-A	Method Blank	Total/NA	Water	3005A	

Analysis Batch: 310221

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-102681-1	MW-265M-20160706	Total/NA	Water	6010	309994
480-102681-2	MW-562-20160706	Total/NA	Water	6010	309994
480-102681-3	REW-7-20160706	Total/NA	Water	6010	309994
480-102681-4	REW-8-20160706	Total/NA	Water	6010	309994
480-102681-5	REW-11-20160706	Total/NA	Water	6010	309994
480-102681-6	REW-12-20160706	Total/NA	Water	6010	309994
LCS 480-309994/2-A	Lab Control Sample	Total/NA	Water	6010	309994
LCSD 480-309994/3-A	Lab Control Sample Dup	Total/NA	Water	6010	309994
MB 480-309994/1-A	Method Blank	Total/NA	Water	6010	309994

General Chemistry

Analysis Batch: 310075

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-102681-1	MW-265M-20160706	Total/NA	Water	SM 4500 P E	
480-102681-1 MS	MW-265M-20160706	Total/NA	Water	SM 4500 P E	

TestAmerica Buffalo

QC Association Summary

Client: Innovative Engineering Solutions, Inc
 Project/Site: IDS Wayland

TestAmerica Job ID: 480-102681-1

General Chemistry (Continued)

Analysis Batch: 310075 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-102681-1 MSD	MW-265M-20160706	Total/NA	Water	SM 4500 P E	
480-102681-2	MW-562-20160706	Total/NA	Water	SM 4500 P E	
480-102681-3	REW-7-20160706	Total/NA	Water	SM 4500 P E	
480-102681-4	REW-8-20160706	Total/NA	Water	SM 4500 P E	
480-102681-5	REW-11-20160706	Total/NA	Water	SM 4500 P E	
480-102681-6	REW-12-20160706	Total/NA	Water	SM 4500 P E	
LCS 480-310075/4	Lab Control Sample	Total/NA	Water	SM 4500 P E	
MB 480-310075/3	Method Blank	Total/NA	Water	SM 4500 P E	

Analysis Batch: 310078

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-102681-1	MW-265M-20160706	Total/NA	Water	9040C	
480-102681-2	MW-562-20160706	Total/NA	Water	9040C	
480-102681-3	REW-7-20160706	Total/NA	Water	9040C	
480-102681-4	REW-8-20160706	Total/NA	Water	9040C	
480-102681-5	REW-11-20160706	Total/NA	Water	9040C	
480-102681-6	REW-12-20160706	Total/NA	Water	9040C	
LCS 480-310078/1	Lab Control Sample	Total/NA	Water	9040C	

Analysis Batch: 310101

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-102681-1	MW-265M-20160706	Total/NA	Water	353.2	
480-102681-2	MW-562-20160706	Total/NA	Water	353.2	
480-102681-3	REW-7-20160706	Total/NA	Water	353.2	
480-102681-4	REW-8-20160706	Total/NA	Water	353.2	
480-102681-5	REW-11-20160706	Total/NA	Water	353.2	
480-102681-6	REW-12-20160706	Total/NA	Water	353.2	

Prep Batch: 310159

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-102681-1	MW-265M-20160706	Total/NA	Water	Distill/Ammonia	
480-102681-2	MW-562-20160706	Total/NA	Water	Distill/Ammonia	
480-102681-3	REW-7-20160706	Total/NA	Water	Distill/Ammonia	
480-102681-4	REW-8-20160706	Total/NA	Water	Distill/Ammonia	
480-102681-5	REW-11-20160706	Total/NA	Water	Distill/Ammonia	
480-102681-6	REW-12-20160706	Total/NA	Water	Distill/Ammonia	
LCS 480-310159/1-A	Lab Control Sample	Total/NA	Water	Distill/Ammonia	
MB 480-310159/2-A	Method Blank	Total/NA	Water	Distill/Ammonia	

Analysis Batch: 310227

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-102681-1	MW-265M-20160706	Total/NA	Water	SM 2320B	
480-102681-2	MW-562-20160706	Total/NA	Water	SM 2320B	
480-102681-3	REW-7-20160706	Total/NA	Water	SM 2320B	
480-102681-4	REW-8-20160706	Total/NA	Water	SM 2320B	
480-102681-5	REW-11-20160706	Total/NA	Water	SM 2320B	
480-102681-6	REW-12-20160706	Total/NA	Water	SM 2320B	
LCS 480-310227/31	Lab Control Sample	Total/NA	Water	SM 2320B	
LCS 480-310227/8	Lab Control Sample	Total/NA	Water	SM 2320B	
MB 480-310227/30	Method Blank	Total/NA	Water	SM 2320B	
MB 480-310227/7	Method Blank	Total/NA	Water	SM 2320B	

TestAmerica Buffalo

QC Association Summary

Client: Innovative Engineering Solutions, Inc
 Project/Site: IDS Wayland

TestAmerica Job ID: 480-102681-1

Analysis Batch: 310245

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-102681-1	MW-265M-20160706	Total/NA	Water	300.0	
480-102681-2	MW-562-20160706	Total/NA	Water	300.0	
480-102681-3	REW-7-20160706	Total/NA	Water	300.0	
480-102681-4	REW-8-20160706	Total/NA	Water	300.0	
480-102681-5	REW-11-20160706	Total/NA	Water	300.0	
480-102681-6	REW-12-20160706	Total/NA	Water	300.0	
LCS 480-310245/3	Lab Control Sample	Total/NA	Water	300.0	
MB 480-310245/4	Method Blank	Total/NA	Water	300.0	

Analysis Batch: 310327

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-102681-1	MW-265M-20160706	Total/NA	Water	350.1	310159
480-102681-2	MW-562-20160706	Total/NA	Water	350.1	310159
480-102681-3	REW-7-20160706	Total/NA	Water	350.1	310159
480-102681-4	REW-8-20160706	Total/NA	Water	350.1	310159
480-102681-5	REW-11-20160706	Total/NA	Water	350.1	310159
480-102681-6	REW-12-20160706	Total/NA	Water	350.1	310159
LCS 480-310159/1-A	Lab Control Sample	Total/NA	Water	350.1	310159
MB 480-310159/2-A	Method Blank	Total/NA	Water	350.1	310159

Analysis Batch: 310337

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-102681-1	MW-265M-20160706	Total/NA	Water	9060A	
480-102681-3	REW-7-20160706	Total/NA	Water	9060A	
480-102681-3 DU	REW-7-20160706	Total/NA	Water	9060A	
480-102681-4	REW-8-20160706	Total/NA	Water	9060A	
480-102681-4 MS	REW-8-20160706	Total/NA	Water	9060A	
480-102681-5	REW-11-20160706	Total/NA	Water	9060A	
LCS 480-310337/4	Lab Control Sample	Total/NA	Water	9060A	
MB 480-310337/3	Method Blank	Total/NA	Water	9060A	

Analysis Batch: 310699

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-102681-2	MW-562-20160706	Total/NA	Water	9060A	
480-102681-6	REW-12-20160706	Total/NA	Water	9060A	
LCS 480-310699/28	Lab Control Sample	Total/NA	Water	9060A	
LCS 480-310699/4	Lab Control Sample	Total/NA	Water	9060A	
MB 480-310699/27	Method Blank	Total/NA	Water	9060A	
MB 480-310699/3	Method Blank	Total/NA	Water	9060A	

Lab Chronicle

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-102681-1

Client Sample ID: MW-265M-20160706

Lab Sample ID: 480-102681-1

Date Collected: 07/06/16 11:35

Matrix: Water

Date Received: 07/07/16 02:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		5	309992	07/07/16 13:46	RRS	TAL BUF
Total/NA	Prep	3005A			309994	07/07/16 08:55	BAE	TAL BUF
Total/NA	Analysis	6010		1	310221	07/07/16 20:27	AMH	TAL BUF
Total/NA	Analysis	300.0		10	310245	07/08/16 14:19	CAV	TAL BUF
Total/NA	Prep	Distill/Ammonia			310159	07/07/16 20:52	CEA	TAL BUF
Total/NA	Analysis	350.1		1	310327	07/08/16 17:39	CEA	TAL BUF
Total/NA	Analysis	353.2		1	310101	07/07/16 11:08	ELR	TAL BUF
Total/NA	Analysis	9040C		1	310078	07/07/16 11:52	ELR	TAL BUF
Total/NA	Analysis	9060A		10	310337	07/07/16 22:35	DLG	TAL BUF
Total/NA	Analysis	SM 2320B		1	310227	07/07/16 17:43	ELR	TAL BUF
Total/NA	Analysis	SM 4500 P E		1	310075	07/07/16 11:15	DLG	TAL BUF

Client Sample ID: MW-562-20160706

Lab Sample ID: 480-102681-2

Date Collected: 07/06/16 10:55

Matrix: Water

Date Received: 07/07/16 02:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		4	309992	07/07/16 14:12	RRS	TAL BUF
Total/NA	Prep	3005A			309994	07/07/16 08:55	BAE	TAL BUF
Total/NA	Analysis	6010		1	310221	07/07/16 20:31	AMH	TAL BUF
Total/NA	Analysis	300.0		10	310245	07/08/16 14:27	CAV	TAL BUF
Total/NA	Prep	Distill/Ammonia			310159	07/07/16 20:52	CEA	TAL BUF
Total/NA	Analysis	350.1		2	310327	07/08/16 17:48	CEA	TAL BUF
Total/NA	Analysis	353.2		1	310101	07/07/16 11:07	ELR	TAL BUF
Total/NA	Analysis	9040C		1	310078	07/07/16 11:55	ELR	TAL BUF
Total/NA	Analysis	9060A		10	310699	07/11/16 15:56	EKB	TAL BUF
Total/NA	Analysis	SM 2320B		1	310227	07/07/16 17:52	ELR	TAL BUF
Total/NA	Analysis	SM 4500 P E		1	310075	07/07/16 11:15	DLG	TAL BUF

Client Sample ID: REW-7-20160706

Lab Sample ID: 480-102681-3

Date Collected: 07/06/16 09:30

Matrix: Water

Date Received: 07/07/16 02:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	310121	07/07/16 20:02	GTG	TAL BUF
Total/NA	Prep	3005A			309994	07/07/16 08:55	BAE	TAL BUF
Total/NA	Analysis	6010		1	310221	07/07/16 20:35	AMH	TAL BUF
Total/NA	Analysis	300.0		5	310245	07/08/16 14:35	CAV	TAL BUF
Total/NA	Prep	Distill/Ammonia			310159	07/07/16 20:52	CEA	TAL BUF
Total/NA	Analysis	350.1		1	310327	07/08/16 17:41	CEA	TAL BUF
Total/NA	Analysis	353.2		1	310101	07/07/16 11:03	ELR	TAL BUF

TestAmerica Buffalo

Lab Chronicle

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-102681-1

Client Sample ID: REW-7-20160706

Lab Sample ID: 480-102681-3

Date Collected: 07/06/16 09:30

Matrix: Water

Date Received: 07/07/16 02:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9040C		1	310078	07/07/16 11:58	ELR	TAL BUF
Total/NA	Analysis	9060A		1	310337	07/07/16 23:31	DLG	TAL BUF
Total/NA	Analysis	SM 2320B		1	310227	07/07/16 17:58	ELR	TAL BUF
Total/NA	Analysis	SM 4500 P E		1	310075	07/07/16 11:15	DLG	TAL BUF

Client Sample ID: REW-8-20160706

Lab Sample ID: 480-102681-4

Date Collected: 07/06/16 08:40

Matrix: Water

Date Received: 07/07/16 02:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	309992	07/07/16 15:03	RRS	TAL BUF
Total/NA	Prep	3005A			309994	07/07/16 08:55	BAE	TAL BUF
Total/NA	Analysis	6010		1	310221	07/07/16 20:49	AMH	TAL BUF
Total/NA	Analysis	300.0		5	310245	07/08/16 15:32	CAV	TAL BUF
Total/NA	Prep	Distill/Ammonia			310159	07/07/16 20:52	CEA	TAL BUF
Total/NA	Analysis	350.1		1	310327	07/08/16 17:41	CEA	TAL BUF
Total/NA	Analysis	353.2		1	310101	07/07/16 11:02	ELR	TAL BUF
Total/NA	Analysis	9040C		1	310078	07/07/16 12:01	ELR	TAL BUF
Total/NA	Analysis	9060A		1	310337	07/08/16 00:26	DLG	TAL BUF
Total/NA	Analysis	SM 2320B		1	310227	07/07/16 18:06	ELR	TAL BUF
Total/NA	Analysis	SM 4500 P E		1	310075	07/07/16 11:15	DLG	TAL BUF

Client Sample ID: REW-11-20160706

Lab Sample ID: 480-102681-5

Date Collected: 07/06/16 10:15

Matrix: Water

Date Received: 07/07/16 02:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	309992	07/07/16 15:28	RRS	TAL BUF
Total/NA	Prep	3005A			309994	07/07/16 08:55	BAE	TAL BUF
Total/NA	Analysis	6010		1	310221	07/07/16 20:52	AMH	TAL BUF
Total/NA	Analysis	300.0		5	310245	07/08/16 15:40	CAV	TAL BUF
Total/NA	Prep	Distill/Ammonia			310159	07/07/16 20:52	CEA	TAL BUF
Total/NA	Analysis	350.1		1	310327	07/08/16 17:42	CEA	TAL BUF
Total/NA	Analysis	353.2		1	310101	07/07/16 11:05	ELR	TAL BUF
Total/NA	Analysis	9040C		1	310078	07/07/16 12:04	ELR	TAL BUF
Total/NA	Analysis	9060A		5	310337	07/08/16 01:22	DLG	TAL BUF
Total/NA	Analysis	SM 2320B		1	310227	07/07/16 18:12	ELR	TAL BUF
Total/NA	Analysis	SM 4500 P E		1	310075	07/07/16 11:15	DLG	TAL BUF

TestAmerica Buffalo

Lab Chronicle

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-102681-1

Client Sample ID: REW-12-20160706

Lab Sample ID: 480-102681-6

Date Collected: 07/06/16 08:05

Matrix: Water

Date Received: 07/07/16 02:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		2	309992	07/07/16 15:53	RRS	TAL BUF
Total/NA	Prep	3005A			309994	07/07/16 08:55	BAE	TAL BUF
Total/NA	Analysis	6010		1	310221	07/07/16 20:56	AMH	TAL BUF
Total/NA	Analysis	300.0		5	310245	07/08/16 15:48	CAV	TAL BUF
Total/NA	Prep	Distill/Ammonia			310159	07/07/16 20:52	CEA	TAL BUF
Total/NA	Analysis	350.1		1	310327	07/08/16 17:43	CEA	TAL BUF
Total/NA	Analysis	353.2		1	310101	07/07/16 11:00	ELR	TAL BUF
Total/NA	Analysis	9040C		1	310078	07/07/16 12:07	ELR	TAL BUF
Total/NA	Analysis	9060A		5	310699	07/11/16 16:24	EKB	TAL BUF
Total/NA	Analysis	SM 2320B		1	310227	07/07/16 18:31	ELR	TAL BUF
Total/NA	Analysis	SM 4500 P E		1	310075	07/07/16 11:15	DLG	TAL BUF

Client Sample ID: DUP2-20160706

Lab Sample ID: 480-102681-7

Date Collected: 07/06/16 00:00

Matrix: Water

Date Received: 07/07/16 02:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	310121	07/07/16 20:28	GTG	TAL BUF

Client Sample ID: TRIP BLANKS

Lab Sample ID: 480-102681-8

Date Collected: 07/06/16 00:00

Matrix: Water

Date Received: 07/07/16 02:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	309992	07/07/16 11:43	RRS	TAL BUF

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Certification Summary

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-102681-1

Laboratory: TestAmerica Buffalo

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Arkansas DEQ	State Program	6	88-0686	07-06-17
California	State Program	9	1169CA	09-30-17
Connecticut	State Program	1	PH-0568	09-30-16
Florida	NELAP	4	E87672	06-30-16 *
Georgia	State Program	4	N/A	03-31-17
Georgia	State Program	4	956	03-31-17
Illinois	NELAP	5	200003	09-30-16
Iowa	State Program	7	374	03-01-17
Kentucky (DW)	State Program	4	90029	12-31-16
Kentucky (UST)	State Program	4	30	03-31-17
Kentucky (WW)	State Program	4	90029	12-31-16
Louisiana	NELAP	6	02031	06-30-17
Maine	State Program	1	NY00044	12-04-16
Maryland	State Program	3	294	03-31-17
Massachusetts	State Program	1	M-NY044	06-30-17
Michigan	State Program	5	9937	03-31-16 *
Minnesota	NELAP	5	036-999-337	12-31-16
New Hampshire	NELAP Primary AB	1	2973	09-11-16
New Hampshire	NELAP Secondary AB	1	2337	11-17-16
New Jersey	NELAP	2	NY455	06-30-17
New York	NELAP	2	10026	03-31-17
North Dakota	State Program	8	R-176	03-31-17
Oklahoma	State Program	6	9421	08-31-16
Oregon	NELAP	10	NY200003	06-09-17
Pennsylvania	NELAP	3	68-00281	07-31-16 *
Rhode Island	State Program	1	LAO00328	12-30-16
Tennessee	State Program	4	TN02970	03-31-17
Texas	NELAP	6	T104704412-15-6	07-31-16 *
USDA	Federal		P330-11-00386	11-26-17
Virginia	NELAP	3	460185	09-14-16
Washington	State Program	10	C784	02-10-17
West Virginia DEP	State Program	3	252	09-30-16
Wisconsin	State Program	5	998310390	08-31-16

* Certification renewal pending - certification considered valid.

Method Summary

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-102681-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds (GC/MS)	MA DEP	TAL BUF
6010	Metals (ICP)	SW846	TAL BUF
300.0	Anions, Ion Chromatography	MCAWW	TAL BUF
350.1	Nitrogen, Ammonia	MCAWW	TAL BUF
353.2	Nitrate	EPA	TAL BUF
9040C	pH	SW846	TAL BUF
9060A	Organic Carbon, Total (TOC)	SW846	TAL BUF
SM 2320B	Alkalinity	SM	TAL BUF
SM 4500 P E	Orthophosphate	SM	TAL BUF

Protocol References:

EPA = US Environmental Protection Agency

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.

SM = "Standard Methods For The Examination Of Water And Wastewater",

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

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Sample Summary

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-102681-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-102681-1	MW-265M-20160706	Water	07/06/16 11:35	07/07/16 02:00
480-102681-2	MW-562-20160706	Water	07/06/16 10:55	07/07/16 02:00
480-102681-3	REW-7-20160706	Water	07/06/16 09:30	07/07/16 02:00
480-102681-4	REW-8-20160706	Water	07/06/16 08:40	07/07/16 02:00
480-102681-5	REW-11-20160706	Water	07/06/16 10:15	07/07/16 02:00
480-102681-6	REW-12-20160706	Water	07/06/16 08:05	07/07/16 02:00
480-102681-7	DUP2-20160706	Water	07/06/16 00:00	07/07/16 02:00
480-102681-8	TRIP BLANKS	Water	07/06/16 00:00	07/07/16 02:00

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15

Login Sample Receipt Checklist

Client: Innovative Engineering Solutions, Inc

Job Number: 480-102681-1

Login Number: 102681

List Number: 1

Creator: Williams, Christopher S

List Source: TestAmerica Buffalo

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
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 (Excluding tests with immediate HTs)..	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	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	IESI
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

TestAmerica Westfield
501 Southampton Road
Westfield MA 01085
Phone: (413) 572-4000 Fax: (303) 467-7247

TestAmerica Boston
240 Bear Hill Road -- Suite 104
Waltham MA 02451
Phone: (781) 466-6900 Fax: (781) 466-6901

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information:
Client Contact: *Vida Pereira*
Company: *Innovative Engineering Solutions Inc*
Address: *25 Spring St*
City: *Waldpole*
State and Zip: *MA 02091*
Client's Phone: *508-668-0033*
Client's Contact Email: *v.pereira@iesi.com*
Client's Project Name/Number: *Restroom Workshop RA-008*
Sample Collection Site Name & Location: *Waldpole MA*

Sample Collector's Name (Please Print Neatly): *Dany Jones*
Sample Collector's Phone: *508-668-0033*
Lab Pw: *308-668-0033*
E-Mail:

COC No: **36965**
Page: **1** of **1**
Job #: **1**
480-102681 Chain of Custody

Analysis Requested
Due Date Requested: *7/14/16*
Turnaround Time (TAT) Requested (business days): *5 days*
Quote # or Project #: *RA-008*
PO #:
WO #:
PWS ID #:

Sample Identification	Sample Collection Date (MM/DD/YY)	Sample Collection Time (24 Hour Clock)	Sample Type: C=Comp G=Grab	Matrix Type **	Preservation Codes
<i>ms-815m-20160706</i>	<i>7/6/16</i>	<i>1135</i>	<i>G</i>	<i>W</i>	<i>X</i>
<i>ms-512-20160706</i>	<i>7/6/16</i>	<i>1055</i>	<i>G</i>	<i>W</i>	<i>X</i>
<i>ms-7-20160706</i>	<i>7/6/16</i>	<i>0930</i>	<i>G</i>	<i>W</i>	<i>X</i>
<i>ms-8-20160706</i>	<i>7/6/16</i>	<i>0840</i>	<i>G</i>	<i>W</i>	<i>X</i>
<i>ms-11-20160706</i>	<i>7/6/16</i>	<i>1015</i>	<i>G</i>	<i>W</i>	<i>X</i>
<i>ms-12-20160706</i>	<i>7/6/16</i>	<i>0805</i>	<i>G</i>	<i>W</i>	<i>X</i>
<i>Dupl-20160706</i>	<i>7/6/16</i>	<i>-</i>	<i>G</i>	<i>W</i>	<i>X</i>
<i>Temp Blanks</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>W</i>	<i>X</i>

Sample Identification	Sample Collection Date (MM/DD/YY)	Sample Collection Time (24 Hour Clock)	Sample Type: C=Comp G=Grab	Matrix Type **	Preservation Codes	Total Number of Containers (enter total for each line)	Special Instructions & Notes:
<i>ms-815m-20160706</i>	<i>7/6/16</i>	<i>1135</i>	<i>G</i>	<i>W</i>	<i>X</i>	<i>10</i>	
<i>ms-512-20160706</i>	<i>7/6/16</i>	<i>1055</i>	<i>G</i>	<i>W</i>	<i>X</i>	<i>10</i>	
<i>ms-7-20160706</i>	<i>7/6/16</i>	<i>0930</i>	<i>G</i>	<i>W</i>	<i>X</i>	<i>10</i>	
<i>ms-8-20160706</i>	<i>7/6/16</i>	<i>0840</i>	<i>G</i>	<i>W</i>	<i>X</i>	<i>10</i>	
<i>ms-11-20160706</i>	<i>7/6/16</i>	<i>1015</i>	<i>G</i>	<i>W</i>	<i>X</i>	<i>10</i>	
<i>ms-12-20160706</i>	<i>7/6/16</i>	<i>0805</i>	<i>G</i>	<i>W</i>	<i>X</i>	<i>10</i>	
<i>Dupl-20160706</i>	<i>7/6/16</i>	<i>-</i>	<i>G</i>	<i>W</i>	<i>X</i>	<i>3</i>	
<i>Temp Blanks</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>W</i>	<i>X</i>	<i>2</i>	

Possible Hazard Identification (please check off each that may apply):
 Non-Hazard Flammable Skin Irritant Poison B Unknown Radiological
 Matrix Types: A=Air S=Solid/Soil W=Water O=Oil X=Waste (non-water) Z=Other: _____

Sample Disposal Requirements (A fee may be assessed if samples are retained longer than 1 month):
 Return To Client Disposal By Lab Archive For _____ Months

NOTE!! ALL SAMPLES MUST BE TRANSPORTED IN A COOLER, ON ICE !!

Relinquished by: *[Signature]* Date/Time: *7/13/16 1810* Company: *IESI*
 Relinquished by: *[Signature]* Date/Time: *7-6-16 1700* Company: *IEA*
 Relinquished by: *[Signature]* Date/Time: *7-7-16 0200* Company: *TAS*

Cooler Temperature(s) °C and Other Remarks: *0.9*



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Buffalo

10 Hazelwood Drive

Amherst, NY 14228-2298

Tel: (716)691-2600

TestAmerica Job ID: 480-106923-1

Client Project/Site: IDS Wayland

For:

Innovative Engineering Solutions, Inc

25 Spring Street

Walpole, Massachusetts 02081

Attn: Vicki Pariyar



Authorized for release by:

10/11/2016 9:05:07 AM

Denise Giglia, Project Management Assistant II

denise.giglia@testamericainc.com

Designee for

Becky Mason, Project Manager II

(413)572-4000

becky.mason@testamericainc.com

LINKS

Review your project
results through

TotalAccess

Have a Question?



Visit us at:

www.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.

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15



Table of Contents

Cover Page	1
Table of Contents	2
Definitions/Glossary	3
Case Narrative	4
Detection Summary	7
Client Sample Results	10
Surrogate Summary	29
QC Sample Results	30
QC Association Summary	51
Lab Chronicle	55
Certification Summary	58
Method Summary	60
Sample Summary	61
Receipt Checklists	62
Chain of Custody	64

Definitions/Glossary

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-106923-1

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
X	Surrogate is outside control limits

General Chemistry

Qualifier	Qualifier Description
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-106923-1

Job ID: 480-106923-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative 480-106923-1

Receipt

The samples were received on 10/4/2016 12:50 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.7° C.

GC/MS VOA

Method 8260C: With the exception of diluted samples, per question G on the MassDEP Analytical Protocol Certification Form, TestAmerica's routine reporting limits do not achieve the CAM reporting limits specified in this CAM protocol for 1,2-dibromo-3-chloropropane, Carbon Disulfide, Isopropyl Ether, Naphthalene, tert-Amyl Methyl Ether and Tetrahydrofuran.

Method 8260C: The continuing calibration verification (CCV) for Tetrahydrofuran, Dichlorodifluoromethane, and 1,4-Dioxane associated with batch 480-323673 recovered outside the MCP control limit criteria. MCP protocol allows for 20% of the target compounds to be outside the 20% difference but not over 40% difference. Difficult analytes are allowed to be outside the 20% difference but not over 60% difference. The following sample was affected : TRIP BLANKS (480-106923-10).

Method 8260C: The following volatiles samples were diluted due to foaming at the time of purging during the original sample analysis: MW-562-20161003 (480-106923-5) and MW-265M-20161003 (480-106923-7). Elevated reporting limits (RLs) are provided.

Method 8260C: The following samples were collected in properly preserved vials for analysis of volatile organic compounds (VOCs). However, the pH was outside the required criteria when verified by the laboratory, and corrective action was not possible: MW-265M-20161003 (480-106923-7). The sample was analyzed within 7 days per EPA recommendation.

Method 8260C: The continuing calibration verification (CCV) associated with batch 480-323720 recovered outside MCP control limits but <40% for Trichlorofluoromethane, 1,2,3-Trichloropropane, Tetrahydrofuran, Naphthalene and 1,4-Dioxane . MCP protocol allows for 20% of the target compounds to be outside the 20% difference but not over 40% difference. The following samples are impacted: MW-551-20161003 (480-106923-2), MW-552-20161003 (480-106923-3), MW-553-20161003 (480-106923-4), MW-562-20161003 (480-106923-5), MW-265S-20161003 (480-106923-6), MW-265M-20161003 (480-106923-7), MW-265D-20161003 (480-106923-8) and DUP1-20161003 (480-106923-9).

Method 8260C: The continuing calibration verification (CCV) for Acetone and 1,4-Dioxane associated with batch 480-323855 recovered outside the MCP control limit criteria. MCP protocol allows for 20% of the target compounds to be outside the 20% difference but not over 40% difference. Difficult analytes are allowed to be outside the 20% difference but not over 60% difference. The following sample was affected : MW-261S-20161003 (480-106923-1).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA

Method 522: Surrogate recovery for the following sample was outside control limits: MW-265M-20161003 (480-106923-7). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

HPLC/IC

Method 300.0: The following samples were diluted due to the nature of the sample matrix: MW-261S-20161003 (480-106923-1), MW-552-20161003 (480-106923-3), MW-553-20161003 (480-106923-4), MW-562-20161003 (480-106923-5) and MW-265M-20161003 (480-106923-7). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals

Method 6010: At the request of the client, an abbreviated/modified MCP compound list was reported for this job.

No additional analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Case Narrative

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-106923-1

Job ID: 480-106923-1 (Continued)

Laboratory: TestAmerica Buffalo (Continued)

General Chemistry

Method 9040C, SM 4500 H+ B: This analysis is normally performed in the field and has a method-defined holding time of 15 minutes. The following samples has been qualified with the "HF" flag to indicate analysis was performed in the laboratory outside the 15 minute timeframe: MW-261S-20161003 (480-106923-1), MW-552-20161003 (480-106923-3), MW-553-20161003 (480-106923-4), MW-562-20161003 (480-106923-5) and MW-265M-20161003 (480-106923-7).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15

MassDEP Analytical Protocol Certification Form

Laboratory Name: **TestAmerica Buffalo** Project #: **480-106923**

Project Location: **IDS Wayland** RTN:

This form provides certifications for the following data set: list Laboratory Sample ID Number(s):
480-106923 [1-10]

Matrices: Groundwater/Surface Water Soil/Sediment Drinking Water Air Other:

CAM Protocols (check all that apply below):

8260 VOC CAM II A <input checked="" type="checkbox"/>	7470/7471 Hg CAM III B <input type="checkbox"/>	Mass DEP VPH CAM IV A <input type="checkbox"/>	8081 Pesticides CAM V B <input type="checkbox"/>	7196 Hex Cr CAM VI B <input type="checkbox"/>	Mass DEP APH CAM IX A <input type="checkbox"/>
8270 SVOC CAM II B <input type="checkbox"/>	7010 Metals CAM III C <input type="checkbox"/>	Mass DEP EPH CAM IV B <input type="checkbox"/>	8151 Herbicides CAM V C <input type="checkbox"/>	8330 Explosives CAM VIII A <input type="checkbox"/>	TO-15 VOC CAM IX B <input type="checkbox"/>
6010 Metals CAM III A <input checked="" type="checkbox"/>	6020 Metals CAM III D <input type="checkbox"/>	8082 PCB CAM V A <input type="checkbox"/>	9014 Total Cyanide/PAC CAM VI A <input type="checkbox"/>	6860 Perchlorate CAM VIII B <input type="checkbox"/>	

Affirmative Responses to Questions A through F are 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 time.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
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?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
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"?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
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). b. APH and TO-15 Methods only: Was the complete analyte list reported for each method?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No
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)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

Responses to Questions G, H and I below are required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No ¹
----------	---	--

Data User Note: 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

H	Were all QC performance standards specified in the CAM protocol(s) achieved?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No ¹
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s) ?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No ¹

¹ All negative responses must be addressed in an attached laboratory narrative.

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, is accurate and complete.

Signature: Denise L. Giglia Position: Project Manager Assistant II
 Printed Name: Denise L. Giglia Date: 10/11/16 8:53

Detection Summary

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-106923-1

Client Sample ID: MW-261S-20161003

Lab Sample ID: 480-106923-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	1.7		1.0		ug/L	1		8260C	Total/NA
Ethylbenzene	4.1		1.0		ug/L	1		8260C	Total/NA
m-Xylene & p-Xylene	14		2.0		ug/L	1		8260C	Total/NA
o-Xylene	3.5		1.0		ug/L	1		8260C	Total/NA
Toluene	1.9		1.0		ug/L	1		8260C	Total/NA
1,4-Dioxane	2.7		0.20		ug/L	1		522	Total/NA
Iron	50		0.050		mg/L	1		6010	Total/NA
Chloride	23		2.5		mg/L	5		300.0	Total/NA
Ammonia	0.48		0.20		mg/L	1		350.1	Total/NA
TOC Result 1	2.0		1.0		mg/L	1		9060A	Total/NA
TOC Result 2	2.2		1.0		mg/L	1		9060A	Total/NA
Total Organic Carbon - Duplicates	2.1		1.0		mg/L	1		9060A	Total/NA
Alkalinity, Total	400		5.0		mg/L	1		SM 2320B	Total/NA
Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
pH	6.8	HF	0.1		SU	1		9040C	Total/NA

Client Sample ID: MW-551-20161003

Lab Sample ID: 480-106923-2

No Detections.

Client Sample ID: MW-552-20161003

Lab Sample ID: 480-106923-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	2.4		1.0		ug/L	1		8260C	Total/NA
1,4-Dioxane	1.7		0.20		ug/L	1		522	Total/NA
Iron	33		0.050		mg/L	1		6010	Total/NA
Chloride	13		2.5		mg/L	5		300.0	Total/NA
Ammonia	0.47		0.20		mg/L	1		350.1	Total/NA
TOC Result 1	1.4		1.0		mg/L	1		9060A	Total/NA
TOC Result 2	1.6		1.0		mg/L	1		9060A	Total/NA
Total Organic Carbon - Duplicates	1.5		1.0		mg/L	1		9060A	Total/NA
Alkalinity, Total	480		5.0		mg/L	1		SM 2320B	Total/NA
ortho-Phosphate	0.026		0.020		mg/L	1		SM 4500 P E	Total/NA
Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
pH	6.9	HF	0.1		SU	1		9040C	Total/NA

Client Sample ID: MW-553-20161003

Lab Sample ID: 480-106923-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	6.3		1.0		ug/L	1		8260C	Total/NA
m-Xylene & p-Xylene	23		2.0		ug/L	1		8260C	Total/NA
o-Xylene	5.7		1.0		ug/L	1		8260C	Total/NA
Toluene	5.6		1.0		ug/L	1		8260C	Total/NA
Vinyl chloride	2.6		1.0		ug/L	1		8260C	Total/NA
Iron	33		0.050		mg/L	1		6010	Total/NA
Chloride	13		5.0		mg/L	10		300.0	Total/NA
Ammonia	0.42		0.20		mg/L	1		350.1	Total/NA
TOC Result 1	2.1		1.0		mg/L	1		9060A	Total/NA
TOC Result 2	2.7		1.0		mg/L	1		9060A	Total/NA
Total Organic Carbon - Duplicates	2.4		1.0		mg/L	1		9060A	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

Detection Summary

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-106923-1

Client Sample ID: MW-553-20161003 (Continued)

Lab Sample ID: 480-106923-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Alkalinity, Total	650		5.0		mg/L	1		SM 2320B	Total/NA
ortho-Phosphate	0.043		0.020		mg/L	1		SM 4500 P E	Total/NA
Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
pH	7.0	HF	0.1		SU	1		9040C	Total/NA

Client Sample ID: MW-562-20161003

Lab Sample ID: 480-106923-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	140		40		ug/L	4		8260C	Total/NA
Toluene	6.0		4.0		ug/L	4		8260C	Total/NA
Iron	240		0.050		mg/L	1		6010	Total/NA
Chloride	31		5.0		mg/L	10		300.0	Total/NA
Ammonia	1.1		0.20		mg/L	1		350.1	Total/NA
TOC Result 1	560		20		mg/L	20		9060A	Total/NA
TOC Result 2	590		20		mg/L	20		9060A	Total/NA
Total Organic Carbon - Duplicates	580		20		mg/L	20		9060A	Total/NA
Alkalinity, Total	510		5.0		mg/L	1		SM 2320B	Total/NA
ortho-Phosphate	1.4		0.10		mg/L	5		SM 4500 P E	Total/NA
Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
pH	6.1	HF	0.1		SU	1		9040C	Total/NA

Client Sample ID: MW-265S-20161003

Lab Sample ID: 480-106923-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	1.5		1.0		ug/L	1		8260C	Total/NA
m-Xylene & p-Xylene	2.6		2.0		ug/L	1		8260C	Total/NA
o-Xylene	1.3		1.0		ug/L	1		8260C	Total/NA
Toluene	1.1		1.0		ug/L	1		8260C	Total/NA

Client Sample ID: MW-265M-20161003

Lab Sample ID: 480-106923-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	140		50		ug/L	5		8260C	Total/NA
Acetone	460		250		ug/L	5		8260C	Total/NA
m-Xylene & p-Xylene	14		10		ug/L	5		8260C	Total/NA
o-Xylene	5.4		5.0		ug/L	5		8260C	Total/NA
Toluene	9.3		5.0		ug/L	5		8260C	Total/NA
Iron	460		0.050		mg/L	1		6010	Total/NA
Chloride	41		10		mg/L	20		300.0	Total/NA
Ammonia	0.50		0.20		mg/L	1		350.1	Total/NA
TOC Result 1	1300		20		mg/L	20		9060A	Total/NA
TOC Result 2	1400		20		mg/L	20		9060A	Total/NA
Total Organic Carbon - Duplicates	1400		20		mg/L	20		9060A	Total/NA
Alkalinity, Total	730		5.0		mg/L	1		SM 2320B	Total/NA
ortho-Phosphate	0.19		0.020		mg/L	1		SM 4500 P E	Total/NA
Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
pH	5.1	HF	0.1		SU	1		9040C	Total/NA

Client Sample ID: MW-265D-20161003

Lab Sample ID: 480-106923-8

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

Detection Summary

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-106923-1

Client Sample ID: MW-265D-20161003 (Continued)

Lab Sample ID: 480-106923-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	1.2		1.0		ug/L	1		8260C	Total/NA
m-Xylene & p-Xylene	2.5		2.0		ug/L	1		8260C	Total/NA
o-Xylene	1.2		1.0		ug/L	1		8260C	Total/NA
Toluene	1.1		1.0		ug/L	1		8260C	Total/NA

Client Sample ID: DUP1-20161003

Lab Sample ID: 480-106923-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	2.1		1.0		ug/L	1		8260C	Total/NA
1,4-Dioxane	1.7		0.20		ug/L	1		522	Total/NA

Client Sample ID: TRIP BLANKS

Lab Sample ID: 480-106923-10

No Detections.

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

Client Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-106923-1

Client Sample ID: MW-261S-20161003

Lab Sample ID: 480-106923-1

Date Collected: 10/03/16 08:15

Matrix: Water

Date Received: 10/04/16 00:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			10/05/16 13:31	1
1,1,1-Trichloroethane	ND		1.0		ug/L			10/05/16 13:31	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			10/05/16 13:31	1
1,1,2-Trichloroethane	ND		1.0		ug/L			10/05/16 13:31	1
1,1-Dichloroethane	ND		1.0		ug/L			10/05/16 13:31	1
1,1-Dichloroethene	ND		1.0		ug/L			10/05/16 13:31	1
1,1-Dichloropropene	ND		1.0		ug/L			10/05/16 13:31	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			10/05/16 13:31	1
1,2,3-Trichloropropane	ND		1.0		ug/L			10/05/16 13:31	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			10/05/16 13:31	1
1,2,4-Trimethylbenzene	1.7		1.0		ug/L			10/05/16 13:31	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			10/05/16 13:31	1
1,2-Dichlorobenzene	ND		1.0		ug/L			10/05/16 13:31	1
1,2-Dichloroethane	ND		1.0		ug/L			10/05/16 13:31	1
1,2-Dichloropropane	ND		1.0		ug/L			10/05/16 13:31	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			10/05/16 13:31	1
1,3-Dichlorobenzene	ND		1.0		ug/L			10/05/16 13:31	1
1,3-Dichloropropane	ND		1.0		ug/L			10/05/16 13:31	1
1,4-Dichlorobenzene	ND		1.0		ug/L			10/05/16 13:31	1
1,4-Dioxane	ND		50		ug/L			10/05/16 13:31	1
2,2-Dichloropropane	ND		1.0		ug/L			10/05/16 13:31	1
2-Butanone (MEK)	ND		10		ug/L			10/05/16 13:31	1
2-Chlorotoluene	ND		1.0		ug/L			10/05/16 13:31	1
2-Hexanone	ND		10		ug/L			10/05/16 13:31	1
4-Chlorotoluene	ND		1.0		ug/L			10/05/16 13:31	1
4-Isopropyltoluene	ND		1.0		ug/L			10/05/16 13:31	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			10/05/16 13:31	1
Acetone	ND		50		ug/L			10/05/16 13:31	1
Benzene	ND		1.0		ug/L			10/05/16 13:31	1
Bromobenzene	ND		1.0		ug/L			10/05/16 13:31	1
Bromoform	ND		1.0		ug/L			10/05/16 13:31	1
Bromomethane	ND		2.0		ug/L			10/05/16 13:31	1
Carbon disulfide	ND		10		ug/L			10/05/16 13:31	1
Carbon tetrachloride	ND		1.0		ug/L			10/05/16 13:31	1
Chlorobenzene	ND		1.0		ug/L			10/05/16 13:31	1
Chlorobromomethane	ND		1.0		ug/L			10/05/16 13:31	1
Chlorodibromomethane	ND		0.50		ug/L			10/05/16 13:31	1
Chloroethane	ND		2.0		ug/L			10/05/16 13:31	1
Chloroform	ND		1.0		ug/L			10/05/16 13:31	1
Chloromethane	ND		2.0		ug/L			10/05/16 13:31	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			10/05/16 13:31	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			10/05/16 13:31	1
Dichlorobromomethane	ND		0.50		ug/L			10/05/16 13:31	1
Dichlorodifluoromethane	ND		1.0		ug/L			10/05/16 13:31	1
Ethyl ether	ND		1.0		ug/L			10/05/16 13:31	1
Ethylbenzene	4.1		1.0		ug/L			10/05/16 13:31	1
Ethylene Dibromide	ND		1.0		ug/L			10/05/16 13:31	1
Hexachlorobutadiene	ND		0.40		ug/L			10/05/16 13:31	1
Isopropyl ether	ND		10		ug/L			10/05/16 13:31	1

TestAmerica Buffalo

Client Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-106923-1

Client Sample ID: MW-261S-20161003

Lab Sample ID: 480-106923-1

Date Collected: 10/03/16 08:15

Matrix: Water

Date Received: 10/04/16 00:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	ND		1.0		ug/L			10/05/16 13:31	1
Methyl tert-butyl ether	ND		1.0		ug/L			10/05/16 13:31	1
Methylene Chloride	ND		1.0		ug/L			10/05/16 13:31	1
m-Xylene & p-Xylene	14		2.0		ug/L			10/05/16 13:31	1
Naphthalene	ND		5.0		ug/L			10/05/16 13:31	1
n-Butylbenzene	ND		1.0		ug/L			10/05/16 13:31	1
N-Propylbenzene	ND		1.0		ug/L			10/05/16 13:31	1
o-Xylene	3.5		1.0		ug/L			10/05/16 13:31	1
sec-Butylbenzene	ND		1.0		ug/L			10/05/16 13:31	1
Styrene	ND		1.0		ug/L			10/05/16 13:31	1
Tert-amyl methyl ether	ND		5.0		ug/L			10/05/16 13:31	1
Tert-butyl ethyl ether	ND		5.0		ug/L			10/05/16 13:31	1
tert-Butylbenzene	ND		1.0		ug/L			10/05/16 13:31	1
Tetrachloroethene	ND		1.0		ug/L			10/05/16 13:31	1
Tetrahydrofuran	ND		10		ug/L			10/05/16 13:31	1
Toluene	1.9		1.0		ug/L			10/05/16 13:31	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			10/05/16 13:31	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			10/05/16 13:31	1
Trichloroethene	ND		1.0		ug/L			10/05/16 13:31	1
Trichlorofluoromethane	ND		1.0		ug/L			10/05/16 13:31	1
Vinyl chloride	ND		1.0		ug/L			10/05/16 13:31	1
Dibromomethane	ND		1.0		ug/L			10/05/16 13:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>Toluene-d8 (Surr)</i>	91		70 - 130		10/05/16 13:31	1
<i>1,2-Dichloroethane-d4 (Surr)</i>	89		70 - 130		10/05/16 13:31	1
<i>4-Bromofluorobenzene (Surr)</i>	97		70 - 130		10/05/16 13:31	1

Method: 522 - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.7		0.20		ug/L		10/05/16 11:16	10/06/16 14:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>1,4-Dioxane-d8 (Surr)</i>	97		70 - 130	10/05/16 11:16	10/06/16 14:36	1

Method: 6010 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	50		0.050		mg/L		10/04/16 08:55	10/05/16 16:04	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	23		2.5		mg/L			10/05/16 12:02	5
Sulfate	ND		2.0		mg/L			10/07/16 06:46	1
Ammonia	0.48		0.20		mg/L		10/04/16 12:24	10/04/16 13:54	1
Nitrate as N	ND		0.050		mg/L			10/04/16 17:23	1
TOC Result 1	2.0		1.0		mg/L			10/05/16 18:14	1
TOC Result 2	2.2		1.0		mg/L			10/05/16 18:14	1
Total Organic Carbon - Duplicates	2.1		1.0		mg/L			10/05/16 18:14	1
Alkalinity, Total	400		5.0		mg/L			10/05/16 14:52	1
ortho-Phosphate	ND		0.020		mg/L			10/04/16 09:30	1

TestAmerica Buffalo

Client Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-106923-1

Client Sample ID: MW-261S-20161003

Lab Sample ID: 480-106923-1

Date Collected: 10/03/16 08:15

Matrix: Water

Date Received: 10/04/16 00:50

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.8	HF	0.1		SU			10/05/16 14:17	1

Client Sample ID: MW-551-20161003

Lab Sample ID: 480-106923-2

Date Collected: 10/03/16 07:45

Matrix: Water

Date Received: 10/04/16 00:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			10/04/16 23:40	1
1,1,1-Trichloroethane	ND		1.0		ug/L			10/04/16 23:40	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			10/04/16 23:40	1
1,1,2-Trichloroethane	ND		1.0		ug/L			10/04/16 23:40	1
1,1-Dichloroethane	ND		1.0		ug/L			10/04/16 23:40	1
1,1-Dichloroethene	ND		1.0		ug/L			10/04/16 23:40	1
1,1-Dichloropropene	ND		1.0		ug/L			10/04/16 23:40	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			10/04/16 23:40	1
1,2,3-Trichloropropane	ND		1.0		ug/L			10/04/16 23:40	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			10/04/16 23:40	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			10/04/16 23:40	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			10/04/16 23:40	1
1,2-Dichlorobenzene	ND		1.0		ug/L			10/04/16 23:40	1
1,2-Dichloroethane	ND		1.0		ug/L			10/04/16 23:40	1
1,2-Dichloropropane	ND		1.0		ug/L			10/04/16 23:40	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			10/04/16 23:40	1
1,3-Dichlorobenzene	ND		1.0		ug/L			10/04/16 23:40	1
1,3-Dichloropropane	ND		1.0		ug/L			10/04/16 23:40	1
1,4-Dichlorobenzene	ND		1.0		ug/L			10/04/16 23:40	1
1,4-Dioxane	ND		50		ug/L			10/04/16 23:40	1
2,2-Dichloropropane	ND		1.0		ug/L			10/04/16 23:40	1
2-Butanone (MEK)	ND		10		ug/L			10/04/16 23:40	1
2-Chlorotoluene	ND		1.0		ug/L			10/04/16 23:40	1
2-Hexanone	ND		10		ug/L			10/04/16 23:40	1
4-Chlorotoluene	ND		1.0		ug/L			10/04/16 23:40	1
4-Isopropyltoluene	ND		1.0		ug/L			10/04/16 23:40	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			10/04/16 23:40	1
Acetone	ND		50		ug/L			10/04/16 23:40	1
Benzene	ND		1.0		ug/L			10/04/16 23:40	1
Bromobenzene	ND		1.0		ug/L			10/04/16 23:40	1
Bromoform	ND		1.0		ug/L			10/04/16 23:40	1
Bromomethane	ND		2.0		ug/L			10/04/16 23:40	1
Carbon disulfide	ND		10		ug/L			10/04/16 23:40	1
Carbon tetrachloride	ND		1.0		ug/L			10/04/16 23:40	1
Chlorobenzene	ND		1.0		ug/L			10/04/16 23:40	1
Chlorobromomethane	ND		1.0		ug/L			10/04/16 23:40	1
Chlorodibromomethane	ND		0.50		ug/L			10/04/16 23:40	1
Chloroethane	ND		2.0		ug/L			10/04/16 23:40	1
Chloroform	ND		1.0		ug/L			10/04/16 23:40	1
Chloromethane	ND		2.0		ug/L			10/04/16 23:40	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			10/04/16 23:40	1
cis-1,3-Dichloropropane	ND		0.40		ug/L			10/04/16 23:40	1
Dichlorobromomethane	ND		0.50		ug/L			10/04/16 23:40	1

TestAmerica Buffalo

Client Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-106923-1

Client Sample ID: MW-551-20161003

Lab Sample ID: 480-106923-2

Date Collected: 10/03/16 07:45

Matrix: Water

Date Received: 10/04/16 00:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.0		ug/L			10/04/16 23:40	1
Ethyl ether	ND		1.0		ug/L			10/04/16 23:40	1
Ethylbenzene	ND		1.0		ug/L			10/04/16 23:40	1
Ethylene Dibromide	ND		1.0		ug/L			10/04/16 23:40	1
Hexachlorobutadiene	ND		0.40		ug/L			10/04/16 23:40	1
Isopropyl ether	ND		10		ug/L			10/04/16 23:40	1
Isopropylbenzene	ND		1.0		ug/L			10/04/16 23:40	1
Methyl tert-butyl ether	ND		1.0		ug/L			10/04/16 23:40	1
Methylene Chloride	ND		1.0		ug/L			10/04/16 23:40	1
m-Xylene & p-Xylene	ND		2.0		ug/L			10/04/16 23:40	1
Naphthalene	ND		5.0		ug/L			10/04/16 23:40	1
n-Butylbenzene	ND		1.0		ug/L			10/04/16 23:40	1
N-Propylbenzene	ND		1.0		ug/L			10/04/16 23:40	1
o-Xylene	ND		1.0		ug/L			10/04/16 23:40	1
sec-Butylbenzene	ND		1.0		ug/L			10/04/16 23:40	1
Styrene	ND		1.0		ug/L			10/04/16 23:40	1
Tert-amyl methyl ether	ND		5.0		ug/L			10/04/16 23:40	1
Tert-butyl ethyl ether	ND		5.0		ug/L			10/04/16 23:40	1
tert-Butylbenzene	ND		1.0		ug/L			10/04/16 23:40	1
Tetrachloroethene	ND		1.0		ug/L			10/04/16 23:40	1
Tetrahydrofuran	ND		10		ug/L			10/04/16 23:40	1
Toluene	ND		1.0		ug/L			10/04/16 23:40	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			10/04/16 23:40	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			10/04/16 23:40	1
Trichloroethene	ND		1.0		ug/L			10/04/16 23:40	1
Trichlorofluoromethane	ND		1.0		ug/L			10/04/16 23:40	1
Vinyl chloride	ND		1.0		ug/L			10/04/16 23:40	1
Dibromomethane	ND		1.0		ug/L			10/04/16 23:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>Toluene-d8 (Surr)</i>	88		70 - 130					10/04/16 23:40	1
<i>1,2-Dichloroethane-d4 (Surr)</i>	97		70 - 130					10/04/16 23:40	1
<i>4-Bromofluorobenzene (Surr)</i>	93		70 - 130					10/04/16 23:40	1

Client Sample ID: MW-552-20161003

Lab Sample ID: 480-106923-3

Date Collected: 10/03/16 08:55

Matrix: Water

Date Received: 10/04/16 00:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			10/05/16 00:04	1
1,1,1-Trichloroethane	ND		1.0		ug/L			10/05/16 00:04	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			10/05/16 00:04	1
1,1,2-Trichloroethane	ND		1.0		ug/L			10/05/16 00:04	1
1,1-Dichloroethane	ND		1.0		ug/L			10/05/16 00:04	1
1,1-Dichloroethene	ND		1.0		ug/L			10/05/16 00:04	1
1,1-Dichloropropene	ND		1.0		ug/L			10/05/16 00:04	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			10/05/16 00:04	1
1,2,3-Trichloropropane	ND		1.0		ug/L			10/05/16 00:04	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			10/05/16 00:04	1

TestAmerica Buffalo

Client Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-106923-1

Client Sample ID: MW-552-20161003

Lab Sample ID: 480-106923-3

Date Collected: 10/03/16 08:55

Matrix: Water

Date Received: 10/04/16 00:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	ND		1.0		ug/L			10/05/16 00:04	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			10/05/16 00:04	1
1,2-Dichlorobenzene	ND		1.0		ug/L			10/05/16 00:04	1
1,2-Dichloroethane	ND		1.0		ug/L			10/05/16 00:04	1
1,2-Dichloropropane	ND		1.0		ug/L			10/05/16 00:04	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			10/05/16 00:04	1
1,3-Dichlorobenzene	ND		1.0		ug/L			10/05/16 00:04	1
1,3-Dichloropropane	ND		1.0		ug/L			10/05/16 00:04	1
1,4-Dichlorobenzene	ND		1.0		ug/L			10/05/16 00:04	1
1,4-Dioxane	ND		50		ug/L			10/05/16 00:04	1
2,2-Dichloropropane	ND		1.0		ug/L			10/05/16 00:04	1
2-Butanone (MEK)	ND		10		ug/L			10/05/16 00:04	1
2-Chlorotoluene	ND		1.0		ug/L			10/05/16 00:04	1
2-Hexanone	ND		10		ug/L			10/05/16 00:04	1
4-Chlorotoluene	ND		1.0		ug/L			10/05/16 00:04	1
4-Isopropyltoluene	ND		1.0		ug/L			10/05/16 00:04	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			10/05/16 00:04	1
Acetone	ND		50		ug/L			10/05/16 00:04	1
Benzene	ND		1.0		ug/L			10/05/16 00:04	1
Bromobenzene	ND		1.0		ug/L			10/05/16 00:04	1
Bromoform	ND		1.0		ug/L			10/05/16 00:04	1
Bromomethane	ND		2.0		ug/L			10/05/16 00:04	1
Carbon disulfide	ND		10		ug/L			10/05/16 00:04	1
Carbon tetrachloride	ND		1.0		ug/L			10/05/16 00:04	1
Chlorobenzene	ND		1.0		ug/L			10/05/16 00:04	1
Chlorobromomethane	ND		1.0		ug/L			10/05/16 00:04	1
Chlorodibromomethane	ND		0.50		ug/L			10/05/16 00:04	1
Chloroethane	ND		2.0		ug/L			10/05/16 00:04	1
Chloroform	ND		1.0		ug/L			10/05/16 00:04	1
Chloromethane	ND		2.0		ug/L			10/05/16 00:04	1
cis-1,2-Dichloroethene	2.4		1.0		ug/L			10/05/16 00:04	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			10/05/16 00:04	1
Dichlorobromomethane	ND		0.50		ug/L			10/05/16 00:04	1
Dichlorodifluoromethane	ND		1.0		ug/L			10/05/16 00:04	1
Ethyl ether	ND		1.0		ug/L			10/05/16 00:04	1
Ethylbenzene	ND		1.0		ug/L			10/05/16 00:04	1
Ethylene Dibromide	ND		1.0		ug/L			10/05/16 00:04	1
Hexachlorobutadiene	ND		0.40		ug/L			10/05/16 00:04	1
Isopropyl ether	ND		10		ug/L			10/05/16 00:04	1
Isopropylbenzene	ND		1.0		ug/L			10/05/16 00:04	1
Methyl tert-butyl ether	ND		1.0		ug/L			10/05/16 00:04	1
Methylene Chloride	ND		1.0		ug/L			10/05/16 00:04	1
m-Xylene & p-Xylene	ND		2.0		ug/L			10/05/16 00:04	1
Naphthalene	ND		5.0		ug/L			10/05/16 00:04	1
n-Butylbenzene	ND		1.0		ug/L			10/05/16 00:04	1
N-Propylbenzene	ND		1.0		ug/L			10/05/16 00:04	1
o-Xylene	ND		1.0		ug/L			10/05/16 00:04	1
sec-Butylbenzene	ND		1.0		ug/L			10/05/16 00:04	1
Styrene	ND		1.0		ug/L			10/05/16 00:04	1

TestAmerica Buffalo

Client Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-106923-1

Client Sample ID: MW-552-20161003

Lab Sample ID: 480-106923-3

Date Collected: 10/03/16 08:55

Matrix: Water

Date Received: 10/04/16 00:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tert-amyl methyl ether	ND		5.0		ug/L			10/05/16 00:04	1
Tert-butyl ethyl ether	ND		5.0		ug/L			10/05/16 00:04	1
tert-Butylbenzene	ND		1.0		ug/L			10/05/16 00:04	1
Tetrachloroethene	ND		1.0		ug/L			10/05/16 00:04	1
Tetrahydrofuran	ND		10		ug/L			10/05/16 00:04	1
Toluene	ND		1.0		ug/L			10/05/16 00:04	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			10/05/16 00:04	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			10/05/16 00:04	1
Trichloroethene	ND		1.0		ug/L			10/05/16 00:04	1
Trichlorofluoromethane	ND		1.0		ug/L			10/05/16 00:04	1
Vinyl chloride	ND		1.0		ug/L			10/05/16 00:04	1
Dibromomethane	ND		1.0		ug/L			10/05/16 00:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	91		70 - 130					10/05/16 00:04	1
1,2-Dichloroethane-d4 (Surr)	92		70 - 130					10/05/16 00:04	1
4-Bromofluorobenzene (Surr)	95		70 - 130					10/05/16 00:04	1

Method: 522 - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	1.7		0.20		ug/L		10/05/16 11:16	10/06/16 14:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	91		70 - 130				10/05/16 11:16	10/06/16 14:55	1

Method: 6010 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	33		0.050		mg/L		10/04/16 08:55	10/05/16 16:18	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	13		2.5		mg/L			10/05/16 12:10	5
Sulfate	ND		2.0		mg/L			10/07/16 06:54	1
Ammonia	0.47		0.20		mg/L		10/04/16 12:24	10/04/16 13:54	1
Nitrate as N	ND		0.050		mg/L			10/04/16 17:26	1
TOC Result 1	1.4		1.0		mg/L			10/05/16 18:43	1
TOC Result 2	1.6		1.0		mg/L			10/05/16 18:43	1
Total Organic Carbon - Duplicates	1.5		1.0		mg/L			10/05/16 18:43	1
Alkalinity, Total	480		5.0		mg/L			10/05/16 15:00	1
ortho-Phosphate	0.026		0.020		mg/L			10/04/16 09:30	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.9	HF	0.1		SU			10/05/16 14:20	1

Client Sample ID: MW-553-20161003

Lab Sample ID: 480-106923-4

Date Collected: 10/03/16 09:50

Matrix: Water

Date Received: 10/04/16 00:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			10/05/16 00:28	1
1,1,1-Trichloroethane	ND		1.0		ug/L			10/05/16 00:28	1

TestAmerica Buffalo

Client Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-106923-1

Client Sample ID: MW-553-20161003

Lab Sample ID: 480-106923-4

Date Collected: 10/03/16 09:50

Matrix: Water

Date Received: 10/04/16 00:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			10/05/16 00:28	1
1,1,2-Trichloroethane	ND		1.0		ug/L			10/05/16 00:28	1
1,1-Dichloroethane	ND		1.0		ug/L			10/05/16 00:28	1
1,1-Dichloroethene	ND		1.0		ug/L			10/05/16 00:28	1
1,1-Dichloropropene	ND		1.0		ug/L			10/05/16 00:28	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			10/05/16 00:28	1
1,2,3-Trichloropropane	ND		1.0		ug/L			10/05/16 00:28	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			10/05/16 00:28	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			10/05/16 00:28	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			10/05/16 00:28	1
1,2-Dichlorobenzene	ND		1.0		ug/L			10/05/16 00:28	1
1,2-Dichloroethane	ND		1.0		ug/L			10/05/16 00:28	1
1,2-Dichloropropane	ND		1.0		ug/L			10/05/16 00:28	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			10/05/16 00:28	1
1,3-Dichlorobenzene	ND		1.0		ug/L			10/05/16 00:28	1
1,3-Dichloropropane	ND		1.0		ug/L			10/05/16 00:28	1
1,4-Dichlorobenzene	ND		1.0		ug/L			10/05/16 00:28	1
1,4-Dioxane	ND		50		ug/L			10/05/16 00:28	1
2,2-Dichloropropane	ND		1.0		ug/L			10/05/16 00:28	1
2-Butanone (MEK)	ND		10		ug/L			10/05/16 00:28	1
2-Chlorotoluene	ND		1.0		ug/L			10/05/16 00:28	1
2-Hexanone	ND		10		ug/L			10/05/16 00:28	1
4-Chlorotoluene	ND		1.0		ug/L			10/05/16 00:28	1
4-Isopropyltoluene	ND		1.0		ug/L			10/05/16 00:28	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			10/05/16 00:28	1
Acetone	ND		50		ug/L			10/05/16 00:28	1
Benzene	ND		1.0		ug/L			10/05/16 00:28	1
Bromobenzene	ND		1.0		ug/L			10/05/16 00:28	1
Bromoform	ND		1.0		ug/L			10/05/16 00:28	1
Bromomethane	ND		2.0		ug/L			10/05/16 00:28	1
Carbon disulfide	ND		10		ug/L			10/05/16 00:28	1
Carbon tetrachloride	ND		1.0		ug/L			10/05/16 00:28	1
Chlorobenzene	ND		1.0		ug/L			10/05/16 00:28	1
Chlorobromomethane	ND		1.0		ug/L			10/05/16 00:28	1
Chlorodibromomethane	ND		0.50		ug/L			10/05/16 00:28	1
Chloroethane	ND		2.0		ug/L			10/05/16 00:28	1
Chloroform	ND		1.0		ug/L			10/05/16 00:28	1
Chloromethane	ND		2.0		ug/L			10/05/16 00:28	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			10/05/16 00:28	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			10/05/16 00:28	1
Dichlorobromomethane	ND		0.50		ug/L			10/05/16 00:28	1
Dichlorodifluoromethane	ND		1.0		ug/L			10/05/16 00:28	1
Ethyl ether	ND		1.0		ug/L			10/05/16 00:28	1
Ethylbenzene	6.3		1.0		ug/L			10/05/16 00:28	1
Ethylene Dibromide	ND		1.0		ug/L			10/05/16 00:28	1
Hexachlorobutadiene	ND		0.40		ug/L			10/05/16 00:28	1
Isopropyl ether	ND		10		ug/L			10/05/16 00:28	1
Isopropylbenzene	ND		1.0		ug/L			10/05/16 00:28	1
Methyl tert-butyl ether	ND		1.0		ug/L			10/05/16 00:28	1

TestAmerica Buffalo

Client Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-106923-1

Client Sample ID: MW-553-20161003

Lab Sample ID: 480-106923-4

Date Collected: 10/03/16 09:50

Matrix: Water

Date Received: 10/04/16 00:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		1.0		ug/L			10/05/16 00:28	1
m-Xylene & p-Xylene	23		2.0		ug/L			10/05/16 00:28	1
Naphthalene	ND		5.0		ug/L			10/05/16 00:28	1
n-Butylbenzene	ND		1.0		ug/L			10/05/16 00:28	1
N-Propylbenzene	ND		1.0		ug/L			10/05/16 00:28	1
o-Xylene	5.7		1.0		ug/L			10/05/16 00:28	1
sec-Butylbenzene	ND		1.0		ug/L			10/05/16 00:28	1
Styrene	ND		1.0		ug/L			10/05/16 00:28	1
Tert-amyl methyl ether	ND		5.0		ug/L			10/05/16 00:28	1
Tert-butyl ethyl ether	ND		5.0		ug/L			10/05/16 00:28	1
tert-Butylbenzene	ND		1.0		ug/L			10/05/16 00:28	1
Tetrachloroethene	ND		1.0		ug/L			10/05/16 00:28	1
Tetrahydrofuran	ND		10		ug/L			10/05/16 00:28	1
Toluene	5.6		1.0		ug/L			10/05/16 00:28	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			10/05/16 00:28	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			10/05/16 00:28	1
Trichloroethene	ND		1.0		ug/L			10/05/16 00:28	1
Trichlorofluoromethane	ND		1.0		ug/L			10/05/16 00:28	1
Vinyl chloride	2.6		1.0		ug/L			10/05/16 00:28	1
Dibromomethane	ND		1.0		ug/L			10/05/16 00:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>Toluene-d8 (Surr)</i>	91		70 - 130		10/05/16 00:28	1
<i>1,2-Dichloroethane-d4 (Surr)</i>	93		70 - 130		10/05/16 00:28	1
<i>4-Bromofluorobenzene (Surr)</i>	97		70 - 130		10/05/16 00:28	1

Method: 6010 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	33		0.050		mg/L		10/04/16 08:55	10/05/16 16:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	13		5.0		mg/L			10/05/16 12:18	10
Sulfate	ND		2.0		mg/L			10/07/16 07:02	1
Ammonia	0.42		0.20		mg/L		10/04/16 12:24	10/04/16 13:55	1
Nitrate as N	ND		0.050		mg/L			10/04/16 17:27	1
TOC Result 1	2.1		1.0		mg/L			10/05/16 19:39	1
TOC Result 2	2.7		1.0		mg/L			10/05/16 19:39	1
Total Organic Carbon - Duplicates	2.4		1.0		mg/L			10/05/16 19:39	1
Alkalinity, Total	650		5.0		mg/L			10/05/16 15:09	1
ortho-Phosphate	0.043		0.020		mg/L			10/04/16 09:30	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.0	HF	0.1		SU			10/05/16 14:22	1

TestAmerica Buffalo

Client Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-106923-1

Client Sample ID: MW-562-20161003

Lab Sample ID: 480-106923-5

Date Collected: 10/03/16 10:45

Matrix: Water

Date Received: 10/04/16 00:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		4.0		ug/L			10/05/16 00:51	4
1,1,1-Trichloroethane	ND		4.0		ug/L			10/05/16 00:51	4
1,1,2,2-Tetrachloroethane	ND		2.0		ug/L			10/05/16 00:51	4
1,1,2-Trichloroethane	ND		4.0		ug/L			10/05/16 00:51	4
1,1-Dichloroethane	ND		4.0		ug/L			10/05/16 00:51	4
1,1-Dichloroethene	ND		4.0		ug/L			10/05/16 00:51	4
1,1-Dichloropropene	ND		4.0		ug/L			10/05/16 00:51	4
1,2,3-Trichlorobenzene	ND		4.0		ug/L			10/05/16 00:51	4
1,2,3-Trichloropropane	ND		4.0		ug/L			10/05/16 00:51	4
1,2,4-Trichlorobenzene	ND		4.0		ug/L			10/05/16 00:51	4
1,2,4-Trimethylbenzene	ND		4.0		ug/L			10/05/16 00:51	4
1,2-Dibromo-3-Chloropropane	ND		20		ug/L			10/05/16 00:51	4
1,2-Dichlorobenzene	ND		4.0		ug/L			10/05/16 00:51	4
1,2-Dichloroethane	ND		4.0		ug/L			10/05/16 00:51	4
1,2-Dichloropropane	ND		4.0		ug/L			10/05/16 00:51	4
1,3,5-Trimethylbenzene	ND		4.0		ug/L			10/05/16 00:51	4
1,3-Dichlorobenzene	ND		4.0		ug/L			10/05/16 00:51	4
1,3-Dichloropropane	ND		4.0		ug/L			10/05/16 00:51	4
1,4-Dichlorobenzene	ND		4.0		ug/L			10/05/16 00:51	4
1,4-Dioxane	ND		200		ug/L			10/05/16 00:51	4
2,2-Dichloropropane	ND		4.0		ug/L			10/05/16 00:51	4
2-Butanone (MEK)	140		40		ug/L			10/05/16 00:51	4
2-Chlorotoluene	ND		4.0		ug/L			10/05/16 00:51	4
2-Hexanone	ND		40		ug/L			10/05/16 00:51	4
4-Chlorotoluene	ND		4.0		ug/L			10/05/16 00:51	4
4-Isopropyltoluene	ND		4.0		ug/L			10/05/16 00:51	4
4-Methyl-2-pentanone (MIBK)	ND		40		ug/L			10/05/16 00:51	4
Acetone	ND		200		ug/L			10/05/16 00:51	4
Benzene	ND		4.0		ug/L			10/05/16 00:51	4
Bromobenzene	ND		4.0		ug/L			10/05/16 00:51	4
Bromoform	ND		4.0		ug/L			10/05/16 00:51	4
Bromomethane	ND		8.0		ug/L			10/05/16 00:51	4
Carbon disulfide	ND		40		ug/L			10/05/16 00:51	4
Carbon tetrachloride	ND		4.0		ug/L			10/05/16 00:51	4
Chlorobenzene	ND		4.0		ug/L			10/05/16 00:51	4
Chlorobromomethane	ND		4.0		ug/L			10/05/16 00:51	4
Chlorodibromomethane	ND		2.0		ug/L			10/05/16 00:51	4
Chloroethane	ND		8.0		ug/L			10/05/16 00:51	4
Chloroform	ND		4.0		ug/L			10/05/16 00:51	4
Chloromethane	ND		8.0		ug/L			10/05/16 00:51	4
cis-1,2-Dichloroethene	ND		4.0		ug/L			10/05/16 00:51	4
cis-1,3-Dichloropropene	ND		1.6		ug/L			10/05/16 00:51	4
Dichlorobromomethane	ND		2.0		ug/L			10/05/16 00:51	4
Dichlorodifluoromethane	ND		4.0		ug/L			10/05/16 00:51	4
Ethyl ether	ND		4.0		ug/L			10/05/16 00:51	4
Ethylbenzene	ND		4.0		ug/L			10/05/16 00:51	4
Ethylene Dibromide	ND		4.0		ug/L			10/05/16 00:51	4
Hexachlorobutadiene	ND		1.6		ug/L			10/05/16 00:51	4
Isopropyl ether	ND		40		ug/L			10/05/16 00:51	4

TestAmerica Buffalo

Client Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-106923-1

Client Sample ID: MW-562-20161003

Lab Sample ID: 480-106923-5

Date Collected: 10/03/16 10:45

Matrix: Water

Date Received: 10/04/16 00:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	ND		4.0		ug/L			10/05/16 00:51	4
Methyl tert-butyl ether	ND		4.0		ug/L			10/05/16 00:51	4
Methylene Chloride	ND		4.0		ug/L			10/05/16 00:51	4
m-Xylene & p-Xylene	ND		8.0		ug/L			10/05/16 00:51	4
Naphthalene	ND		20		ug/L			10/05/16 00:51	4
n-Butylbenzene	ND		4.0		ug/L			10/05/16 00:51	4
N-Propylbenzene	ND		4.0		ug/L			10/05/16 00:51	4
o-Xylene	ND		4.0		ug/L			10/05/16 00:51	4
sec-Butylbenzene	ND		4.0		ug/L			10/05/16 00:51	4
Styrene	ND		4.0		ug/L			10/05/16 00:51	4
Tert-amyl methyl ether	ND		20		ug/L			10/05/16 00:51	4
Tert-butyl ethyl ether	ND		20		ug/L			10/05/16 00:51	4
tert-Butylbenzene	ND		4.0		ug/L			10/05/16 00:51	4
Tetrachloroethene	ND		4.0		ug/L			10/05/16 00:51	4
Tetrahydrofuran	ND		40		ug/L			10/05/16 00:51	4
Toluene	6.0		4.0		ug/L			10/05/16 00:51	4
trans-1,2-Dichloroethene	ND		4.0		ug/L			10/05/16 00:51	4
trans-1,3-Dichloropropene	ND		1.6		ug/L			10/05/16 00:51	4
Trichloroethene	ND		4.0		ug/L			10/05/16 00:51	4
Trichlorofluoromethane	ND		4.0		ug/L			10/05/16 00:51	4
Vinyl chloride	ND		4.0		ug/L			10/05/16 00:51	4
Dibromomethane	ND		4.0		ug/L			10/05/16 00:51	4

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	91		70 - 130		10/05/16 00:51	4
1,2-Dichloroethane-d4 (Surr)	96		70 - 130		10/05/16 00:51	4
4-Bromofluorobenzene (Surr)	94		70 - 130		10/05/16 00:51	4

Method: 6010 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	240		0.050		mg/L		10/04/16 08:55	10/05/16 16:25	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	31		5.0		mg/L			10/05/16 12:26	10
Sulfate	ND		2.0		mg/L			10/07/16 07:10	1
Ammonia	1.1		0.20		mg/L		10/04/16 12:24	10/04/16 13:56	1
Nitrate as N	ND		0.050		mg/L			10/04/16 17:31	1
TOC Result 1	560		20		mg/L			10/07/16 18:50	20
TOC Result 2	590		20		mg/L			10/07/16 18:50	20
Total Organic Carbon - Duplicates	580		20		mg/L			10/07/16 18:50	20
Alkalinity, Total	510		5.0		mg/L			10/05/16 15:18	1
ortho-Phosphate	1.4		0.10		mg/L			10/04/16 09:30	5
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.1	HF	0.1		SU			10/05/16 14:25	1

TestAmerica Buffalo

Client Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-106923-1

Client Sample ID: MW-265S-20161003

Lab Sample ID: 480-106923-6

Date Collected: 10/03/16 11:35

Matrix: Water

Date Received: 10/04/16 00:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			10/05/16 01:15	1
1,1,1-Trichloroethane	ND		1.0		ug/L			10/05/16 01:15	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			10/05/16 01:15	1
1,1,2-Trichloroethane	ND		1.0		ug/L			10/05/16 01:15	1
1,1-Dichloroethane	ND		1.0		ug/L			10/05/16 01:15	1
1,1-Dichloroethene	ND		1.0		ug/L			10/05/16 01:15	1
1,1-Dichloropropene	ND		1.0		ug/L			10/05/16 01:15	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			10/05/16 01:15	1
1,2,3-Trichloropropane	ND		1.0		ug/L			10/05/16 01:15	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			10/05/16 01:15	1
1,2,4-Trimethylbenzene	1.5		1.0		ug/L			10/05/16 01:15	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			10/05/16 01:15	1
1,2-Dichlorobenzene	ND		1.0		ug/L			10/05/16 01:15	1
1,2-Dichloroethane	ND		1.0		ug/L			10/05/16 01:15	1
1,2-Dichloropropane	ND		1.0		ug/L			10/05/16 01:15	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			10/05/16 01:15	1
1,3-Dichlorobenzene	ND		1.0		ug/L			10/05/16 01:15	1
1,3-Dichloropropane	ND		1.0		ug/L			10/05/16 01:15	1
1,4-Dichlorobenzene	ND		1.0		ug/L			10/05/16 01:15	1
1,4-Dioxane	ND		50		ug/L			10/05/16 01:15	1
2,2-Dichloropropane	ND		1.0		ug/L			10/05/16 01:15	1
2-Butanone (MEK)	ND		10		ug/L			10/05/16 01:15	1
2-Chlorotoluene	ND		1.0		ug/L			10/05/16 01:15	1
2-Hexanone	ND		10		ug/L			10/05/16 01:15	1
4-Chlorotoluene	ND		1.0		ug/L			10/05/16 01:15	1
4-Isopropyltoluene	ND		1.0		ug/L			10/05/16 01:15	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			10/05/16 01:15	1
Acetone	ND		50		ug/L			10/05/16 01:15	1
Benzene	ND		1.0		ug/L			10/05/16 01:15	1
Bromobenzene	ND		1.0		ug/L			10/05/16 01:15	1
Bromoform	ND		1.0		ug/L			10/05/16 01:15	1
Bromomethane	ND		2.0		ug/L			10/05/16 01:15	1
Carbon disulfide	ND		10		ug/L			10/05/16 01:15	1
Carbon tetrachloride	ND		1.0		ug/L			10/05/16 01:15	1
Chlorobenzene	ND		1.0		ug/L			10/05/16 01:15	1
Chlorobromomethane	ND		1.0		ug/L			10/05/16 01:15	1
Chlorodibromomethane	ND		0.50		ug/L			10/05/16 01:15	1
Chloroethane	ND		2.0		ug/L			10/05/16 01:15	1
Chloroform	ND		1.0		ug/L			10/05/16 01:15	1
Chloromethane	ND		2.0		ug/L			10/05/16 01:15	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			10/05/16 01:15	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			10/05/16 01:15	1
Dichlorobromomethane	ND		0.50		ug/L			10/05/16 01:15	1
Dichlorodifluoromethane	ND		1.0		ug/L			10/05/16 01:15	1
Ethyl ether	ND		1.0		ug/L			10/05/16 01:15	1
Ethylbenzene	ND		1.0		ug/L			10/05/16 01:15	1
Ethylene Dibromide	ND		1.0		ug/L			10/05/16 01:15	1
Hexachlorobutadiene	ND		0.40		ug/L			10/05/16 01:15	1
Isopropyl ether	ND		10		ug/L			10/05/16 01:15	1

TestAmerica Buffalo

Client Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-106923-1

Client Sample ID: MW-265S-20161003

Lab Sample ID: 480-106923-6

Date Collected: 10/03/16 11:35

Matrix: Water

Date Received: 10/04/16 00:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	ND		1.0		ug/L			10/05/16 01:15	1
Methyl tert-butyl ether	ND		1.0		ug/L			10/05/16 01:15	1
Methylene Chloride	ND		1.0		ug/L			10/05/16 01:15	1
m-Xylene & p-Xylene	2.6		2.0		ug/L			10/05/16 01:15	1
Naphthalene	ND		5.0		ug/L			10/05/16 01:15	1
n-Butylbenzene	ND		1.0		ug/L			10/05/16 01:15	1
N-Propylbenzene	ND		1.0		ug/L			10/05/16 01:15	1
o-Xylene	1.3		1.0		ug/L			10/05/16 01:15	1
sec-Butylbenzene	ND		1.0		ug/L			10/05/16 01:15	1
Styrene	ND		1.0		ug/L			10/05/16 01:15	1
Tert-amyl methyl ether	ND		5.0		ug/L			10/05/16 01:15	1
Tert-butyl ethyl ether	ND		5.0		ug/L			10/05/16 01:15	1
tert-Butylbenzene	ND		1.0		ug/L			10/05/16 01:15	1
Tetrachloroethene	ND		1.0		ug/L			10/05/16 01:15	1
Tetrahydrofuran	ND		10		ug/L			10/05/16 01:15	1
Toluene	1.1		1.0		ug/L			10/05/16 01:15	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			10/05/16 01:15	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			10/05/16 01:15	1
Trichloroethene	ND		1.0		ug/L			10/05/16 01:15	1
Trichlorofluoromethane	ND		1.0		ug/L			10/05/16 01:15	1
Vinyl chloride	ND		1.0		ug/L			10/05/16 01:15	1
Dibromomethane	ND		1.0		ug/L			10/05/16 01:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>Toluene-d8 (Surr)</i>	91		70 - 130		10/05/16 01:15	1
<i>1,2-Dichloroethane-d4 (Surr)</i>	93		70 - 130		10/05/16 01:15	1
<i>4-Bromofluorobenzene (Surr)</i>	94		70 - 130		10/05/16 01:15	1

Client Sample ID: MW-265M-20161003

Lab Sample ID: 480-106923-7

Date Collected: 10/03/16 12:05

Matrix: Water

Date Received: 10/04/16 00:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.0		ug/L			10/05/16 01:39	5
1,1,1-Trichloroethane	ND		5.0		ug/L			10/05/16 01:39	5
1,1,2,2-Tetrachloroethane	ND		2.5		ug/L			10/05/16 01:39	5
1,1,2-Trichloroethane	ND		5.0		ug/L			10/05/16 01:39	5
1,1-Dichloroethane	ND		5.0		ug/L			10/05/16 01:39	5
1,1-Dichloroethene	ND		5.0		ug/L			10/05/16 01:39	5
1,1-Dichloropropene	ND		5.0		ug/L			10/05/16 01:39	5
1,2,3-Trichlorobenzene	ND		5.0		ug/L			10/05/16 01:39	5
1,2,3-Trichloropropane	ND		5.0		ug/L			10/05/16 01:39	5
1,2,4-Trichlorobenzene	ND		5.0		ug/L			10/05/16 01:39	5
1,2,4-Trimethylbenzene	ND		5.0		ug/L			10/05/16 01:39	5
1,2-Dibromo-3-Chloropropane	ND		25		ug/L			10/05/16 01:39	5
1,2-Dichlorobenzene	ND		5.0		ug/L			10/05/16 01:39	5
1,2-Dichloroethane	ND		5.0		ug/L			10/05/16 01:39	5
1,2-Dichloropropane	ND		5.0		ug/L			10/05/16 01:39	5
1,3,5-Trimethylbenzene	ND		5.0		ug/L			10/05/16 01:39	5

TestAmerica Buffalo

Client Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-106923-1

Client Sample ID: MW-265M-20161003

Lab Sample ID: 480-106923-7

Date Collected: 10/03/16 12:05

Matrix: Water

Date Received: 10/04/16 00:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	ND		5.0		ug/L			10/05/16 01:39	5
1,3-Dichloropropane	ND		5.0		ug/L			10/05/16 01:39	5
1,4-Dichlorobenzene	ND		5.0		ug/L			10/05/16 01:39	5
1,4-Dioxane	ND		250		ug/L			10/05/16 01:39	5
2,2-Dichloropropane	ND		5.0		ug/L			10/05/16 01:39	5
2-Butanone (MEK)	140		50		ug/L			10/05/16 01:39	5
2-Chlorotoluene	ND		5.0		ug/L			10/05/16 01:39	5
2-Hexanone	ND		50		ug/L			10/05/16 01:39	5
4-Chlorotoluene	ND		5.0		ug/L			10/05/16 01:39	5
4-Isopropyltoluene	ND		5.0		ug/L			10/05/16 01:39	5
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			10/05/16 01:39	5
Acetone	460		250		ug/L			10/05/16 01:39	5
Benzene	ND		5.0		ug/L			10/05/16 01:39	5
Bromobenzene	ND		5.0		ug/L			10/05/16 01:39	5
Bromoform	ND		5.0		ug/L			10/05/16 01:39	5
Bromomethane	ND		10		ug/L			10/05/16 01:39	5
Carbon disulfide	ND		50		ug/L			10/05/16 01:39	5
Carbon tetrachloride	ND		5.0		ug/L			10/05/16 01:39	5
Chlorobenzene	ND		5.0		ug/L			10/05/16 01:39	5
Chlorobromomethane	ND		5.0		ug/L			10/05/16 01:39	5
Chlorodibromomethane	ND		2.5		ug/L			10/05/16 01:39	5
Chloroethane	ND		10		ug/L			10/05/16 01:39	5
Chloroform	ND		5.0		ug/L			10/05/16 01:39	5
Chloromethane	ND		10		ug/L			10/05/16 01:39	5
cis-1,2-Dichloroethene	ND		5.0		ug/L			10/05/16 01:39	5
cis-1,3-Dichloropropene	ND		2.0		ug/L			10/05/16 01:39	5
Dichlorobromomethane	ND		2.5		ug/L			10/05/16 01:39	5
Dichlorodifluoromethane	ND		5.0		ug/L			10/05/16 01:39	5
Ethyl ether	ND		5.0		ug/L			10/05/16 01:39	5
Ethylbenzene	ND		5.0		ug/L			10/05/16 01:39	5
Ethylene Dibromide	ND		5.0		ug/L			10/05/16 01:39	5
Hexachlorobutadiene	ND		2.0		ug/L			10/05/16 01:39	5
Isopropyl ether	ND		50		ug/L			10/05/16 01:39	5
Isopropylbenzene	ND		5.0		ug/L			10/05/16 01:39	5
Methyl tert-butyl ether	ND		5.0		ug/L			10/05/16 01:39	5
Methylene Chloride	ND		5.0		ug/L			10/05/16 01:39	5
m-Xylene & p-Xylene	14		10		ug/L			10/05/16 01:39	5
Naphthalene	ND		25		ug/L			10/05/16 01:39	5
n-Butylbenzene	ND		5.0		ug/L			10/05/16 01:39	5
N-Propylbenzene	ND		5.0		ug/L			10/05/16 01:39	5
o-Xylene	5.4		5.0		ug/L			10/05/16 01:39	5
sec-Butylbenzene	ND		5.0		ug/L			10/05/16 01:39	5
Styrene	ND		5.0		ug/L			10/05/16 01:39	5
Tert-amyl methyl ether	ND		25		ug/L			10/05/16 01:39	5
Tert-butyl ethyl ether	ND		25		ug/L			10/05/16 01:39	5
tert-Butylbenzene	ND		5.0		ug/L			10/05/16 01:39	5
Tetrachloroethene	ND		5.0		ug/L			10/05/16 01:39	5
Tetrahydrofuran	ND		50		ug/L			10/05/16 01:39	5
Toluene	9.3		5.0		ug/L			10/05/16 01:39	5

TestAmerica Buffalo

Client Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-106923-1

Client Sample ID: MW-265M-20161003

Lab Sample ID: 480-106923-7

Date Collected: 10/03/16 12:05

Matrix: Water

Date Received: 10/04/16 00:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	ND		5.0		ug/L			10/05/16 01:39	5
trans-1,3-Dichloropropene	ND		2.0		ug/L			10/05/16 01:39	5
Trichloroethene	ND		5.0		ug/L			10/05/16 01:39	5
Trichlorofluoromethane	ND		5.0		ug/L			10/05/16 01:39	5
Vinyl chloride	ND		5.0		ug/L			10/05/16 01:39	5
Dibromomethane	ND		5.0		ug/L			10/05/16 01:39	5

Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	92		70 - 130					10/05/16 01:39	5
1,2-Dichloroethane-d4 (Surr)	98		70 - 130					10/05/16 01:39	5
4-Bromofluorobenzene (Surr)	99		70 - 130					10/05/16 01:39	5

Method: 522 - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20		ug/L		10/05/16 11:16	10/06/16 15:14	1

Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	10	X	70 - 130				10/05/16 11:16	10/06/16 15:14	1

Method: 6010 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	460		0.050		mg/L		10/04/16 08:55	10/05/16 16:33	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	41		10		mg/L			10/05/16 12:34	20
Sulfate	ND		2.0		mg/L			10/07/16 07:18	1
Ammonia	0.50		0.20		mg/L		10/04/16 12:24	10/04/16 13:57	1
Nitrate as N	ND		0.050		mg/L			10/04/16 17:33	1
TOC Result 1	1300		20		mg/L			10/07/16 19:17	20
TOC Result 2	1400		20		mg/L			10/07/16 19:17	20
Total Organic Carbon - Duplicates	1400		20		mg/L			10/07/16 19:17	20
Alkalinity, Total	730		5.0		mg/L			10/05/16 15:54	1
ortho-Phosphate	0.19		0.020		mg/L			10/04/16 09:30	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH	5.1	HF	0.1		SU			10/05/16 14:27	1

Client Sample ID: MW-265D-20161003

Lab Sample ID: 480-106923-8

Date Collected: 10/03/16 12:45

Matrix: Water

Date Received: 10/04/16 00:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			10/05/16 02:03	1
1,1,1-Trichloroethane	ND		1.0		ug/L			10/05/16 02:03	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			10/05/16 02:03	1
1,1,2-Trichloroethane	ND		1.0		ug/L			10/05/16 02:03	1
1,1-Dichloroethane	ND		1.0		ug/L			10/05/16 02:03	1
1,1-Dichloroethene	ND		1.0		ug/L			10/05/16 02:03	1
1,1-Dichloropropene	ND		1.0		ug/L			10/05/16 02:03	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			10/05/16 02:03	1

TestAmerica Buffalo

Client Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-106923-1

Client Sample ID: MW-265D-20161003

Lab Sample ID: 480-106923-8

Date Collected: 10/03/16 12:45

Matrix: Water

Date Received: 10/04/16 00:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		1.0		ug/L			10/05/16 02:03	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			10/05/16 02:03	1
1,2,4-Trimethylbenzene	1.2		1.0		ug/L			10/05/16 02:03	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			10/05/16 02:03	1
1,2-Dichlorobenzene	ND		1.0		ug/L			10/05/16 02:03	1
1,2-Dichloroethane	ND		1.0		ug/L			10/05/16 02:03	1
1,2-Dichloropropane	ND		1.0		ug/L			10/05/16 02:03	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			10/05/16 02:03	1
1,3-Dichlorobenzene	ND		1.0		ug/L			10/05/16 02:03	1
1,3-Dichloropropane	ND		1.0		ug/L			10/05/16 02:03	1
1,4-Dichlorobenzene	ND		1.0		ug/L			10/05/16 02:03	1
1,4-Dioxane	ND		50		ug/L			10/05/16 02:03	1
2,2-Dichloropropane	ND		1.0		ug/L			10/05/16 02:03	1
2-Butanone (MEK)	ND		10		ug/L			10/05/16 02:03	1
2-Chlorotoluene	ND		1.0		ug/L			10/05/16 02:03	1
2-Hexanone	ND		10		ug/L			10/05/16 02:03	1
4-Chlorotoluene	ND		1.0		ug/L			10/05/16 02:03	1
4-Isopropyltoluene	ND		1.0		ug/L			10/05/16 02:03	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			10/05/16 02:03	1
Acetone	ND		50		ug/L			10/05/16 02:03	1
Benzene	ND		1.0		ug/L			10/05/16 02:03	1
Bromobenzene	ND		1.0		ug/L			10/05/16 02:03	1
Bromoform	ND		1.0		ug/L			10/05/16 02:03	1
Bromomethane	ND		2.0		ug/L			10/05/16 02:03	1
Carbon disulfide	ND		10		ug/L			10/05/16 02:03	1
Carbon tetrachloride	ND		1.0		ug/L			10/05/16 02:03	1
Chlorobenzene	ND		1.0		ug/L			10/05/16 02:03	1
Chlorobromomethane	ND		1.0		ug/L			10/05/16 02:03	1
Chlorodibromomethane	ND		0.50		ug/L			10/05/16 02:03	1
Chloroethane	ND		2.0		ug/L			10/05/16 02:03	1
Chloroform	ND		1.0		ug/L			10/05/16 02:03	1
Chloromethane	ND		2.0		ug/L			10/05/16 02:03	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			10/05/16 02:03	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			10/05/16 02:03	1
Dichlorobromomethane	ND		0.50		ug/L			10/05/16 02:03	1
Dichlorodifluoromethane	ND		1.0		ug/L			10/05/16 02:03	1
Ethyl ether	ND		1.0		ug/L			10/05/16 02:03	1
Ethylbenzene	ND		1.0		ug/L			10/05/16 02:03	1
Ethylene Dibromide	ND		1.0		ug/L			10/05/16 02:03	1
Hexachlorobutadiene	ND		0.40		ug/L			10/05/16 02:03	1
Isopropyl ether	ND		10		ug/L			10/05/16 02:03	1
Isopropylbenzene	ND		1.0		ug/L			10/05/16 02:03	1
Methyl tert-butyl ether	ND		1.0		ug/L			10/05/16 02:03	1
Methylene Chloride	ND		1.0		ug/L			10/05/16 02:03	1
m-Xylene & p-Xylene	2.5		2.0		ug/L			10/05/16 02:03	1
Naphthalene	ND		5.0		ug/L			10/05/16 02:03	1
n-Butylbenzene	ND		1.0		ug/L			10/05/16 02:03	1
N-Propylbenzene	ND		1.0		ug/L			10/05/16 02:03	1
o-Xylene	1.2		1.0		ug/L			10/05/16 02:03	1

TestAmerica Buffalo

Client Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-106923-1

Client Sample ID: MW-265D-20161003

Lab Sample ID: 480-106923-8

Date Collected: 10/03/16 12:45

Matrix: Water

Date Received: 10/04/16 00:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		1.0		ug/L			10/05/16 02:03	1
Styrene	ND		1.0		ug/L			10/05/16 02:03	1
Tert-amyl methyl ether	ND		5.0		ug/L			10/05/16 02:03	1
Tert-butyl ethyl ether	ND		5.0		ug/L			10/05/16 02:03	1
tert-Butylbenzene	ND		1.0		ug/L			10/05/16 02:03	1
Tetrachloroethene	ND		1.0		ug/L			10/05/16 02:03	1
Tetrahydrofuran	ND		10		ug/L			10/05/16 02:03	1
Toluene	1.1		1.0		ug/L			10/05/16 02:03	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			10/05/16 02:03	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			10/05/16 02:03	1
Trichloroethene	ND		1.0		ug/L			10/05/16 02:03	1
Trichlorofluoromethane	ND		1.0		ug/L			10/05/16 02:03	1
Vinyl chloride	ND		1.0		ug/L			10/05/16 02:03	1
Dibromomethane	ND		1.0		ug/L			10/05/16 02:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>Toluene-d8 (Surr)</i>	91		70 - 130					10/05/16 02:03	1
<i>1,2-Dichloroethane-d4 (Surr)</i>	90		70 - 130					10/05/16 02:03	1
<i>4-Bromofluorobenzene (Surr)</i>	97		70 - 130					10/05/16 02:03	1

Client Sample ID: DUP1-20161003

Lab Sample ID: 480-106923-9

Date Collected: 10/03/16 00:00

Matrix: Water

Date Received: 10/04/16 00:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			10/05/16 02:27	1
1,1,1-Trichloroethane	ND		1.0		ug/L			10/05/16 02:27	1
1,1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			10/05/16 02:27	1
1,1,1,2-Trichloroethane	ND		1.0		ug/L			10/05/16 02:27	1
1,1-Dichloroethane	ND		1.0		ug/L			10/05/16 02:27	1
1,1-Dichloroethene	ND		1.0		ug/L			10/05/16 02:27	1
1,1-Dichloropropene	ND		1.0		ug/L			10/05/16 02:27	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			10/05/16 02:27	1
1,2,3-Trichloropropane	ND		1.0		ug/L			10/05/16 02:27	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			10/05/16 02:27	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			10/05/16 02:27	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			10/05/16 02:27	1
1,2-Dichlorobenzene	ND		1.0		ug/L			10/05/16 02:27	1
1,2-Dichloroethane	ND		1.0		ug/L			10/05/16 02:27	1
1,2-Dichloropropane	ND		1.0		ug/L			10/05/16 02:27	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			10/05/16 02:27	1
1,3-Dichlorobenzene	ND		1.0		ug/L			10/05/16 02:27	1
1,3-Dichloropropane	ND		1.0		ug/L			10/05/16 02:27	1
1,4-Dichlorobenzene	ND		1.0		ug/L			10/05/16 02:27	1
1,4-Dioxane	ND		50		ug/L			10/05/16 02:27	1
2,2-Dichloropropane	ND		1.0		ug/L			10/05/16 02:27	1
2-Butanone (MEK)	ND		10		ug/L			10/05/16 02:27	1
2-Chlorotoluene	ND		1.0		ug/L			10/05/16 02:27	1
2-Hexanone	ND		10		ug/L			10/05/16 02:27	1

TestAmerica Buffalo

Client Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-106923-1

Client Sample ID: DUP1-20161003

Lab Sample ID: 480-106923-9

Date Collected: 10/03/16 00:00

Matrix: Water

Date Received: 10/04/16 00:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chlorotoluene	ND		1.0		ug/L			10/05/16 02:27	1
4-Isopropyltoluene	ND		1.0		ug/L			10/05/16 02:27	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			10/05/16 02:27	1
Acetone	ND		50		ug/L			10/05/16 02:27	1
Benzene	ND		1.0		ug/L			10/05/16 02:27	1
Bromobenzene	ND		1.0		ug/L			10/05/16 02:27	1
Bromoform	ND		1.0		ug/L			10/05/16 02:27	1
Bromomethane	ND		2.0		ug/L			10/05/16 02:27	1
Carbon disulfide	ND		10		ug/L			10/05/16 02:27	1
Carbon tetrachloride	ND		1.0		ug/L			10/05/16 02:27	1
Chlorobenzene	ND		1.0		ug/L			10/05/16 02:27	1
Chlorobromomethane	ND		1.0		ug/L			10/05/16 02:27	1
Chlorodibromomethane	ND		0.50		ug/L			10/05/16 02:27	1
Chloroethane	ND		2.0		ug/L			10/05/16 02:27	1
Chloroform	ND		1.0		ug/L			10/05/16 02:27	1
Chloromethane	ND		2.0		ug/L			10/05/16 02:27	1
cis-1,2-Dichloroethene	2.1		1.0		ug/L			10/05/16 02:27	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			10/05/16 02:27	1
Dichlorobromomethane	ND		0.50		ug/L			10/05/16 02:27	1
Dichlorodifluoromethane	ND		1.0		ug/L			10/05/16 02:27	1
Ethyl ether	ND		1.0		ug/L			10/05/16 02:27	1
Ethylbenzene	ND		1.0		ug/L			10/05/16 02:27	1
Ethylene Dibromide	ND		1.0		ug/L			10/05/16 02:27	1
Hexachlorobutadiene	ND		0.40		ug/L			10/05/16 02:27	1
Isopropyl ether	ND		10		ug/L			10/05/16 02:27	1
Isopropylbenzene	ND		1.0		ug/L			10/05/16 02:27	1
Methyl tert-butyl ether	ND		1.0		ug/L			10/05/16 02:27	1
Methylene Chloride	ND		1.0		ug/L			10/05/16 02:27	1
m-Xylene & p-Xylene	ND		2.0		ug/L			10/05/16 02:27	1
Naphthalene	ND		5.0		ug/L			10/05/16 02:27	1
n-Butylbenzene	ND		1.0		ug/L			10/05/16 02:27	1
N-Propylbenzene	ND		1.0		ug/L			10/05/16 02:27	1
o-Xylene	ND		1.0		ug/L			10/05/16 02:27	1
sec-Butylbenzene	ND		1.0		ug/L			10/05/16 02:27	1
Styrene	ND		1.0		ug/L			10/05/16 02:27	1
Tert-amyl methyl ether	ND		5.0		ug/L			10/05/16 02:27	1
Tert-butyl ethyl ether	ND		5.0		ug/L			10/05/16 02:27	1
tert-Butylbenzene	ND		1.0		ug/L			10/05/16 02:27	1
Tetrachloroethene	ND		1.0		ug/L			10/05/16 02:27	1
Tetrahydrofuran	ND		10		ug/L			10/05/16 02:27	1
Toluene	ND		1.0		ug/L			10/05/16 02:27	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			10/05/16 02:27	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			10/05/16 02:27	1
Trichloroethene	ND		1.0		ug/L			10/05/16 02:27	1
Trichlorofluoromethane	ND		1.0		ug/L			10/05/16 02:27	1
Vinyl chloride	ND		1.0		ug/L			10/05/16 02:27	1
Dibromomethane	ND		1.0		ug/L			10/05/16 02:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	90		70 - 130		10/05/16 02:27	1

TestAmerica Buffalo

Client Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-106923-1

Client Sample ID: DUP1-20161003

Lab Sample ID: 480-106923-9

Date Collected: 10/03/16 00:00

Matrix: Water

Date Received: 10/04/16 00:50

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	87		70 - 130		10/05/16 02:27	1
4-Bromofluorobenzene (Surr)	94		70 - 130		10/05/16 02:27	1

Method: 522 - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	1.7		0.20		ug/L		10/05/16 11:16	10/06/16 15:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	92		70 - 130	10/05/16 11:16	10/06/16 15:33	1

Client Sample ID: TRIP BLANKS

Lab Sample ID: 480-106923-10

Date Collected: 10/03/16 00:00

Matrix: Water

Date Received: 10/04/16 00:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			10/04/16 19:09	1
1,1,1-Trichloroethane	ND		1.0		ug/L			10/04/16 19:09	1
1,1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			10/04/16 19:09	1
1,1,2-Trichloroethane	ND		1.0		ug/L			10/04/16 19:09	1
1,1-Dichloroethane	ND		1.0		ug/L			10/04/16 19:09	1
1,1-Dichloroethene	ND		1.0		ug/L			10/04/16 19:09	1
1,1-Dichloropropene	ND		1.0		ug/L			10/04/16 19:09	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			10/04/16 19:09	1
1,2,3-Trichloropropane	ND		1.0		ug/L			10/04/16 19:09	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			10/04/16 19:09	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			10/04/16 19:09	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			10/04/16 19:09	1
1,2-Dichlorobenzene	ND		1.0		ug/L			10/04/16 19:09	1
1,2-Dichloroethane	ND		1.0		ug/L			10/04/16 19:09	1
1,2-Dichloropropane	ND		1.0		ug/L			10/04/16 19:09	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			10/04/16 19:09	1
1,3-Dichlorobenzene	ND		1.0		ug/L			10/04/16 19:09	1
1,3-Dichloropropane	ND		1.0		ug/L			10/04/16 19:09	1
1,4-Dichlorobenzene	ND		1.0		ug/L			10/04/16 19:09	1
1,4-Dioxane	ND		50		ug/L			10/04/16 19:09	1
2,2-Dichloropropane	ND		1.0		ug/L			10/04/16 19:09	1
2-Butanone (MEK)	ND		10		ug/L			10/04/16 19:09	1
2-Chlorotoluene	ND		1.0		ug/L			10/04/16 19:09	1
2-Hexanone	ND		10		ug/L			10/04/16 19:09	1
4-Chlorotoluene	ND		1.0		ug/L			10/04/16 19:09	1
4-Isopropyltoluene	ND		1.0		ug/L			10/04/16 19:09	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			10/04/16 19:09	1
Acetone	ND		50		ug/L			10/04/16 19:09	1
Benzene	ND		1.0		ug/L			10/04/16 19:09	1
Bromobenzene	ND		1.0		ug/L			10/04/16 19:09	1
Bromoform	ND		1.0		ug/L			10/04/16 19:09	1
Bromomethane	ND		2.0		ug/L			10/04/16 19:09	1
Carbon disulfide	ND		10		ug/L			10/04/16 19:09	1
Carbon tetrachloride	ND		1.0		ug/L			10/04/16 19:09	1

TestAmerica Buffalo

Client Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-106923-1

Client Sample ID: TRIP BLANKS

Lab Sample ID: 480-106923-10

Date Collected: 10/03/16 00:00

Matrix: Water

Date Received: 10/04/16 00:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	ND		1.0		ug/L			10/04/16 19:09	1
Chlorobromomethane	ND		1.0		ug/L			10/04/16 19:09	1
Chlorodibromomethane	ND		0.50		ug/L			10/04/16 19:09	1
Chloroethane	ND		2.0		ug/L			10/04/16 19:09	1
Chloroform	ND		1.0		ug/L			10/04/16 19:09	1
Chloromethane	ND		2.0		ug/L			10/04/16 19:09	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			10/04/16 19:09	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			10/04/16 19:09	1
Dichlorobromomethane	ND		0.50		ug/L			10/04/16 19:09	1
Dichlorodifluoromethane	ND		1.0		ug/L			10/04/16 19:09	1
Ethyl ether	ND		1.0		ug/L			10/04/16 19:09	1
Ethylbenzene	ND		1.0		ug/L			10/04/16 19:09	1
Ethylene Dibromide	ND		1.0		ug/L			10/04/16 19:09	1
Hexachlorobutadiene	ND		0.40		ug/L			10/04/16 19:09	1
Isopropyl ether	ND		10		ug/L			10/04/16 19:09	1
Isopropylbenzene	ND		1.0		ug/L			10/04/16 19:09	1
Methyl tert-butyl ether	ND		1.0		ug/L			10/04/16 19:09	1
Methylene Chloride	ND		1.0		ug/L			10/04/16 19:09	1
m-Xylene & p-Xylene	ND		2.0		ug/L			10/04/16 19:09	1
Naphthalene	ND		5.0		ug/L			10/04/16 19:09	1
n-Butylbenzene	ND		1.0		ug/L			10/04/16 19:09	1
N-Propylbenzene	ND		1.0		ug/L			10/04/16 19:09	1
o-Xylene	ND		1.0		ug/L			10/04/16 19:09	1
sec-Butylbenzene	ND		1.0		ug/L			10/04/16 19:09	1
Styrene	ND		1.0		ug/L			10/04/16 19:09	1
Tert-amyl methyl ether	ND		5.0		ug/L			10/04/16 19:09	1
Tert-butyl ethyl ether	ND		5.0		ug/L			10/04/16 19:09	1
tert-Butylbenzene	ND		1.0		ug/L			10/04/16 19:09	1
Tetrachloroethene	ND		1.0		ug/L			10/04/16 19:09	1
Tetrahydrofuran	ND		10		ug/L			10/04/16 19:09	1
Toluene	ND		1.0		ug/L			10/04/16 19:09	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			10/04/16 19:09	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			10/04/16 19:09	1
Trichloroethene	ND		1.0		ug/L			10/04/16 19:09	1
Trichlorofluoromethane	ND		1.0		ug/L			10/04/16 19:09	1
Vinyl chloride	ND		1.0		ug/L			10/04/16 19:09	1
Dibromomethane	ND		1.0		ug/L			10/04/16 19:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	93		70 - 130		10/04/16 19:09	1
1,2-Dichloroethane-d4 (Surr)	91		70 - 130		10/04/16 19:09	1
4-Bromofluorobenzene (Surr)	96		70 - 130		10/04/16 19:09	1

Surrogate Summary

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-106923-1

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

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		TOL (70-130)	12DCE (70-130)	BFB (70-130)
480-106923-1	MW-261S-20161003	91	89	97
480-106923-2	MW-551-20161003	88	97	93
480-106923-3	MW-552-20161003	91	92	95
480-106923-4	MW-553-20161003	91	93	97
480-106923-5	MW-562-20161003	91	96	94
480-106923-6	MW-265S-20161003	91	93	94
480-106923-7	MW-265M-20161003	92	98	99
480-106923-8	MW-265D-20161003	91	90	97
480-106923-9	DUP1-20161003	90	87	94
480-106923-10	TRIP BLANKS	93	91	96
LCS 480-323673/5	Lab Control Sample	92	92	97
LCS 480-323720/5	Lab Control Sample	95	92	101
LCS 480-323855/6	Lab Control Sample	95	89	100
LCSD 480-323673/6	Lab Control Sample Dup	95	88	101
LCSD 480-323720/6	Lab Control Sample Dup	94	93	96
LCSD 480-323855/7	Lab Control Sample Dup	93	88	99
MB 480-323673/7	Method Blank	91	89	94
MB 480-323720/8	Method Blank	93	91	97
MB 480-323855/9	Method Blank	91	89	98

Surrogate Legend

TOL = Toluene-d8 (Surr)

12DCE = 1,2-Dichloroethane-d4 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

Method: 522 - 1,4 Dioxane (GC/MS SIM)

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	14DD8
		(70-130)
480-106923-1	MW-261S-20161003	97
480-106923-3	MW-552-20161003	91
480-106923-7	MW-265M-20161003	10 X
480-106923-9	DUP1-20161003	92
LCS 200-109819/2-A	Lab Control Sample	94
MB 200-109819/1-A	Method Blank	104

Surrogate Legend

14DD8 = 1,4-Dioxane-d8 (Surr)

QC Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-106923-1

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

Lab Sample ID: MB 480-323673/7

Matrix: Water

Analysis Batch: 323673

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			10/04/16 12:21	1
1,1,1-Trichloroethane	ND		1.0		ug/L			10/04/16 12:21	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			10/04/16 12:21	1
1,1,2-Trichloroethane	ND		1.0		ug/L			10/04/16 12:21	1
1,1-Dichloroethane	ND		1.0		ug/L			10/04/16 12:21	1
1,1-Dichloroethene	ND		1.0		ug/L			10/04/16 12:21	1
1,1-Dichloropropene	ND		1.0		ug/L			10/04/16 12:21	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			10/04/16 12:21	1
1,2,3-Trichloropropane	ND		1.0		ug/L			10/04/16 12:21	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			10/04/16 12:21	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			10/04/16 12:21	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			10/04/16 12:21	1
1,2-Dichlorobenzene	ND		1.0		ug/L			10/04/16 12:21	1
1,2-Dichloroethane	ND		1.0		ug/L			10/04/16 12:21	1
1,2-Dichloropropane	ND		1.0		ug/L			10/04/16 12:21	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			10/04/16 12:21	1
1,3-Dichlorobenzene	ND		1.0		ug/L			10/04/16 12:21	1
1,3-Dichloropropane	ND		1.0		ug/L			10/04/16 12:21	1
1,4-Dichlorobenzene	ND		1.0		ug/L			10/04/16 12:21	1
1,4-Dioxane	ND		50		ug/L			10/04/16 12:21	1
2,2-Dichloropropane	ND		1.0		ug/L			10/04/16 12:21	1
2-Butanone (MEK)	ND		10		ug/L			10/04/16 12:21	1
2-Chlorotoluene	ND		1.0		ug/L			10/04/16 12:21	1
2-Hexanone	ND		10		ug/L			10/04/16 12:21	1
4-Chlorotoluene	ND		1.0		ug/L			10/04/16 12:21	1
4-Isopropyltoluene	ND		1.0		ug/L			10/04/16 12:21	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			10/04/16 12:21	1
Acetone	ND		50		ug/L			10/04/16 12:21	1
Benzene	ND		1.0		ug/L			10/04/16 12:21	1
Bromobenzene	ND		1.0		ug/L			10/04/16 12:21	1
Bromoform	ND		1.0		ug/L			10/04/16 12:21	1
Bromomethane	ND		2.0		ug/L			10/04/16 12:21	1
Carbon disulfide	ND		10		ug/L			10/04/16 12:21	1
Carbon tetrachloride	ND		1.0		ug/L			10/04/16 12:21	1
Chlorobenzene	ND		1.0		ug/L			10/04/16 12:21	1
Chlorobromomethane	ND		1.0		ug/L			10/04/16 12:21	1
Chlorodibromomethane	ND		0.50		ug/L			10/04/16 12:21	1
Chloroethane	ND		2.0		ug/L			10/04/16 12:21	1
Chloroform	ND		1.0		ug/L			10/04/16 12:21	1
Chloromethane	ND		2.0		ug/L			10/04/16 12:21	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			10/04/16 12:21	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			10/04/16 12:21	1
Dichlorobromomethane	ND		0.50		ug/L			10/04/16 12:21	1
Dichlorodifluoromethane	ND		1.0		ug/L			10/04/16 12:21	1
Ethyl ether	ND		1.0		ug/L			10/04/16 12:21	1
Ethylbenzene	ND		1.0		ug/L			10/04/16 12:21	1
Ethylene Dibromide	ND		1.0		ug/L			10/04/16 12:21	1
Hexachlorobutadiene	ND		0.40		ug/L			10/04/16 12:21	1

TestAmerica Buffalo

QC Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-106923-1

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

Lab Sample ID: MB 480-323673/7

Matrix: Water

Analysis Batch: 323673

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropyl ether	ND		10		ug/L			10/04/16 12:21	1
Isopropylbenzene	ND		1.0		ug/L			10/04/16 12:21	1
Methyl tert-butyl ether	ND		1.0		ug/L			10/04/16 12:21	1
Methylene Chloride	ND		1.0		ug/L			10/04/16 12:21	1
m-Xylene & p-Xylene	ND		2.0		ug/L			10/04/16 12:21	1
Naphthalene	ND		5.0		ug/L			10/04/16 12:21	1
n-Butylbenzene	ND		1.0		ug/L			10/04/16 12:21	1
N-Propylbenzene	ND		1.0		ug/L			10/04/16 12:21	1
o-Xylene	ND		1.0		ug/L			10/04/16 12:21	1
sec-Butylbenzene	ND		1.0		ug/L			10/04/16 12:21	1
Styrene	ND		1.0		ug/L			10/04/16 12:21	1
Tert-amyl methyl ether	ND		5.0		ug/L			10/04/16 12:21	1
Tert-butyl ethyl ether	ND		5.0		ug/L			10/04/16 12:21	1
tert-Butylbenzene	ND		1.0		ug/L			10/04/16 12:21	1
Tetrachloroethene	ND		1.0		ug/L			10/04/16 12:21	1
Tetrahydrofuran	ND		10		ug/L			10/04/16 12:21	1
Toluene	ND		1.0		ug/L			10/04/16 12:21	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			10/04/16 12:21	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			10/04/16 12:21	1
Trichloroethene	ND		1.0		ug/L			10/04/16 12:21	1
Trichlorofluoromethane	ND		1.0		ug/L			10/04/16 12:21	1
Vinyl chloride	ND		1.0		ug/L			10/04/16 12:21	1
Dibromomethane	ND		1.0		ug/L			10/04/16 12:21	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	91		70 - 130		10/04/16 12:21	1
1,2-Dichloroethane-d4 (Surr)	89		70 - 130		10/04/16 12:21	1
4-Bromofluorobenzene (Surr)	94		70 - 130		10/04/16 12:21	1

Lab Sample ID: LCS 480-323673/5

Matrix: Water

Analysis Batch: 323673

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	25.0	24.2		ug/L		97	70 - 130
1,1,1-Trichloroethane	25.0	24.5		ug/L		98	70 - 130
1,1,2,2-Tetrachloroethane	25.0	22.0		ug/L		88	70 - 130
1,1,2-Trichloroethane	25.0	22.5		ug/L		90	70 - 130
1,1-Dichloroethane	25.0	23.9		ug/L		96	70 - 130
1,1-Dichloroethene	25.0	22.8		ug/L		91	70 - 130
1,1-Dichloropropene	25.0	22.8		ug/L		91	70 - 130
1,2,3-Trichlorobenzene	25.0	21.3		ug/L		85	70 - 130
1,2,3-Trichloropropane	25.0	19.6		ug/L		78	70 - 130
1,2,4-Trichlorobenzene	25.0	23.0		ug/L		92	70 - 130
1,2,4-Trimethylbenzene	25.0	24.1		ug/L		96	70 - 130
1,2-Dibromo-3-Chloropropane	25.0	19.7		ug/L		79	70 - 130
1,2-Dichlorobenzene	25.0	23.2		ug/L		93	70 - 130
1,2-Dichloroethane	25.0	21.8		ug/L		87	70 - 130

TestAmerica Buffalo

QC Sample Results

Client: Innovative Engineering Solutions, Inc
 Project/Site: IDS Wayland

TestAmerica Job ID: 480-106923-1

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

Lab Sample ID: LCS 480-323673/5

Matrix: Water

Analysis Batch: 323673

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichloropropane	25.0	23.3		ug/L		93	70 - 130
1,3,5-Trimethylbenzene	25.0	24.2		ug/L		97	70 - 130
1,3-Dichlorobenzene	25.0	23.7		ug/L		95	70 - 130
1,3-Dichloropropane	25.0	21.3		ug/L		85	70 - 130
1,4-Dichlorobenzene	25.0	23.8		ug/L		95	70 - 130
1,4-Dioxane	500	401		ug/L		80	70 - 130
2,2-Dichloropropane	25.0	23.9		ug/L		96	70 - 130
2-Butanone (MEK)	125	108		ug/L		87	70 - 130
2-Chlorotoluene	25.0	24.1		ug/L		97	70 - 130
2-Hexanone	125	104		ug/L		84	70 - 130
4-Chlorotoluene	25.0	25.5		ug/L		102	70 - 130
4-Isopropyltoluene	25.0	24.6		ug/L		99	70 - 130
4-Methyl-2-pentanone (MIBK)	125	102		ug/L		82	70 - 130
Acetone	125	105		ug/L		84	70 - 130
Benzene	25.0	23.2		ug/L		93	70 - 130
Bromobenzene	25.0	24.5		ug/L		98	70 - 130
Bromoform	25.0	22.9		ug/L		92	70 - 130
Bromomethane	25.0	25.6		ug/L		102	70 - 130
Carbon disulfide	25.0	22.7		ug/L		91	70 - 130
Carbon tetrachloride	25.0	23.9		ug/L		95	70 - 130
Chlorobenzene	25.0	23.5		ug/L		94	70 - 130
Chlorobromomethane	25.0	24.0		ug/L		96	70 - 130
Chlorodibromomethane	25.0	24.2		ug/L		97	70 - 130
Chloroethane	25.0	25.6		ug/L		102	70 - 130
Chloroform	25.0	23.0		ug/L		92	70 - 130
Chloromethane	25.0	25.3		ug/L		101	70 - 130
cis-1,2-Dichloroethene	25.0	23.2		ug/L		93	70 - 130
cis-1,3-Dichloropropene	25.0	24.4		ug/L		98	70 - 130
Dichlorobromomethane	25.0	23.7		ug/L		95	70 - 130
Dichlorodifluoromethane	25.0	28.8		ug/L		115	70 - 130
Ethyl ether	25.0	21.7		ug/L		87	70 - 130
Ethylbenzene	25.0	23.2		ug/L		93	70 - 130
Ethylene Dibromide	25.0	22.6		ug/L		90	70 - 130
Hexachlorobutadiene	25.0	23.4		ug/L		94	70 - 130
Isopropyl ether	25.0	23.3		ug/L		93	70 - 130
Isopropylbenzene	25.0	23.6		ug/L		94	70 - 130
Methyl tert-butyl ether	25.0	22.4		ug/L		90	70 - 130
Methylene Chloride	25.0	24.3		ug/L		97	70 - 130
m-Xylene & p-Xylene	25.0	23.5		ug/L		94	70 - 130
Naphthalene	25.0	20.8		ug/L		83	70 - 130
n-Butylbenzene	25.0	23.6		ug/L		94	70 - 130
N-Propylbenzene	25.0	24.0		ug/L		96	70 - 130
o-Xylene	25.0	23.6		ug/L		95	70 - 130
sec-Butylbenzene	25.0	23.6		ug/L		94	70 - 130
Styrene	25.0	24.0		ug/L		96	70 - 130
Tert-amyl methyl ether	25.0	22.3		ug/L		89	70 - 130
Tert-butyl ethyl ether	25.0	22.9		ug/L		92	70 - 130
tert-Butylbenzene	25.0	24.3		ug/L		97	70 - 130

TestAmerica Buffalo

QC Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-106923-1

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

Lab Sample ID: LCS 480-323673/5

Matrix: Water

Analysis Batch: 323673

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Tetrachloroethene	25.0	25.0		ug/L		100	70 - 130
Tetrahydrofuran	50.0	54.6		ug/L		109	70 - 130
Toluene	25.0	22.8		ug/L		91	70 - 130
trans-1,2-Dichloroethene	25.0	23.7		ug/L		95	70 - 130
trans-1,3-Dichloropropene	25.0	22.7		ug/L		91	70 - 130
Trichloroethene	25.0	23.3		ug/L		93	70 - 130
Trichlorofluoromethane	25.0	27.0		ug/L		108	70 - 130
Vinyl chloride	25.0	25.9		ug/L		103	70 - 130
Dibromomethane	25.0	22.4		ug/L		90	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Toluene-d8 (Surr)	92		70 - 130
1,2-Dichloroethane-d4 (Surr)	92		70 - 130
4-Bromofluorobenzene (Surr)	97		70 - 130

Lab Sample ID: LCSD 480-323673/6

Matrix: Water

Analysis Batch: 323673

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	25.0	25.0		ug/L		100	70 - 130	3	20
1,1,1-Trichloroethane	25.0	25.6		ug/L		102	70 - 130	4	20
1,1,1,2,2-Tetrachloroethane	25.0	22.1		ug/L		88	70 - 130	1	20
1,1,1,2-Trichloroethane	25.0	22.8		ug/L		91	70 - 130	1	20
1,1-Dichloroethane	25.0	24.5		ug/L		98	70 - 130	3	20
1,1-Dichloroethene	25.0	24.3		ug/L		97	70 - 130	6	20
1,1-Dichloropropene	25.0	23.6		ug/L		94	70 - 130	3	20
1,2,3-Trichlorobenzene	25.0	21.7		ug/L		87	70 - 130	2	20
1,2,3-Trichloropropane	25.0	20.3		ug/L		81	70 - 130	4	20
1,2,4-Trichlorobenzene	25.0	23.6		ug/L		94	70 - 130	2	20
1,2,4-Trimethylbenzene	25.0	24.5		ug/L		98	70 - 130	2	20
1,2-Dibromo-3-Chloropropane	25.0	20.5		ug/L		82	70 - 130	4	20
1,2-Dichlorobenzene	25.0	23.5		ug/L		94	70 - 130	1	20
1,2-Dichloroethane	25.0	22.4		ug/L		89	70 - 130	3	20
1,2-Dichloropropane	25.0	24.7		ug/L		99	70 - 130	6	20
1,3,5-Trimethylbenzene	25.0	24.6		ug/L		98	70 - 130	2	20
1,3-Dichlorobenzene	25.0	24.1		ug/L		96	70 - 130	2	20
1,3-Dichloropropane	25.0	21.4		ug/L		86	70 - 130	1	20
1,4-Dichlorobenzene	25.0	24.6		ug/L		99	70 - 130	3	20
1,4-Dioxane	500	388		ug/L		78	70 - 130	3	20
2,2-Dichloropropane	25.0	24.8		ug/L		99	70 - 130	4	20
2-Butanone (MEK)	125	106		ug/L		85	70 - 130	2	20
2-Chlorotoluene	25.0	24.6		ug/L		98	70 - 130	2	20
2-Hexanone	125	104		ug/L		83	70 - 130	1	20
4-Chlorotoluene	25.0	26.0		ug/L		104	70 - 130	2	20
4-Isopropyltoluene	25.0	25.1		ug/L		100	70 - 130	2	20
4-Methyl-2-pentanone (MIBK)	125	102		ug/L		81	70 - 130	0	20
Acetone	125	103		ug/L		82	70 - 130	2	20

TestAmerica Buffalo

QC Sample Results

Client: Innovative Engineering Solutions, Inc
 Project/Site: IDS Wayland

TestAmerica Job ID: 480-106923-1

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

Lab Sample ID: LCSD 480-323673/6

Client Sample ID: Lab Control Sample Dup

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 323673

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	25.0	24.4		ug/L		98	70 - 130	5	20
Bromobenzene	25.0	23.8		ug/L		95	70 - 130	3	20
Bromoform	25.0	23.5		ug/L		94	70 - 130	2	20
Bromomethane	25.0	25.7		ug/L		103	70 - 130	1	20
Carbon disulfide	25.0	24.0		ug/L		96	70 - 130	5	20
Carbon tetrachloride	25.0	25.1		ug/L		101	70 - 130	5	20
Chlorobenzene	25.0	24.4		ug/L		98	70 - 130	4	20
Chlorobromomethane	25.0	25.0		ug/L		100	70 - 130	4	20
Chlorodibromomethane	25.0	25.3		ug/L		101	70 - 130	5	20
Chloroethane	25.0	26.7		ug/L		107	70 - 130	4	20
Chloroform	25.0	23.5		ug/L		94	70 - 130	2	20
Chloromethane	25.0	26.3		ug/L		105	70 - 130	4	20
cis-1,2-Dichloroethene	25.0	24.6		ug/L		98	70 - 130	6	20
cis-1,3-Dichloropropene	25.0	25.3		ug/L		101	70 - 130	4	20
Dichlorobromomethane	25.0	24.2		ug/L		97	70 - 130	2	20
Dichlorodifluoromethane	25.0	29.8		ug/L		119	70 - 130	4	20
Ethyl ether	25.0	22.4		ug/L		90	70 - 130	3	20
Ethylbenzene	25.0	24.1		ug/L		96	70 - 130	4	20
Ethylene Dibromide	25.0	22.8		ug/L		91	70 - 130	1	20
Hexachlorobutadiene	25.0	25.0		ug/L		100	70 - 130	6	20
Isopropyl ether	25.0	24.0		ug/L		96	70 - 130	3	20
Isopropylbenzene	25.0	24.7		ug/L		99	70 - 130	5	20
Methyl tert-butyl ether	25.0	22.8		ug/L		91	70 - 130	2	20
Methylene Chloride	25.0	25.1		ug/L		100	70 - 130	3	20
m-Xylene & p-Xylene	25.0	24.0		ug/L		96	70 - 130	2	20
Naphthalene	25.0	21.0		ug/L		84	70 - 130	1	20
n-Butylbenzene	25.0	24.5		ug/L		98	70 - 130	4	20
N-Propylbenzene	25.0	24.7		ug/L		99	70 - 130	3	20
o-Xylene	25.0	24.4		ug/L		98	70 - 130	3	20
sec-Butylbenzene	25.0	24.5		ug/L		98	70 - 130	3	20
Styrene	25.0	25.5		ug/L		102	70 - 130	6	20
Tert-amyl methyl ether	25.0	23.0		ug/L		92	70 - 130	3	20
Tert-butyl ethyl ether	25.0	23.3		ug/L		93	70 - 130	2	20
tert-Butylbenzene	25.0	25.0		ug/L		100	70 - 130	3	20
Tetrachloroethene	25.0	26.2		ug/L		105	70 - 130	5	20
Tetrahydrofuran	50.0	53.1		ug/L		106	70 - 130	3	20
Toluene	25.0	23.4		ug/L		94	70 - 130	3	20
trans-1,2-Dichloroethene	25.0	25.0		ug/L		100	70 - 130	5	20
trans-1,3-Dichloropropene	25.0	23.7		ug/L		95	70 - 130	4	20
Trichloroethene	25.0	24.3		ug/L		97	70 - 130	4	20
Trichlorofluoromethane	25.0	28.4		ug/L		114	70 - 130	5	20
Vinyl chloride	25.0	27.0		ug/L		108	70 - 130	4	20
Dibromomethane	25.0	23.2		ug/L		93	70 - 130	4	20

Surrogate	LCSD LCSD		Limits
	%Recovery	Qualifier	
Toluene-d8 (Surr)	95		70 - 130
1,2-Dichloroethane-d4 (Surr)	88		70 - 130
4-Bromofluorobenzene (Surr)	101		70 - 130

TestAmerica Buffalo

QC Sample Results

Client: Innovative Engineering Solutions, Inc
 Project/Site: IDS Wayland

TestAmerica Job ID: 480-106923-1

Lab Sample ID: MB 480-323720/8
Matrix: Water
Analysis Batch: 323720

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			10/04/16 22:43	1
1,1,1-Trichloroethane	ND		1.0		ug/L			10/04/16 22:43	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			10/04/16 22:43	1
1,1,2-Trichloroethane	ND		1.0		ug/L			10/04/16 22:43	1
1,1-Dichloroethane	ND		1.0		ug/L			10/04/16 22:43	1
1,1-Dichloroethene	ND		1.0		ug/L			10/04/16 22:43	1
1,1-Dichloropropene	ND		1.0		ug/L			10/04/16 22:43	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			10/04/16 22:43	1
1,2,3-Trichloropropane	ND		1.0		ug/L			10/04/16 22:43	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			10/04/16 22:43	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			10/04/16 22:43	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			10/04/16 22:43	1
1,2-Dichlorobenzene	ND		1.0		ug/L			10/04/16 22:43	1
1,2-Dichloroethane	ND		1.0		ug/L			10/04/16 22:43	1
1,2-Dichloropropane	ND		1.0		ug/L			10/04/16 22:43	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			10/04/16 22:43	1
1,3-Dichlorobenzene	ND		1.0		ug/L			10/04/16 22:43	1
1,3-Dichloropropane	ND		1.0		ug/L			10/04/16 22:43	1
1,4-Dichlorobenzene	ND		1.0		ug/L			10/04/16 22:43	1
1,4-Dioxane	ND		50		ug/L			10/04/16 22:43	1
2,2-Dichloropropane	ND		1.0		ug/L			10/04/16 22:43	1
2-Butanone (MEK)	ND		10		ug/L			10/04/16 22:43	1
2-Chlorotoluene	ND		1.0		ug/L			10/04/16 22:43	1
2-Hexanone	ND		10		ug/L			10/04/16 22:43	1
4-Chlorotoluene	ND		1.0		ug/L			10/04/16 22:43	1
4-Isopropyltoluene	ND		1.0		ug/L			10/04/16 22:43	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			10/04/16 22:43	1
Acetone	ND		50		ug/L			10/04/16 22:43	1
Benzene	ND		1.0		ug/L			10/04/16 22:43	1
Bromobenzene	ND		1.0		ug/L			10/04/16 22:43	1
Bromoform	ND		1.0		ug/L			10/04/16 22:43	1
Bromomethane	ND		2.0		ug/L			10/04/16 22:43	1
Carbon disulfide	ND		10		ug/L			10/04/16 22:43	1
Carbon tetrachloride	ND		1.0		ug/L			10/04/16 22:43	1
Chlorobenzene	ND		1.0		ug/L			10/04/16 22:43	1
Chlorobromomethane	ND		1.0		ug/L			10/04/16 22:43	1
Chlorodibromomethane	ND		0.50		ug/L			10/04/16 22:43	1
Chloroethane	ND		2.0		ug/L			10/04/16 22:43	1
Chloroform	ND		1.0		ug/L			10/04/16 22:43	1
Chloromethane	ND		2.0		ug/L			10/04/16 22:43	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			10/04/16 22:43	1
cis-1,3-Dichloropropane	ND		0.40		ug/L			10/04/16 22:43	1
Dichlorobromomethane	ND		0.50		ug/L			10/04/16 22:43	1
Dichlorodifluoromethane	ND		1.0		ug/L			10/04/16 22:43	1
Ethyl ether	ND		1.0		ug/L			10/04/16 22:43	1
Ethylbenzene	ND		1.0		ug/L			10/04/16 22:43	1
Ethylene Dibromide	ND		1.0		ug/L			10/04/16 22:43	1
Hexachlorobutadiene	ND		0.40		ug/L			10/04/16 22:43	1
Isopropyl ether	ND		10		ug/L			10/04/16 22:43	1
Isopropylbenzene	ND		1.0		ug/L			10/04/16 22:43	1

TestAmerica Buffalo

QC Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-106923-1

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

Lab Sample ID: MB 480-323720/8
Matrix: Water
Analysis Batch: 323720

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		1.0		ug/L			10/04/16 22:43	1
Methylene Chloride	ND		1.0		ug/L			10/04/16 22:43	1
m-Xylene & p-Xylene	ND		2.0		ug/L			10/04/16 22:43	1
Naphthalene	ND		5.0		ug/L			10/04/16 22:43	1
n-Butylbenzene	ND		1.0		ug/L			10/04/16 22:43	1
N-Propylbenzene	ND		1.0		ug/L			10/04/16 22:43	1
o-Xylene	ND		1.0		ug/L			10/04/16 22:43	1
sec-Butylbenzene	ND		1.0		ug/L			10/04/16 22:43	1
Styrene	ND		1.0		ug/L			10/04/16 22:43	1
Tert-amyl methyl ether	ND		5.0		ug/L			10/04/16 22:43	1
Tert-butyl ethyl ether	ND		5.0		ug/L			10/04/16 22:43	1
tert-Butylbenzene	ND		1.0		ug/L			10/04/16 22:43	1
Tetrachloroethene	ND		1.0		ug/L			10/04/16 22:43	1
Tetrahydrofuran	ND		10		ug/L			10/04/16 22:43	1
Toluene	ND		1.0		ug/L			10/04/16 22:43	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			10/04/16 22:43	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			10/04/16 22:43	1
Trichloroethene	ND		1.0		ug/L			10/04/16 22:43	1
Trichlorofluoromethane	ND		1.0		ug/L			10/04/16 22:43	1
Vinyl chloride	ND		1.0		ug/L			10/04/16 22:43	1
Dibromomethane	ND		1.0		ug/L			10/04/16 22:43	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	93		70 - 130		10/04/16 22:43	1
1,2-Dichloroethane-d4 (Surr)	91		70 - 130		10/04/16 22:43	1
4-Bromofluorobenzene (Surr)	97		70 - 130		10/04/16 22:43	1

Lab Sample ID: LCS 480-323720/5
Matrix: Water
Analysis Batch: 323720

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	25.0	23.5		ug/L		94	70 - 130
1,1,1-Trichloroethane	25.0	23.6		ug/L		94	70 - 130
1,1,1,2,2-Tetrachloroethane	25.0	20.8		ug/L		83	70 - 130
1,1,2-Trichloroethane	25.0	21.6		ug/L		86	70 - 130
1,1-Dichloroethane	25.0	23.6		ug/L		94	70 - 130
1,1-Dichloroethene	25.0	22.2		ug/L		89	70 - 130
1,1-Dichloropropene	25.0	22.9		ug/L		92	70 - 130
1,2,3-Trichlorobenzene	25.0	20.5		ug/L		82	70 - 130
1,2,3-Trichloropropane	25.0	19.6		ug/L		79	70 - 130
1,2,4-Trichlorobenzene	25.0	21.4		ug/L		86	70 - 130
1,2,4-Trimethylbenzene	25.0	22.8		ug/L		91	70 - 130
1,2-Dibromo-3-Chloropropane	25.0	19.2		ug/L		77	70 - 130
1,2-Dichlorobenzene	25.0	22.1		ug/L		89	70 - 130
1,2-Dichloroethane	25.0	21.7		ug/L		87	70 - 130
1,2-Dichloropropane	25.0	23.2		ug/L		93	70 - 130
1,3,5-Trimethylbenzene	25.0	22.8		ug/L		91	70 - 130

TestAmerica Buffalo

QC Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-106923-1

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

Lab Sample ID: LCS 480-323720/5

Matrix: Water

Analysis Batch: 323720

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,3-Dichlorobenzene	25.0	23.0		ug/L		92	70 - 130
1,3-Dichloropropane	25.0	20.9		ug/L		84	70 - 130
1,4-Dichlorobenzene	25.0	22.6		ug/L		91	70 - 130
1,4-Dioxane	500	395		ug/L		79	70 - 130
2,2-Dichloropropane	25.0	23.7		ug/L		95	70 - 130
2-Butanone (MEK)	125	118		ug/L		95	70 - 130
2-Chlorotoluene	25.0	22.6		ug/L		90	70 - 130
2-Hexanone	125	109		ug/L		87	70 - 130
4-Chlorotoluene	25.0	23.9		ug/L		96	70 - 130
4-Isopropyltoluene	25.0	23.2		ug/L		93	70 - 130
4-Methyl-2-pentanone (MIBK)	125	102		ug/L		81	70 - 130
Acetone	125	133		ug/L		107	70 - 130
Benzene	25.0	22.7		ug/L		91	70 - 130
Bromobenzene	25.0	22.7		ug/L		91	70 - 130
Bromoform	25.0	22.2		ug/L		89	70 - 130
Bromomethane	25.0	28.2		ug/L		113	70 - 130
Carbon disulfide	25.0	22.4		ug/L		90	70 - 130
Carbon tetrachloride	25.0	23.2		ug/L		93	70 - 130
Chlorobenzene	25.0	22.5		ug/L		90	70 - 130
Chlorobromomethane	25.0	23.6		ug/L		94	70 - 130
Chlorodibromomethane	25.0	23.5		ug/L		94	70 - 130
Chloroethane	25.0	28.3		ug/L		113	70 - 130
Chloroform	25.0	22.3		ug/L		89	70 - 130
Chloromethane	25.0	25.0		ug/L		100	70 - 130
cis-1,2-Dichloroethene	25.0	23.5		ug/L		94	70 - 130
cis-1,3-Dichloropropene	25.0	23.1		ug/L		93	70 - 130
Dichlorobromomethane	25.0	24.1		ug/L		97	70 - 130
Dichlorodifluoromethane	25.0	26.6		ug/L		106	70 - 130
Ethyl ether	25.0	21.6		ug/L		86	70 - 130
Ethylbenzene	25.0	22.5		ug/L		90	70 - 130
Ethylene Dibromide	25.0	22.2		ug/L		89	70 - 130
Hexachlorobutadiene	25.0	22.5		ug/L		90	70 - 130
Isopropyl ether	25.0	22.2		ug/L		89	70 - 130
Isopropylbenzene	25.0	22.6		ug/L		90	70 - 130
Methyl tert-butyl ether	25.0	21.6		ug/L		86	70 - 130
Methylene Chloride	25.0	24.7		ug/L		99	70 - 130
m-Xylene & p-Xylene	25.0	22.6		ug/L		90	70 - 130
Naphthalene	25.0	19.3		ug/L		77	70 - 130
n-Butylbenzene	25.0	21.8		ug/L		87	70 - 130
N-Propylbenzene	25.0	22.0		ug/L		88	70 - 130
o-Xylene	25.0	23.4		ug/L		94	70 - 130
sec-Butylbenzene	25.0	22.2		ug/L		89	70 - 130
Styrene	25.0	23.7		ug/L		95	70 - 130
Tert-amyl methyl ether	25.0	21.9		ug/L		87	70 - 130
Tert-butyl ethyl ether	25.0	22.1		ug/L		88	70 - 130
tert-Butylbenzene	25.0	23.3		ug/L		93	70 - 130
Tetrachloroethene	25.0	24.1		ug/L		97	70 - 130
Tetrahydrofuran	50.0	51.1		ug/L		102	70 - 130

TestAmerica Buffalo

QC Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-106923-1

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

Lab Sample ID: LCS 480-323720/5

Matrix: Water

Analysis Batch: 323720

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Toluene	25.0	21.9		ug/L		88	70 - 130
trans-1,2-Dichloroethene	25.0	23.8		ug/L		95	70 - 130
trans-1,3-Dichloropropene	25.0	21.8		ug/L		87	70 - 130
Trichloroethene	25.0	23.5		ug/L		94	70 - 130
Trichlorofluoromethane	25.0	28.2		ug/L		113	70 - 130
Vinyl chloride	25.0	26.0		ug/L		104	70 - 130
Dibromomethane	25.0	22.2		ug/L		89	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Toluene-d8 (Surr)	95		70 - 130
1,2-Dichloroethane-d4 (Surr)	92		70 - 130
4-Bromofluorobenzene (Surr)	101		70 - 130

Lab Sample ID: LCSD 480-323720/6

Matrix: Water

Analysis Batch: 323720

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	25.0	23.8		ug/L		95	70 - 130	1	20
1,1,1-Trichloroethane	25.0	25.4		ug/L		102	70 - 130	7	20
1,1,1,2,2-Tetrachloroethane	25.0	21.7		ug/L		87	70 - 130	4	20
1,1,2-Trichloroethane	25.0	22.2		ug/L		89	70 - 130	3	20
1,1-Dichloroethane	25.0	24.1		ug/L		96	70 - 130	2	20
1,1-Dichloroethene	25.0	24.1		ug/L		97	70 - 130	9	20
1,1-Dichloropropene	25.0	23.6		ug/L		94	70 - 130	3	20
1,2,3-Trichlorobenzene	25.0	21.4		ug/L		86	70 - 130	4	20
1,2,3-Trichloropropane	25.0	19.8		ug/L		79	70 - 130	1	20
1,2,4-Trichlorobenzene	25.0	22.5		ug/L		90	70 - 130	5	20
1,2,4-Trimethylbenzene	25.0	24.7		ug/L		99	70 - 130	8	20
1,2-Dibromo-3-Chloropropane	25.0	21.0		ug/L		84	70 - 130	9	20
1,2-Dichlorobenzene	25.0	23.4		ug/L		94	70 - 130	6	20
1,2-Dichloroethane	25.0	22.0		ug/L		88	70 - 130	2	20
1,2-Dichloropropane	25.0	23.6		ug/L		94	70 - 130	2	20
1,3,5-Trimethylbenzene	25.0	24.3		ug/L		97	70 - 130	7	20
1,3-Dichlorobenzene	25.0	23.7		ug/L		95	70 - 130	3	20
1,3-Dichloropropane	25.0	20.7		ug/L		83	70 - 130	1	20
1,4-Dichlorobenzene	25.0	24.5		ug/L		98	70 - 130	8	20
1,4-Dioxane	500	353		ug/L		71	70 - 130	11	20
2,2-Dichloropropane	25.0	25.2		ug/L		101	70 - 130	6	20
2-Butanone (MEK)	125	112		ug/L		89	70 - 130	6	20
2-Chlorotoluene	25.0	23.6		ug/L		94	70 - 130	4	20
2-Hexanone	125	107		ug/L		85	70 - 130	2	20
4-Chlorotoluene	25.0	25.6		ug/L		102	70 - 130	7	20
4-Isopropyltoluene	25.0	25.0		ug/L		100	70 - 130	8	20
4-Methyl-2-pentanone (MIBK)	125	98.3		ug/L		79	70 - 130	3	20
Acetone	125	128		ug/L		102	70 - 130	4	20
Benzene	25.0	24.0		ug/L		96	70 - 130	6	20
Bromobenzene	25.0	23.6		ug/L		94	70 - 130	4	20

TestAmerica Buffalo

QC Sample Results

Client: Innovative Engineering Solutions, Inc
 Project/Site: IDS Wayland

TestAmerica Job ID: 480-106923-1

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

Lab Sample ID: LCSD 480-323720/6

Client Sample ID: Lab Control Sample Dup

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 323720

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Bromoform	25.0	22.5		ug/L		90	70 - 130	1	20
Bromomethane	25.0	29.9		ug/L		119	70 - 130	6	20
Carbon disulfide	25.0	24.3		ug/L		97	70 - 130	8	20
Carbon tetrachloride	25.0	25.3		ug/L		101	70 - 130	9	20
Chlorobenzene	25.0	23.0		ug/L		92	70 - 130	2	20
Chlorobromomethane	25.0	24.5		ug/L		98	70 - 130	4	20
Chlorodibromomethane	25.0	23.8		ug/L		95	70 - 130	1	20
Chloroethane	25.0	29.5		ug/L		118	70 - 130	4	20
Chloroform	25.0	22.9		ug/L		92	70 - 130	3	20
Chloromethane	25.0	26.4		ug/L		106	70 - 130	6	20
cis-1,2-Dichloroethene	25.0	24.9		ug/L		100	70 - 130	6	20
cis-1,3-Dichloropropene	25.0	24.6		ug/L		98	70 - 130	6	20
Dichlorobromomethane	25.0	24.8		ug/L		99	70 - 130	3	20
Dichlorodifluoromethane	25.0	29.7		ug/L		119	70 - 130	11	20
Ethyl ether	25.0	22.1		ug/L		88	70 - 130	2	20
Ethylbenzene	25.0	23.6		ug/L		94	70 - 130	4	20
Ethylene Dibromide	25.0	21.7		ug/L		87	70 - 130	2	20
Hexachlorobutadiene	25.0	24.4		ug/L		98	70 - 130	8	20
Isopropyl ether	25.0	23.0		ug/L		92	70 - 130	4	20
Isopropylbenzene	25.0	23.9		ug/L		96	70 - 130	6	20
Methyl tert-butyl ether	25.0	22.0		ug/L		88	70 - 130	2	20
Methylene Chloride	25.0	25.1		ug/L		100	70 - 130	2	20
m-Xylene & p-Xylene	25.0	23.7		ug/L		95	70 - 130	5	20
Naphthalene	25.0	20.2		ug/L		81	70 - 130	5	20
n-Butylbenzene	25.0	23.7		ug/L		95	70 - 130	8	20
N-Propylbenzene	25.0	24.0		ug/L		96	70 - 130	9	20
o-Xylene	25.0	24.3		ug/L		97	70 - 130	4	20
sec-Butylbenzene	25.0	24.2		ug/L		97	70 - 130	9	20
Styrene	25.0	24.6		ug/L		98	70 - 130	3	20
Tert-amyl methyl ether	25.0	22.1		ug/L		88	70 - 130	1	20
Tert-butyl ethyl ether	25.0	23.1		ug/L		92	70 - 130	5	20
tert-Butylbenzene	25.0	24.8		ug/L		99	70 - 130	6	20
Tetrachloroethene	25.0	25.6		ug/L		102	70 - 130	6	20
Tetrahydrofuran	50.0	51.5		ug/L		103	70 - 130	1	20
Toluene	25.0	22.6		ug/L		90	70 - 130	3	20
trans-1,2-Dichloroethene	25.0	24.0		ug/L		96	70 - 130	1	20
trans-1,3-Dichloropropene	25.0	22.1		ug/L		88	70 - 130	1	20
Trichloroethene	25.0	25.2		ug/L		101	70 - 130	7	20
Trichlorofluoromethane	25.0	30.4		ug/L		122	70 - 130	8	20
Vinyl chloride	25.0	27.2		ug/L		109	70 - 130	4	20
Dibromomethane	25.0	22.5		ug/L		90	70 - 130	1	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Toluene-d8 (Surr)	94		70 - 130
1,2-Dichloroethane-d4 (Surr)	93		70 - 130
4-Bromofluorobenzene (Surr)	96		70 - 130

TestAmerica Buffalo

QC Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-106923-1

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

Lab Sample ID: MB 480-323855/9

Matrix: Water

Analysis Batch: 323855

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			10/05/16 12:18	1
1,1,1-Trichloroethane	ND		1.0		ug/L			10/05/16 12:18	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			10/05/16 12:18	1
1,1,2-Trichloroethane	ND		1.0		ug/L			10/05/16 12:18	1
1,1-Dichloroethane	ND		1.0		ug/L			10/05/16 12:18	1
1,1-Dichloroethene	ND		1.0		ug/L			10/05/16 12:18	1
1,1-Dichloropropene	ND		1.0		ug/L			10/05/16 12:18	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			10/05/16 12:18	1
1,2,3-Trichloropropane	ND		1.0		ug/L			10/05/16 12:18	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			10/05/16 12:18	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			10/05/16 12:18	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			10/05/16 12:18	1
1,2-Dichlorobenzene	ND		1.0		ug/L			10/05/16 12:18	1
1,2-Dichloroethane	ND		1.0		ug/L			10/05/16 12:18	1
1,2-Dichloropropane	ND		1.0		ug/L			10/05/16 12:18	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			10/05/16 12:18	1
1,3-Dichlorobenzene	ND		1.0		ug/L			10/05/16 12:18	1
1,3-Dichloropropane	ND		1.0		ug/L			10/05/16 12:18	1
1,4-Dichlorobenzene	ND		1.0		ug/L			10/05/16 12:18	1
1,4-Dioxane	ND		50		ug/L			10/05/16 12:18	1
2,2-Dichloropropane	ND		1.0		ug/L			10/05/16 12:18	1
2-Butanone (MEK)	ND		10		ug/L			10/05/16 12:18	1
2-Chlorotoluene	ND		1.0		ug/L			10/05/16 12:18	1
2-Hexanone	ND		10		ug/L			10/05/16 12:18	1
4-Chlorotoluene	ND		1.0		ug/L			10/05/16 12:18	1
4-Isopropyltoluene	ND		1.0		ug/L			10/05/16 12:18	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			10/05/16 12:18	1
Acetone	ND		50		ug/L			10/05/16 12:18	1
Benzene	ND		1.0		ug/L			10/05/16 12:18	1
Bromobenzene	ND		1.0		ug/L			10/05/16 12:18	1
Bromoform	ND		1.0		ug/L			10/05/16 12:18	1
Bromomethane	ND		2.0		ug/L			10/05/16 12:18	1
Carbon disulfide	ND		10		ug/L			10/05/16 12:18	1
Carbon tetrachloride	ND		1.0		ug/L			10/05/16 12:18	1
Chlorobenzene	ND		1.0		ug/L			10/05/16 12:18	1
Chlorobromomethane	ND		1.0		ug/L			10/05/16 12:18	1
Chlorodibromomethane	ND		0.50		ug/L			10/05/16 12:18	1
Chloroethane	ND		2.0		ug/L			10/05/16 12:18	1
Chloroform	ND		1.0		ug/L			10/05/16 12:18	1
Chloromethane	ND		2.0		ug/L			10/05/16 12:18	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			10/05/16 12:18	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			10/05/16 12:18	1
Dichlorobromomethane	ND		0.50		ug/L			10/05/16 12:18	1
Dichlorodifluoromethane	ND		1.0		ug/L			10/05/16 12:18	1
Ethyl ether	ND		1.0		ug/L			10/05/16 12:18	1
Ethylbenzene	ND		1.0		ug/L			10/05/16 12:18	1
Ethylene Dibromide	ND		1.0		ug/L			10/05/16 12:18	1
Hexachlorobutadiene	ND		0.40		ug/L			10/05/16 12:18	1

TestAmerica Buffalo

QC Sample Results

Client: Innovative Engineering Solutions, Inc
 Project/Site: IDS Wayland

TestAmerica Job ID: 480-106923-1

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

Lab Sample ID: MB 480-323855/9
Matrix: Water
Analysis Batch: 323855

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropyl ether	ND		10		ug/L			10/05/16 12:18	1
Isopropylbenzene	ND		1.0		ug/L			10/05/16 12:18	1
Methyl tert-butyl ether	ND		1.0		ug/L			10/05/16 12:18	1
Methylene Chloride	ND		1.0		ug/L			10/05/16 12:18	1
m-Xylene & p-Xylene	ND		2.0		ug/L			10/05/16 12:18	1
Naphthalene	ND		5.0		ug/L			10/05/16 12:18	1
n-Butylbenzene	ND		1.0		ug/L			10/05/16 12:18	1
N-Propylbenzene	ND		1.0		ug/L			10/05/16 12:18	1
o-Xylene	ND		1.0		ug/L			10/05/16 12:18	1
sec-Butylbenzene	ND		1.0		ug/L			10/05/16 12:18	1
Styrene	ND		1.0		ug/L			10/05/16 12:18	1
Tert-amyl methyl ether	ND		5.0		ug/L			10/05/16 12:18	1
Tert-butyl ethyl ether	ND		5.0		ug/L			10/05/16 12:18	1
tert-Butylbenzene	ND		1.0		ug/L			10/05/16 12:18	1
Tetrachloroethene	ND		1.0		ug/L			10/05/16 12:18	1
Tetrahydrofuran	ND		10		ug/L			10/05/16 12:18	1
Toluene	ND		1.0		ug/L			10/05/16 12:18	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			10/05/16 12:18	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			10/05/16 12:18	1
Trichloroethene	ND		1.0		ug/L			10/05/16 12:18	1
Trichlorofluoromethane	ND		1.0		ug/L			10/05/16 12:18	1
Vinyl chloride	ND		1.0		ug/L			10/05/16 12:18	1
Dibromomethane	ND		1.0		ug/L			10/05/16 12:18	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	91		70 - 130		10/05/16 12:18	1
1,2-Dichloroethane-d4 (Surr)	89		70 - 130		10/05/16 12:18	1
4-Bromofluorobenzene (Surr)	98		70 - 130		10/05/16 12:18	1

Lab Sample ID: LCS 480-323855/6
Matrix: Water
Analysis Batch: 323855

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	25.0	25.2		ug/L		101	70 - 130
1,1,1-Trichloroethane	25.0	24.6		ug/L		98	70 - 130
1,1,2,2-Tetrachloroethane	25.0	22.9		ug/L		92	70 - 130
1,1,2-Trichloroethane	25.0	23.9		ug/L		96	70 - 130
1,1-Dichloroethane	25.0	24.0		ug/L		96	70 - 130
1,1-Dichloroethene	25.0	22.9		ug/L		92	70 - 130
1,1-Dichloropropene	25.0	23.0		ug/L		92	70 - 130
1,2,3-Trichlorobenzene	25.0	22.1		ug/L		88	70 - 130
1,2,3-Trichloropropane	25.0	21.3		ug/L		85	70 - 130
1,2,4-Trichlorobenzene	25.0	23.0		ug/L		92	70 - 130
1,2,4-Trimethylbenzene	25.0	24.7		ug/L		99	70 - 130
1,2-Dibromo-3-Chloropropane	25.0	20.9		ug/L		83	70 - 130
1,2-Dichlorobenzene	25.0	24.0		ug/L		96	70 - 130
1,2-Dichloroethane	25.0	21.9		ug/L		88	70 - 130

TestAmerica Buffalo

QC Sample Results

Client: Innovative Engineering Solutions, Inc
 Project/Site: IDS Wayland

TestAmerica Job ID: 480-106923-1

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

Lab Sample ID: LCS 480-323855/6

Matrix: Water

Analysis Batch: 323855

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichloropropane	25.0	23.8		ug/L		95	70 - 130
1,3,5-Trimethylbenzene	25.0	24.6		ug/L		98	70 - 130
1,3-Dichlorobenzene	25.0	23.8		ug/L		95	70 - 130
1,3-Dichloropropane	25.0	22.0		ug/L		88	70 - 130
1,4-Dichlorobenzene	25.0	24.0		ug/L		96	70 - 130
1,4-Dioxane	500	361		ug/L		72	70 - 130
2,2-Dichloropropane	25.0	23.6		ug/L		95	70 - 130
2-Butanone (MEK)	125	114		ug/L		91	70 - 130
2-Chlorotoluene	25.0	23.9		ug/L		96	70 - 130
2-Hexanone	125	116		ug/L		93	70 - 130
4-Chlorotoluene	25.0	25.6		ug/L		102	70 - 130
4-Isopropyltoluene	25.0	24.9		ug/L		100	70 - 130
4-Methyl-2-pentanone (MIBK)	125	105		ug/L		84	70 - 130
Acetone	125	135		ug/L		108	70 - 130
Benzene	25.0	23.9		ug/L		96	70 - 130
Bromobenzene	25.0	23.9		ug/L		96	70 - 130
Bromoform	25.0	24.4		ug/L		98	70 - 130
Bromomethane	25.0	22.5		ug/L		90	70 - 130
Carbon disulfide	25.0	22.9		ug/L		92	70 - 130
Carbon tetrachloride	25.0	24.3		ug/L		97	70 - 130
Chlorobenzene	25.0	24.0		ug/L		96	70 - 130
Chlorobromomethane	25.0	24.1		ug/L		96	70 - 130
Chlorodibromomethane	25.0	25.1		ug/L		100	70 - 130
Chloroethane	25.0	26.2		ug/L		105	70 - 130
Chloroform	25.0	22.9		ug/L		92	70 - 130
Chloromethane	25.0	24.6		ug/L		98	70 - 130
cis-1,2-Dichloroethene	25.0	24.2		ug/L		97	70 - 130
cis-1,3-Dichloropropene	25.0	24.5		ug/L		98	70 - 130
Dichlorobromomethane	25.0	24.6		ug/L		98	70 - 130
Dichlorodifluoromethane	25.0	25.6		ug/L		102	70 - 130
Ethyl ether	25.0	22.4		ug/L		89	70 - 130
Ethylbenzene	25.0	23.7		ug/L		95	70 - 130
Ethylene Dibromide	25.0	22.9		ug/L		92	70 - 130
Hexachlorobutadiene	25.0	24.1		ug/L		96	70 - 130
Isopropyl ether	25.0	23.0		ug/L		92	70 - 130
Isopropylbenzene	25.0	24.7		ug/L		99	70 - 130
Methyl tert-butyl ether	25.0	21.9		ug/L		88	70 - 130
Methylene Chloride	25.0	25.4		ug/L		101	70 - 130
m-Xylene & p-Xylene	25.0	23.5		ug/L		94	70 - 130
Naphthalene	25.0	21.2		ug/L		85	70 - 130
n-Butylbenzene	25.0	24.1		ug/L		96	70 - 130
N-Propylbenzene	25.0	24.3		ug/L		97	70 - 130
o-Xylene	25.0	24.2		ug/L		97	70 - 130
sec-Butylbenzene	25.0	23.6		ug/L		94	70 - 130
Styrene	25.0	24.9		ug/L		100	70 - 130
Tert-amyl methyl ether	25.0	22.2		ug/L		89	70 - 130
Tert-butyl ethyl ether	25.0	22.8		ug/L		91	70 - 130
tert-Butylbenzene	25.0	24.7		ug/L		99	70 - 130

TestAmerica Buffalo

QC Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-106923-1

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

Lab Sample ID: LCS 480-323855/6

Matrix: Water

Analysis Batch: 323855

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Tetrachloroethene	25.0	26.3		ug/L		105	70 - 130
Tetrahydrofuran	50.0	55.4		ug/L		111	70 - 130
Toluene	25.0	23.5		ug/L		94	70 - 130
trans-1,2-Dichloroethene	25.0	23.7		ug/L		95	70 - 130
trans-1,3-Dichloropropene	25.0	23.7		ug/L		95	70 - 130
Trichloroethene	25.0	23.9		ug/L		96	70 - 130
Trichlorofluoromethane	25.0	27.5		ug/L		110	70 - 130
Vinyl chloride	25.0	24.7		ug/L		99	70 - 130
Dibromomethane	25.0	23.2		ug/L		93	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Toluene-d8 (Surr)	95		70 - 130
1,2-Dichloroethane-d4 (Surr)	89		70 - 130
4-Bromofluorobenzene (Surr)	100		70 - 130

Lab Sample ID: LCSD 480-323855/7

Matrix: Water

Analysis Batch: 323855

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	25.0	25.6		ug/L		103	70 - 130	2	20
1,1,1-Trichloroethane	25.0	25.0		ug/L		100	70 - 130	2	20
1,1,1,2,2-Tetrachloroethane	25.0	21.8		ug/L		87	70 - 130	5	20
1,1,2-Trichloroethane	25.0	23.5		ug/L		94	70 - 130	2	20
1,1-Dichloroethane	25.0	24.8		ug/L		99	70 - 130	3	20
1,1-Dichloroethene	25.0	23.8		ug/L		95	70 - 130	4	20
1,1-Dichloropropene	25.0	23.6		ug/L		94	70 - 130	3	20
1,2,3-Trichlorobenzene	25.0	21.2		ug/L		85	70 - 130	4	20
1,2,3-Trichloropropane	25.0	21.0		ug/L		84	70 - 130	1	20
1,2,4-Trichlorobenzene	25.0	23.0		ug/L		92	70 - 130	0	20
1,2,4-Trimethylbenzene	25.0	24.4		ug/L		97	70 - 130	1	20
1,2-Dibromo-3-Chloropropane	25.0	20.7		ug/L		83	70 - 130	1	20
1,2-Dichlorobenzene	25.0	23.6		ug/L		95	70 - 130	1	20
1,2-Dichloroethane	25.0	22.8		ug/L		91	70 - 130	4	20
1,2-Dichloropropane	25.0	24.2		ug/L		97	70 - 130	1	20
1,3,5-Trimethylbenzene	25.0	24.5		ug/L		98	70 - 130	0	20
1,3-Dichlorobenzene	25.0	24.3		ug/L		97	70 - 130	2	20
1,3-Dichloropropane	25.0	22.1		ug/L		88	70 - 130	0	20
1,4-Dichlorobenzene	25.0	24.2		ug/L		97	70 - 130	1	20
1,4-Dioxane	500	388		ug/L		78	70 - 130	7	20
2,2-Dichloropropane	25.0	25.0		ug/L		100	70 - 130	5	20
2-Butanone (MEK)	125	120		ug/L		96	70 - 130	5	20
2-Chlorotoluene	25.0	24.1		ug/L		96	70 - 130	1	20
2-Hexanone	125	111		ug/L		89	70 - 130	4	20
4-Chlorotoluene	25.0	25.7		ug/L		103	70 - 130	0	20
4-Isopropyltoluene	25.0	25.1		ug/L		100	70 - 130	1	20
4-Methyl-2-pentanone (MIBK)	125	105		ug/L		84	70 - 130	0	20
Acetone	125	129		ug/L		103	70 - 130	5	20

TestAmerica Buffalo

QC Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-106923-1

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

Lab Sample ID: LCSD 480-323855/7

Matrix: Water

Analysis Batch: 323855

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	25.0	24.5		ug/L		98	70 - 130	2	20
Bromobenzene	25.0	23.9		ug/L		96	70 - 130	0	20
Bromoform	25.0	24.0		ug/L		96	70 - 130	2	20
Bromomethane	25.0	25.2		ug/L		101	70 - 130	11	20
Carbon disulfide	25.0	23.7		ug/L		95	70 - 130	3	20
Carbon tetrachloride	25.0	25.4		ug/L		101	70 - 130	4	20
Chlorobenzene	25.0	24.1		ug/L		96	70 - 130	0	20
Chlorobromomethane	25.0	24.4		ug/L		98	70 - 130	1	20
Chlorodibromomethane	25.0	25.8		ug/L		103	70 - 130	3	20
Chloroethane	25.0	26.3		ug/L		105	70 - 130	0	20
Chloroform	25.0	23.8		ug/L		95	70 - 130	4	20
Chloromethane	25.0	25.4		ug/L		102	70 - 130	3	20
cis-1,2-Dichloroethene	25.0	24.3		ug/L		97	70 - 130	1	20
cis-1,3-Dichloropropene	25.0	25.0		ug/L		100	70 - 130	2	20
Dichlorobromomethane	25.0	25.3		ug/L		101	70 - 130	3	20
Dichlorodifluoromethane	25.0	26.2		ug/L		105	70 - 130	2	20
Ethyl ether	25.0	22.2		ug/L		89	70 - 130	1	20
Ethylbenzene	25.0	24.5		ug/L		98	70 - 130	4	20
Ethylene Dibromide	25.0	23.0		ug/L		92	70 - 130	1	20
Hexachlorobutadiene	25.0	24.6		ug/L		98	70 - 130	2	20
Isopropyl ether	25.0	23.3		ug/L		93	70 - 130	1	20
Isopropylbenzene	25.0	24.0		ug/L		96	70 - 130	3	20
Methyl tert-butyl ether	25.0	22.5		ug/L		90	70 - 130	3	20
Methylene Chloride	25.0	25.5		ug/L		102	70 - 130	0	20
m-Xylene & p-Xylene	25.0	24.8		ug/L		99	70 - 130	5	20
Naphthalene	25.0	20.5		ug/L		82	70 - 130	3	20
n-Butylbenzene	25.0	24.4		ug/L		98	70 - 130	2	20
N-Propylbenzene	25.0	24.4		ug/L		97	70 - 130	0	20
o-Xylene	25.0	24.2		ug/L		97	70 - 130	0	20
sec-Butylbenzene	25.0	24.2		ug/L		97	70 - 130	3	20
Styrene	25.0	25.7		ug/L		103	70 - 130	3	20
Tert-amyl methyl ether	25.0	23.0		ug/L		92	70 - 130	4	20
Tert-butyl ethyl ether	25.0	23.3		ug/L		93	70 - 130	2	20
tert-Butylbenzene	25.0	24.2		ug/L		97	70 - 130	2	20
Tetrachloroethene	25.0	27.0		ug/L		108	70 - 130	3	20
Tetrahydrofuran	50.0	54.2		ug/L		108	70 - 130	2	20
Toluene	25.0	23.5		ug/L		94	70 - 130	0	20
trans-1,2-Dichloroethene	25.0	24.3		ug/L		97	70 - 130	3	20
trans-1,3-Dichloropropene	25.0	24.1		ug/L		97	70 - 130	2	20
Trichloroethene	25.0	25.3		ug/L		101	70 - 130	5	20
Trichlorofluoromethane	25.0	28.4		ug/L		113	70 - 130	3	20
Vinyl chloride	25.0	25.4		ug/L		102	70 - 130	3	20
Dibromomethane	25.0	24.4		ug/L		97	70 - 130	5	20

Surrogate	LCSD LCSD		Limits
	%Recovery	Qualifier	
Toluene-d8 (Surr)	93		70 - 130
1,2-Dichloroethane-d4 (Surr)	88		70 - 130
4-Bromofluorobenzene (Surr)	99		70 - 130

TestAmerica Buffalo

QC Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-106923-1

Method: 522 - 1,4 Dioxane (GC/MS SIM)

Lab Sample ID: MB 200-109819/1-A
Matrix: Water
Analysis Batch: 109859

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 109819

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20		ug/L		10/05/16 11:16	10/06/16 09:28	1
Surrogate	%Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	104		70 - 130				10/05/16 11:16	10/06/16 09:28	1

Lab Sample ID: LCS 200-109819/2-A
Matrix: Water
Analysis Batch: 109859

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 109819

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits		
1,4-Dioxane	8.00	7.07		ug/L		88	70 - 130		
Surrogate	LCS %Recovery	LCS Qualifier	Limits						
1,4-Dioxane-d8 (Surr)	94		70 - 130						

Method: 6010 - Metals (ICP)

Lab Sample ID: MB 480-323660/1-A
Matrix: Water
Analysis Batch: 324737

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 323660

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		0.050		mg/L		10/04/16 08:55	10/05/16 14:38	1

Lab Sample ID: LCS 480-323660/2-A
Matrix: Water
Analysis Batch: 324737

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 323660

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits		
Iron	10.0	10.5		mg/L		105	80 - 120		

Lab Sample ID: LCSD 480-323660/3-A
Matrix: Water
Analysis Batch: 324737

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 323660

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	Limits	RPD	RPD Limit
Iron	10.0	10.5		mg/L		105	80 - 120	1	20

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 480-323818/4
Matrix: Water
Analysis Batch: 323818

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		0.50		mg/L			10/05/16 11:45	1
Sulfate	ND		2.0		mg/L			10/05/16 11:45	1

TestAmerica Buffalo

QC Sample Results

Client: Innovative Engineering Solutions, Inc
 Project/Site: IDS Wayland

TestAmerica Job ID: 480-106923-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 480-323818/3
Matrix: Water
Analysis Batch: 323818

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	50.0	48.0		mg/L		96	90 - 110
Sulfate	50.0	46.7		mg/L		93	90 - 110

Lab Sample ID: 480-106923-7 MS
Matrix: Water
Analysis Batch: 323818

Client Sample ID: MW-265M-20161003
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	41		1000	946		mg/L		91	81 - 120

Lab Sample ID: 480-106923-7 MSD
Matrix: Water
Analysis Batch: 323818

Client Sample ID: MW-265M-20161003
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	41		1000	928		mg/L		89	81 - 120	2	20

Lab Sample ID: MB 480-324265/4
Matrix: Water
Analysis Batch: 324265

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		0.50		mg/L			10/07/16 06:29	1
Sulfate	ND		2.0		mg/L			10/07/16 06:29	1

Lab Sample ID: LCS 480-324265/3
Matrix: Water
Analysis Batch: 324265

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	50.0	48.5		mg/L		97	90 - 110
Sulfate	50.0	48.6		mg/L		97	90 - 110

Lab Sample ID: 480-106923-7 MS
Matrix: Water
Analysis Batch: 324265

Client Sample ID: MW-265M-20161003
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	ND		50.0	46.7		mg/L		93	80 - 120

Lab Sample ID: 480-106923-7 MSD
Matrix: Water
Analysis Batch: 324265

Client Sample ID: MW-265M-20161003
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	ND		50.0	49.3		mg/L		99	80 - 120	5	20

TestAmerica Buffalo

QC Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-106923-1

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 480-323735/2-A
Matrix: Water
Analysis Batch: 323762

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 323735

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.20		mg/L		10/04/16 12:24	10/04/16 13:42	1

Lab Sample ID: LCS 480-323735/1-A
Matrix: Water
Analysis Batch: 323762

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 323735

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia	1.00	1.08		mg/L		108	90 - 110

Lab Sample ID: 480-106923-7 MS
Matrix: Water
Analysis Batch: 323762

Client Sample ID: MW-265M-20161003
Prep Type: Total/NA
Prep Batch: 323735

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia	0.50		0.500	1.02		mg/L		105	90 - 110

Method: 9060A - Organic Carbon, Total (TOC)

Lab Sample ID: MB 480-324190/27
Matrix: Water
Analysis Batch: 324190

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TOC Result 1	ND		1.0		mg/L			10/06/16 04:37	1
TOC Result 2	ND		1.0		mg/L			10/06/16 04:37	1
Total Organic Carbon - Duplicates	ND		1.0		mg/L			10/06/16 04:37	1

Lab Sample ID: MB 480-324190/3
Matrix: Water
Analysis Batch: 324190

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TOC Result 1	ND		1.0		mg/L			10/05/16 17:18	1
TOC Result 2	ND		1.0		mg/L			10/05/16 17:18	1
Total Organic Carbon - Duplicates	ND		1.0		mg/L			10/05/16 17:18	1

Lab Sample ID: LCS 480-324190/28
Matrix: Water
Analysis Batch: 324190

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
TOC Result 1	60.0	56.5		mg/L		94	90 - 110
TOC Result 2	60.0	57.5		mg/L		96	90 - 110
Total Organic Carbon - Duplicates	60.0	57.0		mg/L		95	90 - 110

TestAmerica Buffalo

QC Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-106923-1

Method: 9060A - Organic Carbon, Total (TOC) (Continued)

Lab Sample ID: LCS 480-324190/4

Matrix: Water

Analysis Batch: 324190

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
TOC Result 1	60.0	57.1		mg/L		95	90 - 110
TOC Result 2	60.0	57.6		mg/L		96	90 - 110
Total Organic Carbon - Duplicates	60.0	57.3		mg/L		96	90 - 110

Lab Sample ID: 480-106923-3 DU

Matrix: Water

Analysis Batch: 324190

Client Sample ID: MW-552-20161003

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
TOC Result 1	1.4		1.44		mg/L		4	20
TOC Result 2	1.6		1.77		mg/L		7	20
Total Organic Carbon - Duplicates	1.5		1.61		mg/L		6	20

Lab Sample ID: MB 480-324587/4

Matrix: Water

Analysis Batch: 324587

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TOC Result 1	ND		1.0		mg/L			10/07/16 17:53	1
TOC Result 2	ND		1.0		mg/L			10/07/16 17:53	1
Total Organic Carbon - Duplicates	ND		1.0		mg/L			10/07/16 17:53	1

Lab Sample ID: MB 480-324587/52

Matrix: Water

Analysis Batch: 324587

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TOC Result 1	ND		1.0		mg/L			10/08/16 16:20	1
TOC Result 2	ND		1.0		mg/L			10/08/16 16:20	1
Total Organic Carbon - Duplicates	ND		1.0		mg/L			10/08/16 16:20	1

Lab Sample ID: LCS 480-324587/5

Matrix: Water

Analysis Batch: 324587

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
TOC Result 1	60.0	57.8		mg/L		96	90 - 110
TOC Result 2	60.0	60.9		mg/L		101	90 - 110
Total Organic Carbon - Duplicates	60.0	59.3		mg/L		99	90 - 110

Lab Sample ID: LCS 480-324587/53

Matrix: Water

Analysis Batch: 324587

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
TOC Result 1	60.0	55.6		mg/L		93	90 - 110
TOC Result 2	60.0	59.2		mg/L		99	90 - 110

TestAmerica Buffalo

QC Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-106923-1

Method: 9060A - Organic Carbon, Total (TOC) (Continued)

Lab Sample ID: LCS 480-324587/53
Matrix: Water
Analysis Batch: 324587

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon - Duplicates	60.0	57.4		mg/L		96	90 - 110

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 480-324113/30
Matrix: Water
Analysis Batch: 324113

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND		5.0		mg/L			10/05/16 15:35	1

Lab Sample ID: MB 480-324113/7
Matrix: Water
Analysis Batch: 324113

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND		5.0		mg/L			10/05/16 12:53	1

Lab Sample ID: LCS 480-324113/31
Matrix: Water
Analysis Batch: 324113

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity, Total	100	97.8		mg/L		98	90 - 110

Lab Sample ID: LCS 480-324113/8
Matrix: Water
Analysis Batch: 324113

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity, Total	100	101		mg/L		101	90 - 110

Method: SM 4500 P E - Orthophosphate

Lab Sample ID: MB 480-323751/3
Matrix: Water
Analysis Batch: 323751

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
ortho-Phosphate	ND		0.020		mg/L			10/04/16 09:30	1

Lab Sample ID: LCS 480-323751/4
Matrix: Water
Analysis Batch: 323751

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
ortho-Phosphate	0.200	0.208		mg/L		104	90 - 110

TestAmerica Buffalo

QC Sample Results

Client: Innovative Engineering Solutions, Inc
 Project/Site: IDS Wayland

TestAmerica Job ID: 480-106923-1

Method: SM 4500 P E - Orthophosphate (Continued)

Lab Sample ID: 480-106923-7 MS
Matrix: Water
Analysis Batch: 323751

Client Sample ID: MW-265M-20161003
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
ortho-Phosphate	0.19		1.00	1.12		mg/L		93	49 - 138

Lab Sample ID: 480-106923-7 MSD
Matrix: Water
Analysis Batch: 323751

Client Sample ID: MW-265M-20161003
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
ortho-Phosphate	0.19		1.00	1.12		mg/L		93	49 - 138	0	20



QC Association Summary

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-106923-1

GC/MS VOA

Analysis Batch: 323673

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-106923-10	TRIP BLANKS	Total/NA	Water	8260C	
MB 480-323673/7	Method Blank	Total/NA	Water	8260C	
LCS 480-323673/5	Lab Control Sample	Total/NA	Water	8260C	
LCSD 480-323673/6	Lab Control Sample Dup	Total/NA	Water	8260C	

Analysis Batch: 323720

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-106923-2	MW-551-20161003	Total/NA	Water	8260C	
480-106923-3	MW-552-20161003	Total/NA	Water	8260C	
480-106923-4	MW-553-20161003	Total/NA	Water	8260C	
480-106923-5	MW-562-20161003	Total/NA	Water	8260C	
480-106923-6	MW-265S-20161003	Total/NA	Water	8260C	
480-106923-7	MW-265M-20161003	Total/NA	Water	8260C	
480-106923-8	MW-265D-20161003	Total/NA	Water	8260C	
480-106923-9	DUP1-20161003	Total/NA	Water	8260C	
MB 480-323720/8	Method Blank	Total/NA	Water	8260C	
LCS 480-323720/5	Lab Control Sample	Total/NA	Water	8260C	
LCSD 480-323720/6	Lab Control Sample Dup	Total/NA	Water	8260C	

Analysis Batch: 323855

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-106923-1	MW-261S-20161003	Total/NA	Water	8260C	
MB 480-323855/9	Method Blank	Total/NA	Water	8260C	
LCS 480-323855/6	Lab Control Sample	Total/NA	Water	8260C	
LCSD 480-323855/7	Lab Control Sample Dup	Total/NA	Water	8260C	

GC/MS Semi VOA

Prep Batch: 109819

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-106923-1	MW-261S-20161003	Total/NA	Water	3535A	
480-106923-3	MW-552-20161003	Total/NA	Water	3535A	
480-106923-7	MW-265M-20161003	Total/NA	Water	3535A	
480-106923-9	DUP1-20161003	Total/NA	Water	3535A	
MB 200-109819/1-A	Method Blank	Total/NA	Water	3535A	
LCS 200-109819/2-A	Lab Control Sample	Total/NA	Water	3535A	

Analysis Batch: 109859

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-106923-1	MW-261S-20161003	Total/NA	Water	522	109819
480-106923-3	MW-552-20161003	Total/NA	Water	522	109819
480-106923-7	MW-265M-20161003	Total/NA	Water	522	109819
480-106923-9	DUP1-20161003	Total/NA	Water	522	109819
MB 200-109819/1-A	Method Blank	Total/NA	Water	522	109819
LCS 200-109819/2-A	Lab Control Sample	Total/NA	Water	522	109819

TestAmerica Buffalo

QC Association Summary

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-106923-1

Metals

Prep Batch: 323660

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-106923-1	MW-261S-20161003	Total/NA	Water	3005A	
480-106923-3	MW-552-20161003	Total/NA	Water	3005A	
480-106923-4	MW-553-20161003	Total/NA	Water	3005A	
480-106923-5	MW-562-20161003	Total/NA	Water	3005A	
480-106923-7	MW-265M-20161003	Total/NA	Water	3005A	
MB 480-323660/1-A	Method Blank	Total/NA	Water	3005A	
LCS 480-323660/2-A	Lab Control Sample	Total/NA	Water	3005A	
LCSD 480-323660/3-A	Lab Control Sample Dup	Total/NA	Water	3005A	

Analysis Batch: 324737

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-106923-1	MW-261S-20161003	Total/NA	Water	6010	323660
480-106923-3	MW-552-20161003	Total/NA	Water	6010	323660
480-106923-4	MW-553-20161003	Total/NA	Water	6010	323660
480-106923-5	MW-562-20161003	Total/NA	Water	6010	323660
480-106923-7	MW-265M-20161003	Total/NA	Water	6010	323660
MB 480-323660/1-A	Method Blank	Total/NA	Water	6010	323660
LCS 480-323660/2-A	Lab Control Sample	Total/NA	Water	6010	323660
LCSD 480-323660/3-A	Lab Control Sample Dup	Total/NA	Water	6010	323660

General Chemistry

Prep Batch: 323735

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-106923-1	MW-261S-20161003	Total/NA	Water	Distill/Ammonia	
480-106923-3	MW-552-20161003	Total/NA	Water	Distill/Ammonia	
480-106923-4	MW-553-20161003	Total/NA	Water	Distill/Ammonia	
480-106923-5	MW-562-20161003	Total/NA	Water	Distill/Ammonia	
480-106923-7	MW-265M-20161003	Total/NA	Water	Distill/Ammonia	
MB 480-323735/2-A	Method Blank	Total/NA	Water	Distill/Ammonia	
LCS 480-323735/1-A	Lab Control Sample	Total/NA	Water	Distill/Ammonia	
480-106923-7 MS	MW-265M-20161003	Total/NA	Water	Distill/Ammonia	

Analysis Batch: 323751

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-106923-1	MW-261S-20161003	Total/NA	Water	SM 4500 P E	
480-106923-3	MW-552-20161003	Total/NA	Water	SM 4500 P E	
480-106923-4	MW-553-20161003	Total/NA	Water	SM 4500 P E	
480-106923-5	MW-562-20161003	Total/NA	Water	SM 4500 P E	
480-106923-7	MW-265M-20161003	Total/NA	Water	SM 4500 P E	
MB 480-323751/3	Method Blank	Total/NA	Water	SM 4500 P E	
LCS 480-323751/4	Lab Control Sample	Total/NA	Water	SM 4500 P E	
480-106923-7 MS	MW-265M-20161003	Total/NA	Water	SM 4500 P E	
480-106923-7 MSD	MW-265M-20161003	Total/NA	Water	SM 4500 P E	

Analysis Batch: 323762

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-106923-1	MW-261S-20161003	Total/NA	Water	350.1	323735
480-106923-3	MW-552-20161003	Total/NA	Water	350.1	323735
480-106923-4	MW-553-20161003	Total/NA	Water	350.1	323735

TestAmerica Buffalo

QC Association Summary

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-106923-1

General Chemistry (Continued)

Analysis Batch: 323762 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-106923-5	MW-562-20161003	Total/NA	Water	350.1	323735
480-106923-7	MW-265M-20161003	Total/NA	Water	350.1	323735
MB 480-323735/2-A	Method Blank	Total/NA	Water	350.1	323735
LCS 480-323735/1-A	Lab Control Sample	Total/NA	Water	350.1	323735
480-106923-7 MS	MW-265M-20161003	Total/NA	Water	350.1	323735

Analysis Batch: 323809

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-106923-1	MW-261S-20161003	Total/NA	Water	353.2	
480-106923-3	MW-552-20161003	Total/NA	Water	353.2	
480-106923-4	MW-553-20161003	Total/NA	Water	353.2	
480-106923-5	MW-562-20161003	Total/NA	Water	353.2	
480-106923-7	MW-265M-20161003	Total/NA	Water	353.2	

Analysis Batch: 323818

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-106923-1	MW-261S-20161003	Total/NA	Water	300.0	
480-106923-3	MW-552-20161003	Total/NA	Water	300.0	
480-106923-4	MW-553-20161003	Total/NA	Water	300.0	
480-106923-5	MW-562-20161003	Total/NA	Water	300.0	
480-106923-7	MW-265M-20161003	Total/NA	Water	300.0	
MB 480-323818/4	Method Blank	Total/NA	Water	300.0	
LCS 480-323818/3	Lab Control Sample	Total/NA	Water	300.0	
480-106923-7 MS	MW-265M-20161003	Total/NA	Water	300.0	
480-106923-7 MSD	MW-265M-20161003	Total/NA	Water	300.0	

Analysis Batch: 324113

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-106923-1	MW-261S-20161003	Total/NA	Water	SM 2320B	
480-106923-3	MW-552-20161003	Total/NA	Water	SM 2320B	
480-106923-4	MW-553-20161003	Total/NA	Water	SM 2320B	
480-106923-5	MW-562-20161003	Total/NA	Water	SM 2320B	
480-106923-7	MW-265M-20161003	Total/NA	Water	SM 2320B	
MB 480-324113/30	Method Blank	Total/NA	Water	SM 2320B	
MB 480-324113/7	Method Blank	Total/NA	Water	SM 2320B	
LCS 480-324113/31	Lab Control Sample	Total/NA	Water	SM 2320B	
LCS 480-324113/8	Lab Control Sample	Total/NA	Water	SM 2320B	

Analysis Batch: 324114

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-106923-1	MW-261S-20161003	Total/NA	Water	9040C	
480-106923-3	MW-552-20161003	Total/NA	Water	9040C	
480-106923-4	MW-553-20161003	Total/NA	Water	9040C	
480-106923-5	MW-562-20161003	Total/NA	Water	9040C	
480-106923-7	MW-265M-20161003	Total/NA	Water	9040C	
LCS 480-324114/1	Lab Control Sample	Total/NA	Water	9040C	

Analysis Batch: 324190

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-106923-1	MW-261S-20161003	Total/NA	Water	9060A	
480-106923-3	MW-552-20161003	Total/NA	Water	9060A	

TestAmerica Buffalo

QC Association Summary

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-106923-1

General Chemistry (Continued)

Analysis Batch: 324190 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-106923-4	MW-553-20161003	Total/NA	Water	9060A	
MB 480-324190/27	Method Blank	Total/NA	Water	9060A	
MB 480-324190/3	Method Blank	Total/NA	Water	9060A	
LCS 480-324190/28	Lab Control Sample	Total/NA	Water	9060A	
LCS 480-324190/4	Lab Control Sample	Total/NA	Water	9060A	
480-106923-3 DU	MW-552-20161003	Total/NA	Water	9060A	

Analysis Batch: 324265

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-106923-1	MW-261S-20161003	Total/NA	Water	300.0	
480-106923-3	MW-552-20161003	Total/NA	Water	300.0	
480-106923-4	MW-553-20161003	Total/NA	Water	300.0	
480-106923-5	MW-562-20161003	Total/NA	Water	300.0	
480-106923-7	MW-265M-20161003	Total/NA	Water	300.0	
MB 480-324265/4	Method Blank	Total/NA	Water	300.0	
LCS 480-324265/3	Lab Control Sample	Total/NA	Water	300.0	
480-106923-7 MS	MW-265M-20161003	Total/NA	Water	300.0	
480-106923-7 MSD	MW-265M-20161003	Total/NA	Water	300.0	

Analysis Batch: 324587

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-106923-5	MW-562-20161003	Total/NA	Water	9060A	
480-106923-7	MW-265M-20161003	Total/NA	Water	9060A	
MB 480-324587/4	Method Blank	Total/NA	Water	9060A	
MB 480-324587/52	Method Blank	Total/NA	Water	9060A	
LCS 480-324587/5	Lab Control Sample	Total/NA	Water	9060A	
LCS 480-324587/53	Lab Control Sample	Total/NA	Water	9060A	

Lab Chronicle

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-106923-1

Client Sample ID: MW-261S-20161003

Lab Sample ID: 480-106923-1

Date Collected: 10/03/16 08:15

Matrix: Water

Date Received: 10/04/16 00:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	323855	10/05/16 13:31	RRS	TAL BUF
Total/NA	Prep	3535A			109819	10/05/16 11:16	ERJ	TAL BUR
Total/NA	Analysis	522		1	109859	10/06/16 14:36	P1M	TAL BUR
Total/NA	Prep	3005A			323660	10/04/16 08:55	MVZ	TAL BUF
Total/NA	Analysis	6010		1	324737	10/05/16 16:04	TRB	TAL BUF
Total/NA	Analysis	300.0		5	323818	10/05/16 12:02	CAV	TAL BUF
Total/NA	Analysis	300.0		1	324265	10/07/16 06:46	CAV	TAL BUF
Total/NA	Prep	Distill/Ammonia			323735	10/04/16 12:24	CEA	TAL BUF
Total/NA	Analysis	350.1		1	323762	10/04/16 13:54	CEA	TAL BUF
Total/NA	Analysis	353.2		1	323809	10/04/16 17:23	ELR	TAL BUF
Total/NA	Analysis	9040C		1	324114	10/05/16 14:17	LED	TAL BUF
Total/NA	Analysis	9060A		1	324190	10/05/16 18:14	EKB	TAL BUF
Total/NA	Analysis	SM 2320B		1	324113	10/05/16 14:52	LED	TAL BUF
Total/NA	Analysis	SM 4500 P E		1	323751	10/04/16 09:30	KRT	TAL BUF

Client Sample ID: MW-551-20161003

Lab Sample ID: 480-106923-2

Date Collected: 10/03/16 07:45

Matrix: Water

Date Received: 10/04/16 00:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	323720	10/04/16 23:40	JWG	TAL BUF

Client Sample ID: MW-552-20161003

Lab Sample ID: 480-106923-3

Date Collected: 10/03/16 08:55

Matrix: Water

Date Received: 10/04/16 00:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	323720	10/05/16 00:04	JWG	TAL BUF
Total/NA	Prep	3535A			109819	10/05/16 11:16	ERJ	TAL BUR
Total/NA	Analysis	522		1	109859	10/06/16 14:55	P1M	TAL BUR
Total/NA	Prep	3005A			323660	10/04/16 08:55	MVZ	TAL BUF
Total/NA	Analysis	6010		1	324737	10/05/16 16:18	TRB	TAL BUF
Total/NA	Analysis	300.0		5	323818	10/05/16 12:10	CAV	TAL BUF
Total/NA	Analysis	300.0		1	324265	10/07/16 06:54	CAV	TAL BUF
Total/NA	Prep	Distill/Ammonia			323735	10/04/16 12:24	CEA	TAL BUF
Total/NA	Analysis	350.1		1	323762	10/04/16 13:54	CEA	TAL BUF
Total/NA	Analysis	353.2		1	323809	10/04/16 17:26	ELR	TAL BUF
Total/NA	Analysis	9040C		1	324114	10/05/16 14:20	LED	TAL BUF
Total/NA	Analysis	9060A		1	324190	10/05/16 18:43	EKB	TAL BUF
Total/NA	Analysis	SM 2320B		1	324113	10/05/16 15:00	LED	TAL BUF
Total/NA	Analysis	SM 4500 P E		1	323751	10/04/16 09:30	KRT	TAL BUF

TestAmerica Buffalo

Lab Chronicle

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-106923-1

Client Sample ID: MW-553-20161003

Lab Sample ID: 480-106923-4

Date Collected: 10/03/16 09:50

Matrix: Water

Date Received: 10/04/16 00:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	323720	10/05/16 00:28	JWG	TAL BUF
Total/NA	Prep	3005A			323660	10/04/16 08:55	MVZ	TAL BUF
Total/NA	Analysis	6010		1	324737	10/05/16 16:22	TRB	TAL BUF
Total/NA	Analysis	300.0		10	323818	10/05/16 12:18	CAV	TAL BUF
Total/NA	Analysis	300.0		1	324265	10/07/16 07:02	CAV	TAL BUF
Total/NA	Prep	Distill/Ammonia			323735	10/04/16 12:24	CEA	TAL BUF
Total/NA	Analysis	350.1		1	323762	10/04/16 13:55	CEA	TAL BUF
Total/NA	Analysis	353.2		1	323809	10/04/16 17:27	ELR	TAL BUF
Total/NA	Analysis	9040C		1	324114	10/05/16 14:22	LED	TAL BUF
Total/NA	Analysis	9060A		1	324190	10/05/16 19:39	EKB	TAL BUF
Total/NA	Analysis	SM 2320B		1	324113	10/05/16 15:09	LED	TAL BUF
Total/NA	Analysis	SM 4500 P E		1	323751	10/04/16 09:30	KRT	TAL BUF

Client Sample ID: MW-562-20161003

Lab Sample ID: 480-106923-5

Date Collected: 10/03/16 10:45

Matrix: Water

Date Received: 10/04/16 00:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		4	323720	10/05/16 00:51	JWG	TAL BUF
Total/NA	Prep	3005A			323660	10/04/16 08:55	MVZ	TAL BUF
Total/NA	Analysis	6010		1	324737	10/05/16 16:25	TRB	TAL BUF
Total/NA	Analysis	300.0		10	323818	10/05/16 12:26	CAV	TAL BUF
Total/NA	Analysis	300.0		1	324265	10/07/16 07:10	CAV	TAL BUF
Total/NA	Prep	Distill/Ammonia			323735	10/04/16 12:24	CEA	TAL BUF
Total/NA	Analysis	350.1		1	323762	10/04/16 13:56	CEA	TAL BUF
Total/NA	Analysis	353.2		1	323809	10/04/16 17:31	ELR	TAL BUF
Total/NA	Analysis	9040C		1	324114	10/05/16 14:25	LED	TAL BUF
Total/NA	Analysis	9060A		20	324587	10/07/16 18:50	EKB	TAL BUF
Total/NA	Analysis	SM 2320B		1	324113	10/05/16 15:18	LED	TAL BUF
Total/NA	Analysis	SM 4500 P E		5	323751	10/04/16 09:30	KRT	TAL BUF

Client Sample ID: MW-265S-20161003

Lab Sample ID: 480-106923-6

Date Collected: 10/03/16 11:35

Matrix: Water

Date Received: 10/04/16 00:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	323720	10/05/16 01:15	JWG	TAL BUF

Lab Chronicle

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-106923-1

Client Sample ID: MW-265M-20161003

Lab Sample ID: 480-106923-7

Date Collected: 10/03/16 12:05

Matrix: Water

Date Received: 10/04/16 00:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		5	323720	10/05/16 01:39	JWG	TAL BUF
Total/NA	Prep	3535A			109819	10/05/16 11:16	ERJ	TAL BUR
Total/NA	Analysis	522		1	109859	10/06/16 15:14	P1M	TAL BUR
Total/NA	Prep	3005A			323660	10/04/16 08:55	MVZ	TAL BUF
Total/NA	Analysis	6010		1	324737	10/05/16 16:33	TRB	TAL BUF
Total/NA	Analysis	300.0		20	323818	10/05/16 12:34	CAV	TAL BUF
Total/NA	Analysis	300.0		1	324265	10/07/16 07:18	CAV	TAL BUF
Total/NA	Prep	Distill/Ammonia			323735	10/04/16 12:24	CEA	TAL BUF
Total/NA	Analysis	350.1		1	323762	10/04/16 13:57	CEA	TAL BUF
Total/NA	Analysis	353.2		1	323809	10/04/16 17:33	ELR	TAL BUF
Total/NA	Analysis	9040C		1	324114	10/05/16 14:27	LED	TAL BUF
Total/NA	Analysis	9060A		20	324587	10/07/16 19:17	EKB	TAL BUF
Total/NA	Analysis	SM 2320B		1	324113	10/05/16 15:54	LED	TAL BUF
Total/NA	Analysis	SM 4500 P E		1	323751	10/04/16 09:30	KRT	TAL BUF

Client Sample ID: MW-265D-20161003

Lab Sample ID: 480-106923-8

Date Collected: 10/03/16 12:45

Matrix: Water

Date Received: 10/04/16 00:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	323720	10/05/16 02:03	JWG	TAL BUF

Client Sample ID: DUP1-20161003

Lab Sample ID: 480-106923-9

Date Collected: 10/03/16 00:00

Matrix: Water

Date Received: 10/04/16 00:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	323720	10/05/16 02:27	JWG	TAL BUF
Total/NA	Prep	3535A			109819	10/05/16 11:16	ERJ	TAL BUR
Total/NA	Analysis	522		1	109859	10/06/16 15:33	P1M	TAL BUR

Client Sample ID: TRIP BLANKS

Lab Sample ID: 480-106923-10

Date Collected: 10/03/16 00:00

Matrix: Water

Date Received: 10/04/16 00:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	323673	10/04/16 19:09	RRS	TAL BUF

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

TAL BUR = TestAmerica Burlington, 30 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

Certification Summary

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-106923-1

Laboratory: TestAmerica Buffalo

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Arkansas DEQ	State Program	6	88-0686	07-06-17
California	State Program	9	1169CA	09-30-17
Connecticut	State Program	1	PH-0568	09-30-18
Florida	NELAP	4	E87672	06-30-17
Georgia	State Program	4	N/A	03-31-17
Georgia	State Program	4	956	03-31-17
Illinois	NELAP	5	200003	09-30-16 *
Iowa	State Program	7	374	03-01-17
Kansas	NELAP	7	E-10187	10-31-16
Kentucky (DW)	State Program	4	90029	12-31-16
Kentucky (UST)	State Program	4	30	03-31-17
Kentucky (WW)	State Program	4	90029	12-31-16
Louisiana	NELAP	6	02031	06-30-17
Maine	State Program	1	NY00044	12-04-16
Maryland	State Program	3	294	03-31-17
Massachusetts	State Program	1	M-NY044	06-30-17
Michigan	State Program	5	9937	03-31-17
Minnesota	NELAP	5	036-999-337	12-31-16
New Hampshire	NELAP Primary AB	1	2973	09-11-17
New Hampshire	NELAP Secondary AB	1	2337	11-17-16
New Jersey	NELAP	2	NY455	06-30-17
New York	NELAP	2	10026	03-31-17
North Dakota	State Program	8	R-176	03-31-17
Oklahoma	State Program	6	9421	08-31-17
Oregon	NELAP	10	NY200003	06-09-17
Pennsylvania	NELAP	3	68-00281	07-31-17
Rhode Island	State Program	1	LAO00328	12-30-16
Tennessee	State Program	4	TN02970	03-31-17
Texas	NELAP	6	T104704412-15-6	07-31-17
USDA	Federal		P330-11-00386	11-26-17
Virginia	NELAP	3	460185	09-14-17
Washington	State Program	10	C784	02-10-17
West Virginia DEP	State Program	3	252	09-30-16 *
Wisconsin	State Program	5	998310390	08-31-17

Laboratory: TestAmerica Burlington

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-0751	09-30-17
DE Haz. Subst. Cleanup Act (HSCA)	State Program	3	NA	02-02-17
Florida	NELAP	4	E87467	06-30-17
L-A-B	DoD ELAP		L2336	02-26-17
Maine	State Program	1	VT00008	04-17-17
Minnesota	NELAP	5	050-999-436	12-31-16
New Hampshire	NELAP	1	2006	12-18-16
New Jersey	NELAP	2	VT972	06-30-17
New York	NELAP	2	10391	04-01-17
Pennsylvania	NELAP	3	68-00489	04-30-17
Rhode Island	State Program	1	LAO00298	12-30-16

* Certification renewal pending - certification considered valid.

Certification Summary

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-106923-1

Laboratory: TestAmerica Burlington (Continued)

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

Authority	Program	EPA Region	Certification ID	Expiration Date
US Fish & Wildlife	Federal		LE-058448-0	10-31-16
USDA	Federal		P330-11-00093	10-28-16
Vermont	State Program	1	VT-4000	12-31-16
Virginia	NELAP	3	460209	12-14-16

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

Method Summary

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-106923-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds (GC/MS)	MA DEP	TAL BUF
522	1,4 Dioxane (GC/MS SIM)	EPA	TAL BUR
6010	Metals (ICP)	SW846	TAL BUF
300.0	Anions, Ion Chromatography	MCAWW	TAL BUF
350.1	Nitrogen, Ammonia	MCAWW	TAL BUF
353.2	Nitrate	EPA	TAL BUF
9040C	pH	SW846	TAL BUF
9060A	Organic Carbon, Total (TOC)	SW846	TAL BUF
SM 2320B	Alkalinity	SM	TAL BUF
SM 4500 P E	Orthophosphate	SM	TAL BUF

Protocol References:

EPA = US Environmental Protection Agency

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.

SM = "Standard Methods For The Examination Of Water And Wastewater",

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

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

TAL BUR = TestAmerica Burlington, 30 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

Sample Summary

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-106923-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-106923-1	MW-261S-20161003	Water	10/03/16 08:15	10/04/16 00:50
480-106923-2	MW-551-20161003	Water	10/03/16 07:45	10/04/16 00:50
480-106923-3	MW-552-20161003	Water	10/03/16 08:55	10/04/16 00:50
480-106923-4	MW-553-20161003	Water	10/03/16 09:50	10/04/16 00:50
480-106923-5	MW-562-20161003	Water	10/03/16 10:45	10/04/16 00:50
480-106923-6	MW-265S-20161003	Water	10/03/16 11:35	10/04/16 00:50
480-106923-7	MW-265M-20161003	Water	10/03/16 12:05	10/04/16 00:50
480-106923-8	MW-265D-20161003	Water	10/03/16 12:45	10/04/16 00:50
480-106923-9	DUP1-20161003	Water	10/03/16 00:00	10/04/16 00:50
480-106923-10	TRIP BLANKS	Water	10/03/16 00:00	10/04/16 00:50

Login Sample Receipt Checklist

Client: Innovative Engineering Solutions, Inc

Job Number: 480-106923-1

Login Number: 106923

List Source: TestAmerica Buffalo

List Number: 1

Creator: Williams, Christopher S

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
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 (Excluding tests with immediate HTs)..	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	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	IESI
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

Login Sample Receipt Checklist

Client: Innovative Engineering Solutions, Inc

Job Number: 480-106923-1

Login Number: 106923

List Number: 2

Creator: Lavigne, Scott M

List Source: TestAmerica Burlington

List Creation: 10/04/16 02:11 PM

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	True	Seal present with no number.
Sample custody seals, if present, are 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	3.2°C
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 containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	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.	N/A	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Chain of Custody Record

TestAmerica Boston
240 Bear Hill Road -- Suite 104
Waltham MA 02451
Phone: (781) 466-6900 Fax: (781) 466-6901

TestAmerica Westfield
501 Southampton Road
Westfield MA 01085
Phone: (413) 572-4000 Fax: (303) 467-7247

Client Information:
Client Contact: *Vicki Parry*
Company: *Innovative Engineering Solutions Inc*
Address: *25 Spring St*
City: *Wolpole*
State and Zip: *MA 02081*
Client's Phone: *508-668-0033*
Client's Contact Email: *v.parry@TESTSOL.com*
Client's Project Name/Number: *Residential Windows RA-008*
Sample Collection Site Name & Location: *Wolpole MA*

Sample Information:
Sample Collector's Name (Please Print Neatly): *Dawn Scott*
Sample Collector's Phone: *508-333-4094-3196*
Due Date Requested: *10/10/16*
Turnaround Time (TAT) Requested (business days): *5 days*
Quote # or Project #: *RA-008*
PO #: *RA-008*
WO #:
PWS ID #:

Lab Information:
Lab No: *37049*
Page: *1* of *1*
Job #:
Lab Name:
E-Mail:
Lab PM:
480-106923 COC

Analysis Requested:
A - Hydrochloric Acid
B - Sodium Hydroxide
C - Zinc Acetate
D - Nitric Acid
E - Sodium Bisulfite
F - Methanol
H - Ascorbic Acid
J - Deionized Water
M - Hexane
N - No Preservative
P - Sodium Sulfate
Q - Sodium Sulfite
R - Sodium Thiosulfate
S - Sulfuric Acid
Z - other (specify)

Regulatory Programs:
MCP GW/IS1
RCP CT RSR
DEP Form EDD Required
eDEP Filing NPDES

Preservation Codes:
SUBCONTRACT POLICY: advance to permit Test America to use certified instructions to the contrary, or subcontract tabs, without specify which sub-contract any additional notification tabs are or are not to be made by us, as necessary to fulfill your work order.

Sample Disposal Requirements (A fee may be assessed if samples are retained longer than 1 month):
 Return To Client Disposal By Lab Archive For _____ Months

NOTE!! ALL SAMPLES MUST BE TRANSPORTED IN A COOLER, ON ICE !!

Received by: *[Signature]* Date/Time: *10-3-16 1400*
Received by: *[Signature]* Date/Time: *10-4-16 0050*
Received by: *[Signature]* Date/Time: _____

Company: *[Signature]* Company: *[Signature]* Company: *[Signature]*

Cooler Temperature(s) °C and Other Remarks: *1.7*



TestAmerica Boston
240 Bear Hill Road -- Suite 104
Waltham MA 02451
Phone: (781) 466-6900 Fax: (781) 466-6901

TestAmerica Westfield
501 Southampton Road
Westfield MA 01085
Phone: (413) 572-4000 Fax: (303) 467-7247

Chain of Custody Record

Lab COC Barcode Label: **37049** Page: **1** of **1** Job #: **522-14-ProdM/C**
To Burlington

Client Information:
 Client Contact: **Vicki Perrigo**
 Company: **Environmental Engineering Solutions Inc**
 Address: **25 Spring St**
 City: **Waltham**
 State and Zip: **MA 02081**
 Client's Phone: **508-668-0033**
 Client's Contact Email: **v.perrigo@IESIonline.com**
 Client's Project Name/Number: **ProdM/C**
 Sample Collection Site Name & Location: **Waltham MA**

Sample Identification

Sample ID #	Sample Collection Date (MM/DD/YY)	Sample Collection Time (24 Hour Clock)	Sample Type: C=Comp G=Grab	Matrix Type **	Analysis Requested	Total Number of Containers (enter total for each line)
MA-2613-20161003	10/31/16	0815	C	3	58-MOD Bioxide	11
MA-551-20161003	10/31/16	0745	C	3	6010 MCP	3
MA-559-20161003	10/31/16	0835	C	3	58-MOD Bioxide	11
MA-553-20161003	10/31/16	0930	C	3	6010 MCP	9
MA-562-20161003	10/31/16	1045	C	3	58-MOD Bioxide	9
MA-2653-20161003	10/31/16	1135	C	3	6010 MCP	3
MA-2654-20161003	10/31/16	1205	C	3	58-MOD Bioxide	11
MA-2655-20161003	10/31/16	1245	C	3	6010 MCP	9
Dup1 - 20161003	10/31/16	-	C	3	58-MOD Bioxide	3
Dup2 - 20161003 Trip Blanks						

Special Instructions & Remarks:
 480-106923 Chain of Custody

Sample Disposal Requirements (A):
 Return To Client Disposal By Lab Archive For _____ Months
NOTE!! ALL SAMPLES MUST BE TRANSPORTED IN A COOLER, ON ICE !!

Received by: **[Signature]** Date/Time: **10/31/16 1400** Company: **IESI**
 Received by: **[Signature]** Date/Time: **10/4/16 1030** Company: **IESI**
 Received by: **[Signature]** Date/Time: **10-3-16 1000** Company: **IESI**

Cooler Temperature(s) °C and Other Remarks:



- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15

EVIDENCE

TRCK: 4258 8390 8053

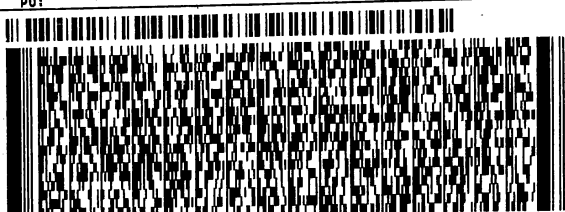
<p>ORIGIN ID: BXCA (781) 466-6900 PAUL HOBART TESTAMERICA 240 BEAR HILL ROAD SUITE 104 WALTHAM, MA 02451 UNITED STATES US</p>	<p>SHIP DATE: 03OCT16 ACTWGT: 27.6 LB CAD: 590687/CAFE2912</p>
---	--

BILL RECEIPT


TO **SAMPLE RECEIVING**
TESTAMERICA BURLINGTON
30 COMMUNITY DRIVE
SUITE 11
SOUTH BURLINGTON VT 05403

(802) 680-1990 REF: DEPT:

INU: PO:



FedEx
Express



J151315081301 BY

TRK# 4258 8390 8053 **TUE - 04 OCT 3:00P**
 0201 **STANDARD OVERNIGHT**

NC BTVA **05403**
 VT-US **BTVA**

Part # 156148V-434 RIT2 02/17



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Buffalo

10 Hazelwood Drive

Amherst, NY 14228-2298

Tel: (716)691-2600

TestAmerica Job ID: 480-107013-1

Client Project/Site: IDS Wayland

For:

Innovative Engineering Solutions, Inc

25 Spring Street

Walpole, Massachusetts 02081

Attn: Vicki Pariyar



Authorized for release by:

10/12/2016 6:10:04 PM

Denise Giglia, Project Management Assistant II

denise.giglia@testamericainc.com

Designee for

Becky Mason, Project Manager II

(413)572-4000

becky.mason@testamericainc.com

LINKS

Review your project
results through

TotalAccess

Have a Question?



Visit us at:

www.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.

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15



Table of Contents

Cover Page	1
Table of Contents	2
Definitions/Glossary	3
Case Narrative	4
Detection Summary	7
Client Sample Results	9
Surrogate Summary	28
QC Sample Results	29
QC Association Summary	47
Lab Chronicle	51
Certification Summary	54
Method Summary	56
Sample Summary	57
Receipt Checklists	58
Chain of Custody	60

Definitions/Glossary

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-107013-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.

GC/MS Semi VOA

Qualifier	Qualifier Description
X	Surrogate is outside control limits
F1	MS and/or MSD Recovery is outside acceptance limits.

General Chemistry

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-107013-1

Job ID: 480-107013-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative 480-107013-1

Receipt

The samples were received on 10/5/2016 1:15 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 1.6° C and 1.8° C.

GC/MS VOA

Method 8260C: With the exception of diluted samples, per question G on the MassDEP Analytical Protocol Certification Form, TestAmerica's routine reporting limits do not achieve the CAM reporting limits specified in this CAM protocol for 1,2-dibromo-3-chloropropane, Carbon Disulfide, Isopropyl Ether, Naphthalene, tert-Amyl Methyl Ether and Tetrahydrofuran.

Method 8260C: The following sample was diluted to bring the concentration of target analytes within the calibration range: MW-267S-20161004 (480-107013-1). Elevated reporting limits (RLs) are provided.

Method 8260C: The following volatiles samples were diluted due to foaming at the time of purging during the original sample analysis: MW-268S-20161004 (480-107013-3), MW-268M-20161004 (480-107013-4) and MW-268D-20161004 (480-107013-5). Elevated reporting limits (RLs) are provided.

Method 8260C: The following samples were collected in properly preserved vials for analysis of volatile organic compounds (VOCs). However, the pH was outside the required criteria when verified by the laboratory, and corrective action was not possible: MW-268M-20161004 (480-107013-4), MW-268D-20161004 (480-107013-5), REW-1-20161004 (480-107013-6) and DUP2-20161004 (480-107013-9). The sample was analyzed within 7 days per EPA recommendation.

Method 8260C: The continuing calibration verification (CCV) associated with batch 480-323990 recovered outside the MCP control limit but <40% for Tetrahydrofuran, Naphthalene and 1,4-Dioxane. MCP protocol allows for 20% of the target compounds to be outside the 20% difference but not over 40% difference. The following samples are impacted: MW-267S-20161004 (480-107013-1), MW-267M-20161004 (480-107013-2), MW-268S-20161004 (480-107013-3), MW-268M-20161004 (480-107013-4), MW-268D-20161004 (480-107013-5), REW-1-20161004 (480-107013-6), REW-5-20161004 (480-107013-8) and TRIP BLANKS (480-107013-10).

Method 8260C: The following sample was collected in properly preserved vials for analysis of volatile organic compounds (VOCs). However, the pH was outside the required criteria when verified by the laboratory, and corrective action was not possible: DUP2-20161004 (480-107013-9). The sample was analyzed within 7 days per EPA recommendation.

Method 8260C: The continuing calibration verification (CCV) for 1,4-Dioxane associated with batch 480-324093 recovered outside the MCP control limit criteria. MCP protocol allows for 20% of the target compounds to be outside the 20% difference but not over 40% difference. Difficult analytes are allowed to be outside the 20% difference but not over 60% difference. The following samples were affected: REW-4-20161004 (480-107013-7) and DUP2-20161004 (480-107013-9).

Method 8260C: The laboratory control sample (LCS) for batch 480-324093 exceeded control limits for the following analytes: 1,4-Dioxane. MCP protocol allows for 10% of the target compounds to be outside of the limits provided the recoveries are over 10%. The following samples were affected: REW-4-20161004 (480-107013-7) and DUP2-20161004 (480-107013-9).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA

Method 522: Surrogate recovery for the following sample was outside control limits: MW-268S-20161004 (480-107013-3). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 522: The matrix spike duplicate (MSD) recoveries and precision for preparation batch 200-109914 and analytical batch 200-109928 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample(LCS) precision was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Case Narrative

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-107013-1

Job ID: 480-107013-1 (Continued)

Laboratory: TestAmerica Buffalo (Continued)

HPLC/IC

Method 300.0: The following samples were diluted due to the nature of the sample matrix: MW-267S-20161004 (480-107013-1), REW-1-20161004 (480-107013-6) and REW-4-20161004 (480-107013-7). Elevated reporting limits (RLs) are provided.

Method 300.0: The following samples were diluted due to the nature of the sample matrix: MW-268S-20161004 (480-107013-3) and MW-268M-20161004 (480-107013-4). Elevated reporting limits (RLs) are provided.

Method 300.0: The following sample was diluted due to the nature of the sample matrix: MW-268S-20161004 (480-107013-3). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals

Method 6010: At the request of the client, an abbreviated/modified MCP compound list was reported for this job.

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry

Method 350.1: The following samples was received with insufficient preservation: MW-268S-20161004 (480-107013-3) and MW-268M-20161004 (480-107013-4). Additional preservative was added by the laboratory to bring the samples within the method required pH range for analysis.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

MassDEP Analytical Protocol Certification Form

Laboratory Name: **TestAmerica Buffalo** Project #: **480-107013**

Project Location: **IDS Wayland** RTN:

This form provides certifications for the following data set: list Laboratory Sample ID Number(s):
480-107013 [1-10]

Matrices: Groundwater/Surface Water Soil/Sediment Drinking Water Air Other:

CAM Protocols (check all that apply below):

8260 VOC CAM II A <input checked="" type="checkbox"/>	7470/7471 Hg CAM III B <input type="checkbox"/>	Mass DEP VPH CAM IV A <input type="checkbox"/>	8081 Pesticides CAM V B <input type="checkbox"/>	7196 Hex Cr CAM VI B <input type="checkbox"/>	Mass DEP APH CAM IX A <input type="checkbox"/>
8270 SVOC CAM II B <input type="checkbox"/>	7010 Metals CAM III C <input type="checkbox"/>	Mass DEP EPH CAM IV B <input type="checkbox"/>	8151 Herbicides CAM V C <input type="checkbox"/>	8330 Explosives CAM VIII A <input type="checkbox"/>	TO-15 VOC CAM IX B <input type="checkbox"/>
6010 Metals CAM III A <input checked="" type="checkbox"/>	6020 Metals CAM III D <input type="checkbox"/>	8082 PCB CAM V A <input type="checkbox"/>	9014 Total Cyanide/PAC CAM VI A <input type="checkbox"/>	6860 Perchlorate CAM VIII B <input type="checkbox"/>	

Affirmative Responses to Questions A through F are 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 time.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
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?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
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"?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
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). b. APH and TO-15 Methods only: Was the complete analyte list reported for each method?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No
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)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

Responses to Questions G, H and I below are required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No ¹
----------	---	--

Data User Note: 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

H	Were all QC performance standards specified in the CAM protocol(s) achieved?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No ¹
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s) ?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No ¹

¹ All negative responses must be addressed in an attached laboratory narrative.

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, is accurate and complete.

Signature: <u>Denise L Giglia</u>	Position: <u>Project Manager Assistant II</u>
Printed Name: <u>Denise L. Giglia</u>	Date: <u>10/12/16 16:33</u>

Detection Summary

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-107013-1

Client Sample ID: MW-267S-20161004

Lab Sample ID: 480-107013-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	380		40		ug/L	4		8260C	Total/NA
cis-1,2-Dichloroethene	310		4.0		ug/L	4		8260C	Total/NA
Toluene	100		4.0		ug/L	4		8260C	Total/NA
Vinyl chloride	21		4.0		ug/L	4		8260C	Total/NA
1,4-Dioxane	6.7		0.20		ug/L	1		522	Total/NA
Iron	360		0.050		mg/L	1		6010	Total/NA
Chloride	33		5.0		mg/L	10		300.0	Total/NA
Ammonia	0.22		0.20		mg/L	1		350.1	Total/NA
TOC Result 1	2100		40		mg/L	40		9060A	Total/NA
TOC Result 2	2100		40		mg/L	40		9060A	Total/NA
Total Organic Carbon - Duplicates	2100		40		mg/L	40		9060A	Total/NA
Alkalinity, Total	500		5.0		mg/L	1		SM 2320B	Total/NA
ortho-Phosphate	0.19		0.020		mg/L	1		SM 4500 P E	Total/NA

Client Sample ID: MW-267M-20161004

Lab Sample ID: 480-107013-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	3.8		0.20		ug/L	1		522	Total/NA

Client Sample ID: MW-268S-20161004

Lab Sample ID: 480-107013-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	0.54		0.20		ug/L	1		522	Total/NA
Iron	1.6		0.050		mg/L	1		6010	Total/NA
Chloride	26		25		mg/L	50		300.0	Total/NA
Ammonia	0.72		0.20		mg/L	1		350.1	Total/NA
TOC Result 1	57000		1000		mg/L	1000		9060A	Total/NA
TOC Result 2	59000		1000		mg/L	1000		9060A	Total/NA
Total Organic Carbon - Duplicates	58000		1000		mg/L	1000		9060A	Total/NA
Alkalinity, Total	10000		5.0		mg/L	1		SM 2320B	Total/NA
ortho-Phosphate	0.049		0.020		mg/L	1		SM 4500 P E	Total/NA

Client Sample ID: MW-268M-20161004

Lab Sample ID: 480-107013-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	200		200		ug/L	20		8260C	Total/NA
cis-1,2-Dichloroethene	440		20		ug/L	20		8260C	Total/NA
Vinyl chloride	47		20		ug/L	20		8260C	Total/NA
1,4-Dioxane	6.7	F1	0.20		ug/L	1		522	Total/NA
Iron	2.1		0.050		mg/L	1		6010	Total/NA
Chloride	38	F1	25		mg/L	50		300.0	Total/NA
Ammonia	0.42		0.20		mg/L	1		350.1	Total/NA
TOC Result 1	15000		500		mg/L	500		9060A	Total/NA
TOC Result 2	16000		500		mg/L	500		9060A	Total/NA
Total Organic Carbon - Duplicates	15000		500		mg/L	500		9060A	Total/NA
Alkalinity, Total	11000		5.0		mg/L	1		SM 2320B	Total/NA

Client Sample ID: MW-268D-20161004

Lab Sample ID: 480-107013-5

No Detections.

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

Detection Summary

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-107013-1

Client Sample ID: REW-1-20161004

Lab Sample ID: 480-107013-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	1.1		1.0		ug/L	1		8260C	Total/NA
m-Xylene & p-Xylene	2.4		2.0		ug/L	1		8260C	Total/NA
o-Xylene	1.4		1.0		ug/L	1		8260C	Total/NA
Iron	37		0.050		mg/L	1		6010	Total/NA
Chloride	13		2.5		mg/L	5		300.0	Total/NA
Sulfate	13		10		mg/L	5		300.0	Total/NA
Ammonia	0.50		0.20		mg/L	1		350.1	Total/NA
TOC Result 1	1.1		1.0		mg/L	1		9060A	Total/NA
TOC Result 2	1.2		1.0		mg/L	1		9060A	Total/NA
Total Organic Carbon - Duplicates	1.1		1.0		mg/L	1		9060A	Total/NA
Alkalinity, Total	280		5.0		mg/L	1		SM 2320B	Total/NA
ortho-Phosphate	0.19		0.020		mg/L	1		SM 4500 P E	Total/NA

Client Sample ID: REW-4-20161004

Lab Sample ID: 480-107013-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	5.1		1.0		ug/L	1		8260C	Total/NA
m-Xylene & p-Xylene	2.9		2.0		ug/L	1		8260C	Total/NA
Vinyl chloride	1.4		1.0		ug/L	1		8260C	Total/NA
Iron	13		0.050		mg/L	1		6010	Total/NA
Chloride	9.2		2.5		mg/L	5		300.0	Total/NA
Ammonia	6.2		1.0		mg/L	5		350.1	Total/NA
TOC Result 1	2.3		1.0		mg/L	1		9060A	Total/NA
TOC Result 2	2.4		1.0		mg/L	1		9060A	Total/NA
Total Organic Carbon - Duplicates	2.3		1.0		mg/L	1		9060A	Total/NA
Alkalinity, Total	270		5.0		mg/L	1		SM 2320B	Total/NA
ortho-Phosphate	0.75		0.020		mg/L	1		SM 4500 P E	Total/NA

Client Sample ID: REW-5-20161004

Lab Sample ID: 480-107013-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	2.3		1.0		ug/L	1		8260C	Total/NA
Iron	47		0.050		mg/L	1		6010	Total/NA
Chloride	3.9		0.50		mg/L	1		300.0	Total/NA
Ammonia	2.5		0.40		mg/L	2		350.1	Total/NA
Alkalinity, Total	100		5.0		mg/L	1		SM 2320B	Total/NA
ortho-Phosphate	0.12		0.020		mg/L	1		SM 4500 P E	Total/NA

Client Sample ID: DUP2-20161004

Lab Sample ID: 480-107013-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	37		10		ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	3.9		1.0		ug/L	1		8260C	Total/NA
Toluene	1.8		1.0		ug/L	1		8260C	Total/NA
Trichloroethene	1.4		1.0		ug/L	1		8260C	Total/NA

Client Sample ID: TRIP BLANKS

Lab Sample ID: 480-107013-10

No Detections.

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

Client Sample Results

Client: Innovative Engineering Solutions, Inc
 Project/Site: IDS Wayland

TestAmerica Job ID: 480-107013-1

Client Sample ID: MW-267S-20161004

Lab Sample ID: 480-107013-1

Date Collected: 10/04/16 13:30

Matrix: Water

Date Received: 10/05/16 01:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		4.0		ug/L			10/06/16 02:25	4
1,1,1-Trichloroethane	ND		4.0		ug/L			10/06/16 02:25	4
1,1,2,2-Tetrachloroethane	ND		2.0		ug/L			10/06/16 02:25	4
1,1,2-Trichloroethane	ND		4.0		ug/L			10/06/16 02:25	4
1,1-Dichloroethane	ND		4.0		ug/L			10/06/16 02:25	4
1,1-Dichloroethene	ND		4.0		ug/L			10/06/16 02:25	4
1,1-Dichloropropene	ND		4.0		ug/L			10/06/16 02:25	4
1,2,3-Trichlorobenzene	ND		4.0		ug/L			10/06/16 02:25	4
1,2,3-Trichloropropane	ND		4.0		ug/L			10/06/16 02:25	4
1,2,4-Trichlorobenzene	ND		4.0		ug/L			10/06/16 02:25	4
1,2,4-Trimethylbenzene	ND		4.0		ug/L			10/06/16 02:25	4
1,2-Dibromo-3-Chloropropane	ND		20		ug/L			10/06/16 02:25	4
1,2-Dichlorobenzene	ND		4.0		ug/L			10/06/16 02:25	4
1,2-Dichloroethane	ND		4.0		ug/L			10/06/16 02:25	4
1,2-Dichloropropane	ND		4.0		ug/L			10/06/16 02:25	4
1,3,5-Trimethylbenzene	ND		4.0		ug/L			10/06/16 02:25	4
1,3-Dichlorobenzene	ND		4.0		ug/L			10/06/16 02:25	4
1,3-Dichloropropane	ND		4.0		ug/L			10/06/16 02:25	4
1,4-Dichlorobenzene	ND		4.0		ug/L			10/06/16 02:25	4
1,4-Dioxane	ND		200		ug/L			10/06/16 02:25	4
2,2-Dichloropropane	ND		4.0		ug/L			10/06/16 02:25	4
2-Butanone (MEK)	380		40		ug/L			10/06/16 02:25	4
2-Chlorotoluene	ND		4.0		ug/L			10/06/16 02:25	4
2-Hexanone	ND		40		ug/L			10/06/16 02:25	4
4-Chlorotoluene	ND		4.0		ug/L			10/06/16 02:25	4
4-Isopropyltoluene	ND		4.0		ug/L			10/06/16 02:25	4
4-Methyl-2-pentanone (MIBK)	ND		40		ug/L			10/06/16 02:25	4
Acetone	ND		200		ug/L			10/06/16 02:25	4
Benzene	ND		4.0		ug/L			10/06/16 02:25	4
Bromobenzene	ND		4.0		ug/L			10/06/16 02:25	4
Bromoform	ND		4.0		ug/L			10/06/16 02:25	4
Bromomethane	ND		8.0		ug/L			10/06/16 02:25	4
Carbon disulfide	ND		40		ug/L			10/06/16 02:25	4
Carbon tetrachloride	ND		4.0		ug/L			10/06/16 02:25	4
Chlorobenzene	ND		4.0		ug/L			10/06/16 02:25	4
Chlorobromomethane	ND		4.0		ug/L			10/06/16 02:25	4
Chlorodibromomethane	ND		2.0		ug/L			10/06/16 02:25	4
Chloroethane	ND		8.0		ug/L			10/06/16 02:25	4
Chloroform	ND		4.0		ug/L			10/06/16 02:25	4
Chloromethane	ND		8.0		ug/L			10/06/16 02:25	4
cis-1,2-Dichloroethene	310		4.0		ug/L			10/06/16 02:25	4
cis-1,3-Dichloropropene	ND		1.6		ug/L			10/06/16 02:25	4
Dichlorobromomethane	ND		2.0		ug/L			10/06/16 02:25	4
Dichlorodifluoromethane	ND		4.0		ug/L			10/06/16 02:25	4
Ethyl ether	ND		4.0		ug/L			10/06/16 02:25	4
Ethylbenzene	ND		4.0		ug/L			10/06/16 02:25	4
Ethylene Dibromide	ND		4.0		ug/L			10/06/16 02:25	4
Hexachlorobutadiene	ND		1.6		ug/L			10/06/16 02:25	4
Isopropyl ether	ND		40		ug/L			10/06/16 02:25	4

TestAmerica Buffalo

Client Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-107013-1

Client Sample ID: MW-267S-20161004

Lab Sample ID: 480-107013-1

Date Collected: 10/04/16 13:30

Matrix: Water

Date Received: 10/05/16 01:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	ND		4.0		ug/L			10/06/16 02:25	4
Methyl tert-butyl ether	ND		4.0		ug/L			10/06/16 02:25	4
Methylene Chloride	ND		4.0		ug/L			10/06/16 02:25	4
m-Xylene & p-Xylene	ND		8.0		ug/L			10/06/16 02:25	4
Naphthalene	ND		20		ug/L			10/06/16 02:25	4
n-Butylbenzene	ND		4.0		ug/L			10/06/16 02:25	4
N-Propylbenzene	ND		4.0		ug/L			10/06/16 02:25	4
o-Xylene	ND		4.0		ug/L			10/06/16 02:25	4
sec-Butylbenzene	ND		4.0		ug/L			10/06/16 02:25	4
Styrene	ND		4.0		ug/L			10/06/16 02:25	4
Tert-amyl methyl ether	ND		20		ug/L			10/06/16 02:25	4
Tert-butyl ethyl ether	ND		20		ug/L			10/06/16 02:25	4
tert-Butylbenzene	ND		4.0		ug/L			10/06/16 02:25	4
Tetrachloroethene	ND		4.0		ug/L			10/06/16 02:25	4
Tetrahydrofuran	ND		40		ug/L			10/06/16 02:25	4
Toluene	100		4.0		ug/L			10/06/16 02:25	4
trans-1,2-Dichloroethene	ND		4.0		ug/L			10/06/16 02:25	4
trans-1,3-Dichloropropene	ND		1.6		ug/L			10/06/16 02:25	4
Trichloroethene	ND		4.0		ug/L			10/06/16 02:25	4
Trichlorofluoromethane	ND		4.0		ug/L			10/06/16 02:25	4
Vinyl chloride	21		4.0		ug/L			10/06/16 02:25	4
Dibromomethane	ND		4.0		ug/L			10/06/16 02:25	4

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>Toluene-d8 (Surr)</i>	91		70 - 130		10/06/16 02:25	4
<i>1,2-Dichloroethane-d4 (Surr)</i>	90		70 - 130		10/06/16 02:25	4
<i>4-Bromofluorobenzene (Surr)</i>	96		70 - 130		10/06/16 02:25	4

Method: 522 - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	6.7		0.20		ug/L		10/07/16 08:57	10/10/16 11:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>1,4-Dioxane-d8 (Surr)</i>	97		70 - 130	10/07/16 08:57	10/10/16 11:07	1

Method: 6010 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	360		0.050		mg/L		10/06/16 09:31	10/07/16 16:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	33		5.0		mg/L			10/06/16 12:42	10
Sulfate	ND		20		mg/L			10/06/16 12:42	10
Ammonia	0.22		0.20		mg/L		10/05/16 13:21	10/05/16 15:26	1
Nitrate as N	ND		0.050		mg/L			10/05/16 16:50	1
TOC Result 1	2100		40		mg/L			10/12/16 00:13	40
TOC Result 2	2100		40		mg/L			10/12/16 00:13	40
Total Organic Carbon - Duplicates	2100		40		mg/L			10/12/16 00:13	40
Alkalinity, Total	500		5.0		mg/L			10/06/16 18:25	1
ortho-Phosphate	0.19		0.020		mg/L			10/05/16 14:30	1

TestAmerica Buffalo

Client Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-107013-1

Client Sample ID: MW-267M-20161004

Lab Sample ID: 480-107013-2

Date Collected: 10/04/16 14:10

Matrix: Water

Date Received: 10/05/16 01:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			10/06/16 02:50	1
1,1,1-Trichloroethane	ND		1.0		ug/L			10/06/16 02:50	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			10/06/16 02:50	1
1,1,2-Trichloroethane	ND		1.0		ug/L			10/06/16 02:50	1
1,1-Dichloroethane	ND		1.0		ug/L			10/06/16 02:50	1
1,1-Dichloroethene	ND		1.0		ug/L			10/06/16 02:50	1
1,1-Dichloropropene	ND		1.0		ug/L			10/06/16 02:50	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			10/06/16 02:50	1
1,2,3-Trichloropropane	ND		1.0		ug/L			10/06/16 02:50	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			10/06/16 02:50	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			10/06/16 02:50	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			10/06/16 02:50	1
1,2-Dichlorobenzene	ND		1.0		ug/L			10/06/16 02:50	1
1,2-Dichloroethane	ND		1.0		ug/L			10/06/16 02:50	1
1,2-Dichloropropane	ND		1.0		ug/L			10/06/16 02:50	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			10/06/16 02:50	1
1,3-Dichlorobenzene	ND		1.0		ug/L			10/06/16 02:50	1
1,3-Dichloropropane	ND		1.0		ug/L			10/06/16 02:50	1
1,4-Dichlorobenzene	ND		1.0		ug/L			10/06/16 02:50	1
1,4-Dioxane	ND		50		ug/L			10/06/16 02:50	1
2,2-Dichloropropane	ND		1.0		ug/L			10/06/16 02:50	1
2-Butanone (MEK)	ND		10		ug/L			10/06/16 02:50	1
2-Chlorotoluene	ND		1.0		ug/L			10/06/16 02:50	1
2-Hexanone	ND		10		ug/L			10/06/16 02:50	1
4-Chlorotoluene	ND		1.0		ug/L			10/06/16 02:50	1
4-Isopropyltoluene	ND		1.0		ug/L			10/06/16 02:50	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			10/06/16 02:50	1
Acetone	ND		50		ug/L			10/06/16 02:50	1
Benzene	ND		1.0		ug/L			10/06/16 02:50	1
Bromobenzene	ND		1.0		ug/L			10/06/16 02:50	1
Bromoform	ND		1.0		ug/L			10/06/16 02:50	1
Bromomethane	ND		2.0		ug/L			10/06/16 02:50	1
Carbon disulfide	ND		10		ug/L			10/06/16 02:50	1
Carbon tetrachloride	ND		1.0		ug/L			10/06/16 02:50	1
Chlorobenzene	ND		1.0		ug/L			10/06/16 02:50	1
Chlorobromomethane	ND		1.0		ug/L			10/06/16 02:50	1
Chlorodibromomethane	ND		0.50		ug/L			10/06/16 02:50	1
Chloroethane	ND		2.0		ug/L			10/06/16 02:50	1
Chloroform	ND		1.0		ug/L			10/06/16 02:50	1
Chloromethane	ND		2.0		ug/L			10/06/16 02:50	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			10/06/16 02:50	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			10/06/16 02:50	1
Dichlorobromomethane	ND		0.50		ug/L			10/06/16 02:50	1
Dichlorodifluoromethane	ND		1.0		ug/L			10/06/16 02:50	1
Ethyl ether	ND		1.0		ug/L			10/06/16 02:50	1
Ethylbenzene	ND		1.0		ug/L			10/06/16 02:50	1
Ethylene Dibromide	ND		1.0		ug/L			10/06/16 02:50	1
Hexachlorobutadiene	ND		0.40		ug/L			10/06/16 02:50	1
Isopropyl ether	ND		10		ug/L			10/06/16 02:50	1

TestAmerica Buffalo

Client Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-107013-1

Client Sample ID: MW-267M-20161004

Lab Sample ID: 480-107013-2

Date Collected: 10/04/16 14:10

Matrix: Water

Date Received: 10/05/16 01:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	ND		1.0		ug/L			10/06/16 02:50	1
Methyl tert-butyl ether	ND		1.0		ug/L			10/06/16 02:50	1
Methylene Chloride	ND		1.0		ug/L			10/06/16 02:50	1
m-Xylene & p-Xylene	ND		2.0		ug/L			10/06/16 02:50	1
Naphthalene	ND		5.0		ug/L			10/06/16 02:50	1
n-Butylbenzene	ND		1.0		ug/L			10/06/16 02:50	1
N-Propylbenzene	ND		1.0		ug/L			10/06/16 02:50	1
o-Xylene	ND		1.0		ug/L			10/06/16 02:50	1
sec-Butylbenzene	ND		1.0		ug/L			10/06/16 02:50	1
Styrene	ND		1.0		ug/L			10/06/16 02:50	1
Tert-amyl methyl ether	ND		5.0		ug/L			10/06/16 02:50	1
Tert-butyl ethyl ether	ND		5.0		ug/L			10/06/16 02:50	1
tert-Butylbenzene	ND		1.0		ug/L			10/06/16 02:50	1
Tetrachloroethene	ND		1.0		ug/L			10/06/16 02:50	1
Tetrahydrofuran	ND		10		ug/L			10/06/16 02:50	1
Toluene	ND		1.0		ug/L			10/06/16 02:50	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			10/06/16 02:50	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			10/06/16 02:50	1
Trichloroethene	ND		1.0		ug/L			10/06/16 02:50	1
Trichlorofluoromethane	ND		1.0		ug/L			10/06/16 02:50	1
Vinyl chloride	ND		1.0		ug/L			10/06/16 02:50	1
Dibromomethane	ND		1.0		ug/L			10/06/16 02:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	90		70 - 130		10/06/16 02:50	1
1,2-Dichloroethane-d4 (Surr)	93		70 - 130		10/06/16 02:50	1
4-Bromofluorobenzene (Surr)	96		70 - 130		10/06/16 02:50	1

Method: 522 - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	3.8		0.20		ug/L		10/07/16 08:57	10/10/16 11:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	94		70 - 130	10/07/16 08:57	10/10/16 11:26	1

Client Sample ID: MW-268S-20161004

Lab Sample ID: 480-107013-3

Date Collected: 10/04/16 11:35

Matrix: Water

Date Received: 10/05/16 01:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		50		ug/L			10/06/16 03:14	50
1,1,1-Trichloroethane	ND		50		ug/L			10/06/16 03:14	50
1,1,2,2-Tetrachloroethane	ND		25		ug/L			10/06/16 03:14	50
1,1,2-Trichloroethane	ND		50		ug/L			10/06/16 03:14	50
1,1-Dichloroethane	ND		50		ug/L			10/06/16 03:14	50
1,1-Dichloroethene	ND		50		ug/L			10/06/16 03:14	50
1,1-Dichloropropene	ND		50		ug/L			10/06/16 03:14	50
1,2,3-Trichlorobenzene	ND		50		ug/L			10/06/16 03:14	50
1,2,3-Trichloropropane	ND		50		ug/L			10/06/16 03:14	50

TestAmerica Buffalo

Client Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-107013-1

Client Sample ID: MW-268S-20161004

Lab Sample ID: 480-107013-3

Date Collected: 10/04/16 11:35

Matrix: Water

Date Received: 10/05/16 01:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		50		ug/L			10/06/16 03:14	50
1,2,4-Trimethylbenzene	ND		50		ug/L			10/06/16 03:14	50
1,2-Dibromo-3-Chloropropane	ND		250		ug/L			10/06/16 03:14	50
1,2-Dichlorobenzene	ND		50		ug/L			10/06/16 03:14	50
1,2-Dichloroethane	ND		50		ug/L			10/06/16 03:14	50
1,2-Dichloropropane	ND		50		ug/L			10/06/16 03:14	50
1,3,5-Trimethylbenzene	ND		50		ug/L			10/06/16 03:14	50
1,3-Dichlorobenzene	ND		50		ug/L			10/06/16 03:14	50
1,3-Dichloropropane	ND		50		ug/L			10/06/16 03:14	50
1,4-Dichlorobenzene	ND		50		ug/L			10/06/16 03:14	50
1,4-Dioxane	ND		2500		ug/L			10/06/16 03:14	50
2,2-Dichloropropane	ND		50		ug/L			10/06/16 03:14	50
2-Butanone (MEK)	ND		500		ug/L			10/06/16 03:14	50
2-Chlorotoluene	ND		50		ug/L			10/06/16 03:14	50
2-Hexanone	ND		500		ug/L			10/06/16 03:14	50
4-Chlorotoluene	ND		50		ug/L			10/06/16 03:14	50
4-Isopropyltoluene	ND		50		ug/L			10/06/16 03:14	50
4-Methyl-2-pentanone (MIBK)	ND		500		ug/L			10/06/16 03:14	50
Acetone	ND		2500		ug/L			10/06/16 03:14	50
Benzene	ND		50		ug/L			10/06/16 03:14	50
Bromobenzene	ND		50		ug/L			10/06/16 03:14	50
Bromoform	ND		50		ug/L			10/06/16 03:14	50
Bromomethane	ND		100		ug/L			10/06/16 03:14	50
Carbon disulfide	ND		500		ug/L			10/06/16 03:14	50
Carbon tetrachloride	ND		50		ug/L			10/06/16 03:14	50
Chlorobenzene	ND		50		ug/L			10/06/16 03:14	50
Chlorobromomethane	ND		50		ug/L			10/06/16 03:14	50
Chlorodibromomethane	ND		25		ug/L			10/06/16 03:14	50
Chloroethane	ND		100		ug/L			10/06/16 03:14	50
Chloroform	ND		50		ug/L			10/06/16 03:14	50
Chloromethane	ND		100		ug/L			10/06/16 03:14	50
cis-1,2-Dichloroethene	ND		50		ug/L			10/06/16 03:14	50
cis-1,3-Dichloropropene	ND		20		ug/L			10/06/16 03:14	50
Dichlorobromomethane	ND		25		ug/L			10/06/16 03:14	50
Dichlorodifluoromethane	ND		50		ug/L			10/06/16 03:14	50
Ethyl ether	ND		50		ug/L			10/06/16 03:14	50
Ethylbenzene	ND		50		ug/L			10/06/16 03:14	50
Ethylene Dibromide	ND		50		ug/L			10/06/16 03:14	50
Hexachlorobutadiene	ND		20		ug/L			10/06/16 03:14	50
Isopropyl ether	ND		500		ug/L			10/06/16 03:14	50
Isopropylbenzene	ND		50		ug/L			10/06/16 03:14	50
Methyl tert-butyl ether	ND		50		ug/L			10/06/16 03:14	50
Methylene Chloride	ND		50		ug/L			10/06/16 03:14	50
m-Xylene & p-Xylene	ND		100		ug/L			10/06/16 03:14	50
Naphthalene	ND		250		ug/L			10/06/16 03:14	50
n-Butylbenzene	ND		50		ug/L			10/06/16 03:14	50
N-Propylbenzene	ND		50		ug/L			10/06/16 03:14	50
o-Xylene	ND		50		ug/L			10/06/16 03:14	50
sec-Butylbenzene	ND		50		ug/L			10/06/16 03:14	50

TestAmerica Buffalo

Client Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-107013-1

Client Sample ID: MW-268S-20161004

Lab Sample ID: 480-107013-3

Date Collected: 10/04/16 11:35

Matrix: Water

Date Received: 10/05/16 01:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	ND		50		ug/L			10/06/16 03:14	50
Tert-amyl methyl ether	ND		250		ug/L			10/06/16 03:14	50
Tert-butyl ethyl ether	ND		250		ug/L			10/06/16 03:14	50
tert-Butylbenzene	ND		50		ug/L			10/06/16 03:14	50
Tetrachloroethene	ND		50		ug/L			10/06/16 03:14	50
Tetrahydrofuran	ND		500		ug/L			10/06/16 03:14	50
Toluene	ND		50		ug/L			10/06/16 03:14	50
trans-1,2-Dichloroethene	ND		50		ug/L			10/06/16 03:14	50
trans-1,3-Dichloropropene	ND		20		ug/L			10/06/16 03:14	50
Trichloroethene	ND		50		ug/L			10/06/16 03:14	50
Trichlorofluoromethane	ND		50		ug/L			10/06/16 03:14	50
Vinyl chloride	ND		50		ug/L			10/06/16 03:14	50
Dibromomethane	ND		50		ug/L			10/06/16 03:14	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	91		70 - 130		10/06/16 03:14	50
1,2-Dichloroethane-d4 (Surr)	87		70 - 130		10/06/16 03:14	50
4-Bromofluorobenzene (Surr)	96		70 - 130		10/06/16 03:14	50

Method: 522 - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.54		0.20		ug/L		10/07/16 08:57	10/07/16 15:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	12	X	70 - 130	10/07/16 08:57	10/07/16 15:59	1

Method: 6010 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	1.6		0.050		mg/L		10/06/16 09:31	10/07/16 16:30	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	26		25		mg/L			10/10/16 12:50	50
Sulfate	ND		10		mg/L			10/11/16 10:57	5
Ammonia	0.72		0.20		mg/L		10/05/16 13:21	10/05/16 15:27	1
Nitrate as N	ND		0.050		mg/L			10/05/16 16:52	1
TOC Result 1	57000		1000		mg/L			10/07/16 23:31	1000
TOC Result 2	59000		1000		mg/L			10/07/16 23:31	1000
Total Organic Carbon - Duplicates	58000		1000		mg/L			10/07/16 23:31	1000
Alkalinity, Total	10000		5.0		mg/L			10/12/16 14:55	1
ortho-Phosphate	0.049		0.020		mg/L			10/05/16 14:30	1

Client Sample ID: MW-268M-20161004

Lab Sample ID: 480-107013-4

Date Collected: 10/04/16 12:20

Matrix: Water

Date Received: 10/05/16 01:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		20		ug/L			10/06/16 03:39	20
1,1,1-Trichloroethane	ND		20		ug/L			10/06/16 03:39	20
1,1,2,2-Tetrachloroethane	ND		10		ug/L			10/06/16 03:39	20

TestAmerica Buffalo

Client Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-107013-1

Client Sample ID: MW-268M-20161004

Lab Sample ID: 480-107013-4

Date Collected: 10/04/16 12:20

Matrix: Water

Date Received: 10/05/16 01:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	ND		20		ug/L			10/06/16 03:39	20
1,1-Dichloroethane	ND		20		ug/L			10/06/16 03:39	20
1,1-Dichloroethene	ND		20		ug/L			10/06/16 03:39	20
1,1-Dichloropropene	ND		20		ug/L			10/06/16 03:39	20
1,2,3-Trichlorobenzene	ND		20		ug/L			10/06/16 03:39	20
1,2,3-Trichloropropane	ND		20		ug/L			10/06/16 03:39	20
1,2,4-Trichlorobenzene	ND		20		ug/L			10/06/16 03:39	20
1,2,4-Trimethylbenzene	ND		20		ug/L			10/06/16 03:39	20
1,2-Dibromo-3-Chloropropane	ND		100		ug/L			10/06/16 03:39	20
1,2-Dichlorobenzene	ND		20		ug/L			10/06/16 03:39	20
1,2-Dichloroethane	ND		20		ug/L			10/06/16 03:39	20
1,2-Dichloropropane	ND		20		ug/L			10/06/16 03:39	20
1,3,5-Trimethylbenzene	ND		20		ug/L			10/06/16 03:39	20
1,3-Dichlorobenzene	ND		20		ug/L			10/06/16 03:39	20
1,3-Dichloropropane	ND		20		ug/L			10/06/16 03:39	20
1,4-Dichlorobenzene	ND		20		ug/L			10/06/16 03:39	20
1,4-Dioxane	ND		1000		ug/L			10/06/16 03:39	20
2,2-Dichloropropane	ND		20		ug/L			10/06/16 03:39	20
2-Butanone (MEK)	200		200		ug/L			10/06/16 03:39	20
2-Chlorotoluene	ND		20		ug/L			10/06/16 03:39	20
2-Hexanone	ND		200		ug/L			10/06/16 03:39	20
4-Chlorotoluene	ND		20		ug/L			10/06/16 03:39	20
4-Isopropyltoluene	ND		20		ug/L			10/06/16 03:39	20
4-Methyl-2-pentanone (MIBK)	ND		200		ug/L			10/06/16 03:39	20
Acetone	ND		1000		ug/L			10/06/16 03:39	20
Benzene	ND		20		ug/L			10/06/16 03:39	20
Bromobenzene	ND		20		ug/L			10/06/16 03:39	20
Bromoform	ND		20		ug/L			10/06/16 03:39	20
Bromomethane	ND		40		ug/L			10/06/16 03:39	20
Carbon disulfide	ND		200		ug/L			10/06/16 03:39	20
Carbon tetrachloride	ND		20		ug/L			10/06/16 03:39	20
Chlorobenzene	ND		20		ug/L			10/06/16 03:39	20
Chlorobromomethane	ND		20		ug/L			10/06/16 03:39	20
Chlorodibromomethane	ND		10		ug/L			10/06/16 03:39	20
Chloroethane	ND		40		ug/L			10/06/16 03:39	20
Chloroform	ND		20		ug/L			10/06/16 03:39	20
Chloromethane	ND		40		ug/L			10/06/16 03:39	20
cis-1,2-Dichloroethene	440		20		ug/L			10/06/16 03:39	20
cis-1,3-Dichloropropene	ND		8.0		ug/L			10/06/16 03:39	20
Dichlorobromomethane	ND		10		ug/L			10/06/16 03:39	20
Dichlorodifluoromethane	ND		20		ug/L			10/06/16 03:39	20
Ethyl ether	ND		20		ug/L			10/06/16 03:39	20
Ethylbenzene	ND		20		ug/L			10/06/16 03:39	20
Ethylene Dibromide	ND		20		ug/L			10/06/16 03:39	20
Hexachlorobutadiene	ND		8.0		ug/L			10/06/16 03:39	20
Isopropyl ether	ND		200		ug/L			10/06/16 03:39	20
Isopropylbenzene	ND		20		ug/L			10/06/16 03:39	20
Methyl tert-butyl ether	ND		20		ug/L			10/06/16 03:39	20
Methylene Chloride	ND		20		ug/L			10/06/16 03:39	20

TestAmerica Buffalo

Client Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-107013-1

Client Sample ID: MW-268M-20161004

Lab Sample ID: 480-107013-4

Date Collected: 10/04/16 12:20

Matrix: Water

Date Received: 10/05/16 01:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	ND		40		ug/L			10/06/16 03:39	20
Naphthalene	ND		100		ug/L			10/06/16 03:39	20
n-Butylbenzene	ND		20		ug/L			10/06/16 03:39	20
N-Propylbenzene	ND		20		ug/L			10/06/16 03:39	20
o-Xylene	ND		20		ug/L			10/06/16 03:39	20
sec-Butylbenzene	ND		20		ug/L			10/06/16 03:39	20
Styrene	ND		20		ug/L			10/06/16 03:39	20
Tert-amyl methyl ether	ND		100		ug/L			10/06/16 03:39	20
Tert-butyl ethyl ether	ND		100		ug/L			10/06/16 03:39	20
tert-Butylbenzene	ND		20		ug/L			10/06/16 03:39	20
Tetrachloroethene	ND		20		ug/L			10/06/16 03:39	20
Tetrahydrofuran	ND		200		ug/L			10/06/16 03:39	20
Toluene	ND		20		ug/L			10/06/16 03:39	20
trans-1,2-Dichloroethene	ND		20		ug/L			10/06/16 03:39	20
trans-1,3-Dichloropropene	ND		8.0		ug/L			10/06/16 03:39	20
Trichloroethene	ND		20		ug/L			10/06/16 03:39	20
Trichlorofluoromethane	ND		20		ug/L			10/06/16 03:39	20
Vinyl chloride	47		20		ug/L			10/06/16 03:39	20
Dibromomethane	ND		20		ug/L			10/06/16 03:39	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	90		70 - 130		10/06/16 03:39	20
1,2-Dichloroethane-d4 (Surr)	87		70 - 130		10/06/16 03:39	20
4-Bromofluorobenzene (Surr)	96		70 - 130		10/06/16 03:39	20

Method: 522 - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	6.7	F1	0.20		ug/L		10/07/16 08:57	10/10/16 11:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	90		70 - 130	10/07/16 08:57	10/10/16 11:44	1

Method: 6010 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	2.1		0.050		mg/L		10/06/16 09:31	10/07/16 16:33	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	38	F1	25		mg/L			10/10/16 12:59	50
Sulfate	ND	F1	100		mg/L			10/10/16 12:59	50
Ammonia	0.42		0.20		mg/L		10/05/16 13:21	10/05/16 15:28	1
Nitrate as N	ND		0.050		mg/L			10/05/16 16:53	1
TOC Result 1	15000		500		mg/L			10/07/16 23:59	500
TOC Result 2	16000		500		mg/L			10/07/16 23:59	500
Total Organic Carbon - Duplicates	15000		500		mg/L			10/07/16 23:59	500
Alkalinity, Total	11000		5.0		mg/L			10/12/16 14:55	1
ortho-Phosphate	ND		0.020		mg/L			10/05/16 14:30	1

TestAmerica Buffalo

Client Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-107013-1

Client Sample ID: MW-268D-20161004

Lab Sample ID: 480-107013-5

Date Collected: 10/04/16 13:00

Matrix: Water

Date Received: 10/05/16 01:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.0		ug/L			10/06/16 04:03	5
1,1,1-Trichloroethane	ND		5.0		ug/L			10/06/16 04:03	5
1,1,2,2-Tetrachloroethane	ND		2.5		ug/L			10/06/16 04:03	5
1,1,2-Trichloroethane	ND		5.0		ug/L			10/06/16 04:03	5
1,1-Dichloroethane	ND		5.0		ug/L			10/06/16 04:03	5
1,1-Dichloroethene	ND		5.0		ug/L			10/06/16 04:03	5
1,1-Dichloropropene	ND		5.0		ug/L			10/06/16 04:03	5
1,2,3-Trichlorobenzene	ND		5.0		ug/L			10/06/16 04:03	5
1,2,3-Trichloropropane	ND		5.0		ug/L			10/06/16 04:03	5
1,2,4-Trichlorobenzene	ND		5.0		ug/L			10/06/16 04:03	5
1,2,4-Trimethylbenzene	ND		5.0		ug/L			10/06/16 04:03	5
1,2-Dibromo-3-Chloropropane	ND		25		ug/L			10/06/16 04:03	5
1,2-Dichlorobenzene	ND		5.0		ug/L			10/06/16 04:03	5
1,2-Dichloroethane	ND		5.0		ug/L			10/06/16 04:03	5
1,2-Dichloropropane	ND		5.0		ug/L			10/06/16 04:03	5
1,3,5-Trimethylbenzene	ND		5.0		ug/L			10/06/16 04:03	5
1,3-Dichlorobenzene	ND		5.0		ug/L			10/06/16 04:03	5
1,3-Dichloropropane	ND		5.0		ug/L			10/06/16 04:03	5
1,4-Dichlorobenzene	ND		5.0		ug/L			10/06/16 04:03	5
1,4-Dioxane	ND		250		ug/L			10/06/16 04:03	5
2,2-Dichloropropane	ND		5.0		ug/L			10/06/16 04:03	5
2-Butanone (MEK)	ND		50		ug/L			10/06/16 04:03	5
2-Chlorotoluene	ND		5.0		ug/L			10/06/16 04:03	5
2-Hexanone	ND		50		ug/L			10/06/16 04:03	5
4-Chlorotoluene	ND		5.0		ug/L			10/06/16 04:03	5
4-Isopropyltoluene	ND		5.0		ug/L			10/06/16 04:03	5
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			10/06/16 04:03	5
Acetone	ND		250		ug/L			10/06/16 04:03	5
Benzene	ND		5.0		ug/L			10/06/16 04:03	5
Bromobenzene	ND		5.0		ug/L			10/06/16 04:03	5
Bromoform	ND		5.0		ug/L			10/06/16 04:03	5
Bromomethane	ND		10		ug/L			10/06/16 04:03	5
Carbon disulfide	ND		50		ug/L			10/06/16 04:03	5
Carbon tetrachloride	ND		5.0		ug/L			10/06/16 04:03	5
Chlorobenzene	ND		5.0		ug/L			10/06/16 04:03	5
Chlorobromomethane	ND		5.0		ug/L			10/06/16 04:03	5
Chlorodibromomethane	ND		2.5		ug/L			10/06/16 04:03	5
Chloroethane	ND		10		ug/L			10/06/16 04:03	5
Chloroform	ND		5.0		ug/L			10/06/16 04:03	5
Chloromethane	ND		10		ug/L			10/06/16 04:03	5
cis-1,2-Dichloroethene	ND		5.0		ug/L			10/06/16 04:03	5
cis-1,3-Dichloropropene	ND		2.0		ug/L			10/06/16 04:03	5
Dichlorobromomethane	ND		2.5		ug/L			10/06/16 04:03	5
Dichlorodifluoromethane	ND		5.0		ug/L			10/06/16 04:03	5
Ethyl ether	ND		5.0		ug/L			10/06/16 04:03	5
Ethylbenzene	ND		5.0		ug/L			10/06/16 04:03	5
Ethylene Dibromide	ND		5.0		ug/L			10/06/16 04:03	5
Hexachlorobutadiene	ND		2.0		ug/L			10/06/16 04:03	5
Isopropyl ether	ND		50		ug/L			10/06/16 04:03	5

TestAmerica Buffalo

Client Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-107013-1

Client Sample ID: MW-268D-20161004

Lab Sample ID: 480-107013-5

Date Collected: 10/04/16 13:00

Matrix: Water

Date Received: 10/05/16 01:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	ND		5.0		ug/L			10/06/16 04:03	5
Methyl tert-butyl ether	ND		5.0		ug/L			10/06/16 04:03	5
Methylene Chloride	ND		5.0		ug/L			10/06/16 04:03	5
m-Xylene & p-Xylene	ND		10		ug/L			10/06/16 04:03	5
Naphthalene	ND		25		ug/L			10/06/16 04:03	5
n-Butylbenzene	ND		5.0		ug/L			10/06/16 04:03	5
N-Propylbenzene	ND		5.0		ug/L			10/06/16 04:03	5
o-Xylene	ND		5.0		ug/L			10/06/16 04:03	5
sec-Butylbenzene	ND		5.0		ug/L			10/06/16 04:03	5
Styrene	ND		5.0		ug/L			10/06/16 04:03	5
Tert-amyl methyl ether	ND		25		ug/L			10/06/16 04:03	5
Tert-butyl ethyl ether	ND		25		ug/L			10/06/16 04:03	5
tert-Butylbenzene	ND		5.0		ug/L			10/06/16 04:03	5
Tetrachloroethene	ND		5.0		ug/L			10/06/16 04:03	5
Tetrahydrofuran	ND		50		ug/L			10/06/16 04:03	5
Toluene	ND		5.0		ug/L			10/06/16 04:03	5
trans-1,2-Dichloroethene	ND		5.0		ug/L			10/06/16 04:03	5
trans-1,3-Dichloropropene	ND		2.0		ug/L			10/06/16 04:03	5
Trichloroethene	ND		5.0		ug/L			10/06/16 04:03	5
Trichlorofluoromethane	ND		5.0		ug/L			10/06/16 04:03	5
Vinyl chloride	ND		5.0		ug/L			10/06/16 04:03	5
Dibromomethane	ND		5.0		ug/L			10/06/16 04:03	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	88		70 - 130		10/06/16 04:03	5
1,2-Dichloroethane-d4 (Surr)	97		70 - 130		10/06/16 04:03	5
4-Bromofluorobenzene (Surr)	95		70 - 130		10/06/16 04:03	5

Client Sample ID: REW-1-20161004

Lab Sample ID: 480-107013-6

Date Collected: 10/04/16 08:35

Matrix: Water

Date Received: 10/05/16 01:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			10/06/16 04:27	1
1,1,1-Trichloroethane	ND		1.0		ug/L			10/06/16 04:27	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			10/06/16 04:27	1
1,1,2-Trichloroethane	ND		1.0		ug/L			10/06/16 04:27	1
1,1-Dichloroethane	ND		1.0		ug/L			10/06/16 04:27	1
1,1-Dichloroethene	ND		1.0		ug/L			10/06/16 04:27	1
1,1-Dichloropropene	ND		1.0		ug/L			10/06/16 04:27	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			10/06/16 04:27	1
1,2,3-Trichloropropane	ND		1.0		ug/L			10/06/16 04:27	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			10/06/16 04:27	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			10/06/16 04:27	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			10/06/16 04:27	1
1,2-Dichlorobenzene	ND		1.0		ug/L			10/06/16 04:27	1
1,2-Dichloroethane	ND		1.0		ug/L			10/06/16 04:27	1
1,2-Dichloropropane	ND		1.0		ug/L			10/06/16 04:27	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			10/06/16 04:27	1

TestAmerica Buffalo

Client Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-107013-1

Client Sample ID: REW-1-20161004

Lab Sample ID: 480-107013-6

Date Collected: 10/04/16 08:35

Matrix: Water

Date Received: 10/05/16 01:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	ND		1.0		ug/L			10/06/16 04:27	1
1,3-Dichloropropane	ND		1.0		ug/L			10/06/16 04:27	1
1,4-Dichlorobenzene	ND		1.0		ug/L			10/06/16 04:27	1
1,4-Dioxane	ND		50		ug/L			10/06/16 04:27	1
2,2-Dichloropropane	ND		1.0		ug/L			10/06/16 04:27	1
2-Butanone (MEK)	ND		10		ug/L			10/06/16 04:27	1
2-Chlorotoluene	ND		1.0		ug/L			10/06/16 04:27	1
2-Hexanone	ND		10		ug/L			10/06/16 04:27	1
4-Chlorotoluene	ND		1.0		ug/L			10/06/16 04:27	1
4-Isopropyltoluene	ND		1.0		ug/L			10/06/16 04:27	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			10/06/16 04:27	1
Acetone	ND		50		ug/L			10/06/16 04:27	1
Benzene	ND		1.0		ug/L			10/06/16 04:27	1
Bromobenzene	ND		1.0		ug/L			10/06/16 04:27	1
Bromoform	ND		1.0		ug/L			10/06/16 04:27	1
Bromomethane	ND		2.0		ug/L			10/06/16 04:27	1
Carbon disulfide	ND		10		ug/L			10/06/16 04:27	1
Carbon tetrachloride	ND		1.0		ug/L			10/06/16 04:27	1
Chlorobenzene	ND		1.0		ug/L			10/06/16 04:27	1
Chlorobromomethane	ND		1.0		ug/L			10/06/16 04:27	1
Chlorodibromomethane	ND		0.50		ug/L			10/06/16 04:27	1
Chloroethane	ND		2.0		ug/L			10/06/16 04:27	1
Chloroform	ND		1.0		ug/L			10/06/16 04:27	1
Chloromethane	ND		2.0		ug/L			10/06/16 04:27	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			10/06/16 04:27	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			10/06/16 04:27	1
Dichlorobromomethane	ND		0.50		ug/L			10/06/16 04:27	1
Dichlorodifluoromethane	ND		1.0		ug/L			10/06/16 04:27	1
Ethyl ether	ND		1.0		ug/L			10/06/16 04:27	1
Ethylbenzene	1.1		1.0		ug/L			10/06/16 04:27	1
Ethylene Dibromide	ND		1.0		ug/L			10/06/16 04:27	1
Hexachlorobutadiene	ND		0.40		ug/L			10/06/16 04:27	1
Isopropyl ether	ND		10		ug/L			10/06/16 04:27	1
Isopropylbenzene	ND		1.0		ug/L			10/06/16 04:27	1
Methyl tert-butyl ether	ND		1.0		ug/L			10/06/16 04:27	1
Methylene Chloride	ND		1.0		ug/L			10/06/16 04:27	1
m-Xylene & p-Xylene	2.4		2.0		ug/L			10/06/16 04:27	1
Naphthalene	ND		5.0		ug/L			10/06/16 04:27	1
n-Butylbenzene	ND		1.0		ug/L			10/06/16 04:27	1
N-Propylbenzene	ND		1.0		ug/L			10/06/16 04:27	1
o-Xylene	1.4		1.0		ug/L			10/06/16 04:27	1
sec-Butylbenzene	ND		1.0		ug/L			10/06/16 04:27	1
Styrene	ND		1.0		ug/L			10/06/16 04:27	1
Tert-amyl methyl ether	ND		5.0		ug/L			10/06/16 04:27	1
Tert-butyl ethyl ether	ND		5.0		ug/L			10/06/16 04:27	1
tert-Butylbenzene	ND		1.0		ug/L			10/06/16 04:27	1
Tetrachloroethene	ND		1.0		ug/L			10/06/16 04:27	1
Tetrahydrofuran	ND		10		ug/L			10/06/16 04:27	1
Toluene	ND		1.0		ug/L			10/06/16 04:27	1

TestAmerica Buffalo

Client Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-107013-1

Client Sample ID: REW-1-20161004

Lab Sample ID: 480-107013-6

Date Collected: 10/04/16 08:35

Matrix: Water

Date Received: 10/05/16 01:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	ND		1.0		ug/L			10/06/16 04:27	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			10/06/16 04:27	1
Trichloroethene	ND		1.0		ug/L			10/06/16 04:27	1
Trichlorofluoromethane	ND		1.0		ug/L			10/06/16 04:27	1
Vinyl chloride	ND		1.0		ug/L			10/06/16 04:27	1
Dibromomethane	ND		1.0		ug/L			10/06/16 04:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	89		70 - 130		10/06/16 04:27	1
1,2-Dichloroethane-d4 (Surr)	90		70 - 130		10/06/16 04:27	1
4-Bromofluorobenzene (Surr)	97		70 - 130		10/06/16 04:27	1

Method: 6010 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	37		0.050		mg/L		10/06/16 09:31	10/07/16 16:37	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	13		2.5		mg/L			10/06/16 13:06	5
Sulfate	13		10		mg/L			10/06/16 13:06	5
Ammonia	0.50		0.20		mg/L		10/05/16 13:21	10/05/16 15:29	1
Nitrate as N	ND		0.050		mg/L			10/05/16 16:54	1
TOC Result 1	1.1		1.0		mg/L			10/06/16 10:17	1
TOC Result 2	1.2		1.0		mg/L			10/06/16 10:17	1
Total Organic Carbon - Duplicates	1.1		1.0		mg/L			10/06/16 10:17	1
Alkalinity, Total	280		5.0		mg/L			10/06/16 18:32	1
ortho-Phosphate	0.19		0.020		mg/L			10/05/16 14:30	1

Client Sample ID: REW-4-20161004

Lab Sample ID: 480-107013-7

Date Collected: 10/04/16 09:20

Matrix: Water

Date Received: 10/05/16 01:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			10/06/16 14:45	1
1,1,1-Trichloroethane	ND		1.0		ug/L			10/06/16 14:45	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			10/06/16 14:45	1
1,1,2-Trichloroethane	ND		1.0		ug/L			10/06/16 14:45	1
1,1-Dichloroethane	ND		1.0		ug/L			10/06/16 14:45	1
1,1-Dichloroethene	ND		1.0		ug/L			10/06/16 14:45	1
1,1-Dichloropropene	ND		1.0		ug/L			10/06/16 14:45	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			10/06/16 14:45	1
1,2,3-Trichloropropane	ND		1.0		ug/L			10/06/16 14:45	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			10/06/16 14:45	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			10/06/16 14:45	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			10/06/16 14:45	1
1,2-Dichlorobenzene	ND		1.0		ug/L			10/06/16 14:45	1
1,2-Dichloroethane	ND		1.0		ug/L			10/06/16 14:45	1
1,2-Dichloropropane	ND		1.0		ug/L			10/06/16 14:45	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			10/06/16 14:45	1

TestAmerica Buffalo

Client Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-107013-1

Client Sample ID: REW-4-20161004

Lab Sample ID: 480-107013-7

Date Collected: 10/04/16 09:20

Matrix: Water

Date Received: 10/05/16 01:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	ND		1.0		ug/L			10/06/16 14:45	1
1,3-Dichloropropane	ND		1.0		ug/L			10/06/16 14:45	1
1,4-Dichlorobenzene	ND		1.0		ug/L			10/06/16 14:45	1
1,4-Dioxane	ND	*	50		ug/L			10/06/16 14:45	1
2,2-Dichloropropane	ND		1.0		ug/L			10/06/16 14:45	1
2-Butanone (MEK)	ND		10		ug/L			10/06/16 14:45	1
2-Chlorotoluene	ND		1.0		ug/L			10/06/16 14:45	1
2-Hexanone	ND		10		ug/L			10/06/16 14:45	1
4-Chlorotoluene	ND		1.0		ug/L			10/06/16 14:45	1
4-Isopropyltoluene	ND		1.0		ug/L			10/06/16 14:45	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			10/06/16 14:45	1
Acetone	ND		50		ug/L			10/06/16 14:45	1
Benzene	ND		1.0		ug/L			10/06/16 14:45	1
Bromobenzene	ND		1.0		ug/L			10/06/16 14:45	1
Bromoform	ND		1.0		ug/L			10/06/16 14:45	1
Bromomethane	ND		2.0		ug/L			10/06/16 14:45	1
Carbon disulfide	ND		10		ug/L			10/06/16 14:45	1
Carbon tetrachloride	ND		1.0		ug/L			10/06/16 14:45	1
Chlorobenzene	ND		1.0		ug/L			10/06/16 14:45	1
Chlorobromomethane	ND		1.0		ug/L			10/06/16 14:45	1
Chlorodibromomethane	ND		0.50		ug/L			10/06/16 14:45	1
Chloroethane	ND		2.0		ug/L			10/06/16 14:45	1
Chloroform	ND		1.0		ug/L			10/06/16 14:45	1
Chloromethane	ND		2.0		ug/L			10/06/16 14:45	1
cis-1,2-Dichloroethene	5.1		1.0		ug/L			10/06/16 14:45	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			10/06/16 14:45	1
Dichlorobromomethane	ND		0.50		ug/L			10/06/16 14:45	1
Dichlorodifluoromethane	ND		1.0		ug/L			10/06/16 14:45	1
Ethyl ether	ND		1.0		ug/L			10/06/16 14:45	1
Ethylbenzene	ND		1.0		ug/L			10/06/16 14:45	1
Ethylene Dibromide	ND		1.0		ug/L			10/06/16 14:45	1
Hexachlorobutadiene	ND		0.40		ug/L			10/06/16 14:45	1
Isopropyl ether	ND		10		ug/L			10/06/16 14:45	1
Isopropylbenzene	ND		1.0		ug/L			10/06/16 14:45	1
Methyl tert-butyl ether	ND		1.0		ug/L			10/06/16 14:45	1
Methylene Chloride	ND		1.0		ug/L			10/06/16 14:45	1
m-Xylene & p-Xylene	2.9		2.0		ug/L			10/06/16 14:45	1
Naphthalene	ND		5.0		ug/L			10/06/16 14:45	1
n-Butylbenzene	ND		1.0		ug/L			10/06/16 14:45	1
N-Propylbenzene	ND		1.0		ug/L			10/06/16 14:45	1
o-Xylene	ND		1.0		ug/L			10/06/16 14:45	1
sec-Butylbenzene	ND		1.0		ug/L			10/06/16 14:45	1
Styrene	ND		1.0		ug/L			10/06/16 14:45	1
Tert-amyl methyl ether	ND		5.0		ug/L			10/06/16 14:45	1
Tert-butyl ethyl ether	ND		5.0		ug/L			10/06/16 14:45	1
tert-Butylbenzene	ND		1.0		ug/L			10/06/16 14:45	1
Tetrachloroethene	ND		1.0		ug/L			10/06/16 14:45	1
Tetrahydrofuran	ND		10		ug/L			10/06/16 14:45	1
Toluene	ND		1.0		ug/L			10/06/16 14:45	1

TestAmerica Buffalo

Client Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-107013-1

Client Sample ID: REW-4-20161004

Lab Sample ID: 480-107013-7

Date Collected: 10/04/16 09:20

Matrix: Water

Date Received: 10/05/16 01:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	ND		1.0		ug/L			10/06/16 14:45	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			10/06/16 14:45	1
Trichloroethene	ND		1.0		ug/L			10/06/16 14:45	1
Trichlorofluoromethane	ND		1.0		ug/L			10/06/16 14:45	1
Vinyl chloride	1.4		1.0		ug/L			10/06/16 14:45	1
Dibromomethane	ND		1.0		ug/L			10/06/16 14:45	1

Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	90		70 - 130				10/06/16 14:45	1
1,2-Dichloroethane-d4 (Surr)	91		70 - 130				10/06/16 14:45	1
4-Bromofluorobenzene (Surr)	98		70 - 130				10/06/16 14:45	1

Method: 6010 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	13		0.050		mg/L		10/06/16 09:31	10/07/16 16:51	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9.2		2.5		mg/L			10/06/16 13:15	5
Sulfate	ND		10		mg/L			10/06/16 13:15	5
Ammonia	6.2		1.0		mg/L		10/05/16 13:21	10/05/16 15:38	5
Nitrate as N	ND		0.050		mg/L			10/05/16 16:55	1
TOC Result 1	2.3		1.0		mg/L			10/06/16 11:13	1
TOC Result 2	2.4		1.0		mg/L			10/06/16 11:13	1
Total Organic Carbon - Duplicates	2.3		1.0		mg/L			10/06/16 11:13	1
Alkalinity, Total	270		5.0		mg/L			10/06/16 18:39	1
ortho-Phosphate	0.75		0.020		mg/L			10/05/16 14:30	1

Client Sample ID: REW-5-20161004

Lab Sample ID: 480-107013-8

Date Collected: 10/04/16 10:05

Matrix: Water

Date Received: 10/05/16 01:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			10/06/16 05:15	1
1,1,1-Trichloroethane	ND		1.0		ug/L			10/06/16 05:15	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			10/06/16 05:15	1
1,1,2-Trichloroethane	ND		1.0		ug/L			10/06/16 05:15	1
1,1-Dichloroethane	ND		1.0		ug/L			10/06/16 05:15	1
1,1-Dichloroethene	ND		1.0		ug/L			10/06/16 05:15	1
1,1-Dichloropropene	ND		1.0		ug/L			10/06/16 05:15	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			10/06/16 05:15	1
1,2,3-Trichloropropane	ND		1.0		ug/L			10/06/16 05:15	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			10/06/16 05:15	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			10/06/16 05:15	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			10/06/16 05:15	1
1,2-Dichlorobenzene	ND		1.0		ug/L			10/06/16 05:15	1
1,2-Dichloroethane	ND		1.0		ug/L			10/06/16 05:15	1
1,2-Dichloropropane	ND		1.0		ug/L			10/06/16 05:15	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			10/06/16 05:15	1

TestAmerica Buffalo

Client Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-107013-1

Client Sample ID: REW-5-20161004

Lab Sample ID: 480-107013-8

Date Collected: 10/04/16 10:05

Matrix: Water

Date Received: 10/05/16 01:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	ND		1.0		ug/L			10/06/16 05:15	1
1,3-Dichloropropane	ND		1.0		ug/L			10/06/16 05:15	1
1,4-Dichlorobenzene	ND		1.0		ug/L			10/06/16 05:15	1
1,4-Dioxane	ND		50		ug/L			10/06/16 05:15	1
2,2-Dichloropropane	ND		1.0		ug/L			10/06/16 05:15	1
2-Butanone (MEK)	ND		10		ug/L			10/06/16 05:15	1
2-Chlorotoluene	ND		1.0		ug/L			10/06/16 05:15	1
2-Hexanone	ND		10		ug/L			10/06/16 05:15	1
4-Chlorotoluene	ND		1.0		ug/L			10/06/16 05:15	1
4-Isopropyltoluene	ND		1.0		ug/L			10/06/16 05:15	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			10/06/16 05:15	1
Acetone	ND		50		ug/L			10/06/16 05:15	1
Benzene	ND		1.0		ug/L			10/06/16 05:15	1
Bromobenzene	ND		1.0		ug/L			10/06/16 05:15	1
Bromoform	ND		1.0		ug/L			10/06/16 05:15	1
Bromomethane	ND		2.0		ug/L			10/06/16 05:15	1
Carbon disulfide	ND		10		ug/L			10/06/16 05:15	1
Carbon tetrachloride	ND		1.0		ug/L			10/06/16 05:15	1
Chlorobenzene	ND		1.0		ug/L			10/06/16 05:15	1
Chlorobromomethane	ND		1.0		ug/L			10/06/16 05:15	1
Chlorodibromomethane	ND		0.50		ug/L			10/06/16 05:15	1
Chloroethane	ND		2.0		ug/L			10/06/16 05:15	1
Chloroform	ND		1.0		ug/L			10/06/16 05:15	1
Chloromethane	ND		2.0		ug/L			10/06/16 05:15	1
cis-1,2-Dichloroethene	2.3		1.0		ug/L			10/06/16 05:15	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			10/06/16 05:15	1
Dichlorobromomethane	ND		0.50		ug/L			10/06/16 05:15	1
Dichlorodifluoromethane	ND		1.0		ug/L			10/06/16 05:15	1
Ethyl ether	ND		1.0		ug/L			10/06/16 05:15	1
Ethylbenzene	ND		1.0		ug/L			10/06/16 05:15	1
Ethylene Dibromide	ND		1.0		ug/L			10/06/16 05:15	1
Hexachlorobutadiene	ND		0.40		ug/L			10/06/16 05:15	1
Isopropyl ether	ND		10		ug/L			10/06/16 05:15	1
Isopropylbenzene	ND		1.0		ug/L			10/06/16 05:15	1
Methyl tert-butyl ether	ND		1.0		ug/L			10/06/16 05:15	1
Methylene Chloride	ND		1.0		ug/L			10/06/16 05:15	1
m-Xylene & p-Xylene	ND		2.0		ug/L			10/06/16 05:15	1
Naphthalene	ND		5.0		ug/L			10/06/16 05:15	1
n-Butylbenzene	ND		1.0		ug/L			10/06/16 05:15	1
N-Propylbenzene	ND		1.0		ug/L			10/06/16 05:15	1
o-Xylene	ND		1.0		ug/L			10/06/16 05:15	1
sec-Butylbenzene	ND		1.0		ug/L			10/06/16 05:15	1
Styrene	ND		1.0		ug/L			10/06/16 05:15	1
Tert-amyl methyl ether	ND		5.0		ug/L			10/06/16 05:15	1
Tert-butyl ethyl ether	ND		5.0		ug/L			10/06/16 05:15	1
tert-Butylbenzene	ND		1.0		ug/L			10/06/16 05:15	1
Tetrachloroethene	ND		1.0		ug/L			10/06/16 05:15	1
Tetrahydrofuran	ND		10		ug/L			10/06/16 05:15	1
Toluene	ND		1.0		ug/L			10/06/16 05:15	1

TestAmerica Buffalo

Client Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-107013-1

Client Sample ID: REW-5-20161004

Lab Sample ID: 480-107013-8

Date Collected: 10/04/16 10:05

Matrix: Water

Date Received: 10/05/16 01:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	ND		1.0		ug/L			10/06/16 05:15	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			10/06/16 05:15	1
Trichloroethene	ND		1.0		ug/L			10/06/16 05:15	1
Trichlorofluoromethane	ND		1.0		ug/L			10/06/16 05:15	1
Vinyl chloride	ND		1.0		ug/L			10/06/16 05:15	1
Dibromomethane	ND		1.0		ug/L			10/06/16 05:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	89		70 - 130		10/06/16 05:15	1
1,2-Dichloroethane-d4 (Surr)	89		70 - 130		10/06/16 05:15	1
4-Bromofluorobenzene (Surr)	95		70 - 130		10/06/16 05:15	1

Method: 6010 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	47		0.050		mg/L		10/06/16 09:31	10/07/16 16:55	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3.9		0.50		mg/L			10/06/16 13:23	1
Sulfate	ND		2.0		mg/L			10/06/16 13:23	1
Ammonia	2.5		0.40		mg/L		10/05/16 13:21	10/05/16 15:39	2
Nitrate as N	ND		0.050		mg/L			10/05/16 16:57	1
TOC Result 1	ND		1.0		mg/L			10/06/16 12:11	1
TOC Result 2	ND		1.0		mg/L			10/06/16 12:11	1
Total Organic Carbon - Duplicates	ND		1.0		mg/L			10/06/16 12:11	1
Alkalinity, Total	100		5.0		mg/L			10/06/16 13:18	1
ortho-Phosphate	0.12		0.020		mg/L			10/05/16 14:30	1

Client Sample ID: DUP2-20161004

Lab Sample ID: 480-107013-9

Date Collected: 10/04/16 00:00

Matrix: Water

Date Received: 10/05/16 01:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			10/06/16 15:09	1
1,1,1-Trichloroethane	ND		1.0		ug/L			10/06/16 15:09	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			10/06/16 15:09	1
1,1,2-Trichloroethane	ND		1.0		ug/L			10/06/16 15:09	1
1,1-Dichloroethane	ND		1.0		ug/L			10/06/16 15:09	1
1,1-Dichloroethene	ND		1.0		ug/L			10/06/16 15:09	1
1,1-Dichloropropene	ND		1.0		ug/L			10/06/16 15:09	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			10/06/16 15:09	1
1,2,3-Trichloropropane	ND		1.0		ug/L			10/06/16 15:09	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			10/06/16 15:09	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			10/06/16 15:09	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			10/06/16 15:09	1
1,2-Dichlorobenzene	ND		1.0		ug/L			10/06/16 15:09	1
1,2-Dichloroethane	ND		1.0		ug/L			10/06/16 15:09	1
1,2-Dichloropropane	ND		1.0		ug/L			10/06/16 15:09	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			10/06/16 15:09	1

TestAmerica Buffalo

Client Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-107013-1

Client Sample ID: DUP2-20161004

Lab Sample ID: 480-107013-9

Date Collected: 10/04/16 00:00

Matrix: Water

Date Received: 10/05/16 01:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	ND		1.0		ug/L			10/06/16 15:09	1
1,3-Dichloropropane	ND		1.0		ug/L			10/06/16 15:09	1
1,4-Dichlorobenzene	ND		1.0		ug/L			10/06/16 15:09	1
1,4-Dioxane	ND	*	50		ug/L			10/06/16 15:09	1
2,2-Dichloropropane	ND		1.0		ug/L			10/06/16 15:09	1
2-Butanone (MEK)	37		10		ug/L			10/06/16 15:09	1
2-Chlorotoluene	ND		1.0		ug/L			10/06/16 15:09	1
2-Hexanone	ND		10		ug/L			10/06/16 15:09	1
4-Chlorotoluene	ND		1.0		ug/L			10/06/16 15:09	1
4-Isopropyltoluene	ND		1.0		ug/L			10/06/16 15:09	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			10/06/16 15:09	1
Acetone	ND		50		ug/L			10/06/16 15:09	1
Benzene	ND		1.0		ug/L			10/06/16 15:09	1
Bromobenzene	ND		1.0		ug/L			10/06/16 15:09	1
Bromoform	ND		1.0		ug/L			10/06/16 15:09	1
Bromomethane	ND		2.0		ug/L			10/06/16 15:09	1
Carbon disulfide	ND		10		ug/L			10/06/16 15:09	1
Carbon tetrachloride	ND		1.0		ug/L			10/06/16 15:09	1
Chlorobenzene	ND		1.0		ug/L			10/06/16 15:09	1
Chlorobromomethane	ND		1.0		ug/L			10/06/16 15:09	1
Chlorodibromomethane	ND		0.50		ug/L			10/06/16 15:09	1
Chloroethane	ND		2.0		ug/L			10/06/16 15:09	1
Chloroform	ND		1.0		ug/L			10/06/16 15:09	1
Chloromethane	ND		2.0		ug/L			10/06/16 15:09	1
cis-1,2-Dichloroethene	3.9		1.0		ug/L			10/06/16 15:09	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			10/06/16 15:09	1
Dichlorobromomethane	ND		0.50		ug/L			10/06/16 15:09	1
Dichlorodifluoromethane	ND		1.0		ug/L			10/06/16 15:09	1
Ethyl ether	ND		1.0		ug/L			10/06/16 15:09	1
Ethylbenzene	ND		1.0		ug/L			10/06/16 15:09	1
Ethylene Dibromide	ND		1.0		ug/L			10/06/16 15:09	1
Hexachlorobutadiene	ND		0.40		ug/L			10/06/16 15:09	1
Isopropyl ether	ND		10		ug/L			10/06/16 15:09	1
Isopropylbenzene	ND		1.0		ug/L			10/06/16 15:09	1
Methyl tert-butyl ether	ND		1.0		ug/L			10/06/16 15:09	1
Methylene Chloride	ND		1.0		ug/L			10/06/16 15:09	1
m-Xylene & p-Xylene	ND		2.0		ug/L			10/06/16 15:09	1
Naphthalene	ND		5.0		ug/L			10/06/16 15:09	1
n-Butylbenzene	ND		1.0		ug/L			10/06/16 15:09	1
N-Propylbenzene	ND		1.0		ug/L			10/06/16 15:09	1
o-Xylene	ND		1.0		ug/L			10/06/16 15:09	1
sec-Butylbenzene	ND		1.0		ug/L			10/06/16 15:09	1
Styrene	ND		1.0		ug/L			10/06/16 15:09	1
Tert-amyl methyl ether	ND		5.0		ug/L			10/06/16 15:09	1
Tert-butyl ethyl ether	ND		5.0		ug/L			10/06/16 15:09	1
tert-Butylbenzene	ND		1.0		ug/L			10/06/16 15:09	1
Tetrachloroethene	ND		1.0		ug/L			10/06/16 15:09	1
Tetrahydrofuran	ND		10		ug/L			10/06/16 15:09	1
Toluene	1.8		1.0		ug/L			10/06/16 15:09	1

TestAmerica Buffalo

Client Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-107013-1

Client Sample ID: DUP2-20161004

Lab Sample ID: 480-107013-9

Date Collected: 10/04/16 00:00

Matrix: Water

Date Received: 10/05/16 01:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	ND		1.0		ug/L			10/06/16 15:09	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			10/06/16 15:09	1
Trichloroethene	1.4		1.0		ug/L			10/06/16 15:09	1
Trichlorofluoromethane	ND		1.0		ug/L			10/06/16 15:09	1
Vinyl chloride	ND		1.0		ug/L			10/06/16 15:09	1
Dibromomethane	ND		1.0		ug/L			10/06/16 15:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	92		70 - 130		10/06/16 15:09	1
1,2-Dichloroethane-d4 (Surr)	86		70 - 130		10/06/16 15:09	1
4-Bromofluorobenzene (Surr)	99		70 - 130		10/06/16 15:09	1

Client Sample ID: TRIP BLANKS

Lab Sample ID: 480-107013-10

Date Collected: 10/04/16 00:00

Matrix: Water

Date Received: 10/05/16 01:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			10/06/16 06:03	1
1,1,1-Trichloroethane	ND		1.0		ug/L			10/06/16 06:03	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			10/06/16 06:03	1
1,1,2-Trichloroethane	ND		1.0		ug/L			10/06/16 06:03	1
1,1-Dichloroethane	ND		1.0		ug/L			10/06/16 06:03	1
1,1-Dichloroethene	ND		1.0		ug/L			10/06/16 06:03	1
1,1-Dichloropropene	ND		1.0		ug/L			10/06/16 06:03	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			10/06/16 06:03	1
1,2,3-Trichloropropane	ND		1.0		ug/L			10/06/16 06:03	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			10/06/16 06:03	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			10/06/16 06:03	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			10/06/16 06:03	1
1,2-Dichlorobenzene	ND		1.0		ug/L			10/06/16 06:03	1
1,2-Dichloroethane	ND		1.0		ug/L			10/06/16 06:03	1
1,2-Dichloropropane	ND		1.0		ug/L			10/06/16 06:03	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			10/06/16 06:03	1
1,3-Dichlorobenzene	ND		1.0		ug/L			10/06/16 06:03	1
1,3-Dichloropropane	ND		1.0		ug/L			10/06/16 06:03	1
1,4-Dichlorobenzene	ND		1.0		ug/L			10/06/16 06:03	1
1,4-Dioxane	ND		50		ug/L			10/06/16 06:03	1
2,2-Dichloropropane	ND		1.0		ug/L			10/06/16 06:03	1
2-Butanone (MEK)	ND		10		ug/L			10/06/16 06:03	1
2-Chlorotoluene	ND		1.0		ug/L			10/06/16 06:03	1
2-Hexanone	ND		10		ug/L			10/06/16 06:03	1
4-Chlorotoluene	ND		1.0		ug/L			10/06/16 06:03	1
4-Isopropyltoluene	ND		1.0		ug/L			10/06/16 06:03	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			10/06/16 06:03	1
Acetone	ND		50		ug/L			10/06/16 06:03	1
Benzene	ND		1.0		ug/L			10/06/16 06:03	1
Bromobenzene	ND		1.0		ug/L			10/06/16 06:03	1
Bromoform	ND		1.0		ug/L			10/06/16 06:03	1
Bromomethane	ND		2.0		ug/L			10/06/16 06:03	1

TestAmerica Buffalo

Client Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-107013-1

Client Sample ID: TRIP BLANKS

Lab Sample ID: 480-107013-10

Date Collected: 10/04/16 00:00

Matrix: Water

Date Received: 10/05/16 01:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	ND		10		ug/L			10/06/16 06:03	1
Carbon tetrachloride	ND		1.0		ug/L			10/06/16 06:03	1
Chlorobenzene	ND		1.0		ug/L			10/06/16 06:03	1
Chlorobromomethane	ND		1.0		ug/L			10/06/16 06:03	1
Chlorodibromomethane	ND		0.50		ug/L			10/06/16 06:03	1
Chloroethane	ND		2.0		ug/L			10/06/16 06:03	1
Chloroform	ND		1.0		ug/L			10/06/16 06:03	1
Chloromethane	ND		2.0		ug/L			10/06/16 06:03	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			10/06/16 06:03	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			10/06/16 06:03	1
Dichlorobromomethane	ND		0.50		ug/L			10/06/16 06:03	1
Dichlorodifluoromethane	ND		1.0		ug/L			10/06/16 06:03	1
Ethyl ether	ND		1.0		ug/L			10/06/16 06:03	1
Ethylbenzene	ND		1.0		ug/L			10/06/16 06:03	1
Ethylene Dibromide	ND		1.0		ug/L			10/06/16 06:03	1
Hexachlorobutadiene	ND		0.40		ug/L			10/06/16 06:03	1
Isopropyl ether	ND		10		ug/L			10/06/16 06:03	1
Isopropylbenzene	ND		1.0		ug/L			10/06/16 06:03	1
Methyl tert-butyl ether	ND		1.0		ug/L			10/06/16 06:03	1
Methylene Chloride	ND		1.0		ug/L			10/06/16 06:03	1
m-Xylene & p-Xylene	ND		2.0		ug/L			10/06/16 06:03	1
Naphthalene	ND		5.0		ug/L			10/06/16 06:03	1
n-Butylbenzene	ND		1.0		ug/L			10/06/16 06:03	1
N-Propylbenzene	ND		1.0		ug/L			10/06/16 06:03	1
o-Xylene	ND		1.0		ug/L			10/06/16 06:03	1
sec-Butylbenzene	ND		1.0		ug/L			10/06/16 06:03	1
Styrene	ND		1.0		ug/L			10/06/16 06:03	1
Tert-amyl methyl ether	ND		5.0		ug/L			10/06/16 06:03	1
Tert-butyl ethyl ether	ND		5.0		ug/L			10/06/16 06:03	1
tert-Butylbenzene	ND		1.0		ug/L			10/06/16 06:03	1
Tetrachloroethene	ND		1.0		ug/L			10/06/16 06:03	1
Tetrahydrofuran	ND		10		ug/L			10/06/16 06:03	1
Toluene	ND		1.0		ug/L			10/06/16 06:03	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			10/06/16 06:03	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			10/06/16 06:03	1
Trichloroethene	ND		1.0		ug/L			10/06/16 06:03	1
Trichlorofluoromethane	ND		1.0		ug/L			10/06/16 06:03	1
Vinyl chloride	ND		1.0		ug/L			10/06/16 06:03	1
Dibromomethane	ND		1.0		ug/L			10/06/16 06:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	91		70 - 130		10/06/16 06:03	1
1,2-Dichloroethane-d4 (Surr)	89		70 - 130		10/06/16 06:03	1
4-Bromofluorobenzene (Surr)	97		70 - 130		10/06/16 06:03	1

TestAmerica Buffalo

Surrogate Summary

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-107013-1

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		TOL (70-130)	12DCE (70-130)	BFB (70-130)
480-107013-1	MW-267S-20161004	91	90	96
480-107013-2	MW-267M-20161004	90	93	96
480-107013-3	MW-268S-20161004	91	87	96
480-107013-4	MW-268M-20161004	90	87	96
480-107013-5	MW-268D-20161004	88	97	95
480-107013-6	REW-1-20161004	89	90	97
480-107013-7	REW-4-20161004	90	91	98
480-107013-8	REW-5-20161004	89	89	95
480-107013-9	DUP2-20161004	92	86	99
480-107013-10	TRIP BLANKS	91	89	97
LCS 480-323990/5	Lab Control Sample	90	88	99
LCS 480-324093/5	Lab Control Sample	91	87	99
LCSD 480-323990/6	Lab Control Sample Dup	89	90	99
LCSD 480-324093/6	Lab Control Sample Dup	92	86	100
MB 480-323990/8	Method Blank	92	90	97
MB 480-324093/8	Method Blank	92	86	98

Surrogate Legend

TOL = Toluene-d8 (Surr)
12DCE = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)

Method: 522 - 1,4 Dioxane (GC/MS SIM)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)
		14DD8 (70-130)
480-107013-1	MW-267S-20161004	97
480-107013-2	MW-267M-20161004	94
480-107013-3	MW-268S-20161004	12 X
480-107013-4	MW-268M-20161004	90
480-107013-4 MS	MW-268M-20161004	94
480-107013-4 MSD	MW-268M-20161004	72
LCS 200-109914/2-A	Lab Control Sample	91
MB 200-109914/1-A	Method Blank	103

Surrogate Legend

14DD8 = 1,4-Dioxane-d8 (Surr)

QC Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-107013-1

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

Lab Sample ID: MB 480-323990/8

Matrix: Water

Analysis Batch: 323990

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			10/05/16 23:03	1
1,1,1-Trichloroethane	ND		1.0		ug/L			10/05/16 23:03	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			10/05/16 23:03	1
1,1,2-Trichloroethane	ND		1.0		ug/L			10/05/16 23:03	1
1,1-Dichloroethane	ND		1.0		ug/L			10/05/16 23:03	1
1,1-Dichloroethene	ND		1.0		ug/L			10/05/16 23:03	1
1,1-Dichloropropene	ND		1.0		ug/L			10/05/16 23:03	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			10/05/16 23:03	1
1,2,3-Trichloropropane	ND		1.0		ug/L			10/05/16 23:03	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			10/05/16 23:03	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			10/05/16 23:03	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			10/05/16 23:03	1
1,2-Dichlorobenzene	ND		1.0		ug/L			10/05/16 23:03	1
1,2-Dichloroethane	ND		1.0		ug/L			10/05/16 23:03	1
1,2-Dichloropropane	ND		1.0		ug/L			10/05/16 23:03	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			10/05/16 23:03	1
1,3-Dichlorobenzene	ND		1.0		ug/L			10/05/16 23:03	1
1,3-Dichloropropane	ND		1.0		ug/L			10/05/16 23:03	1
1,4-Dichlorobenzene	ND		1.0		ug/L			10/05/16 23:03	1
1,4-Dioxane	ND		50		ug/L			10/05/16 23:03	1
2,2-Dichloropropane	ND		1.0		ug/L			10/05/16 23:03	1
2-Butanone (MEK)	ND		10		ug/L			10/05/16 23:03	1
2-Chlorotoluene	ND		1.0		ug/L			10/05/16 23:03	1
2-Hexanone	ND		10		ug/L			10/05/16 23:03	1
4-Chlorotoluene	ND		1.0		ug/L			10/05/16 23:03	1
4-Isopropyltoluene	ND		1.0		ug/L			10/05/16 23:03	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			10/05/16 23:03	1
Acetone	ND		50		ug/L			10/05/16 23:03	1
Benzene	ND		1.0		ug/L			10/05/16 23:03	1
Bromobenzene	ND		1.0		ug/L			10/05/16 23:03	1
Bromoform	ND		1.0		ug/L			10/05/16 23:03	1
Bromomethane	ND		2.0		ug/L			10/05/16 23:03	1
Carbon disulfide	ND		10		ug/L			10/05/16 23:03	1
Carbon tetrachloride	ND		1.0		ug/L			10/05/16 23:03	1
Chlorobenzene	ND		1.0		ug/L			10/05/16 23:03	1
Chlorobromomethane	ND		1.0		ug/L			10/05/16 23:03	1
Chlorodibromomethane	ND		0.50		ug/L			10/05/16 23:03	1
Chloroethane	ND		2.0		ug/L			10/05/16 23:03	1
Chloroform	ND		1.0		ug/L			10/05/16 23:03	1
Chloromethane	ND		2.0		ug/L			10/05/16 23:03	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			10/05/16 23:03	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			10/05/16 23:03	1
Dichlorobromomethane	ND		0.50		ug/L			10/05/16 23:03	1
Dichlorodifluoromethane	ND		1.0		ug/L			10/05/16 23:03	1
Ethyl ether	ND		1.0		ug/L			10/05/16 23:03	1
Ethylbenzene	ND		1.0		ug/L			10/05/16 23:03	1
Ethylene Dibromide	ND		1.0		ug/L			10/05/16 23:03	1
Hexachlorobutadiene	ND		0.40		ug/L			10/05/16 23:03	1

TestAmerica Buffalo

QC Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-107013-1

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

Lab Sample ID: MB 480-323990/8
Matrix: Water
Analysis Batch: 323990

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropyl ether	ND		10		ug/L			10/05/16 23:03	1
Isopropylbenzene	ND		1.0		ug/L			10/05/16 23:03	1
Methyl tert-butyl ether	ND		1.0		ug/L			10/05/16 23:03	1
Methylene Chloride	ND		1.0		ug/L			10/05/16 23:03	1
m-Xylene & p-Xylene	ND		2.0		ug/L			10/05/16 23:03	1
Naphthalene	ND		5.0		ug/L			10/05/16 23:03	1
n-Butylbenzene	ND		1.0		ug/L			10/05/16 23:03	1
N-Propylbenzene	ND		1.0		ug/L			10/05/16 23:03	1
o-Xylene	ND		1.0		ug/L			10/05/16 23:03	1
sec-Butylbenzene	ND		1.0		ug/L			10/05/16 23:03	1
Styrene	ND		1.0		ug/L			10/05/16 23:03	1
Tert-amyl methyl ether	ND		5.0		ug/L			10/05/16 23:03	1
Tert-butyl ethyl ether	ND		5.0		ug/L			10/05/16 23:03	1
tert-Butylbenzene	ND		1.0		ug/L			10/05/16 23:03	1
Tetrachloroethene	ND		1.0		ug/L			10/05/16 23:03	1
Tetrahydrofuran	ND		10		ug/L			10/05/16 23:03	1
Toluene	ND		1.0		ug/L			10/05/16 23:03	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			10/05/16 23:03	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			10/05/16 23:03	1
Trichloroethene	ND		1.0		ug/L			10/05/16 23:03	1
Trichlorofluoromethane	ND		1.0		ug/L			10/05/16 23:03	1
Vinyl chloride	ND		1.0		ug/L			10/05/16 23:03	1
Dibromomethane	ND		1.0		ug/L			10/05/16 23:03	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	92		70 - 130		10/05/16 23:03	1
1,2-Dichloroethane-d4 (Surr)	90		70 - 130		10/05/16 23:03	1
4-Bromofluorobenzene (Surr)	97		70 - 130		10/05/16 23:03	1

Lab Sample ID: LCS 480-323990/5
Matrix: Water
Analysis Batch: 323990

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	25.0	23.0		ug/L		92	70 - 130
1,1,1-Trichloroethane	25.0	23.1		ug/L		92	70 - 130
1,1,2,2-Tetrachloroethane	25.0	21.9		ug/L		88	70 - 130
1,1,2-Trichloroethane	25.0	22.2		ug/L		89	70 - 130
1,1-Dichloroethane	25.0	23.4		ug/L		94	70 - 130
1,1-Dichloroethene	25.0	21.3		ug/L		85	70 - 130
1,1-Dichloropropene	25.0	22.6		ug/L		90	70 - 130
1,2,3-Trichlorobenzene	25.0	20.7		ug/L		83	70 - 130
1,2,3-Trichloropropane	25.0	20.0		ug/L		80	70 - 130
1,2,4-Trichlorobenzene	25.0	21.7		ug/L		87	70 - 130
1,2,4-Trimethylbenzene	25.0	23.6		ug/L		94	70 - 130
1,2-Dibromo-3-Chloropropane	25.0	19.0		ug/L		76	70 - 130
1,2-Dichlorobenzene	25.0	22.4		ug/L		90	70 - 130
1,2-Dichloroethane	25.0	22.2		ug/L		89	70 - 130

TestAmerica Buffalo

QC Sample Results

Client: Innovative Engineering Solutions, Inc
 Project/Site: IDS Wayland

TestAmerica Job ID: 480-107013-1

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

Lab Sample ID: LCS 480-323990/5

Matrix: Water

Analysis Batch: 323990

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichloropropane	25.0	23.3		ug/L		93	70 - 130
1,3,5-Trimethylbenzene	25.0	23.4		ug/L		93	70 - 130
1,3-Dichlorobenzene	25.0	23.2		ug/L		93	70 - 130
1,3-Dichloropropane	25.0	21.0		ug/L		84	70 - 130
1,4-Dichlorobenzene	25.0	23.5		ug/L		94	70 - 130
1,4-Dioxane	500	358		ug/L		72	70 - 130
2,2-Dichloropropane	25.0	23.5		ug/L		94	70 - 130
2-Butanone (MEK)	125	118		ug/L		95	70 - 130
2-Chlorotoluene	25.0	22.4		ug/L		90	70 - 130
2-Hexanone	125	112		ug/L		89	70 - 130
4-Chlorotoluene	25.0	24.5		ug/L		98	70 - 130
4-Isopropyltoluene	25.0	23.5		ug/L		94	70 - 130
4-Methyl-2-pentanone (MIBK)	125	101		ug/L		81	70 - 130
Acetone	125	136		ug/L		109	70 - 130
Benzene	25.0	22.9		ug/L		92	70 - 130
Bromobenzene	25.0	22.9		ug/L		92	70 - 130
Bromoform	25.0	22.5		ug/L		90	70 - 130
Bromomethane	25.0	23.9		ug/L		96	70 - 130
Carbon disulfide	25.0	21.3		ug/L		85	70 - 130
Carbon tetrachloride	25.0	23.4		ug/L		93	70 - 130
Chlorobenzene	25.0	22.6		ug/L		91	70 - 130
Chlorobromomethane	25.0	23.0		ug/L		92	70 - 130
Chlorodibromomethane	25.0	23.9		ug/L		96	70 - 130
Chloroethane	25.0	24.7		ug/L		99	70 - 130
Chloroform	25.0	22.4		ug/L		89	70 - 130
Chloromethane	25.0	22.9		ug/L		92	70 - 130
cis-1,2-Dichloroethene	25.0	22.8		ug/L		91	70 - 130
cis-1,3-Dichloropropene	25.0	24.4		ug/L		98	70 - 130
Dichlorobromomethane	25.0	24.2		ug/L		97	70 - 130
Dichlorodifluoromethane	25.0	22.7		ug/L		91	70 - 130
Ethyl ether	25.0	21.0		ug/L		84	70 - 130
Ethylbenzene	25.0	22.3		ug/L		89	70 - 130
Ethylene Dibromide	25.0	22.3		ug/L		89	70 - 130
Hexachlorobutadiene	25.0	23.5		ug/L		94	70 - 130
Isopropyl ether	25.0	22.8		ug/L		91	70 - 130
Isopropylbenzene	25.0	22.7		ug/L		91	70 - 130
Methyl tert-butyl ether	25.0	21.8		ug/L		87	70 - 130
Methylene Chloride	25.0	27.3		ug/L		109	70 - 130
m-Xylene & p-Xylene	25.0	22.3		ug/L		89	70 - 130
Naphthalene	25.0	20.1		ug/L		80	70 - 130
n-Butylbenzene	25.0	22.5		ug/L		90	70 - 130
N-Propylbenzene	25.0	22.8		ug/L		91	70 - 130
o-Xylene	25.0	23.1		ug/L		92	70 - 130
sec-Butylbenzene	25.0	23.1		ug/L		92	70 - 130
Styrene	25.0	23.2		ug/L		93	70 - 130
Tert-amyl methyl ether	25.0	22.5		ug/L		90	70 - 130
Tert-butyl ethyl ether	25.0	22.8		ug/L		91	70 - 130
tert-Butylbenzene	25.0	23.2		ug/L		93	70 - 130

TestAmerica Buffalo

QC Sample Results

Client: Innovative Engineering Solutions, Inc
 Project/Site: IDS Wayland

TestAmerica Job ID: 480-107013-1

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

Lab Sample ID: LCS 480-323990/5
Matrix: Water
Analysis Batch: 323990

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Tetrachloroethene	25.0	24.8		ug/L		99	70 - 130
Tetrahydrofuran	50.0	55.8		ug/L		112	70 - 130
Toluene	25.0	21.4		ug/L		86	70 - 130
trans-1,2-Dichloroethene	25.0	23.3		ug/L		93	70 - 130
trans-1,3-Dichloropropene	25.0	22.4		ug/L		89	70 - 130
Trichloroethene	25.0	23.8		ug/L		95	70 - 130
Trichlorofluoromethane	25.0	25.8		ug/L		103	70 - 130
Vinyl chloride	25.0	23.5		ug/L		94	70 - 130
Dibromomethane	25.0	22.6		ug/L		90	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Toluene-d8 (Surr)	90		70 - 130
1,2-Dichloroethane-d4 (Surr)	88		70 - 130
4-Bromofluorobenzene (Surr)	99		70 - 130

Lab Sample ID: LCSD 480-323990/6
Matrix: Water
Analysis Batch: 323990

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	25.0	23.5		ug/L		94	70 - 130	2	20
1,1,1-Trichloroethane	25.0	24.3		ug/L		97	70 - 130	5	20
1,1,1,2,2-Tetrachloroethane	25.0	21.6		ug/L		86	70 - 130	1	20
1,1,1,2-Trichloroethane	25.0	21.9		ug/L		88	70 - 130	1	20
1,1-Dichloroethane	25.0	24.3		ug/L		97	70 - 130	4	20
1,1-Dichloroethene	25.0	22.9		ug/L		92	70 - 130	7	20
1,1-Dichloropropene	25.0	23.0		ug/L		92	70 - 130	1	20
1,2,3-Trichlorobenzene	25.0	20.8		ug/L		83	70 - 130	1	20
1,2,3-Trichloropropane	25.0	20.1		ug/L		80	70 - 130	0	20
1,2,4-Trichlorobenzene	25.0	22.2		ug/L		89	70 - 130	3	20
1,2,4-Trimethylbenzene	25.0	24.0		ug/L		96	70 - 130	2	20
1,2-Dibromo-3-Chloropropane	25.0	20.8		ug/L		83	70 - 130	9	20
1,2-Dichlorobenzene	25.0	23.4		ug/L		94	70 - 130	4	20
1,2-Dichloroethane	25.0	21.9		ug/L		87	70 - 130	2	20
1,2-Dichloropropane	25.0	23.4		ug/L		94	70 - 130	1	20
1,3,5-Trimethylbenzene	25.0	24.1		ug/L		96	70 - 130	3	20
1,3-Dichlorobenzene	25.0	23.7		ug/L		95	70 - 130	2	20
1,3-Dichloropropane	25.0	20.8		ug/L		83	70 - 130	1	20
1,4-Dichlorobenzene	25.0	24.1		ug/L		96	70 - 130	3	20
1,4-Dioxane	500	398		ug/L		80	70 - 130	10	20
2,2-Dichloropropane	25.0	24.0		ug/L		96	70 - 130	2	20
2-Butanone (MEK)	125	111		ug/L		89	70 - 130	6	20
2-Chlorotoluene	25.0	23.6		ug/L		94	70 - 130	5	20
2-Hexanone	125	109		ug/L		87	70 - 130	3	20
4-Chlorotoluene	25.0	25.3		ug/L		101	70 - 130	3	20
4-Isopropyltoluene	25.0	24.3		ug/L		97	70 - 130	3	20
4-Methyl-2-pentanone (MIBK)	125	101		ug/L		80	70 - 130	0	20
Acetone	125	136		ug/L		109	70 - 130	0	20

TestAmerica Buffalo

QC Sample Results

Client: Innovative Engineering Solutions, Inc
 Project/Site: IDS Wayland

TestAmerica Job ID: 480-107013-1

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

Lab Sample ID: LCSD 480-323990/6

Client Sample ID: Lab Control Sample Dup

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 323990

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	25.0	23.9		ug/L		96	70 - 130	4	20
Bromobenzene	25.0	23.1		ug/L		92	70 - 130	1	20
Bromoform	25.0	23.0		ug/L		92	70 - 130	2	20
Bromomethane	25.0	24.7		ug/L		99	70 - 130	3	20
Carbon disulfide	25.0	23.0		ug/L		92	70 - 130	8	20
Carbon tetrachloride	25.0	25.0		ug/L		100	70 - 130	7	20
Chlorobenzene	25.0	23.3		ug/L		93	70 - 130	3	20
Chlorobromomethane	25.0	23.2		ug/L		93	70 - 130	1	20
Chlorodibromomethane	25.0	24.2		ug/L		97	70 - 130	1	20
Chloroethane	25.0	25.1		ug/L		100	70 - 130	1	20
Chloroform	25.0	23.6		ug/L		94	70 - 130	5	20
Chloromethane	25.0	24.1		ug/L		96	70 - 130	5	20
cis-1,2-Dichloroethene	25.0	24.3		ug/L		97	70 - 130	6	20
cis-1,3-Dichloropropene	25.0	24.8		ug/L		99	70 - 130	2	20
Dichlorobromomethane	25.0	24.3		ug/L		97	70 - 130	1	20
Dichlorodifluoromethane	25.0	24.8		ug/L		99	70 - 130	9	20
Ethyl ether	25.0	21.5		ug/L		86	70 - 130	2	20
Ethylbenzene	25.0	23.2		ug/L		93	70 - 130	4	20
Ethylene Dibromide	25.0	21.9		ug/L		88	70 - 130	2	20
Hexachlorobutadiene	25.0	23.3		ug/L		93	70 - 130	1	20
Isopropyl ether	25.0	23.0		ug/L		92	70 - 130	1	20
Isopropylbenzene	25.0	23.5		ug/L		94	70 - 130	3	20
Methyl tert-butyl ether	25.0	22.0		ug/L		88	70 - 130	1	20
Methylene Chloride	25.0	26.8		ug/L		107	70 - 130	2	20
m-Xylene & p-Xylene	25.0	23.3		ug/L		93	70 - 130	5	20
Naphthalene	25.0	20.2		ug/L		81	70 - 130	1	20
n-Butylbenzene	25.0	23.5		ug/L		94	70 - 130	4	20
N-Propylbenzene	25.0	23.6		ug/L		94	70 - 130	3	20
o-Xylene	25.0	23.1		ug/L		92	70 - 130	0	20
sec-Butylbenzene	25.0	24.1		ug/L		96	70 - 130	4	20
Styrene	25.0	24.3		ug/L		97	70 - 130	5	20
Tert-amyl methyl ether	25.0	23.1		ug/L		93	70 - 130	3	20
Tert-butyl ethyl ether	25.0	23.0		ug/L		92	70 - 130	1	20
tert-Butylbenzene	25.0	24.5		ug/L		98	70 - 130	6	20
Tetrachloroethene	25.0	25.5		ug/L		102	70 - 130	3	20
Tetrahydrofuran	50.0	53.2		ug/L		106	70 - 130	5	20
Toluene	25.0	22.8		ug/L		91	70 - 130	6	20
trans-1,2-Dichloroethene	25.0	23.9		ug/L		96	70 - 130	3	20
trans-1,3-Dichloropropene	25.0	22.2		ug/L		89	70 - 130	1	20
Trichloroethene	25.0	24.6		ug/L		98	70 - 130	3	20
Trichlorofluoromethane	25.0	27.9		ug/L		112	70 - 130	8	20
Vinyl chloride	25.0	24.2		ug/L		97	70 - 130	3	20
Dibromomethane	25.0	23.2		ug/L		93	70 - 130	3	20

Surrogate	LCSD LCSD		Limits
	%Recovery	Qualifier	
Toluene-d8 (Surr)	89		70 - 130
1,2-Dichloroethane-d4 (Surr)	90		70 - 130
4-Bromofluorobenzene (Surr)	99		70 - 130

TestAmerica Buffalo

QC Sample Results

Client: Innovative Engineering Solutions, Inc
 Project/Site: IDS Wayland

TestAmerica Job ID: 480-107013-1

Lab Sample ID: MB 480-324093/8
Matrix: Water
Analysis Batch: 324093

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			10/06/16 11:56	1
1,1,1-Trichloroethane	ND		1.0		ug/L			10/06/16 11:56	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			10/06/16 11:56	1
1,1,2-Trichloroethane	ND		1.0		ug/L			10/06/16 11:56	1
1,1-Dichloroethane	ND		1.0		ug/L			10/06/16 11:56	1
1,1-Dichloroethene	ND		1.0		ug/L			10/06/16 11:56	1
1,1-Dichloropropene	ND		1.0		ug/L			10/06/16 11:56	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			10/06/16 11:56	1
1,2,3-Trichloropropane	ND		1.0		ug/L			10/06/16 11:56	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			10/06/16 11:56	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			10/06/16 11:56	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			10/06/16 11:56	1
1,2-Dichlorobenzene	ND		1.0		ug/L			10/06/16 11:56	1
1,2-Dichloroethane	ND		1.0		ug/L			10/06/16 11:56	1
1,2-Dichloropropane	ND		1.0		ug/L			10/06/16 11:56	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			10/06/16 11:56	1
1,3-Dichlorobenzene	ND		1.0		ug/L			10/06/16 11:56	1
1,3-Dichloropropane	ND		1.0		ug/L			10/06/16 11:56	1
1,4-Dichlorobenzene	ND		1.0		ug/L			10/06/16 11:56	1
1,4-Dioxane	ND		50		ug/L			10/06/16 11:56	1
2,2-Dichloropropane	ND		1.0		ug/L			10/06/16 11:56	1
2-Butanone (MEK)	ND		10		ug/L			10/06/16 11:56	1
2-Chlorotoluene	ND		1.0		ug/L			10/06/16 11:56	1
2-Hexanone	ND		10		ug/L			10/06/16 11:56	1
4-Chlorotoluene	ND		1.0		ug/L			10/06/16 11:56	1
4-Isopropyltoluene	ND		1.0		ug/L			10/06/16 11:56	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			10/06/16 11:56	1
Acetone	ND		50		ug/L			10/06/16 11:56	1
Benzene	ND		1.0		ug/L			10/06/16 11:56	1
Bromobenzene	ND		1.0		ug/L			10/06/16 11:56	1
Bromoform	ND		1.0		ug/L			10/06/16 11:56	1
Bromomethane	ND		2.0		ug/L			10/06/16 11:56	1
Carbon disulfide	ND		10		ug/L			10/06/16 11:56	1
Carbon tetrachloride	ND		1.0		ug/L			10/06/16 11:56	1
Chlorobenzene	ND		1.0		ug/L			10/06/16 11:56	1
Chlorobromomethane	ND		1.0		ug/L			10/06/16 11:56	1
Chlorodibromomethane	ND		0.50		ug/L			10/06/16 11:56	1
Chloroethane	ND		2.0		ug/L			10/06/16 11:56	1
Chloroform	ND		1.0		ug/L			10/06/16 11:56	1
Chloromethane	ND		2.0		ug/L			10/06/16 11:56	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			10/06/16 11:56	1
cis-1,3-Dichloropropane	ND		0.40		ug/L			10/06/16 11:56	1
Dichlorobromomethane	ND		0.50		ug/L			10/06/16 11:56	1
Dichlorodifluoromethane	ND		1.0		ug/L			10/06/16 11:56	1
Ethyl ether	ND		1.0		ug/L			10/06/16 11:56	1
Ethylbenzene	ND		1.0		ug/L			10/06/16 11:56	1
Ethylene Dibromide	ND		1.0		ug/L			10/06/16 11:56	1
Hexachlorobutadiene	ND		0.40		ug/L			10/06/16 11:56	1
Isopropyl ether	ND		10		ug/L			10/06/16 11:56	1
Isopropylbenzene	ND		1.0		ug/L			10/06/16 11:56	1

TestAmerica Buffalo

QC Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-107013-1

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

Lab Sample ID: MB 480-324093/8
Matrix: Water
Analysis Batch: 324093

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		1.0		ug/L			10/06/16 11:56	1
Methylene Chloride	ND		1.0		ug/L			10/06/16 11:56	1
m-Xylene & p-Xylene	ND		2.0		ug/L			10/06/16 11:56	1
Naphthalene	ND		5.0		ug/L			10/06/16 11:56	1
n-Butylbenzene	ND		1.0		ug/L			10/06/16 11:56	1
N-Propylbenzene	ND		1.0		ug/L			10/06/16 11:56	1
o-Xylene	ND		1.0		ug/L			10/06/16 11:56	1
sec-Butylbenzene	ND		1.0		ug/L			10/06/16 11:56	1
Styrene	ND		1.0		ug/L			10/06/16 11:56	1
Tert-amyl methyl ether	ND		5.0		ug/L			10/06/16 11:56	1
Tert-butyl ethyl ether	ND		5.0		ug/L			10/06/16 11:56	1
tert-Butylbenzene	ND		1.0		ug/L			10/06/16 11:56	1
Tetrachloroethene	ND		1.0		ug/L			10/06/16 11:56	1
Tetrahydrofuran	ND		10		ug/L			10/06/16 11:56	1
Toluene	ND		1.0		ug/L			10/06/16 11:56	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			10/06/16 11:56	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			10/06/16 11:56	1
Trichloroethene	ND		1.0		ug/L			10/06/16 11:56	1
Trichlorofluoromethane	ND		1.0		ug/L			10/06/16 11:56	1
Vinyl chloride	ND		1.0		ug/L			10/06/16 11:56	1
Dibromomethane	ND		1.0		ug/L			10/06/16 11:56	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	92		70 - 130		10/06/16 11:56	1
1,2-Dichloroethane-d4 (Surr)	86		70 - 130		10/06/16 11:56	1
4-Bromofluorobenzene (Surr)	98		70 - 130		10/06/16 11:56	1

Lab Sample ID: LCS 480-324093/5
Matrix: Water
Analysis Batch: 324093

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	25.0	24.8		ug/L		99	70 - 130
1,1,1-Trichloroethane	25.0	26.4		ug/L		105	70 - 130
1,1,1,2,2-Tetrachloroethane	25.0	21.7		ug/L		87	70 - 130
1,1,2-Trichloroethane	25.0	22.2		ug/L		89	70 - 130
1,1-Dichloroethane	25.0	26.2		ug/L		105	70 - 130
1,1-Dichloroethene	25.0	24.6		ug/L		98	70 - 130
1,1-Dichloropropene	25.0	25.3		ug/L		101	70 - 130
1,2,3-Trichlorobenzene	25.0	21.5		ug/L		86	70 - 130
1,2,3-Trichloropropane	25.0	21.3		ug/L		85	70 - 130
1,2,4-Trichlorobenzene	25.0	23.7		ug/L		95	70 - 130
1,2,4-Trimethylbenzene	25.0	24.9		ug/L		100	70 - 130
1,2-Dibromo-3-Chloropropane	25.0	20.0		ug/L		80	70 - 130
1,2-Dichlorobenzene	25.0	23.7		ug/L		95	70 - 130
1,2-Dichloroethane	25.0	23.1		ug/L		93	70 - 130
1,2-Dichloropropane	25.0	25.9		ug/L		103	70 - 130
1,3,5-Trimethylbenzene	25.0	25.4		ug/L		102	70 - 130

TestAmerica Buffalo

QC Sample Results

Client: Innovative Engineering Solutions, Inc
 Project/Site: IDS Wayland

TestAmerica Job ID: 480-107013-1

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

Lab Sample ID: LCS 480-324093/5

Matrix: Water

Analysis Batch: 324093

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,3-Dichlorobenzene	25.0	24.5		ug/L		98	70 - 130
1,3-Dichloropropane	25.0	21.7		ug/L		87	70 - 130
1,4-Dichlorobenzene	25.0	24.7		ug/L		99	70 - 130
1,4-Dioxane	500	338	*	ug/L		68	70 - 130
2,2-Dichloropropane	25.0	25.6		ug/L		102	70 - 130
2-Butanone (MEK)	125	114		ug/L		91	70 - 130
2-Chlorotoluene	25.0	24.1		ug/L		96	70 - 130
2-Hexanone	125	110		ug/L		88	70 - 130
4-Chlorotoluene	25.0	26.4		ug/L		106	70 - 130
4-Isopropyltoluene	25.0	25.5		ug/L		102	70 - 130
4-Methyl-2-pentanone (MIBK)	125	103		ug/L		82	70 - 130
Acetone	125	117		ug/L		93	70 - 130
Benzene	25.0	25.3		ug/L		101	70 - 130
Bromobenzene	25.0	24.8		ug/L		99	70 - 130
Bromoform	25.0	23.1		ug/L		92	70 - 130
Bromomethane	25.0	26.1		ug/L		104	70 - 130
Carbon disulfide	25.0	25.9		ug/L		104	70 - 130
Carbon tetrachloride	25.0	26.4		ug/L		106	70 - 130
Chlorobenzene	25.0	24.2		ug/L		97	70 - 130
Chlorobromomethane	25.0	25.0		ug/L		100	70 - 130
Chlorodibromomethane	25.0	24.7		ug/L		99	70 - 130
Chloroethane	25.0	27.8		ug/L		111	70 - 130
Chloroform	25.0	24.6		ug/L		98	70 - 130
Chloromethane	25.0	26.9		ug/L		108	70 - 130
cis-1,2-Dichloroethene	25.0	25.9		ug/L		103	70 - 130
cis-1,3-Dichloropropene	25.0	26.5		ug/L		106	70 - 130
Dichlorobromomethane	25.0	25.6		ug/L		102	70 - 130
Dichlorodifluoromethane	25.0	27.6		ug/L		110	70 - 130
Ethyl ether	25.0	23.9		ug/L		96	70 - 130
Ethylbenzene	25.0	24.0		ug/L		96	70 - 130
Ethylene Dibromide	25.0	23.7		ug/L		95	70 - 130
Hexachlorobutadiene	25.0	24.9		ug/L		100	70 - 130
Isopropyl ether	25.0	24.4		ug/L		98	70 - 130
Isopropylbenzene	25.0	24.8		ug/L		99	70 - 130
Methyl tert-butyl ether	25.0	23.3		ug/L		93	70 - 130
Methylene Chloride	25.0	27.4		ug/L		109	70 - 130
m-Xylene & p-Xylene	25.0	24.2		ug/L		97	70 - 130
Naphthalene	25.0	20.5		ug/L		82	70 - 130
n-Butylbenzene	25.0	24.5		ug/L		98	70 - 130
N-Propylbenzene	25.0	25.0		ug/L		100	70 - 130
o-Xylene	25.0	24.6		ug/L		98	70 - 130
sec-Butylbenzene	25.0	24.5		ug/L		98	70 - 130
Styrene	25.0	25.1		ug/L		100	70 - 130
Tert-amyl methyl ether	25.0	23.7		ug/L		95	70 - 130
Tert-butyl ethyl ether	25.0	24.0		ug/L		96	70 - 130
tert-Butylbenzene	25.0	24.7		ug/L		99	70 - 130
Tetrachloroethene	25.0	26.3		ug/L		105	70 - 130
Tetrahydrofuran	50.0	55.5		ug/L		111	70 - 130

TestAmerica Buffalo

QC Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-107013-1

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

Lab Sample ID: LCS 480-324093/5

Matrix: Water

Analysis Batch: 324093

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Toluene	25.0	23.7		ug/L		95	70 - 130
trans-1,2-Dichloroethene	25.0	26.2		ug/L		105	70 - 130
trans-1,3-Dichloropropene	25.0	23.6		ug/L		94	70 - 130
Trichloroethene	25.0	25.9		ug/L		104	70 - 130
Trichlorofluoromethane	25.0	29.1		ug/L		116	70 - 130
Vinyl chloride	25.0	26.9		ug/L		108	70 - 130
Dibromomethane	25.0	23.5		ug/L		94	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Toluene-d8 (Surr)	91		70 - 130
1,2-Dichloroethane-d4 (Surr)	87		70 - 130
4-Bromofluorobenzene (Surr)	99		70 - 130

Lab Sample ID: LCSD 480-324093/6

Matrix: Water

Analysis Batch: 324093

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	25.0	24.8		ug/L		99	70 - 130	0	20
1,1,1-Trichloroethane	25.0	25.5		ug/L		102	70 - 130	3	20
1,1,1,2,2-Tetrachloroethane	25.0	20.9		ug/L		84	70 - 130	4	20
1,1,2-Trichloroethane	25.0	22.8		ug/L		91	70 - 130	3	20
1,1-Dichloroethane	25.0	24.4		ug/L		98	70 - 130	7	20
1,1-Dichloroethene	25.0	24.2		ug/L		97	70 - 130	2	20
1,1-Dichloropropene	25.0	24.2		ug/L		97	70 - 130	4	20
1,2,3-Trichlorobenzene	25.0	21.8		ug/L		87	70 - 130	1	20
1,2,3-Trichloropropane	25.0	19.6		ug/L		78	70 - 130	8	20
1,2,4-Trichlorobenzene	25.0	22.9		ug/L		92	70 - 130	3	20
1,2,4-Trimethylbenzene	25.0	23.8		ug/L		95	70 - 130	5	20
1,2-Dibromo-3-Chloropropane	25.0	20.4		ug/L		82	70 - 130	2	20
1,2-Dichlorobenzene	25.0	22.8		ug/L		91	70 - 130	4	20
1,2-Dichloroethane	25.0	22.8		ug/L		91	70 - 130	2	20
1,2-Dichloropropane	25.0	24.2		ug/L		97	70 - 130	7	20
1,3,5-Trimethylbenzene	25.0	24.5		ug/L		98	70 - 130	4	20
1,3-Dichlorobenzene	25.0	23.5		ug/L		94	70 - 130	4	20
1,3-Dichloropropane	25.0	21.0		ug/L		84	70 - 130	3	20
1,4-Dichlorobenzene	25.0	23.7		ug/L		95	70 - 130	4	20
1,4-Dioxane	500	367		ug/L		73	70 - 130	8	20
2,2-Dichloropropane	25.0	24.7		ug/L		99	70 - 130	4	20
2-Butanone (MEK)	125	112		ug/L		90	70 - 130	1	20
2-Chlorotoluene	25.0	23.8		ug/L		95	70 - 130	1	20
2-Hexanone	125	108		ug/L		86	70 - 130	2	20
4-Chlorotoluene	25.0	25.3		ug/L		101	70 - 130	4	20
4-Isopropyltoluene	25.0	24.4		ug/L		97	70 - 130	4	20
4-Methyl-2-pentanone (MIBK)	125	103		ug/L		83	70 - 130	1	20
Acetone	125	114		ug/L		91	70 - 130	3	20
Benzene	25.0	24.3		ug/L		97	70 - 130	4	20
Bromobenzene	25.0	24.0		ug/L		96	70 - 130	3	20

TestAmerica Buffalo

QC Sample Results

Client: Innovative Engineering Solutions, Inc
 Project/Site: IDS Wayland

TestAmerica Job ID: 480-107013-1

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

Lab Sample ID: LCSD 480-324093/6

Client Sample ID: Lab Control Sample Dup

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 324093

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Bromoform	25.0	22.9		ug/L		92	70 - 130	1	20
Bromomethane	25.0	25.1		ug/L		100	70 - 130	4	20
Carbon disulfide	25.0	25.0		ug/L		100	70 - 130	3	20
Carbon tetrachloride	25.0	25.3		ug/L		101	70 - 130	4	20
Chlorobenzene	25.0	23.6		ug/L		94	70 - 130	3	20
Chlorobromomethane	25.0	24.7		ug/L		99	70 - 130	1	20
Chlorodibromomethane	25.0	25.0		ug/L		100	70 - 130	1	20
Chloroethane	25.0	26.4		ug/L		106	70 - 130	5	20
Chloroform	25.0	23.9		ug/L		95	70 - 130	3	20
Chloromethane	25.0	25.0		ug/L		100	70 - 130	7	20
cis-1,2-Dichloroethene	25.0	25.0		ug/L		100	70 - 130	3	20
cis-1,3-Dichloropropene	25.0	25.8		ug/L		103	70 - 130	3	20
Dichlorobromomethane	25.0	25.4		ug/L		102	70 - 130	1	20
Dichlorodifluoromethane	25.0	26.0		ug/L		104	70 - 130	6	20
Ethyl ether	25.0	22.6		ug/L		90	70 - 130	6	20
Ethylbenzene	25.0	23.6		ug/L		94	70 - 130	2	20
Ethylene Dibromide	25.0	22.3		ug/L		89	70 - 130	6	20
Hexachlorobutadiene	25.0	24.6		ug/L		98	70 - 130	1	20
Isopropyl ether	25.0	23.8		ug/L		95	70 - 130	3	20
Isopropylbenzene	25.0	23.2		ug/L		93	70 - 130	7	20
Methyl tert-butyl ether	25.0	22.6		ug/L		91	70 - 130	3	20
Methylene Chloride	25.0	26.3		ug/L		105	70 - 130	4	20
m-Xylene & p-Xylene	25.0	24.0		ug/L		96	70 - 130	1	20
Naphthalene	25.0	20.5		ug/L		82	70 - 130	0	20
n-Butylbenzene	25.0	23.7		ug/L		95	70 - 130	3	20
N-Propylbenzene	25.0	23.9		ug/L		96	70 - 130	4	20
o-Xylene	25.0	23.8		ug/L		95	70 - 130	3	20
sec-Butylbenzene	25.0	23.6		ug/L		94	70 - 130	4	20
Styrene	25.0	24.8		ug/L		99	70 - 130	1	20
Tert-amyl methyl ether	25.0	23.4		ug/L		93	70 - 130	1	20
Tert-butyl ethyl ether	25.0	23.8		ug/L		95	70 - 130	1	20
tert-Butylbenzene	25.0	23.7		ug/L		95	70 - 130	4	20
Tetrachloroethene	25.0	25.9		ug/L		104	70 - 130	1	20
Tetrahydrofuran	50.0	56.5		ug/L		113	70 - 130	2	20
Toluene	25.0	23.1		ug/L		92	70 - 130	3	20
trans-1,2-Dichloroethene	25.0	24.9		ug/L		100	70 - 130	5	20
trans-1,3-Dichloropropene	25.0	22.9		ug/L		92	70 - 130	3	20
Trichloroethene	25.0	25.3		ug/L		101	70 - 130	3	20
Trichlorofluoromethane	25.0	27.6		ug/L		110	70 - 130	5	20
Vinyl chloride	25.0	25.4		ug/L		102	70 - 130	6	20
Dibromomethane	25.0	23.4		ug/L		93	70 - 130	1	20

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
Toluene-d8 (Surr)	92		70 - 130
1,2-Dichloroethane-d4 (Surr)	86		70 - 130
4-Bromofluorobenzene (Surr)	100		70 - 130

TestAmerica Buffalo

QC Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-107013-1

Method: 522 - 1,4 Dioxane (GC/MS SIM)

Lab Sample ID: MB 200-109914/1-A
Matrix: Water
Analysis Batch: 109928

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 109914

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20		ug/L		10/07/16 08:57	10/07/16 12:12	1
Surrogate	%Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	103		70 - 130				10/07/16 08:57	10/07/16 12:12	1

Lab Sample ID: LCS 200-109914/2-A
Matrix: Water
Analysis Batch: 109928

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 109914

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
1,4-Dioxane	2.00	1.79		ug/L		89	70 - 130
Surrogate	%Recovery	LCS Qualifier	Limits				
1,4-Dioxane-d8 (Surr)	91		70 - 130				

Lab Sample ID: 480-107013-4 MS
Matrix: Water
Analysis Batch: 109981

Client Sample ID: MW-268M-20161004
Prep Type: Total/NA
Prep Batch: 109914

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
1,4-Dioxane	6.7	F1	2.00	9.03		ug/L		118	70 - 130
Surrogate	%Recovery	MS Qualifier	Limits						
1,4-Dioxane-d8 (Surr)	94		70 - 130						

Lab Sample ID: 480-107013-4 MSD
Matrix: Water
Analysis Batch: 109928

Client Sample ID: MW-268M-20161004
Prep Type: Total/NA
Prep Batch: 109914

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
1,4-Dioxane	5.7	F1	2.00	6.80	F1	ug/L		55	70 - 130	4	30
Surrogate	%Recovery	MSD Qualifier	Limits								
1,4-Dioxane-d8 (Surr)	72		70 - 130								

Method: 6010 - Metals (ICP)

Lab Sample ID: MB 480-324002/1-A
Matrix: Water
Analysis Batch: 324537

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 324002

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		0.050		mg/L		10/06/16 09:31	10/07/16 16:16	1

TestAmerica Buffalo

QC Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-107013-1

Method: 6010 - Metals (ICP) (Continued)

Lab Sample ID: LCS 480-324002/2-A
Matrix: Water
Analysis Batch: 324537

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 324002

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Iron	10.0	10.4		mg/L		104	80 - 120

Lab Sample ID: LCSD 480-324002/3-A
Matrix: Water
Analysis Batch: 324537

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 324002

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Iron	10.0	10.3		mg/L		103	80 - 120	1	20

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 480-324036/30
Matrix: Water
Analysis Batch: 324036

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		0.50		mg/L			10/06/16 10:56	1
Sulfate	ND		2.0		mg/L			10/06/16 10:56	1

Lab Sample ID: MB 480-324036/4
Matrix: Water
Analysis Batch: 324036

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		0.50		mg/L			10/06/16 07:25	1
Sulfate	ND		2.0		mg/L			10/06/16 07:25	1

Lab Sample ID: MB 480-324036/56
Matrix: Water
Analysis Batch: 324036

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		0.50		mg/L			10/06/16 14:28	1
Sulfate	ND		2.0		mg/L			10/06/16 14:28	1

Lab Sample ID: LCS 480-324036/29
Matrix: Water
Analysis Batch: 324036

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	50.0	49.0		mg/L		98	90 - 110
Sulfate	50.0	48.1		mg/L		96	90 - 110

Lab Sample ID: LCS 480-324036/3
Matrix: Water
Analysis Batch: 324036

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	50.0	48.3		mg/L		97	90 - 110

TestAmerica Buffalo

QC Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-107013-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 480-324036/3
Matrix: Water
Analysis Batch: 324036

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	50.0	47.6		mg/L		95	90 - 110

Lab Sample ID: LCS 480-324036/55
Matrix: Water
Analysis Batch: 324036

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	50.0	49.4		mg/L		99	90 - 110
Sulfate	50.0	48.5		mg/L		97	90 - 110

Lab Sample ID: MB 480-324714/4
Matrix: Water
Analysis Batch: 324714

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		0.50		mg/L			10/10/16 12:10	1
Sulfate	ND		2.0		mg/L			10/10/16 12:10	1

Lab Sample ID: LCS 480-324714/3
Matrix: Water
Analysis Batch: 324714

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	50.0	50.1		mg/L		100	90 - 110
Sulfate	50.0	50.3		mg/L		101	90 - 110

Lab Sample ID: 480-107013-4 MS
Matrix: Water
Analysis Batch: 324714

Client Sample ID: MW-268M-20161004
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	38	F1	2500	3880	F1	mg/L		154	81 - 120
Sulfate	ND	F1	2500	3770	F1	mg/L		151	80 - 120

Lab Sample ID: 480-107013-4 MSD
Matrix: Water
Analysis Batch: 324714

Client Sample ID: MW-268M-20161004
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	38	F1	2500	3690	F1	mg/L		146	81 - 120	5	20
Sulfate	ND	F1	2500	3690	F1	mg/L		147	80 - 120	2	20

Lab Sample ID: MB 480-324850/4
Matrix: Water
Analysis Batch: 324850

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		0.50		mg/L			10/11/16 10:32	1
Sulfate	ND		2.0		mg/L			10/11/16 10:32	1

TestAmerica Buffalo

QC Sample Results

Client: Innovative Engineering Solutions, Inc
 Project/Site: IDS Wayland

TestAmerica Job ID: 480-107013-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 480-324850/3
Matrix: Water
Analysis Batch: 324850

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	50.0	50.4		mg/L		101	90 - 110
Sulfate	50.0	50.1		mg/L		100	90 - 110

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 480-323953/2-A
Matrix: Water
Analysis Batch: 323984

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 323953

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.20		mg/L		10/05/16 13:21	10/05/16 15:17	1

Lab Sample ID: LCS 480-323953/1-A
Matrix: Water
Analysis Batch: 323984

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 323953

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia	1.00	0.977		mg/L		98	90 - 110

Method: 9060A - Organic Carbon, Total (TOC)

Lab Sample ID: MB 480-324190/27
Matrix: Water
Analysis Batch: 324190

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TOC Result 1	ND		1.0		mg/L			10/06/16 04:37	1
TOC Result 2	ND		1.0		mg/L			10/06/16 04:37	1
Total Organic Carbon - Duplicates	ND		1.0		mg/L			10/06/16 04:37	1

Lab Sample ID: LCS 480-324190/28
Matrix: Water
Analysis Batch: 324190

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
TOC Result 1	60.0	56.5		mg/L		94	90 - 110
TOC Result 2	60.0	57.5		mg/L		96	90 - 110
Total Organic Carbon - Duplicates	60.0	57.0		mg/L		95	90 - 110

Lab Sample ID: 480-107013-7 MS
Matrix: Water
Analysis Batch: 324190

Client Sample ID: REW-4-20161004
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
TOC Result 1	2.3		20.0	20.2		mg/L		90	54 - 131
TOC Result 2	2.4		20.0	20.7		mg/L		92	54 - 131
Total Organic Carbon - Duplicates	2.3		20.0	20.5		mg/L		91	54 - 131

TestAmerica Buffalo

QC Sample Results

Client: Innovative Engineering Solutions, Inc
 Project/Site: IDS Wayland

TestAmerica Job ID: 480-107013-1

Method: 9060A - Organic Carbon, Total (TOC) (Continued)

Lab Sample ID: 480-107013-6 DU

Matrix: Water

Analysis Batch: 324190

Client Sample ID: REW-1-20161004

Prep Type: Total/NA

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	RPD	Limit
	Result	Qualifier	Result	Qualifier					
TOC Result 1	1.1		1.08		mg/L			0.9	20
TOC Result 2	1.2		1.24		mg/L			3	20
Total Organic Carbon - Duplicates	1.1		1.16		mg/L			1	20

Lab Sample ID: MB 480-324587/4

Matrix: Water

Analysis Batch: 324587

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
TOC Result 1	ND		1.0		mg/L			10/07/16 17:53	1
TOC Result 2	ND		1.0		mg/L			10/07/16 17:53	1
Total Organic Carbon - Duplicates	ND		1.0		mg/L			10/07/16 17:53	1

Lab Sample ID: MB 480-324587/52

Matrix: Water

Analysis Batch: 324587

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
TOC Result 1	ND		1.0		mg/L			10/08/16 16:20	1
TOC Result 2	ND		1.0		mg/L			10/08/16 16:20	1
Total Organic Carbon - Duplicates	ND		1.0		mg/L			10/08/16 16:20	1

Lab Sample ID: LCS 480-324587/5

Matrix: Water

Analysis Batch: 324587

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
TOC Result 2	60.0	60.9		mg/L		101	90 - 110
Total Organic Carbon - Duplicates	60.0	59.3		mg/L		99	90 - 110

Lab Sample ID: LCS 480-324587/53

Matrix: Water

Analysis Batch: 324587

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
TOC Result 2	60.0	59.2		mg/L		99	90 - 110
Total Organic Carbon - Duplicates	60.0	57.4		mg/L		96	90 - 110

Lab Sample ID: MB 480-325086/28

Matrix: Water

Analysis Batch: 325086

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
TOC Result 1	ND		1.0		mg/L			10/11/16 18:37	1
TOC Result 2	ND		1.0		mg/L			10/11/16 18:37	1

TestAmerica Buffalo

QC Sample Results

Client: Innovative Engineering Solutions, Inc
 Project/Site: IDS Wayland

TestAmerica Job ID: 480-107013-1

Method: 9060A - Organic Carbon, Total (TOC) (Continued)

Lab Sample ID: MB 480-325086/28
Matrix: Water
Analysis Batch: 325086

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Duplicates	ND		1.0		mg/L			10/11/16 18:37	1

Lab Sample ID: LCS 480-325086/29
Matrix: Water
Analysis Batch: 325086

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
TOC Result 1	60.0	61.0		mg/L		102	90 - 110
TOC Result 2	60.0	60.7		mg/L		101	90 - 110
Total Organic Carbon - Duplicates	60.0	60.8		mg/L		101	90 - 110

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 480-324328/30
Matrix: Water
Analysis Batch: 324328

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND		5.0		mg/L			10/06/16 15:01	1

Lab Sample ID: MB 480-324328/54
Matrix: Water
Analysis Batch: 324328

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND		5.0		mg/L			10/06/16 17:27	1

Lab Sample ID: MB 480-324328/7
Matrix: Water
Analysis Batch: 324328

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND		5.0		mg/L			10/06/16 12:36	1

Lab Sample ID: LCS 480-324328/31
Matrix: Water
Analysis Batch: 324328

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity, Total	100	98.6		mg/L		99	90 - 110

Lab Sample ID: LCS 480-324328/55
Matrix: Water
Analysis Batch: 324328

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity, Total	100	99.6		mg/L		100	90 - 110

TestAmerica Buffalo

QC Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-107013-1

Method: SM 2320B - Alkalinity (Continued)

Lab Sample ID: LCS 480-324328/8
Matrix: Water
Analysis Batch: 324328

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity, Total	100	99.7		mg/L		100	90 - 110

Lab Sample ID: MB 480-325246/3
Matrix: Water
Analysis Batch: 325246

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND		5.0		mg/L			10/12/16 14:55	1

Lab Sample ID: LCS 480-325246/4
Matrix: Water
Analysis Batch: 325246

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity, Total	100	100		mg/L		100	90 - 110

Lab Sample ID: 480-107013-4 MS
Matrix: Water
Analysis Batch: 325246

Client Sample ID: MW-268M-20161004
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity, Total	11000		1000	21300	4	mg/L		1000	60 - 140

Lab Sample ID: 480-107013-4 DU
Matrix: Water
Analysis Batch: 325246

Client Sample ID: MW-268M-20161004
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Alkalinity, Total	11000		11500		mg/L		2	20

Method: SM 4500 P E - Orthophosphate

Lab Sample ID: MB 480-323987/3
Matrix: Water
Analysis Batch: 323987

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
ortho-Phosphate	ND		0.020		mg/L			10/05/16 14:30	1

Lab Sample ID: LCS 480-323987/4
Matrix: Water
Analysis Batch: 323987

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
ortho-Phosphate	0.200	0.200		mg/L		100	90 - 110

TestAmerica Buffalo

QC Sample Results

Client: Innovative Engineering Solutions, Inc
 Project/Site: IDS Wayland

TestAmerica Job ID: 480-107013-1

Method: SM 4500 P E - Orthophosphate (Continued)

Lab Sample ID: 480-107013-6 MS
Matrix: Water
Analysis Batch: 323987

Client Sample ID: REW-1-20161004
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
ortho-Phosphate	0.19		1.00	1.08		mg/L		89	49 - 138

Lab Sample ID: 480-107013-6 MSD
Matrix: Water
Analysis Batch: 323987

Client Sample ID: REW-1-20161004
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
ortho-Phosphate	0.19		1.00	1.11		mg/L		92	49 - 138	3	20

Lab Sample ID: 480-107013-8 MS
Matrix: Water
Analysis Batch: 323987

Client Sample ID: REW-5-20161004
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
ortho-Phosphate	0.12		1.00	1.05		mg/L		93	49 - 138

Lab Sample ID: 480-107013-8 MSD
Matrix: Water
Analysis Batch: 323987

Client Sample ID: REW-5-20161004
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
ortho-Phosphate	0.12		1.00	1.01		mg/L		89	49 - 138	4	20

QC Association Summary

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-107013-1

GC/MS VOA

Analysis Batch: 323990

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-107013-1	MW-267S-20161004	Total/NA	Water	8260C	
480-107013-2	MW-267M-20161004	Total/NA	Water	8260C	
480-107013-3	MW-268S-20161004	Total/NA	Water	8260C	
480-107013-4	MW-268M-20161004	Total/NA	Water	8260C	
480-107013-5	MW-268D-20161004	Total/NA	Water	8260C	
480-107013-6	REW-1-20161004	Total/NA	Water	8260C	
480-107013-8	REW-5-20161004	Total/NA	Water	8260C	
480-107013-10	TRIP BLANKS	Total/NA	Water	8260C	
MB 480-323990/8	Method Blank	Total/NA	Water	8260C	
LCS 480-323990/5	Lab Control Sample	Total/NA	Water	8260C	
LCSD 480-323990/6	Lab Control Sample Dup	Total/NA	Water	8260C	

Analysis Batch: 324093

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-107013-7	REW-4-20161004	Total/NA	Water	8260C	
480-107013-9	DUP2-20161004	Total/NA	Water	8260C	
MB 480-324093/8	Method Blank	Total/NA	Water	8260C	
LCS 480-324093/5	Lab Control Sample	Total/NA	Water	8260C	
LCSD 480-324093/6	Lab Control Sample Dup	Total/NA	Water	8260C	

GC/MS Semi VOA

Prep Batch: 109914

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-107013-1	MW-267S-20161004	Total/NA	Water	3535A	
480-107013-2	MW-267M-20161004	Total/NA	Water	3535A	
480-107013-3	MW-268S-20161004	Total/NA	Water	3535A	
480-107013-4	MW-268M-20161004	Total/NA	Water	3535A	
MB 200-109914/1-A	Method Blank	Total/NA	Water	3535A	
LCS 200-109914/2-A	Lab Control Sample	Total/NA	Water	3535A	
480-107013-4 MS	MW-268M-20161004	Total/NA	Water	3535A	
480-107013-4 MSD	MW-268M-20161004	Total/NA	Water	3535A	

Analysis Batch: 109928

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-107013-3	MW-268S-20161004	Total/NA	Water	522	109914
MB 200-109914/1-A	Method Blank	Total/NA	Water	522	109914
LCS 200-109914/2-A	Lab Control Sample	Total/NA	Water	522	109914
480-107013-4 MSD	MW-268M-20161004	Total/NA	Water	522	109914

Analysis Batch: 109981

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-107013-1	MW-267S-20161004	Total/NA	Water	522	109914
480-107013-2	MW-267M-20161004	Total/NA	Water	522	109914
480-107013-4	MW-268M-20161004	Total/NA	Water	522	109914
480-107013-4 MS	MW-268M-20161004	Total/NA	Water	522	109914

TestAmerica Buffalo

QC Association Summary

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-107013-1

Metals

Prep Batch: 324002

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-107013-1	MW-267S-20161004	Total/NA	Water	3005A	
480-107013-3	MW-268S-20161004	Total/NA	Water	3005A	
480-107013-4	MW-268M-20161004	Total/NA	Water	3005A	
480-107013-6	REW-1-20161004	Total/NA	Water	3005A	
480-107013-7	REW-4-20161004	Total/NA	Water	3005A	
480-107013-8	REW-5-20161004	Total/NA	Water	3005A	
MB 480-324002/1-A	Method Blank	Total/NA	Water	3005A	
LCS 480-324002/2-A	Lab Control Sample	Total/NA	Water	3005A	
LCSD 480-324002/3-A	Lab Control Sample Dup	Total/NA	Water	3005A	

Analysis Batch: 324537

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-107013-1	MW-267S-20161004	Total/NA	Water	6010	324002
480-107013-3	MW-268S-20161004	Total/NA	Water	6010	324002
480-107013-4	MW-268M-20161004	Total/NA	Water	6010	324002
480-107013-6	REW-1-20161004	Total/NA	Water	6010	324002
480-107013-7	REW-4-20161004	Total/NA	Water	6010	324002
480-107013-8	REW-5-20161004	Total/NA	Water	6010	324002
MB 480-324002/1-A	Method Blank	Total/NA	Water	6010	324002
LCS 480-324002/2-A	Lab Control Sample	Total/NA	Water	6010	324002
LCSD 480-324002/3-A	Lab Control Sample Dup	Total/NA	Water	6010	324002

General Chemistry

Prep Batch: 323953

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-107013-1	MW-267S-20161004	Total/NA	Water	Distill/Ammonia	
480-107013-3	MW-268S-20161004	Total/NA	Water	Distill/Ammonia	
480-107013-4	MW-268M-20161004	Total/NA	Water	Distill/Ammonia	
480-107013-6	REW-1-20161004	Total/NA	Water	Distill/Ammonia	
480-107013-7	REW-4-20161004	Total/NA	Water	Distill/Ammonia	
480-107013-8	REW-5-20161004	Total/NA	Water	Distill/Ammonia	
MB 480-323953/2-A	Method Blank	Total/NA	Water	Distill/Ammonia	
LCS 480-323953/1-A	Lab Control Sample	Total/NA	Water	Distill/Ammonia	

Analysis Batch: 323984

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-107013-1	MW-267S-20161004	Total/NA	Water	350.1	323953
480-107013-3	MW-268S-20161004	Total/NA	Water	350.1	323953
480-107013-4	MW-268M-20161004	Total/NA	Water	350.1	323953
480-107013-6	REW-1-20161004	Total/NA	Water	350.1	323953
480-107013-7	REW-4-20161004	Total/NA	Water	350.1	323953
480-107013-8	REW-5-20161004	Total/NA	Water	350.1	323953
MB 480-323953/2-A	Method Blank	Total/NA	Water	350.1	323953
LCS 480-323953/1-A	Lab Control Sample	Total/NA	Water	350.1	323953

Analysis Batch: 323987

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-107013-1	MW-267S-20161004	Total/NA	Water	SM 4500 P E	
480-107013-3	MW-268S-20161004	Total/NA	Water	SM 4500 P E	

TestAmerica Buffalo

QC Association Summary

Client: Innovative Engineering Solutions, Inc
 Project/Site: IDS Wayland

TestAmerica Job ID: 480-107013-1

General Chemistry (Continued)

Analysis Batch: 323987 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-107013-4	MW-268M-20161004	Total/NA	Water	SM 4500 P E	
480-107013-6	REW-1-20161004	Total/NA	Water	SM 4500 P E	
480-107013-7	REW-4-20161004	Total/NA	Water	SM 4500 P E	
480-107013-8	REW-5-20161004	Total/NA	Water	SM 4500 P E	
MB 480-323987/3	Method Blank	Total/NA	Water	SM 4500 P E	
LCS 480-323987/4	Lab Control Sample	Total/NA	Water	SM 4500 P E	
480-107013-6 MS	REW-1-20161004	Total/NA	Water	SM 4500 P E	
480-107013-6 MSD	REW-1-20161004	Total/NA	Water	SM 4500 P E	
480-107013-8 MS	REW-5-20161004	Total/NA	Water	SM 4500 P E	
480-107013-8 MSD	REW-5-20161004	Total/NA	Water	SM 4500 P E	

Analysis Batch: 324035

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-107013-1	MW-267S-20161004	Total/NA	Water	353.2	
480-107013-3	MW-268S-20161004	Total/NA	Water	353.2	
480-107013-4	MW-268M-20161004	Total/NA	Water	353.2	
480-107013-6	REW-1-20161004	Total/NA	Water	353.2	
480-107013-7	REW-4-20161004	Total/NA	Water	353.2	
480-107013-8	REW-5-20161004	Total/NA	Water	353.2	

Analysis Batch: 324036

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-107013-1	MW-267S-20161004	Total/NA	Water	300.0	
480-107013-6	REW-1-20161004	Total/NA	Water	300.0	
480-107013-7	REW-4-20161004	Total/NA	Water	300.0	
480-107013-8	REW-5-20161004	Total/NA	Water	300.0	
MB 480-324036/30	Method Blank	Total/NA	Water	300.0	
MB 480-324036/4	Method Blank	Total/NA	Water	300.0	
MB 480-324036/56	Method Blank	Total/NA	Water	300.0	
LCS 480-324036/29	Lab Control Sample	Total/NA	Water	300.0	
LCS 480-324036/3	Lab Control Sample	Total/NA	Water	300.0	
LCS 480-324036/55	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 324190

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-107013-6	REW-1-20161004	Total/NA	Water	9060A	
480-107013-7	REW-4-20161004	Total/NA	Water	9060A	
480-107013-8	REW-5-20161004	Total/NA	Water	9060A	
MB 480-324190/27	Method Blank	Total/NA	Water	9060A	
LCS 480-324190/28	Lab Control Sample	Total/NA	Water	9060A	
480-107013-7 MS	REW-4-20161004	Total/NA	Water	9060A	
480-107013-6 DU	REW-1-20161004	Total/NA	Water	9060A	

Analysis Batch: 324328

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-107013-1	MW-267S-20161004	Total/NA	Water	SM 2320B	
480-107013-6	REW-1-20161004	Total/NA	Water	SM 2320B	
480-107013-7	REW-4-20161004	Total/NA	Water	SM 2320B	
480-107013-8	REW-5-20161004	Total/NA	Water	SM 2320B	
MB 480-324328/30	Method Blank	Total/NA	Water	SM 2320B	
MB 480-324328/54	Method Blank	Total/NA	Water	SM 2320B	

TestAmerica Buffalo

QC Association Summary

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-107013-1

General Chemistry (Continued)

Analysis Batch: 324328 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-324328/7	Method Blank	Total/NA	Water	SM 2320B	
LCS 480-324328/31	Lab Control Sample	Total/NA	Water	SM 2320B	
LCS 480-324328/55	Lab Control Sample	Total/NA	Water	SM 2320B	
LCS 480-324328/8	Lab Control Sample	Total/NA	Water	SM 2320B	

Analysis Batch: 324587

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-107013-3	MW-268S-20161004	Total/NA	Water	9060A	
480-107013-4	MW-268M-20161004	Total/NA	Water	9060A	
MB 480-324587/4	Method Blank	Total/NA	Water	9060A	
MB 480-324587/52	Method Blank	Total/NA	Water	9060A	
LCS 480-324587/5	Lab Control Sample	Total/NA	Water	9060A	
LCS 480-324587/53	Lab Control Sample	Total/NA	Water	9060A	

Analysis Batch: 324714

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-107013-3	MW-268S-20161004	Total/NA	Water	300.0	
480-107013-4	MW-268M-20161004	Total/NA	Water	300.0	
MB 480-324714/4	Method Blank	Total/NA	Water	300.0	
LCS 480-324714/3	Lab Control Sample	Total/NA	Water	300.0	
480-107013-4 MS	MW-268M-20161004	Total/NA	Water	300.0	
480-107013-4 MSD	MW-268M-20161004	Total/NA	Water	300.0	

Analysis Batch: 324850

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-107013-3	MW-268S-20161004	Total/NA	Water	300.0	
MB 480-324850/4	Method Blank	Total/NA	Water	300.0	
LCS 480-324850/3	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 325086

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-107013-1	MW-267S-20161004	Total/NA	Water	9060A	
MB 480-325086/28	Method Blank	Total/NA	Water	9060A	
LCS 480-325086/29	Lab Control Sample	Total/NA	Water	9060A	

Analysis Batch: 325246

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-107013-3	MW-268S-20161004	Total/NA	Water	SM 2320B	
480-107013-4	MW-268M-20161004	Total/NA	Water	SM 2320B	
MB 480-325246/3	Method Blank	Total/NA	Water	SM 2320B	
LCS 480-325246/4	Lab Control Sample	Total/NA	Water	SM 2320B	
480-107013-4 MS	MW-268M-20161004	Total/NA	Water	SM 2320B	
480-107013-4 DU	MW-268M-20161004	Total/NA	Water	SM 2320B	

Lab Chronicle

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-107013-1

Client Sample ID: MW-267S-20161004

Lab Sample ID: 480-107013-1

Date Collected: 10/04/16 13:30

Matrix: Water

Date Received: 10/05/16 01:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		4	323990	10/06/16 02:25	JWG	TAL BUF
Total/NA	Prep	3535A			109914	10/07/16 08:57	ERJ	TAL BUR
Total/NA	Analysis	522		1	109981	10/10/16 11:07	NJS	TAL BUR
Total/NA	Prep	3005A			324002	10/06/16 09:31	MVZ	TAL BUF
Total/NA	Analysis	6010		1	324537	10/07/16 16:26	TRB	TAL BUF
Total/NA	Analysis	300.0		10	324036	10/06/16 12:42	CAV	TAL BUF
Total/NA	Prep	Distill/Ammonia			323953	10/05/16 13:21	KRT	TAL BUF
Total/NA	Analysis	350.1		1	323984	10/05/16 15:26	KRT	TAL BUF
Total/NA	Analysis	353.2		1	324035	10/05/16 16:50	ELR	TAL BUF
Total/NA	Analysis	9060A		40	325086	10/12/16 00:13	EKB	TAL BUF
Total/NA	Analysis	SM 2320B		1	324328	10/06/16 18:25	KMF	TAL BUF
Total/NA	Analysis	SM 4500 P E		1	323987	10/05/16 14:30	MDL	TAL BUF

Client Sample ID: MW-267M-20161004

Lab Sample ID: 480-107013-2

Date Collected: 10/04/16 14:10

Matrix: Water

Date Received: 10/05/16 01:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	323990	10/06/16 02:50	JWG	TAL BUF
Total/NA	Prep	3535A			109914	10/07/16 08:57	ERJ	TAL BUR
Total/NA	Analysis	522		1	109981	10/10/16 11:26	NJS	TAL BUR

Client Sample ID: MW-268S-20161004

Lab Sample ID: 480-107013-3

Date Collected: 10/04/16 11:35

Matrix: Water

Date Received: 10/05/16 01:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		50	323990	10/06/16 03:14	JWG	TAL BUF
Total/NA	Prep	3535A			109914	10/07/16 08:57	ERJ	TAL BUR
Total/NA	Analysis	522		1	109928	10/07/16 15:59	P1M	TAL BUR
Total/NA	Prep	3005A			324002	10/06/16 09:31	MVZ	TAL BUF
Total/NA	Analysis	6010		1	324537	10/07/16 16:30	TRB	TAL BUF
Total/NA	Analysis	300.0		50	324714	10/10/16 12:50	CAV	TAL BUF
Total/NA	Analysis	300.0		5	324850	10/11/16 10:57	CAV	TAL BUF
Total/NA	Prep	Distill/Ammonia			323953	10/05/16 13:21	KRT	TAL BUF
Total/NA	Analysis	350.1		1	323984	10/05/16 15:27	KRT	TAL BUF
Total/NA	Analysis	353.2		1	324035	10/05/16 16:52	ELR	TAL BUF
Total/NA	Analysis	9060A		1000	324587	10/07/16 23:31	EKB	TAL BUF
Total/NA	Analysis	SM 2320B		1	325246	10/12/16 14:55	KMF	TAL BUF
Total/NA	Analysis	SM 4500 P E		1	323987	10/05/16 14:30	MDL	TAL BUF

TestAmerica Buffalo

Lab Chronicle

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-107013-1

Client Sample ID: MW-268M-20161004

Lab Sample ID: 480-107013-4

Date Collected: 10/04/16 12:20

Matrix: Water

Date Received: 10/05/16 01:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		20	323990	10/06/16 03:39	JWG	TAL BUF
Total/NA	Prep	3535A			109914	10/07/16 08:57	ERJ	TAL BUR
Total/NA	Analysis	522		1	109981	10/10/16 11:44	NJS	TAL BUR
Total/NA	Prep	3005A			324002	10/06/16 09:31	MVZ	TAL BUF
Total/NA	Analysis	6010		1	324537	10/07/16 16:33	TRB	TAL BUF
Total/NA	Analysis	300.0		50	324714	10/10/16 12:59	CAV	TAL BUF
Total/NA	Prep	Distill/Ammonia			323953	10/05/16 13:21	KRT	TAL BUF
Total/NA	Analysis	350.1		1	323984	10/05/16 15:28	KRT	TAL BUF
Total/NA	Analysis	353.2		1	324035	10/05/16 16:53	ELR	TAL BUF
Total/NA	Analysis	9060A		500	324587	10/07/16 23:59	EKB	TAL BUF
Total/NA	Analysis	SM 2320B		1	325246	10/12/16 14:55	KMF	TAL BUF
Total/NA	Analysis	SM 4500 P E		1	323987	10/05/16 14:30	MDL	TAL BUF

Client Sample ID: MW-268D-20161004

Lab Sample ID: 480-107013-5

Date Collected: 10/04/16 13:00

Matrix: Water

Date Received: 10/05/16 01:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		5	323990	10/06/16 04:03	JWG	TAL BUF

Client Sample ID: REW-1-20161004

Lab Sample ID: 480-107013-6

Date Collected: 10/04/16 08:35

Matrix: Water

Date Received: 10/05/16 01:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	323990	10/06/16 04:27	JWG	TAL BUF
Total/NA	Prep	3005A			324002	10/06/16 09:31	MVZ	TAL BUF
Total/NA	Analysis	6010		1	324537	10/07/16 16:37	TRB	TAL BUF
Total/NA	Analysis	300.0		5	324036	10/06/16 13:06	CAV	TAL BUF
Total/NA	Prep	Distill/Ammonia			323953	10/05/16 13:21	KRT	TAL BUF
Total/NA	Analysis	350.1		1	323984	10/05/16 15:29	KRT	TAL BUF
Total/NA	Analysis	353.2		1	324035	10/05/16 16:54	ELR	TAL BUF
Total/NA	Analysis	9060A		1	324190	10/06/16 10:17	EKB	TAL BUF
Total/NA	Analysis	SM 2320B		1	324328	10/06/16 18:32	KMF	TAL BUF
Total/NA	Analysis	SM 4500 P E		1	323987	10/05/16 14:30	MDL	TAL BUF

Client Sample ID: REW-4-20161004

Lab Sample ID: 480-107013-7

Date Collected: 10/04/16 09:20

Matrix: Water

Date Received: 10/05/16 01:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	324093	10/06/16 14:45	RRS	TAL BUF

TestAmerica Buffalo

Lab Chronicle

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-107013-1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3005A			324002	10/06/16 09:31	MVZ	TAL BUF
Total/NA	Analysis	6010		1	324537	10/07/16 16:51	TRB	TAL BUF
Total/NA	Analysis	300.0		5	324036	10/06/16 13:15	CAV	TAL BUF
Total/NA	Prep	Distill/Ammonia			323953	10/05/16 13:21	KRT	TAL BUF
Total/NA	Analysis	350.1		5	323984	10/05/16 15:38	KRT	TAL BUF
Total/NA	Analysis	353.2		1	324035	10/05/16 16:55	ELR	TAL BUF
Total/NA	Analysis	9060A		1	324190	10/06/16 11:13	EKB	TAL BUF
Total/NA	Analysis	SM 2320B		1	324328	10/06/16 18:39	KMF	TAL BUF
Total/NA	Analysis	SM 4500 P E		1	323987	10/05/16 14:30	MDL	TAL BUF

Client Sample ID: REW-5-20161004

Lab Sample ID: 480-107013-8

Date Collected: 10/04/16 10:05

Matrix: Water

Date Received: 10/05/16 01:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	323990	10/06/16 05:15	JWG	TAL BUF
Total/NA	Prep	3005A			324002	10/06/16 09:31	MVZ	TAL BUF
Total/NA	Analysis	6010		1	324537	10/07/16 16:55	TRB	TAL BUF
Total/NA	Analysis	300.0		1	324036	10/06/16 13:23	CAV	TAL BUF
Total/NA	Prep	Distill/Ammonia			323953	10/05/16 13:21	KRT	TAL BUF
Total/NA	Analysis	350.1		2	323984	10/05/16 15:39	KRT	TAL BUF
Total/NA	Analysis	353.2		1	324035	10/05/16 16:57	ELR	TAL BUF
Total/NA	Analysis	9060A		1	324190	10/06/16 12:11	EKB	TAL BUF
Total/NA	Analysis	SM 2320B		1	324328	10/06/16 13:18	KMF	TAL BUF
Total/NA	Analysis	SM 4500 P E		1	323987	10/05/16 14:30	MDL	TAL BUF

Client Sample ID: DUP2-20161004

Lab Sample ID: 480-107013-9

Date Collected: 10/04/16 00:00

Matrix: Water

Date Received: 10/05/16 01:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	324093	10/06/16 15:09	RRS	TAL BUF

Client Sample ID: TRIP BLANKS

Lab Sample ID: 480-107013-10

Date Collected: 10/04/16 00:00

Matrix: Water

Date Received: 10/05/16 01:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	323990	10/06/16 06:03	JWG	TAL BUF

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

TAL BUR = TestAmerica Burlington, 30 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

Certification Summary

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-107013-1

Laboratory: TestAmerica Buffalo

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Arkansas DEQ	State Program	6	88-0686	07-06-17
California	State Program	9	1169CA	09-30-17
Connecticut	State Program	1	PH-0568	09-30-18
Florida	NELAP	4	E87672	06-30-17
Georgia	State Program	4	N/A	03-31-17
Georgia	State Program	4	956	03-31-17
Illinois	NELAP	5	200003	09-30-16 *
Iowa	State Program	7	374	03-01-17
Kansas	NELAP	7	E-10187	10-31-16
Kentucky (DW)	State Program	4	90029	12-31-16
Kentucky (UST)	State Program	4	30	03-31-17
Kentucky (WW)	State Program	4	90029	12-31-16
Louisiana	NELAP	6	02031	06-30-17
Maine	State Program	1	NY00044	12-04-16
Maryland	State Program	3	294	03-31-17
Massachusetts	State Program	1	M-NY044	06-30-17
Michigan	State Program	5	9937	03-31-17
Minnesota	NELAP	5	036-999-337	12-31-16
New Hampshire	NELAP Primary AB	1	2973	09-11-17
New Hampshire	NELAP Secondary AB	1	2337	11-17-16
New Jersey	NELAP	2	NY455	06-30-17
New York	NELAP	2	10026	03-31-17
North Dakota	State Program	8	R-176	03-31-17
Oklahoma	State Program	6	9421	08-31-17
Oregon	NELAP	10	NY200003	06-09-17
Pennsylvania	NELAP	3	68-00281	07-31-17
Rhode Island	State Program	1	LAO00328	12-30-16
Tennessee	State Program	4	TN02970	03-31-17
Texas	NELAP	6	T104704412-15-6	07-31-17
USDA	Federal		P330-11-00386	11-26-17
Virginia	NELAP	3	460185	09-14-17
Washington	State Program	10	C784	02-10-17
West Virginia DEP	State Program	3	252	09-30-16 *
Wisconsin	State Program	5	998310390	08-31-17

Laboratory: TestAmerica Burlington

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-0751	09-30-17
DE Haz. Subst. Cleanup Act (HSCA)	State Program	3	NA	02-02-17
Florida	NELAP	4	E87467	06-30-17
L-A-B	DoD ELAP		L2336	02-26-17
Maine	State Program	1	VT00008	04-17-17
Minnesota	NELAP	5	050-999-436	12-31-16
New Hampshire	NELAP	1	2006	12-18-16
New Jersey	NELAP	2	VT972	06-30-17
New York	NELAP	2	10391	04-01-17
Pennsylvania	NELAP	3	68-00489	04-30-17
Rhode Island	State Program	1	LAO00298	12-30-16

* Certification renewal pending - certification considered valid.

TestAmerica Buffalo

Certification Summary

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-107013-1

Laboratory: TestAmerica Burlington (Continued)

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

Authority	Program	EPA Region	Certification ID	Expiration Date
US Fish & Wildlife	Federal		LE-058448-0	10-31-16
USDA	Federal		P330-11-00093	10-28-16
Vermont	State Program	1	VT-4000	12-31-16
Virginia	NELAP	3	460209	12-14-16

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

Method Summary

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-107013-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds (GC/MS)	MA DEP	TAL BUF
522	1,4 Dioxane (GC/MS SIM)	EPA	TAL BUR
6010	Metals (ICP)	SW846	TAL BUF
300.0	Anions, Ion Chromatography	MCAWW	TAL BUF
350.1	Nitrogen, Ammonia	MCAWW	TAL BUF
353.2	Nitrate	EPA	TAL BUF
9060A	Organic Carbon, Total (TOC)	SW846	TAL BUF
SM 2320B	Alkalinity	SM	TAL BUF
SM 4500 P E	Orthophosphate	SM	TAL BUF

Protocol References:

EPA = US Environmental Protection Agency

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.

SM = "Standard Methods For The Examination Of Water And Wastewater",

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

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

TAL BUR = TestAmerica Burlington, 30 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

Sample Summary

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-107013-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-107013-1	MW-267S-20161004	Water	10/04/16 13:30	10/05/16 01:15
480-107013-2	MW-267M-20161004	Water	10/04/16 14:10	10/05/16 01:15
480-107013-3	MW-268S-20161004	Water	10/04/16 11:35	10/05/16 01:15
480-107013-4	MW-268M-20161004	Water	10/04/16 12:20	10/05/16 01:15
480-107013-5	MW-268D-20161004	Water	10/04/16 13:00	10/05/16 01:15
480-107013-6	REW-1-20161004	Water	10/04/16 08:35	10/05/16 01:15
480-107013-7	REW-4-20161004	Water	10/04/16 09:20	10/05/16 01:15
480-107013-8	REW-5-20161004	Water	10/04/16 10:05	10/05/16 01:15
480-107013-9	DUP2-20161004	Water	10/04/16 00:00	10/05/16 01:15
480-107013-10	TRIP BLANKS	Water	10/04/16 00:00	10/05/16 01:15



Login Sample Receipt Checklist

Client: Innovative Engineering Solutions, Inc

Job Number: 480-107013-1

Login Number: 107013

List Number: 1

Creator: Williams, Christopher S

List Source: TestAmerica Buffalo

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
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 (Excluding tests with immediate HTs)..	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	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	IESI
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

Login Sample Receipt Checklist

Client: Innovative Engineering Solutions, Inc

Job Number: 480-107013-1

Login Number: 107013

List Number: 2

Creator: Lavigne, Scott M

List Source: TestAmerica Burlington

List Creation: 10/05/16 12:35 PM

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	True	Seal present with no number.
Sample custody seals, if present, are 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	4.4°C,6.0°C,4.8°C,3.8°C,2.8°C
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 containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	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.	N/A	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Client Information:
 Client Contact: Wendy Sorensen
 Company: Wendy Sorensen
 Address: 508-404-3196
 City: Waltham MA
 State and Zip: MA 02071
 Client's Phone: 508-669-0933
 Client's Contact Email: Wendy.Sorensen@TestAmerica.com
 Client's Project Name/Number: RA-008
 Sample Collection Site Name & Location: Waltham MA

Analysis Requested
 Due Date Requested: 10/11/16
 Turnaround Time (TAT) Requested (business days): 5 bus
 Quote # or Project #: RA-008
 PO #: RA-008
 WO #: RA-008
 PWS ID #: RA-008

Sample Identification	Sample Collection Date (MM/DD/YY)	Sample Collection Time (24 Hour Clock)	Sample Type: C=Comp G=Grab	Matrix Type **	Analysis Requested											Total Number of Containers (enter total for each line)	S	
					1	2	3	4	5	6	7	8	9	10	11			12
MW-2673-20161004	10/14/16	1330	C	W	X	X	X	X	X	X	X	X	X	X	X	X	11	
MW-2674-20161004	10/14/16	1410	C	W	X	X	X	X	X	X	X	X	X	X	X	X	5	
MW-2675-20161004	10/14/16	1135	C	W	X	X	X	X	X	X	X	X	X	X	X	X	11	
MW-2676-20161004	10/14/16	1220	C	W	X	X	X	X	X	X	X	X	X	X	X	X	11	
MW-2677-20161004	10/14/16	1300	C	W	X	X	X	X	X	X	X	X	X	X	X	X	3	
REW-1-20161004	10/14/16	0835	C	W	X	X	X	X	X	X	X	X	X	X	X	X	3	
REW-4-20161004	10/14/16	0920	C	W	X	X	X	X	X	X	X	X	X	X	X	X	3	
REW-5-20161004	10/14/16	1005	C	W	X	X	X	X	X	X	X	X	X	X	X	X	3	
DUP-1-20161004	10/14/16	-	C	W	X	X	X	X	X	X	X	X	X	X	X	X	3	
TRAP Blank	10/14/16	-	C	W	X	X	X	X	X	X	X	X	X	X	X	X	3	

Regulatory Programs:
 MCP GW1/S1
 RCP CT RSR
 DEP Form EDD Required
 eDEP Filing NPDES

Preservation Codes:
 A - Hydrochloric Acid J - Deionized Water
 B - Sodium Hydroxide M - Hexane
 C - Zinc Acetate N - No Preservative
 D - Nitric Acid P - Sodium Sulfate
 E - Sodium Bisulfite Q - Sodium Sulfite
 F - Methanol R - Sodium Thiosulfate
 H - Ascorbic Acid S - Sulfuric Acid
 Z - other (specify)

Subcontract Policy:
 Unless you provide instructions to the contrary, or specify which sub-contract labs are or are not to be used, you agree in advance to permit TestAmerica to use certified, subcontract labs, without any additional notification made by us, as necessary to fulfill your work order.

Sample Disposal Requirements (A fee may be assessed):
 Return To Client Disposal By Lab Archive For _____ Months

NOTE!! ALL SAMPLES MUST BE TRANSPORTED IN A COOLER, ON ICE!!

Relinquished by: [Signature] Date/Time: 10/14/16 1430 Company: TestAmerica
 Relinquished by: [Signature] Date/Time: 10/15/16 1030 Company: TestAmerica
 Relinquished by: [Signature] Date/Time: 10/15/16 1030 Company: TestAmerica

Custody Seals Intact: Yes No Custody Seal No.: _____
 Cooler Temperature(s) °C and Other Remarks: _____

ORIGIN ID:BXCA (781) 466-6900
PAUL HOBART
TESTAMERICA
240 BEAR HILL ROAD
SUITE 104
WALTHAM, MA 02451
UNITED STATES US

SHIP DATE: 04OCT16
ACTWGT: 45.1 LB
CAD: 590687/CAFE2912

BILL RECIPIENT

TO **SAMPLE RECEIVING**
TESTAMERICA BURLINGTON
30 COMMUNITY DRIVE
SUITE 11
SOUTH BURLINGTON VT 05403

(802) 660-1990

REF:

INU:

PO:

DEPT:



FedEx
Express



J1513150813011V

ORIGIN ID:BXCA (781) 466-6900
PAUL HOBART
TESTAMERICA
240 BEAR HILL ROAD
SUITE 104
WALTHAM, MA 02451
UNITED STATES US

SHIP DATE: 04OCT16
ACTWGT: 57.1 LB
CAD: 590687/CAFE2912

BILL RECIPIENT

TO **SAMPLE RECEIVING**
TESTAMERICA BURLINGTON
30 COMMUNITY DRIVE
SUITE 11
SOUTH BURLINGTON VT 05403

(802) 660-1990

REF:

INU:

PO:

DEPT:



FedEx
Express



J1513150813011V

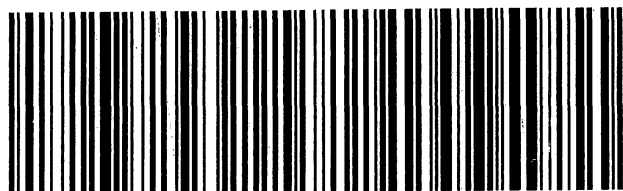
1 of 7
TRK# 0201 4258 8390 8086
MASTER

WED - 05 OCT 3:00P
STANDARD OVERNIGHT

NC BTVA

05403
VT-US BTV

Part # 156148V-434 RIT2 02/17



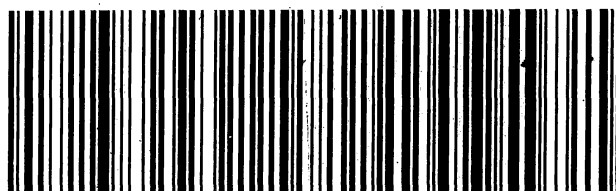
2 of 7
MPS# 0263 4258 8390 8097
Mstr# 4258 8390 8086

WED - 05 OCT 3:00P
STANDARD OVERNIGHT

NC BTVA

05403
VT-US BTV

Part # 156148V-434 RIT2 02/17



SHIP DATE: 04OCT16
ACTWGT: 61.0 LB
CAD: 590687/CAFE2912

BILL RECIPIENT

ORIGIN ID:BXCA (781) 466-6900
PAUL HOBART
TESTAMERICA
240 BEAR HILL ROAD
SUITE 104
WALTHAM, MA 02451
UNITED STATES US

TO **SAMPLE RECEIVING**
TESTAMERICA BURLINGTON
30 COMMUNITY DRIVE
SUITE 11
SOUTH BURLINGTON VT 05403

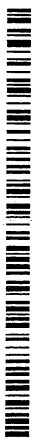
(802) 660-1990

REF:

INU:

PO:

DEPT:



FedEx
Express



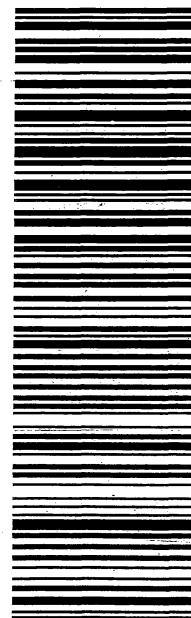
J1513150813011V

WED - 05 OCT 3:00P
STANDARD OVERNIGHT

4 of 7
MPS# 0263 4258 8390 8112
Mstr# 4258 8390 8086

NC BTVA

05403
VT-US BTV



- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15

ORIGIN ID:BXCA (781) 466-6900
 PAUL HOBART
 TESTAMERICA
 240 BEAR HILL ROAD
 SUITE 104
 WALTHAM, MA 02451
 UNITED STATES US

SHIP DATE: 04OCT16
 ACTWGT: 54.5 LB
 CAD: 590687/CAFE2912

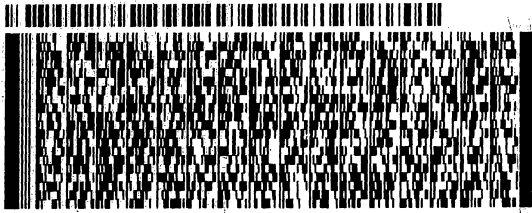
BILL RECIPIENT

TO **SAMPLE RECEIVING**
TESTAMERICA BURLINGTON
30 COMMUNITY DRIVE
SUITE 11
SOUTH BURLINGTON VT 05403

(802) 880-1990
 TNU:
 PO:

REF:

DEPT:



538C1/E52E/299

ORIGIN ID:BXCA (781) 466-6900
 PAUL HOBART
 TESTAMERICA
 240 BEAR HILL ROAD
 SUITE 104
 WALTHAM, MA 02451
 UNITED STATES US

SHIP DATE: 04OCT16
 ACTWGT: 55.8 LB
 CAD: 590687/CAFE2912

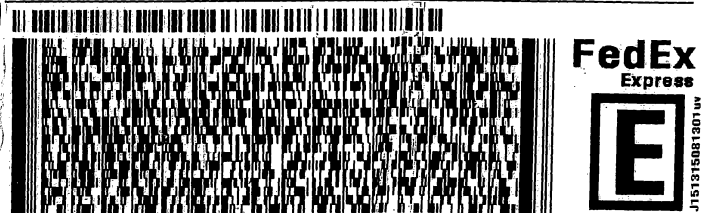
BILL RECIPIENT

TO **SAMPLE RECEIVING**
TESTAMERICA BURLINGTON
30 COMMUNITY DRIVE
SUITE 11
SOUTH BURLINGTON VT 05403

(802) 880-1990
 TNU:
 PO:

REF:

DEPT:



538C1/E52E/299

6 of 7
 MPS# 4258 8390 8134
 0263
 Mstr# 4258 8390 8086

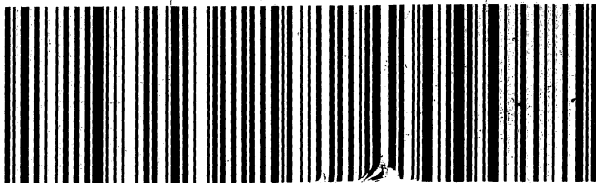
WED - 05 OCT 3:00P
 STANDARD OVERNIGHT

0201

NC BTVA

05403
 VT-US BTV

Part # 156148V-434 RIT2 02/17



7 of 7
 MPS# 4258 8390 8145
 0263
 Mstr# 4258 8390 8086

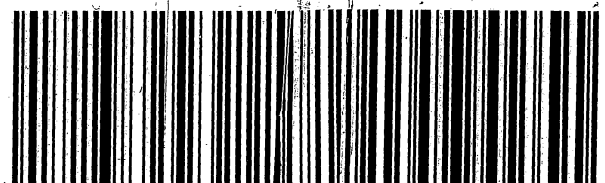
WED - 05 OCT 3:00P
 STANDARD OVERNIGHT

0201

NC BTVA

05403
 VT-US BTV

Part # 156148V-434 RIT2 02/17



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Buffalo

10 Hazelwood Drive

Amherst, NY 14228-2298

Tel: (716)691-2600

TestAmerica Job ID: 480-107127-1

Client Project/Site: IDS Wayland

For:

Innovative Engineering Solutions, Inc

25 Spring Street

Walpole, Massachusetts 02081

Attn: Vicki Pariyar



Authorized for release by:

10/14/2016 10:43:27 AM

Denise Giglia, Project Management Assistant II

denise.giglia@testamericainc.com

Designee for

Becky Mason, Project Manager II

(413)572-4000

becky.mason@testamericainc.com

LINKS

Review your project
results through

TotalAccess

Have a Question?



Visit us at:

www.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.

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15



Table of Contents

Cover Page	1
Table of Contents	2
Definitions/Glossary	3
Case Narrative	4
Detection Summary	7
Client Sample Results	11
Surrogate Summary	40
QC Sample Results	41
QC Association Summary	63
Lab Chronicle	68
Certification Summary	73
Method Summary	75
Sample Summary	76
Receipt Checklists	77
Chain of Custody	79

Definitions/Glossary

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-107127-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-107127-1

Job ID: 480-107127-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative 480-107127-1

Receipt

The samples were received on 10/6/2016 1:45 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 1.1° C and 1.6° C.

GC/MS VOA

Method 8260C: With the exception of diluted samples, per question G on the MassDEP Analytical Protocol Certification Form, TestAmerica's routine reporting limits do not achieve the CAM reporting limits specified in this CAM protocol for 1,2-dibromo-3-chloropropane, Carbon Disulfide, Isopropyl Ether, Naphthalene, tert-Amyl Methyl Ether and Tetrahydrofuran.

Method 8260C: The following sample was diluted to bring the concentration of target analytes within the calibration range: REW-12-20161005 (480-107127-7). Elevated reporting limits (RLs) are provided.

Method 8260C: The continuing calibration verification (CCV) associated with batch 480-324456 recovered outside MCP control limits but <40% for Tetrahydrofuran, Naphthalene . MCP protocol allows for 20% of the target compounds to be outside the 20% difference but not over 40% difference. The following samples are impacted: MW-560-20161005 (480-107127-13) and MW-563-20161005 (480-107127-15).

Method 8260C: The laboratory control sample (LCS) for batch 480-324456 recovered outside control limits but were greater than 10% for the following analytes: 1,4-Dioxane . MCP protocol allows for 10% of the target compounds to be outside of the limits provided the recoveries are over 10%. The following samples are impacted: MW-560-20161005 (480-107127-13) and MW-563-20161005 (480-107127-15).

Method 8260C: The laboratory control sample (LCS) for batch 480-324621 recovered outside control limits but were greater than 10% for the following analytes: 1,4-Dioxane . MCP protocol allows for 10% of the target compounds to be outside of the limits provided the recoveries are over 10%. The following sample is impacted: MW-561-20161005 (480-107127-14).

Method 8260C: The continuing calibration verification (CCV) associated with batch 480-324621 recovered outside MCP control limits but <40% for 1,4-Dioxane. MCP protocol allows for 20% of the target compounds to be outside the 20% difference but not over 40% difference. The following sample is impacted: MW-561-20161005 (480-107127-14).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

HPLC/IC

Method 300.0: The following samples were diluted due to the nature of the sample matrix: REW-7-20161005 (480-107127-2), REW-8-20161005 (480-107127-3), REW-9-20161005 (480-107127-4), REW-10-20161005 (480-107127-5), REW-11-20161005 (480-107127-6), REW-12-20161005 (480-107127-7), MW-560-20161005 (480-107127-13), MW-561-20161005 (480-107127-14) and MW-563-20161005 (480-107127-15). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals

Method 6010: At the request of the client, an abbreviated/modified MCP compound list was reported for this job.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry

Method 9040C, SM 4500 H+ B: This analysis is normally performed in the field and has a method-defined holding time of 15 minutes. The following samples has been qualified with the "HF" flag to indicate analysis was performed in the laboratory outside the 15 minute timeframe: REW-7-20161005 (480-107127-2), REW-8-20161005 (480-107127-3), REW-9-20161005 (480-107127-4), REW-10-20161005

Case Narrative

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-107127-1

Job ID: 480-107127-1 (Continued)

Laboratory: TestAmerica Buffalo (Continued)

(480-107127-5), REW-11-20161005 (480-107127-6), REW-12-20161005 (480-107127-7), MW-560-20161005 (480-107127-13), MW-561-20161005 (480-107127-14) and MW-563-20161005 (480-107127-15).

Method Distill/Ammonia: Due to the matrix, the initial volume(s) used for the following samples deviated from the standard procedure: REW-8-20161005 (480-107127-3) and (480-107127-A-3 DU). The reporting limits (RLs) have been adjusted proportionately.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15

MassDEP Analytical Protocol Certification Form

Laboratory Name: **TestAmerica Buffalo** Project #: **480-107127**

Project Location: **IDS Wayland** RTN:

This form provides certifications for the following data set: list Laboratory Sample ID Number(s):
480-107127 [1-15]

Matrices: Groundwater/Surface Water Soil/Sediment Drinking Water Air Other:

CAM Protocols (check all that apply below):

8260 VOC CAM II A <input checked="" type="checkbox"/>	7470/7471 Hg CAM III B <input type="checkbox"/>	Mass DEP VPH CAM IV A <input type="checkbox"/>	8081 Pesticides CAM V B <input type="checkbox"/>	7196 Hex Cr CAM VI B <input type="checkbox"/>	Mass DEP APH CAM IX A <input type="checkbox"/>
8270 SVOC CAM II B <input type="checkbox"/>	7010 Metals CAM III C <input type="checkbox"/>	Mass DEP EPH CAM IV B <input type="checkbox"/>	8151 Herbicides CAM V C <input type="checkbox"/>	8330 Explosives CAM VIII A <input type="checkbox"/>	TO-15 VOC CAM IX B <input type="checkbox"/>
6010 Metals CAM III A <input checked="" type="checkbox"/>	6020 Metals CAM III D <input type="checkbox"/>	8082 PCB CAM V A <input type="checkbox"/>	9014 Total Cyanide/PAC CAM VI A <input type="checkbox"/>	6860 Perchlorate CAM VIII B <input type="checkbox"/>	

Affirmative Responses to Questions A through F are 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 time.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
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?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
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"?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
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). b. APH and TO-15 Methods only: Was the complete analyte list reported for each method?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No
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)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

Responses to Questions G, H and I below are required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No ¹
----------	---	--

Data User Note: 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

H	Were all QC performance standards specified in the CAM protocol(s) achieved?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No ¹
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s) ?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No ¹

¹ All negative responses must be addressed in an attached laboratory narrative.

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, is accurate and complete.

Signature: <u>Denise L. Giglia</u>	Position: <u>Project Manager Assistant II</u>
Printed Name: <u>Denise L. Giglia</u>	Date: <u>10/14/16 10:31</u>

Detection Summary

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-107127-1

Client Sample ID: MW-269Ma-20161005

Lab Sample ID: 480-107127-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	2.5		1.0		ug/L	1		8260C	Total/NA
Trichloroethene	1.3		1.0		ug/L	1		8260C	Total/NA
1,4-Dioxane	1.1		0.20		ug/L	1		522	Total/NA

Client Sample ID: REW-7-20161005

Lab Sample ID: 480-107127-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	38		10		ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	9.7		1.0		ug/L	1		8260C	Total/NA
Toluene	58		1.0		ug/L	1		8260C	Total/NA
Vinyl chloride	8.6		1.0		ug/L	1		8260C	Total/NA
Iron	61		0.050		mg/L	1		6010	Total/NA
Chloride	23		2.5		mg/L	5		300.0	Total/NA
TOC Result 1	26		1.0		mg/L	1		9060A	Total/NA
TOC Result 2	28		1.0		mg/L	1		9060A	Total/NA
Total Organic Carbon - Duplicates	27		1.0		mg/L	1		9060A	Total/NA
Alkalinity, Total	260		5.0		mg/L	1		SM 2320B	Total/NA
Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
pH	6.7	HF	0.1		SU	1		9040C	Total/NA

Client Sample ID: REW-8-20161005

Lab Sample ID: 480-107127-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Toluene	9.4		1.0		ug/L	1		8260C	Total/NA
Iron	49		0.050		mg/L	1		6010	Total/NA
Chloride	35		2.5		mg/L	5		300.0	Total/NA
Ammonia	6.7		1.0		mg/L	1		350.1	Total/NA
TOC Result 1	13		1.0		mg/L	1		9060A	Total/NA
TOC Result 2	14		1.0		mg/L	1		9060A	Total/NA
Total Organic Carbon - Duplicates	13		1.0		mg/L	1		9060A	Total/NA
Alkalinity, Total	260		5.0		mg/L	1		SM 2320B	Total/NA
ortho-Phosphate	0.21		0.020		mg/L	1		SM 4500 P E	Total/NA
Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
pH	6.8	HF	0.1		SU	1		9040C	Total/NA

Client Sample ID: REW-9-20161005

Lab Sample ID: 480-107127-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	140		10		ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	24		1.0		ug/L	1		8260C	Total/NA
Ethylbenzene	1.1		1.0		ug/L	1		8260C	Total/NA
m-Xylene & p-Xylene	3.9		2.0		ug/L	1		8260C	Total/NA
Toluene	48		1.0		ug/L	1		8260C	Total/NA
Vinyl chloride	13		1.0		ug/L	1		8260C	Total/NA
Iron	100		0.050		mg/L	1		6010	Total/NA
Chloride	28		2.5		mg/L	5		300.0	Total/NA
Sulfate	8.6		2.0		mg/L	1		300.0	Total/NA
Ammonia	0.20		0.20		mg/L	1		350.1	Total/NA
TOC Result 1	250		5.0		mg/L	5		9060A	Total/NA
TOC Result 2	250		5.0		mg/L	5		9060A	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

Detection Summary

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-107127-1

Client Sample ID: REW-9-20161005 (Continued)

Lab Sample ID: 480-107127-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Organic Carbon - Duplicates	250		5.0		mg/L	5		9060A	Total/NA
Alkalinity, Total	380		5.0		mg/L	1		SM 2320B	Total/NA
ortho-Phosphate	0.077		0.020		mg/L	1		SM 4500 P E	Total/NA
Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
pH	6.4	HF	0.1		SU	1		9040C	Total/NA

Client Sample ID: REW-10-20161005

Lab Sample ID: 480-107127-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	2.3		0.050		mg/L	1		6010	Total/NA
Chloride	68		1.0		mg/L	2		300.0	Total/NA
Sulfate	26		4.0		mg/L	2		300.0	Total/NA
Ammonia	0.22		0.20		mg/L	1		350.1	Total/NA
TOC Result 2	1.1		1.0		mg/L	1		9060A	Total/NA
Alkalinity, Total	81		5.0		mg/L	1		SM 2320B	Total/NA
ortho-Phosphate	0.029		0.020		mg/L	1		SM 4500 P E	Total/NA
Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
pH	7.1	HF	0.1		SU	1		9040C	Total/NA

Client Sample ID: REW-11-20161005

Lab Sample ID: 480-107127-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	30		10		ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	20		1.0		ug/L	1		8260C	Total/NA
Toluene	34		1.0		ug/L	1		8260C	Total/NA
Trichloroethene	3.4		1.0		ug/L	1		8260C	Total/NA
Vinyl chloride	9.7		1.0		ug/L	1		8260C	Total/NA
Iron	43		0.050		mg/L	1		6010	Total/NA
Chloride	50		2.5		mg/L	5		300.0	Total/NA
Sulfate	19		10		mg/L	5		300.0	Total/NA
Ammonia	0.79		0.20		mg/L	1		350.1	Total/NA
TOC Result 1	78		1.0		mg/L	1		9060A	Total/NA
TOC Result 2	83		1.0		mg/L	1		9060A	Total/NA
Total Organic Carbon - Duplicates	80		1.0		mg/L	1		9060A	Total/NA
Alkalinity, Total	160		5.0		mg/L	1		SM 2320B	Total/NA
ortho-Phosphate	0.027		0.020		mg/L	1		SM 4500 P E	Total/NA
Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
pH	6.6	HF	0.1		SU	1		9040C	Total/NA

Client Sample ID: REW-12-20161005

Lab Sample ID: 480-107127-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	2.2		2.0		ug/L	2		8260C	Total/NA
2-Butanone (MEK)	66		20		ug/L	2		8260C	Total/NA
cis-1,2-Dichloroethene	130		2.0		ug/L	2		8260C	Total/NA
Toluene	72		2.0		ug/L	2		8260C	Total/NA
Trichloroethene	29		2.0		ug/L	2		8260C	Total/NA
Vinyl chloride	53		2.0		ug/L	2		8260C	Total/NA
Iron	81		0.050		mg/L	1		6010	Total/NA
Chloride	36		2.5		mg/L	5		300.0	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

Detection Summary

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-107127-1

Client Sample ID: REW-12-20161005 (Continued)

Lab Sample ID: 480-107127-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate	21		10		mg/L	5		300.0	Total/NA
Ammonia	0.27		0.20		mg/L	1		350.1	Total/NA
TOC Result 1	94		1.0		mg/L	1		9060A	Total/NA
TOC Result 2	99		1.0		mg/L	1		9060A	Total/NA
Total Organic Carbon - Duplicates	97		1.0		mg/L	1		9060A	Total/NA
Alkalinity, Total	200		5.0		mg/L	1		SM 2320B	Total/NA
ortho-Phosphate	0.026		0.020		mg/L	1		SM 4500 P E	Total/NA
Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
pH	6.5	HF	0.1		SU	1		9040C	Total/NA

Client Sample ID: DUP3-20161005

Lab Sample ID: 480-107127-8

No Detections.

Client Sample ID: TRIP BLANKS

Lab Sample ID: 480-107127-9

No Detections.

Client Sample ID: MW-266Ma-20161005

Lab Sample ID: 480-107127-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	4.1		1.0		ug/L	1		8260C	Total/NA
m-Xylene & p-Xylene	2.1		2.0		ug/L	1		8260C	Total/NA
Toluene	55		1.0		ug/L	1		8260C	Total/NA
Vinyl chloride	4.5		1.0		ug/L	1		8260C	Total/NA
1,4-Dioxane	1.5		0.20		ug/L	1		522	Total/NA

Client Sample ID: MW-266Mb-20161005

Lab Sample ID: 480-107127-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dichlorobenzene	1.0		1.0		ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	5.3		1.0		ug/L	1		8260C	Total/NA
Toluene	3.9		1.0		ug/L	1		8260C	Total/NA
trans-1,2-Dichloroethene	1.6		1.0		ug/L	1		8260C	Total/NA
Trichloroethene	2.9		1.0		ug/L	1		8260C	Total/NA
Vinyl chloride	23		1.0		ug/L	1		8260C	Total/NA

Client Sample ID: MW-560-20161005

Lab Sample ID: 480-107127-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	22		10		ug/L	1		8260C	Total/NA
m-Xylene & p-Xylene	2.7		2.0		ug/L	1		8260C	Total/NA
Toluene	11		1.0		ug/L	1		8260C	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

Detection Summary

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-107127-1

Client Sample ID: MW-560-20161005 (Continued)

Lab Sample ID: 480-107127-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vinyl chloride	1.2		1.0		ug/L	1		8260C	Total/NA
Iron	110		0.050		mg/L	1		6010	Total/NA
Chloride	34		2.5		mg/L	5		300.0	Total/NA
TOC Result 1	5.3		1.0		mg/L	1		9060A	Total/NA
TOC Result 2	6.3		1.0		mg/L	1		9060A	Total/NA
Total Organic Carbon - Duplicates	5.8		1.0		mg/L	1		9060A	Total/NA
Alkalinity, Total	520		5.0		mg/L	1		SM 2320B	Total/NA
Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
pH	6.9	HF	0.1		SU	1		9040C	Total/NA

Client Sample ID: MW-561-20161005

Lab Sample ID: 480-107127-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
m-Xylene & p-Xylene	2.5		2.0		ug/L	1		8260C	Total/NA
Iron	110		0.050		mg/L	1		6010	Total/NA
Chloride	43		2.5		mg/L	5		300.0	Total/NA
Ammonia	3.9		1.0		mg/L	5		350.1	Total/NA
TOC Result 1	8.1		1.0		mg/L	1		9060A	Total/NA
TOC Result 2	9.1		1.0		mg/L	1		9060A	Total/NA
Total Organic Carbon - Duplicates	8.6		1.0		mg/L	1		9060A	Total/NA
Alkalinity, Total	370		5.0		mg/L	1		SM 2320B	Total/NA
Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
pH	6.7	HF	0.1		SU	1		9040C	Total/NA

Client Sample ID: MW-563-20161005

Lab Sample ID: 480-107127-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	58		0.050		mg/L	1		6010	Total/NA
Chloride	42		2.5		mg/L	5		300.0	Total/NA
Ammonia	1.3		0.20		mg/L	1		350.1	Total/NA
TOC Result 1	1.6		1.0		mg/L	1		9060A	Total/NA
TOC Result 2	1.7		1.0		mg/L	1		9060A	Total/NA
Total Organic Carbon - Duplicates	1.6		1.0		mg/L	1		9060A	Total/NA
Alkalinity, Total	230		5.0		mg/L	1		SM 2320B	Total/NA
Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
pH	6.6	HF	0.1		SU	1		9040C	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

Client Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-107127-1

Client Sample ID: MW-269Ma-20161005

Lab Sample ID: 480-107127-1

Date Collected: 10/05/16 08:15

Matrix: Water

Date Received: 10/06/16 01:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			10/07/16 14:36	1
1,1,1-Trichloroethane	ND		1.0		ug/L			10/07/16 14:36	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			10/07/16 14:36	1
1,1,2-Trichloroethane	ND		1.0		ug/L			10/07/16 14:36	1
1,1-Dichloroethane	ND		1.0		ug/L			10/07/16 14:36	1
1,1-Dichloroethene	ND		1.0		ug/L			10/07/16 14:36	1
1,1-Dichloropropene	ND		1.0		ug/L			10/07/16 14:36	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			10/07/16 14:36	1
1,2,3-Trichloropropane	ND		1.0		ug/L			10/07/16 14:36	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			10/07/16 14:36	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			10/07/16 14:36	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			10/07/16 14:36	1
1,2-Dichlorobenzene	ND		1.0		ug/L			10/07/16 14:36	1
1,2-Dichloroethane	ND		1.0		ug/L			10/07/16 14:36	1
1,2-Dichloropropane	ND		1.0		ug/L			10/07/16 14:36	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			10/07/16 14:36	1
1,3-Dichlorobenzene	ND		1.0		ug/L			10/07/16 14:36	1
1,3-Dichloropropane	ND		1.0		ug/L			10/07/16 14:36	1
1,4-Dichlorobenzene	ND		1.0		ug/L			10/07/16 14:36	1
1,4-Dioxane	ND		50		ug/L			10/07/16 14:36	1
2,2-Dichloropropane	ND		1.0		ug/L			10/07/16 14:36	1
2-Butanone (MEK)	ND		10		ug/L			10/07/16 14:36	1
2-Chlorotoluene	ND		1.0		ug/L			10/07/16 14:36	1
2-Hexanone	ND		10		ug/L			10/07/16 14:36	1
4-Chlorotoluene	ND		1.0		ug/L			10/07/16 14:36	1
4-Isopropyltoluene	ND		1.0		ug/L			10/07/16 14:36	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			10/07/16 14:36	1
Acetone	ND		50		ug/L			10/07/16 14:36	1
Benzene	ND		1.0		ug/L			10/07/16 14:36	1
Bromobenzene	ND		1.0		ug/L			10/07/16 14:36	1
Bromoform	ND		1.0		ug/L			10/07/16 14:36	1
Bromomethane	ND		2.0		ug/L			10/07/16 14:36	1
Carbon disulfide	ND		10		ug/L			10/07/16 14:36	1
Carbon tetrachloride	ND		1.0		ug/L			10/07/16 14:36	1
Chlorobenzene	ND		1.0		ug/L			10/07/16 14:36	1
Chlorobromomethane	ND		1.0		ug/L			10/07/16 14:36	1
Chlorodibromomethane	ND		0.50		ug/L			10/07/16 14:36	1
Chloroethane	ND		2.0		ug/L			10/07/16 14:36	1
Chloroform	ND		1.0		ug/L			10/07/16 14:36	1
Chloromethane	ND		2.0		ug/L			10/07/16 14:36	1
cis-1,2-Dichloroethene	2.5		1.0		ug/L			10/07/16 14:36	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			10/07/16 14:36	1
Dichlorobromomethane	ND		0.50		ug/L			10/07/16 14:36	1
Dichlorodifluoromethane	ND		1.0		ug/L			10/07/16 14:36	1
Ethyl ether	ND		1.0		ug/L			10/07/16 14:36	1
Ethylbenzene	ND		1.0		ug/L			10/07/16 14:36	1
Ethylene Dibromide	ND		1.0		ug/L			10/07/16 14:36	1
Hexachlorobutadiene	ND		0.40		ug/L			10/07/16 14:36	1
Isopropyl ether	ND		10		ug/L			10/07/16 14:36	1

TestAmerica Buffalo

Client Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-107127-1

Client Sample ID: MW-269Ma-20161005

Lab Sample ID: 480-107127-1

Date Collected: 10/05/16 08:15

Matrix: Water

Date Received: 10/06/16 01:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	ND		1.0		ug/L			10/07/16 14:36	1
Methyl tert-butyl ether	ND		1.0		ug/L			10/07/16 14:36	1
Methylene Chloride	ND		1.0		ug/L			10/07/16 14:36	1
m-Xylene & p-Xylene	ND		2.0		ug/L			10/07/16 14:36	1
Naphthalene	ND		5.0		ug/L			10/07/16 14:36	1
n-Butylbenzene	ND		1.0		ug/L			10/07/16 14:36	1
N-Propylbenzene	ND		1.0		ug/L			10/07/16 14:36	1
o-Xylene	ND		1.0		ug/L			10/07/16 14:36	1
sec-Butylbenzene	ND		1.0		ug/L			10/07/16 14:36	1
Styrene	ND		1.0		ug/L			10/07/16 14:36	1
Tert-amyl methyl ether	ND		5.0		ug/L			10/07/16 14:36	1
Tert-butyl ethyl ether	ND		5.0		ug/L			10/07/16 14:36	1
tert-Butylbenzene	ND		1.0		ug/L			10/07/16 14:36	1
Tetrachloroethene	ND		1.0		ug/L			10/07/16 14:36	1
Tetrahydrofuran	ND		10		ug/L			10/07/16 14:36	1
Toluene	ND		1.0		ug/L			10/07/16 14:36	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			10/07/16 14:36	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			10/07/16 14:36	1
Trichloroethene	1.3		1.0		ug/L			10/07/16 14:36	1
Trichlorofluoromethane	ND		1.0		ug/L			10/07/16 14:36	1
Vinyl chloride	ND		1.0		ug/L			10/07/16 14:36	1
Dibromomethane	ND		1.0		ug/L			10/07/16 14:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>Toluene-d8 (Surr)</i>	89		70 - 130		10/07/16 14:36	1
<i>1,2-Dichloroethane-d4 (Surr)</i>	85		70 - 130		10/07/16 14:36	1
<i>4-Bromofluorobenzene (Surr)</i>	97		70 - 130		10/07/16 14:36	1

Method: 522 - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	1.1		0.20		ug/L		10/12/16 19:30	10/13/16 14:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>1,4-Dioxane-d8 (Surr)</i>	73		70 - 130	10/12/16 19:30	10/13/16 14:34	1

Client Sample ID: REW-7-20161005

Lab Sample ID: 480-107127-2

Date Collected: 10/05/16 11:20

Matrix: Water

Date Received: 10/06/16 01:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			10/07/16 15:00	1
1,1,1-Trichloroethane	ND		1.0		ug/L			10/07/16 15:00	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			10/07/16 15:00	1
1,1,2-Trichloroethane	ND		1.0		ug/L			10/07/16 15:00	1
1,1-Dichloroethane	ND		1.0		ug/L			10/07/16 15:00	1
1,1-Dichloroethene	ND		1.0		ug/L			10/07/16 15:00	1
1,1-Dichloropropene	ND		1.0		ug/L			10/07/16 15:00	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			10/07/16 15:00	1
1,2,3-Trichloropropane	ND		1.0		ug/L			10/07/16 15:00	1

TestAmerica Buffalo

Client Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-107127-1

Client Sample ID: REW-7-20161005

Lab Sample ID: 480-107127-2

Date Collected: 10/05/16 11:20

Matrix: Water

Date Received: 10/06/16 01:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		1.0		ug/L			10/07/16 15:00	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			10/07/16 15:00	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			10/07/16 15:00	1
1,2-Dichlorobenzene	ND		1.0		ug/L			10/07/16 15:00	1
1,2-Dichloroethane	ND		1.0		ug/L			10/07/16 15:00	1
1,2-Dichloropropane	ND		1.0		ug/L			10/07/16 15:00	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			10/07/16 15:00	1
1,3-Dichlorobenzene	ND		1.0		ug/L			10/07/16 15:00	1
1,3-Dichloropropane	ND		1.0		ug/L			10/07/16 15:00	1
1,4-Dichlorobenzene	ND		1.0		ug/L			10/07/16 15:00	1
1,4-Dioxane	ND		50		ug/L			10/07/16 15:00	1
2,2-Dichloropropane	ND		1.0		ug/L			10/07/16 15:00	1
2-Butanone (MEK)	38		10		ug/L			10/07/16 15:00	1
2-Chlorotoluene	ND		1.0		ug/L			10/07/16 15:00	1
2-Hexanone	ND		10		ug/L			10/07/16 15:00	1
4-Chlorotoluene	ND		1.0		ug/L			10/07/16 15:00	1
4-Isopropyltoluene	ND		1.0		ug/L			10/07/16 15:00	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			10/07/16 15:00	1
Acetone	ND		50		ug/L			10/07/16 15:00	1
Benzene	ND		1.0		ug/L			10/07/16 15:00	1
Bromobenzene	ND		1.0		ug/L			10/07/16 15:00	1
Bromoform	ND		1.0		ug/L			10/07/16 15:00	1
Bromomethane	ND		2.0		ug/L			10/07/16 15:00	1
Carbon disulfide	ND		10		ug/L			10/07/16 15:00	1
Carbon tetrachloride	ND		1.0		ug/L			10/07/16 15:00	1
Chlorobenzene	ND		1.0		ug/L			10/07/16 15:00	1
Chlorobromomethane	ND		1.0		ug/L			10/07/16 15:00	1
Chlorodibromomethane	ND		0.50		ug/L			10/07/16 15:00	1
Chloroethane	ND		2.0		ug/L			10/07/16 15:00	1
Chloroform	ND		1.0		ug/L			10/07/16 15:00	1
Chloromethane	ND		2.0		ug/L			10/07/16 15:00	1
cis-1,2-Dichloroethene	9.7		1.0		ug/L			10/07/16 15:00	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			10/07/16 15:00	1
Dichlorobromomethane	ND		0.50		ug/L			10/07/16 15:00	1
Dichlorodifluoromethane	ND		1.0		ug/L			10/07/16 15:00	1
Ethyl ether	ND		1.0		ug/L			10/07/16 15:00	1
Ethylbenzene	ND		1.0		ug/L			10/07/16 15:00	1
Ethylene Dibromide	ND		1.0		ug/L			10/07/16 15:00	1
Hexachlorobutadiene	ND		0.40		ug/L			10/07/16 15:00	1
Isopropyl ether	ND		10		ug/L			10/07/16 15:00	1
Isopropylbenzene	ND		1.0		ug/L			10/07/16 15:00	1
Methyl tert-butyl ether	ND		1.0		ug/L			10/07/16 15:00	1
Methylene Chloride	ND		1.0		ug/L			10/07/16 15:00	1
m-Xylene & p-Xylene	ND		2.0		ug/L			10/07/16 15:00	1
Naphthalene	ND		5.0		ug/L			10/07/16 15:00	1
n-Butylbenzene	ND		1.0		ug/L			10/07/16 15:00	1
N-Propylbenzene	ND		1.0		ug/L			10/07/16 15:00	1
o-Xylene	ND		1.0		ug/L			10/07/16 15:00	1
sec-Butylbenzene	ND		1.0		ug/L			10/07/16 15:00	1

TestAmerica Buffalo

Client Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-107127-1

Client Sample ID: REW-7-20161005

Lab Sample ID: 480-107127-2

Date Collected: 10/05/16 11:20

Matrix: Water

Date Received: 10/06/16 01:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	ND		1.0		ug/L			10/07/16 15:00	1
Tert-amyl methyl ether	ND		5.0		ug/L			10/07/16 15:00	1
Tert-butyl ethyl ether	ND		5.0		ug/L			10/07/16 15:00	1
tert-Butylbenzene	ND		1.0		ug/L			10/07/16 15:00	1
Tetrachloroethene	ND		1.0		ug/L			10/07/16 15:00	1
Tetrahydrofuran	ND		10		ug/L			10/07/16 15:00	1
Toluene	58		1.0		ug/L			10/07/16 15:00	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			10/07/16 15:00	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			10/07/16 15:00	1
Trichloroethene	ND		1.0		ug/L			10/07/16 15:00	1
Trichlorofluoromethane	ND		1.0		ug/L			10/07/16 15:00	1
Vinyl chloride	8.6		1.0		ug/L			10/07/16 15:00	1
Dibromomethane	ND		1.0		ug/L			10/07/16 15:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	88		70 - 130					10/07/16 15:00	1
1,2-Dichloroethane-d4 (Surr)	88		70 - 130					10/07/16 15:00	1
4-Bromofluorobenzene (Surr)	98		70 - 130					10/07/16 15:00	1

Method: 6010 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	61		0.050		mg/L		10/07/16 09:30	10/08/16 11:43	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	23		2.5		mg/L			10/07/16 08:48	5
Sulfate	ND		2.0		mg/L			10/10/16 13:56	1
Ammonia	ND		0.20		mg/L		10/09/16 13:43	10/09/16 14:15	1
Nitrate as N	ND		0.050		mg/L			10/06/16 14:28	1
TOC Result 1	26		1.0		mg/L			10/07/16 20:42	1
TOC Result 2	28		1.0		mg/L			10/07/16 20:42	1
Total Organic Carbon - Duplicates	27		1.0		mg/L			10/07/16 20:42	1
Alkalinity, Total	260		5.0		mg/L			10/06/16 18:45	1
ortho-Phosphate	ND		0.020		mg/L			10/06/16 14:30	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.7	HF	0.1		SU			10/06/16 18:36	1

Client Sample ID: REW-8-20161005

Lab Sample ID: 480-107127-3

Date Collected: 10/05/16 10:25

Matrix: Water

Date Received: 10/06/16 01:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			10/07/16 15:24	1
1,1,1-Trichloroethane	ND		1.0		ug/L			10/07/16 15:24	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			10/07/16 15:24	1
1,1,2-Trichloroethane	ND		1.0		ug/L			10/07/16 15:24	1
1,1-Dichloroethane	ND		1.0		ug/L			10/07/16 15:24	1
1,1-Dichloroethene	ND		1.0		ug/L			10/07/16 15:24	1
1,1-Dichloropropene	ND		1.0		ug/L			10/07/16 15:24	1

TestAmerica Buffalo

Client Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-107127-1

Client Sample ID: REW-8-20161005

Lab Sample ID: 480-107127-3

Date Collected: 10/05/16 10:25

Matrix: Water

Date Received: 10/06/16 01:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	ND		1.0		ug/L			10/07/16 15:24	1
1,2,3-Trichloropropane	ND		1.0		ug/L			10/07/16 15:24	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			10/07/16 15:24	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			10/07/16 15:24	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			10/07/16 15:24	1
1,2-Dichlorobenzene	ND		1.0		ug/L			10/07/16 15:24	1
1,2-Dichloroethane	ND		1.0		ug/L			10/07/16 15:24	1
1,2-Dichloropropane	ND		1.0		ug/L			10/07/16 15:24	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			10/07/16 15:24	1
1,3-Dichlorobenzene	ND		1.0		ug/L			10/07/16 15:24	1
1,3-Dichloropropane	ND		1.0		ug/L			10/07/16 15:24	1
1,4-Dichlorobenzene	ND		1.0		ug/L			10/07/16 15:24	1
1,4-Dioxane	ND		50		ug/L			10/07/16 15:24	1
2,2-Dichloropropane	ND		1.0		ug/L			10/07/16 15:24	1
2-Butanone (MEK)	ND		10		ug/L			10/07/16 15:24	1
2-Chlorotoluene	ND		1.0		ug/L			10/07/16 15:24	1
2-Hexanone	ND		10		ug/L			10/07/16 15:24	1
4-Chlorotoluene	ND		1.0		ug/L			10/07/16 15:24	1
4-Isopropyltoluene	ND		1.0		ug/L			10/07/16 15:24	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			10/07/16 15:24	1
Acetone	ND		50		ug/L			10/07/16 15:24	1
Benzene	ND		1.0		ug/L			10/07/16 15:24	1
Bromobenzene	ND		1.0		ug/L			10/07/16 15:24	1
Bromoform	ND		1.0		ug/L			10/07/16 15:24	1
Bromomethane	ND		2.0		ug/L			10/07/16 15:24	1
Carbon disulfide	ND		10		ug/L			10/07/16 15:24	1
Carbon tetrachloride	ND		1.0		ug/L			10/07/16 15:24	1
Chlorobenzene	ND		1.0		ug/L			10/07/16 15:24	1
Chlorobromomethane	ND		1.0		ug/L			10/07/16 15:24	1
Chlorodibromomethane	ND		0.50		ug/L			10/07/16 15:24	1
Chloroethane	ND		2.0		ug/L			10/07/16 15:24	1
Chloroform	ND		1.0		ug/L			10/07/16 15:24	1
Chloromethane	ND		2.0		ug/L			10/07/16 15:24	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			10/07/16 15:24	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			10/07/16 15:24	1
Dichlorobromomethane	ND		0.50		ug/L			10/07/16 15:24	1
Dichlorodifluoromethane	ND		1.0		ug/L			10/07/16 15:24	1
Ethyl ether	ND		1.0		ug/L			10/07/16 15:24	1
Ethylbenzene	ND		1.0		ug/L			10/07/16 15:24	1
Ethylene Dibromide	ND		1.0		ug/L			10/07/16 15:24	1
Hexachlorobutadiene	ND		0.40		ug/L			10/07/16 15:24	1
Isopropyl ether	ND		10		ug/L			10/07/16 15:24	1
Isopropylbenzene	ND		1.0		ug/L			10/07/16 15:24	1
Methyl tert-butyl ether	ND		1.0		ug/L			10/07/16 15:24	1
Methylene Chloride	ND		1.0		ug/L			10/07/16 15:24	1
m-Xylene & p-Xylene	ND		2.0		ug/L			10/07/16 15:24	1
Naphthalene	ND		5.0		ug/L			10/07/16 15:24	1
n-Butylbenzene	ND		1.0		ug/L			10/07/16 15:24	1
N-Propylbenzene	ND		1.0		ug/L			10/07/16 15:24	1

TestAmerica Buffalo

Client Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-107127-1

Client Sample ID: REW-8-20161005

Lab Sample ID: 480-107127-3

Date Collected: 10/05/16 10:25

Matrix: Water

Date Received: 10/06/16 01:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	ND		1.0		ug/L			10/07/16 15:24	1
sec-Butylbenzene	ND		1.0		ug/L			10/07/16 15:24	1
Styrene	ND		1.0		ug/L			10/07/16 15:24	1
Tert-amyl methyl ether	ND		5.0		ug/L			10/07/16 15:24	1
Tert-butyl ethyl ether	ND		5.0		ug/L			10/07/16 15:24	1
tert-Butylbenzene	ND		1.0		ug/L			10/07/16 15:24	1
Tetrachloroethene	ND		1.0		ug/L			10/07/16 15:24	1
Tetrahydrofuran	ND		10		ug/L			10/07/16 15:24	1
Toluene	9.4		1.0		ug/L			10/07/16 15:24	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			10/07/16 15:24	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			10/07/16 15:24	1
Trichloroethene	ND		1.0		ug/L			10/07/16 15:24	1
Trichlorofluoromethane	ND		1.0		ug/L			10/07/16 15:24	1
Vinyl chloride	ND		1.0		ug/L			10/07/16 15:24	1
Dibromomethane	ND		1.0		ug/L			10/07/16 15:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	90		70 - 130					10/07/16 15:24	1
1,2-Dichloroethane-d4 (Surr)	83		70 - 130					10/07/16 15:24	1
4-Bromofluorobenzene (Surr)	97		70 - 130					10/07/16 15:24	1

Method: 6010 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	49		0.050		mg/L		10/07/16 09:30	10/08/16 11:46	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	35		2.5		mg/L			10/07/16 08:56	5
Sulfate	ND		2.0		mg/L			10/10/16 14:04	1
Ammonia	6.7		1.0		mg/L		10/09/16 13:43	10/09/16 14:16	1
Nitrate as N	ND		0.050		mg/L			10/06/16 14:29	1
TOC Result 1	13		1.0		mg/L			10/07/16 21:38	1
TOC Result 2	14		1.0		mg/L			10/07/16 21:38	1
Total Organic Carbon - Duplicates	13		1.0		mg/L			10/07/16 21:38	1
Alkalinity, Total	260		5.0		mg/L			10/06/16 19:05	1
ortho-Phosphate	0.21		0.020		mg/L			10/06/16 14:30	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.8	HF	0.1		SU			10/06/16 18:41	1

Client Sample ID: REW-9-20161005

Lab Sample ID: 480-107127-4

Date Collected: 10/05/16 09:30

Matrix: Water

Date Received: 10/06/16 01:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			10/07/16 15:48	1
1,1,1-Trichloroethane	ND		1.0		ug/L			10/07/16 15:48	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			10/07/16 15:48	1
1,1,2-Trichloroethane	ND		1.0		ug/L			10/07/16 15:48	1
1,1-Dichloroethane	ND		1.0		ug/L			10/07/16 15:48	1

TestAmerica Buffalo

Client Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-107127-1

Client Sample ID: REW-9-20161005

Lab Sample ID: 480-107127-4

Date Collected: 10/05/16 09:30

Matrix: Water

Date Received: 10/06/16 01:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		1.0		ug/L			10/07/16 15:48	1
1,1-Dichloropropene	ND		1.0		ug/L			10/07/16 15:48	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			10/07/16 15:48	1
1,2,3-Trichloropropane	ND		1.0		ug/L			10/07/16 15:48	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			10/07/16 15:48	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			10/07/16 15:48	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			10/07/16 15:48	1
1,2-Dichlorobenzene	ND		1.0		ug/L			10/07/16 15:48	1
1,2-Dichloroethane	ND		1.0		ug/L			10/07/16 15:48	1
1,2-Dichloropropane	ND		1.0		ug/L			10/07/16 15:48	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			10/07/16 15:48	1
1,3-Dichlorobenzene	ND		1.0		ug/L			10/07/16 15:48	1
1,3-Dichloropropane	ND		1.0		ug/L			10/07/16 15:48	1
1,4-Dichlorobenzene	ND		1.0		ug/L			10/07/16 15:48	1
1,4-Dioxane	ND		50		ug/L			10/07/16 15:48	1
2,2-Dichloropropane	ND		1.0		ug/L			10/07/16 15:48	1
2-Butanone (MEK)	140		10		ug/L			10/07/16 15:48	1
2-Chlorotoluene	ND		1.0		ug/L			10/07/16 15:48	1
2-Hexanone	ND		10		ug/L			10/07/16 15:48	1
4-Chlorotoluene	ND		1.0		ug/L			10/07/16 15:48	1
4-Isopropyltoluene	ND		1.0		ug/L			10/07/16 15:48	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			10/07/16 15:48	1
Acetone	ND		50		ug/L			10/07/16 15:48	1
Benzene	ND		1.0		ug/L			10/07/16 15:48	1
Bromobenzene	ND		1.0		ug/L			10/07/16 15:48	1
Bromoform	ND		1.0		ug/L			10/07/16 15:48	1
Bromomethane	ND		2.0		ug/L			10/07/16 15:48	1
Carbon disulfide	ND		10		ug/L			10/07/16 15:48	1
Carbon tetrachloride	ND		1.0		ug/L			10/07/16 15:48	1
Chlorobenzene	ND		1.0		ug/L			10/07/16 15:48	1
Chlorobromomethane	ND		1.0		ug/L			10/07/16 15:48	1
Chlorodibromomethane	ND		0.50		ug/L			10/07/16 15:48	1
Chloroethane	ND		2.0		ug/L			10/07/16 15:48	1
Chloroform	ND		1.0		ug/L			10/07/16 15:48	1
Chloromethane	ND		2.0		ug/L			10/07/16 15:48	1
cis-1,2-Dichloroethene	24		1.0		ug/L			10/07/16 15:48	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			10/07/16 15:48	1
Dichlorobromomethane	ND		0.50		ug/L			10/07/16 15:48	1
Dichlorodifluoromethane	ND		1.0		ug/L			10/07/16 15:48	1
Ethyl ether	ND		1.0		ug/L			10/07/16 15:48	1
Ethylbenzene	1.1		1.0		ug/L			10/07/16 15:48	1
Ethylene Dibromide	ND		1.0		ug/L			10/07/16 15:48	1
Hexachlorobutadiene	ND		0.40		ug/L			10/07/16 15:48	1
Isopropyl ether	ND		10		ug/L			10/07/16 15:48	1
Isopropylbenzene	ND		1.0		ug/L			10/07/16 15:48	1
Methyl tert-butyl ether	ND		1.0		ug/L			10/07/16 15:48	1
Methylene Chloride	ND		1.0		ug/L			10/07/16 15:48	1
m-Xylene & p-Xylene	3.9		2.0		ug/L			10/07/16 15:48	1
Naphthalene	ND		5.0		ug/L			10/07/16 15:48	1

TestAmerica Buffalo

Client Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-107127-1

Client Sample ID: REW-9-20161005

Lab Sample ID: 480-107127-4

Date Collected: 10/05/16 09:30

Matrix: Water

Date Received: 10/06/16 01:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
n-Butylbenzene	ND		1.0		ug/L			10/07/16 15:48	1
N-Propylbenzene	ND		1.0		ug/L			10/07/16 15:48	1
o-Xylene	ND		1.0		ug/L			10/07/16 15:48	1
sec-Butylbenzene	ND		1.0		ug/L			10/07/16 15:48	1
Styrene	ND		1.0		ug/L			10/07/16 15:48	1
Tert-amyl methyl ether	ND		5.0		ug/L			10/07/16 15:48	1
Tert-butyl ethyl ether	ND		5.0		ug/L			10/07/16 15:48	1
tert-Butylbenzene	ND		1.0		ug/L			10/07/16 15:48	1
Tetrachloroethene	ND		1.0		ug/L			10/07/16 15:48	1
Tetrahydrofuran	ND		10		ug/L			10/07/16 15:48	1
Toluene	48		1.0		ug/L			10/07/16 15:48	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			10/07/16 15:48	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			10/07/16 15:48	1
Trichloroethene	ND		1.0		ug/L			10/07/16 15:48	1
Trichlorofluoromethane	ND		1.0		ug/L			10/07/16 15:48	1
Vinyl chloride	13		1.0		ug/L			10/07/16 15:48	1
Dibromomethane	ND		1.0		ug/L			10/07/16 15:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	88		70 - 130		10/07/16 15:48	1
1,2-Dichloroethane-d4 (Surr)	85		70 - 130		10/07/16 15:48	1
4-Bromofluorobenzene (Surr)	98		70 - 130		10/07/16 15:48	1

Method: 6010 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	100		0.050		mg/L		10/07/16 09:30	10/08/16 12:00	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	28		2.5		mg/L			10/07/16 09:04	5
Sulfate	8.6		2.0		mg/L			10/11/16 11:13	1
Ammonia	0.20		0.20		mg/L		10/09/16 13:43	10/09/16 14:18	1
Nitrate as N	ND		0.050		mg/L			10/06/16 14:31	1
TOC Result 1	250		5.0		mg/L			10/12/16 00:41	5
TOC Result 2	250		5.0		mg/L			10/12/16 00:41	5
Total Organic Carbon - Duplicates	250		5.0		mg/L			10/12/16 00:41	5
Alkalinity, Total	380		5.0		mg/L			10/06/16 19:12	1
ortho-Phosphate	0.077		0.020		mg/L			10/06/16 14:30	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.4	HF	0.1		SU			10/06/16 18:46	1

Client Sample ID: REW-10-20161005

Lab Sample ID: 480-107127-5

Date Collected: 10/05/16 08:55

Matrix: Water

Date Received: 10/06/16 01:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			10/07/16 16:12	1
1,1,1-Trichloroethane	ND		1.0		ug/L			10/07/16 16:12	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			10/07/16 16:12	1

TestAmerica Buffalo

Client Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-107127-1

Client Sample ID: REW-10-20161005

Lab Sample ID: 480-107127-5

Date Collected: 10/05/16 08:55

Matrix: Water

Date Received: 10/06/16 01:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	ND		1.0		ug/L			10/07/16 16:12	1
1,1-Dichloroethane	ND		1.0		ug/L			10/07/16 16:12	1
1,1-Dichloroethene	ND		1.0		ug/L			10/07/16 16:12	1
1,1-Dichloropropene	ND		1.0		ug/L			10/07/16 16:12	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			10/07/16 16:12	1
1,2,3-Trichloropropane	ND		1.0		ug/L			10/07/16 16:12	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			10/07/16 16:12	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			10/07/16 16:12	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			10/07/16 16:12	1
1,2-Dichlorobenzene	ND		1.0		ug/L			10/07/16 16:12	1
1,2-Dichloroethane	ND		1.0		ug/L			10/07/16 16:12	1
1,2-Dichloropropane	ND		1.0		ug/L			10/07/16 16:12	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			10/07/16 16:12	1
1,3-Dichlorobenzene	ND		1.0		ug/L			10/07/16 16:12	1
1,3-Dichloropropane	ND		1.0		ug/L			10/07/16 16:12	1
1,4-Dichlorobenzene	ND		1.0		ug/L			10/07/16 16:12	1
1,4-Dioxane	ND		50		ug/L			10/07/16 16:12	1
2,2-Dichloropropane	ND		1.0		ug/L			10/07/16 16:12	1
2-Butanone (MEK)	ND		10		ug/L			10/07/16 16:12	1
2-Chlorotoluene	ND		1.0		ug/L			10/07/16 16:12	1
2-Hexanone	ND		10		ug/L			10/07/16 16:12	1
4-Chlorotoluene	ND		1.0		ug/L			10/07/16 16:12	1
4-Isopropyltoluene	ND		1.0		ug/L			10/07/16 16:12	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			10/07/16 16:12	1
Acetone	ND		50		ug/L			10/07/16 16:12	1
Benzene	ND		1.0		ug/L			10/07/16 16:12	1
Bromobenzene	ND		1.0		ug/L			10/07/16 16:12	1
Bromoform	ND		1.0		ug/L			10/07/16 16:12	1
Bromomethane	ND		2.0		ug/L			10/07/16 16:12	1
Carbon disulfide	ND		10		ug/L			10/07/16 16:12	1
Carbon tetrachloride	ND		1.0		ug/L			10/07/16 16:12	1
Chlorobenzene	ND		1.0		ug/L			10/07/16 16:12	1
Chlorobromomethane	ND		1.0		ug/L			10/07/16 16:12	1
Chlorodibromomethane	ND		0.50		ug/L			10/07/16 16:12	1
Chloroethane	ND		2.0		ug/L			10/07/16 16:12	1
Chloroform	ND		1.0		ug/L			10/07/16 16:12	1
Chloromethane	ND		2.0		ug/L			10/07/16 16:12	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			10/07/16 16:12	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			10/07/16 16:12	1
Dichlorobromomethane	ND		0.50		ug/L			10/07/16 16:12	1
Dichlorodifluoromethane	ND		1.0		ug/L			10/07/16 16:12	1
Ethyl ether	ND		1.0		ug/L			10/07/16 16:12	1
Ethylbenzene	ND		1.0		ug/L			10/07/16 16:12	1
Ethylene Dibromide	ND		1.0		ug/L			10/07/16 16:12	1
Hexachlorobutadiene	ND		0.40		ug/L			10/07/16 16:12	1
Isopropyl ether	ND		10		ug/L			10/07/16 16:12	1
Isopropylbenzene	ND		1.0		ug/L			10/07/16 16:12	1
Methyl tert-butyl ether	ND		1.0		ug/L			10/07/16 16:12	1
Methylene Chloride	ND		1.0		ug/L			10/07/16 16:12	1

TestAmerica Buffalo

Client Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-107127-1

Client Sample ID: REW-10-20161005

Lab Sample ID: 480-107127-5

Date Collected: 10/05/16 08:55

Matrix: Water

Date Received: 10/06/16 01:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	ND		2.0		ug/L			10/07/16 16:12	1
Naphthalene	ND		5.0		ug/L			10/07/16 16:12	1
n-Butylbenzene	ND		1.0		ug/L			10/07/16 16:12	1
N-Propylbenzene	ND		1.0		ug/L			10/07/16 16:12	1
o-Xylene	ND		1.0		ug/L			10/07/16 16:12	1
sec-Butylbenzene	ND		1.0		ug/L			10/07/16 16:12	1
Styrene	ND		1.0		ug/L			10/07/16 16:12	1
Tert-amyl methyl ether	ND		5.0		ug/L			10/07/16 16:12	1
Tert-butyl ethyl ether	ND		5.0		ug/L			10/07/16 16:12	1
tert-Butylbenzene	ND		1.0		ug/L			10/07/16 16:12	1
Tetrachloroethene	ND		1.0		ug/L			10/07/16 16:12	1
Tetrahydrofuran	ND		10		ug/L			10/07/16 16:12	1
Toluene	ND		1.0		ug/L			10/07/16 16:12	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			10/07/16 16:12	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			10/07/16 16:12	1
Trichloroethene	ND		1.0		ug/L			10/07/16 16:12	1
Trichlorofluoromethane	ND		1.0		ug/L			10/07/16 16:12	1
Vinyl chloride	ND		1.0		ug/L			10/07/16 16:12	1
Dibromomethane	ND		1.0		ug/L			10/07/16 16:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	89		70 - 130		10/07/16 16:12	1
1,2-Dichloroethane-d4 (Surr)	87		70 - 130		10/07/16 16:12	1
4-Bromofluorobenzene (Surr)	98		70 - 130		10/07/16 16:12	1

Method: 6010 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	2.3		0.050		mg/L		10/07/16 09:30	10/08/16 12:04	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	68		1.0		mg/L			10/07/16 09:12	2
Sulfate	26		4.0		mg/L			10/07/16 09:12	2
Ammonia	0.22		0.20		mg/L		10/09/16 13:43	10/09/16 14:21	1
Nitrate as N	ND		0.050		mg/L			10/06/16 14:32	1
TOC Result 1	ND		1.0		mg/L			10/08/16 01:22	1
TOC Result 2	1.1		1.0		mg/L			10/08/16 01:22	1
Total Organic Carbon - Duplicates	ND		1.0		mg/L			10/08/16 01:22	1
Alkalinity, Total	81		5.0		mg/L			10/06/16 19:18	1
ortho-Phosphate	0.029		0.020		mg/L			10/06/16 14:30	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.1	HF	0.1		SU			10/06/16 18:48	1

Client Sample ID: REW-11-20161005

Lab Sample ID: 480-107127-6

Date Collected: 10/05/16 12:20

Matrix: Water

Date Received: 10/06/16 01:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			10/07/16 16:36	1

TestAmerica Buffalo

Client Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-107127-1

Client Sample ID: REW-11-20161005

Lab Sample ID: 480-107127-6

Date Collected: 10/05/16 12:20

Matrix: Water

Date Received: 10/06/16 01:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0		ug/L			10/07/16 16:36	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			10/07/16 16:36	1
1,1,2-Trichloroethane	ND		1.0		ug/L			10/07/16 16:36	1
1,1-Dichloroethane	ND		1.0		ug/L			10/07/16 16:36	1
1,1-Dichloroethene	ND		1.0		ug/L			10/07/16 16:36	1
1,1-Dichloropropene	ND		1.0		ug/L			10/07/16 16:36	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			10/07/16 16:36	1
1,2,3-Trichloropropane	ND		1.0		ug/L			10/07/16 16:36	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			10/07/16 16:36	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			10/07/16 16:36	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			10/07/16 16:36	1
1,2-Dichlorobenzene	ND		1.0		ug/L			10/07/16 16:36	1
1,2-Dichloroethane	ND		1.0		ug/L			10/07/16 16:36	1
1,2-Dichloropropane	ND		1.0		ug/L			10/07/16 16:36	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			10/07/16 16:36	1
1,3-Dichlorobenzene	ND		1.0		ug/L			10/07/16 16:36	1
1,3-Dichloropropane	ND		1.0		ug/L			10/07/16 16:36	1
1,4-Dichlorobenzene	ND		1.0		ug/L			10/07/16 16:36	1
1,4-Dioxane	ND		50		ug/L			10/07/16 16:36	1
2,2-Dichloropropane	ND		1.0		ug/L			10/07/16 16:36	1
2-Butanone (MEK)	30		10		ug/L			10/07/16 16:36	1
2-Chlorotoluene	ND		1.0		ug/L			10/07/16 16:36	1
2-Hexanone	ND		10		ug/L			10/07/16 16:36	1
4-Chlorotoluene	ND		1.0		ug/L			10/07/16 16:36	1
4-Isopropyltoluene	ND		1.0		ug/L			10/07/16 16:36	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			10/07/16 16:36	1
Acetone	ND		50		ug/L			10/07/16 16:36	1
Benzene	ND		1.0		ug/L			10/07/16 16:36	1
Bromobenzene	ND		1.0		ug/L			10/07/16 16:36	1
Bromoform	ND		1.0		ug/L			10/07/16 16:36	1
Bromomethane	ND		2.0		ug/L			10/07/16 16:36	1
Carbon disulfide	ND		10		ug/L			10/07/16 16:36	1
Carbon tetrachloride	ND		1.0		ug/L			10/07/16 16:36	1
Chlorobenzene	ND		1.0		ug/L			10/07/16 16:36	1
Chlorobromomethane	ND		1.0		ug/L			10/07/16 16:36	1
Chlorodibromomethane	ND		0.50		ug/L			10/07/16 16:36	1
Chloroethane	ND		2.0		ug/L			10/07/16 16:36	1
Chloroform	ND		1.0		ug/L			10/07/16 16:36	1
Chloromethane	ND		2.0		ug/L			10/07/16 16:36	1
cis-1,2-Dichloroethene	20		1.0		ug/L			10/07/16 16:36	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			10/07/16 16:36	1
Dichlorobromomethane	ND		0.50		ug/L			10/07/16 16:36	1
Dichlorodifluoromethane	ND		1.0		ug/L			10/07/16 16:36	1
Ethyl ether	ND		1.0		ug/L			10/07/16 16:36	1
Ethylbenzene	ND		1.0		ug/L			10/07/16 16:36	1
Ethylene Dibromide	ND		1.0		ug/L			10/07/16 16:36	1
Hexachlorobutadiene	ND		0.40		ug/L			10/07/16 16:36	1
Isopropyl ether	ND		10		ug/L			10/07/16 16:36	1
Isopropylbenzene	ND		1.0		ug/L			10/07/16 16:36	1

TestAmerica Buffalo

Client Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-107127-1

Client Sample ID: REW-11-20161005

Lab Sample ID: 480-107127-6

Date Collected: 10/05/16 12:20

Matrix: Water

Date Received: 10/06/16 01:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		1.0		ug/L			10/07/16 16:36	1
Methylene Chloride	ND		1.0		ug/L			10/07/16 16:36	1
m-Xylene & p-Xylene	ND		2.0		ug/L			10/07/16 16:36	1
Naphthalene	ND		5.0		ug/L			10/07/16 16:36	1
n-Butylbenzene	ND		1.0		ug/L			10/07/16 16:36	1
N-Propylbenzene	ND		1.0		ug/L			10/07/16 16:36	1
o-Xylene	ND		1.0		ug/L			10/07/16 16:36	1
sec-Butylbenzene	ND		1.0		ug/L			10/07/16 16:36	1
Styrene	ND		1.0		ug/L			10/07/16 16:36	1
Tert-amyl methyl ether	ND		5.0		ug/L			10/07/16 16:36	1
Tert-butyl ethyl ether	ND		5.0		ug/L			10/07/16 16:36	1
tert-Butylbenzene	ND		1.0		ug/L			10/07/16 16:36	1
Tetrachloroethene	ND		1.0		ug/L			10/07/16 16:36	1
Tetrahydrofuran	ND		10		ug/L			10/07/16 16:36	1
Toluene	34		1.0		ug/L			10/07/16 16:36	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			10/07/16 16:36	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			10/07/16 16:36	1
Trichloroethene	3.4		1.0		ug/L			10/07/16 16:36	1
Trichlorofluoromethane	ND		1.0		ug/L			10/07/16 16:36	1
Vinyl chloride	9.7		1.0		ug/L			10/07/16 16:36	1
Dibromomethane	ND		1.0		ug/L			10/07/16 16:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	87		70 - 130		10/07/16 16:36	1
1,2-Dichloroethane-d4 (Surr)	86		70 - 130		10/07/16 16:36	1
4-Bromofluorobenzene (Surr)	95		70 - 130		10/07/16 16:36	1

Method: 6010 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	43		0.050		mg/L		10/07/16 09:30	10/08/16 12:07	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	50		2.5		mg/L			10/07/16 10:09	5
Sulfate	19		10		mg/L			10/07/16 10:09	5
Ammonia	0.79		0.20		mg/L		10/09/16 13:43	10/09/16 14:22	1
Nitrate as N	ND		0.050		mg/L			10/06/16 14:33	1
TOC Result 1	78		1.0		mg/L			10/08/16 02:19	1
TOC Result 2	83		1.0		mg/L			10/08/16 02:19	1
Total Organic Carbon - Duplicates	80		1.0		mg/L			10/08/16 02:19	1
Alkalinity, Total	160		5.0		mg/L			10/06/16 19:23	1
ortho-Phosphate	0.027		0.020		mg/L			10/06/16 14:30	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.6	HF	0.1		SU			10/06/16 18:51	1

TestAmerica Buffalo

Client Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-107127-1

Client Sample ID: REW-12-20161005

Lab Sample ID: 480-107127-7

Date Collected: 10/05/16 13:10

Matrix: Water

Date Received: 10/06/16 01:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		2.0		ug/L			10/07/16 17:00	2
1,1,1-Trichloroethane	ND		2.0		ug/L			10/07/16 17:00	2
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			10/07/16 17:00	2
1,1,2-Trichloroethane	ND		2.0		ug/L			10/07/16 17:00	2
1,1-Dichloroethane	2.2		2.0		ug/L			10/07/16 17:00	2
1,1-Dichloroethene	ND		2.0		ug/L			10/07/16 17:00	2
1,1-Dichloropropene	ND		2.0		ug/L			10/07/16 17:00	2
1,2,3-Trichlorobenzene	ND		2.0		ug/L			10/07/16 17:00	2
1,2,3-Trichloropropane	ND		2.0		ug/L			10/07/16 17:00	2
1,2,4-Trichlorobenzene	ND		2.0		ug/L			10/07/16 17:00	2
1,2,4-Trimethylbenzene	ND		2.0		ug/L			10/07/16 17:00	2
1,2-Dibromo-3-Chloropropane	ND		10		ug/L			10/07/16 17:00	2
1,2-Dichlorobenzene	ND		2.0		ug/L			10/07/16 17:00	2
1,2-Dichloroethane	ND		2.0		ug/L			10/07/16 17:00	2
1,2-Dichloropropane	ND		2.0		ug/L			10/07/16 17:00	2
1,3,5-Trimethylbenzene	ND		2.0		ug/L			10/07/16 17:00	2
1,3-Dichlorobenzene	ND		2.0		ug/L			10/07/16 17:00	2
1,3-Dichloropropane	ND		2.0		ug/L			10/07/16 17:00	2
1,4-Dichlorobenzene	ND		2.0		ug/L			10/07/16 17:00	2
1,4-Dioxane	ND		100		ug/L			10/07/16 17:00	2
2,2-Dichloropropane	ND		2.0		ug/L			10/07/16 17:00	2
2-Butanone (MEK)	66		20		ug/L			10/07/16 17:00	2
2-Chlorotoluene	ND		2.0		ug/L			10/07/16 17:00	2
2-Hexanone	ND		20		ug/L			10/07/16 17:00	2
4-Chlorotoluene	ND		2.0		ug/L			10/07/16 17:00	2
4-Isopropyltoluene	ND		2.0		ug/L			10/07/16 17:00	2
4-Methyl-2-pentanone (MIBK)	ND		20		ug/L			10/07/16 17:00	2
Acetone	ND		100		ug/L			10/07/16 17:00	2
Benzene	ND		2.0		ug/L			10/07/16 17:00	2
Bromobenzene	ND		2.0		ug/L			10/07/16 17:00	2
Bromoform	ND		2.0		ug/L			10/07/16 17:00	2
Bromomethane	ND		4.0		ug/L			10/07/16 17:00	2
Carbon disulfide	ND		20		ug/L			10/07/16 17:00	2
Carbon tetrachloride	ND		2.0		ug/L			10/07/16 17:00	2
Chlorobenzene	ND		2.0		ug/L			10/07/16 17:00	2
Chlorobromomethane	ND		2.0		ug/L			10/07/16 17:00	2
Chlorodibromomethane	ND		1.0		ug/L			10/07/16 17:00	2
Chloroethane	ND		4.0		ug/L			10/07/16 17:00	2
Chloroform	ND		2.0		ug/L			10/07/16 17:00	2
Chloromethane	ND		4.0		ug/L			10/07/16 17:00	2
cis-1,2-Dichloroethene	130		2.0		ug/L			10/07/16 17:00	2
cis-1,3-Dichloropropene	ND		0.80		ug/L			10/07/16 17:00	2
Dichlorobromomethane	ND		1.0		ug/L			10/07/16 17:00	2
Dichlorodifluoromethane	ND		2.0		ug/L			10/07/16 17:00	2
Ethyl ether	ND		2.0		ug/L			10/07/16 17:00	2
Ethylbenzene	ND		2.0		ug/L			10/07/16 17:00	2
Ethylene Dibromide	ND		2.0		ug/L			10/07/16 17:00	2
Hexachlorobutadiene	ND		0.80		ug/L			10/07/16 17:00	2
Isopropyl ether	ND		20		ug/L			10/07/16 17:00	2

TestAmerica Buffalo

Client Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-107127-1

Client Sample ID: REW-12-20161005

Lab Sample ID: 480-107127-7

Date Collected: 10/05/16 13:10

Matrix: Water

Date Received: 10/06/16 01:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	ND		2.0		ug/L			10/07/16 17:00	2
Methyl tert-butyl ether	ND		2.0		ug/L			10/07/16 17:00	2
Methylene Chloride	ND		2.0		ug/L			10/07/16 17:00	2
m-Xylene & p-Xylene	ND		4.0		ug/L			10/07/16 17:00	2
Naphthalene	ND		10		ug/L			10/07/16 17:00	2
n-Butylbenzene	ND		2.0		ug/L			10/07/16 17:00	2
N-Propylbenzene	ND		2.0		ug/L			10/07/16 17:00	2
o-Xylene	ND		2.0		ug/L			10/07/16 17:00	2
sec-Butylbenzene	ND		2.0		ug/L			10/07/16 17:00	2
Styrene	ND		2.0		ug/L			10/07/16 17:00	2
Tert-amyl methyl ether	ND		10		ug/L			10/07/16 17:00	2
Tert-butyl ethyl ether	ND		10		ug/L			10/07/16 17:00	2
tert-Butylbenzene	ND		2.0		ug/L			10/07/16 17:00	2
Tetrachloroethene	ND		2.0		ug/L			10/07/16 17:00	2
Tetrahydrofuran	ND		20		ug/L			10/07/16 17:00	2
Toluene	72		2.0		ug/L			10/07/16 17:00	2
trans-1,2-Dichloroethene	ND		2.0		ug/L			10/07/16 17:00	2
trans-1,3-Dichloropropene	ND		0.80		ug/L			10/07/16 17:00	2
Trichloroethene	29		2.0		ug/L			10/07/16 17:00	2
Trichlorofluoromethane	ND		2.0		ug/L			10/07/16 17:00	2
Vinyl chloride	53		2.0		ug/L			10/07/16 17:00	2
Dibromomethane	ND		2.0		ug/L			10/07/16 17:00	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	90		70 - 130		10/07/16 17:00	2
1,2-Dichloroethane-d4 (Surr)	93		70 - 130		10/07/16 17:00	2
4-Bromofluorobenzene (Surr)	100		70 - 130		10/07/16 17:00	2

Method: 6010 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	81		0.050		mg/L		10/07/16 09:30	10/08/16 12:11	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	36		2.5		mg/L			10/07/16 10:17	5
Sulfate	21		10		mg/L			10/07/16 10:17	5
Ammonia	0.27		0.20		mg/L		10/09/16 13:43	10/09/16 14:23	1
Nitrate as N	ND		0.050		mg/L			10/06/16 14:37	1
TOC Result 1	94		1.0		mg/L			10/08/16 02:47	1
TOC Result 2	99		1.0		mg/L			10/08/16 02:47	1
Total Organic Carbon - Duplicates	97		1.0		mg/L			10/08/16 02:47	1
Alkalinity, Total	200		5.0		mg/L			10/06/16 19:30	1
ortho-Phosphate	0.026		0.020		mg/L			10/06/16 14:30	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.5	HF	0.1		SU			10/06/16 18:54	1

TestAmerica Buffalo

Client Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-107127-1

Client Sample ID: DUP3-20161005

Lab Sample ID: 480-107127-8

Date Collected: 10/05/16 00:00

Matrix: Water

Date Received: 10/06/16 01:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			10/07/16 17:24	1
1,1,1-Trichloroethane	ND		1.0		ug/L			10/07/16 17:24	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			10/07/16 17:24	1
1,1,2-Trichloroethane	ND		1.0		ug/L			10/07/16 17:24	1
1,1-Dichloroethane	ND		1.0		ug/L			10/07/16 17:24	1
1,1-Dichloroethene	ND		1.0		ug/L			10/07/16 17:24	1
1,1-Dichloropropene	ND		1.0		ug/L			10/07/16 17:24	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			10/07/16 17:24	1
1,2,3-Trichloropropane	ND		1.0		ug/L			10/07/16 17:24	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			10/07/16 17:24	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			10/07/16 17:24	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			10/07/16 17:24	1
1,2-Dichlorobenzene	ND		1.0		ug/L			10/07/16 17:24	1
1,2-Dichloroethane	ND		1.0		ug/L			10/07/16 17:24	1
1,2-Dichloropropane	ND		1.0		ug/L			10/07/16 17:24	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			10/07/16 17:24	1
1,3-Dichlorobenzene	ND		1.0		ug/L			10/07/16 17:24	1
1,3-Dichloropropane	ND		1.0		ug/L			10/07/16 17:24	1
1,4-Dichlorobenzene	ND		1.0		ug/L			10/07/16 17:24	1
1,4-Dioxane	ND		50		ug/L			10/07/16 17:24	1
2,2-Dichloropropane	ND		1.0		ug/L			10/07/16 17:24	1
2-Butanone (MEK)	ND		10		ug/L			10/07/16 17:24	1
2-Chlorotoluene	ND		1.0		ug/L			10/07/16 17:24	1
2-Hexanone	ND		10		ug/L			10/07/16 17:24	1
4-Chlorotoluene	ND		1.0		ug/L			10/07/16 17:24	1
4-Isopropyltoluene	ND		1.0		ug/L			10/07/16 17:24	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			10/07/16 17:24	1
Acetone	ND		50		ug/L			10/07/16 17:24	1
Benzene	ND		1.0		ug/L			10/07/16 17:24	1
Bromobenzene	ND		1.0		ug/L			10/07/16 17:24	1
Bromoform	ND		1.0		ug/L			10/07/16 17:24	1
Bromomethane	ND		2.0		ug/L			10/07/16 17:24	1
Carbon disulfide	ND		10		ug/L			10/07/16 17:24	1
Carbon tetrachloride	ND		1.0		ug/L			10/07/16 17:24	1
Chlorobenzene	ND		1.0		ug/L			10/07/16 17:24	1
Chlorobromomethane	ND		1.0		ug/L			10/07/16 17:24	1
Chlorodibromomethane	ND		0.50		ug/L			10/07/16 17:24	1
Chloroethane	ND		2.0		ug/L			10/07/16 17:24	1
Chloroform	ND		1.0		ug/L			10/07/16 17:24	1
Chloromethane	ND		2.0		ug/L			10/07/16 17:24	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			10/07/16 17:24	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			10/07/16 17:24	1
Dichlorobromomethane	ND		0.50		ug/L			10/07/16 17:24	1
Dichlorodifluoromethane	ND		1.0		ug/L			10/07/16 17:24	1
Ethyl ether	ND		1.0		ug/L			10/07/16 17:24	1
Ethylbenzene	ND		1.0		ug/L			10/07/16 17:24	1
Ethylene Dibromide	ND		1.0		ug/L			10/07/16 17:24	1
Hexachlorobutadiene	ND		0.40		ug/L			10/07/16 17:24	1
Isopropyl ether	ND		10		ug/L			10/07/16 17:24	1

TestAmerica Buffalo

Client Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-107127-1

Client Sample ID: DUP3-20161005

Lab Sample ID: 480-107127-8

Date Collected: 10/05/16 00:00

Matrix: Water

Date Received: 10/06/16 01:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	ND		1.0		ug/L			10/07/16 17:24	1
Methyl tert-butyl ether	ND		1.0		ug/L			10/07/16 17:24	1
Methylene Chloride	ND		1.0		ug/L			10/07/16 17:24	1
m-Xylene & p-Xylene	ND		2.0		ug/L			10/07/16 17:24	1
Naphthalene	ND		5.0		ug/L			10/07/16 17:24	1
n-Butylbenzene	ND		1.0		ug/L			10/07/16 17:24	1
N-Propylbenzene	ND		1.0		ug/L			10/07/16 17:24	1
o-Xylene	ND		1.0		ug/L			10/07/16 17:24	1
sec-Butylbenzene	ND		1.0		ug/L			10/07/16 17:24	1
Styrene	ND		1.0		ug/L			10/07/16 17:24	1
Tert-amyl methyl ether	ND		5.0		ug/L			10/07/16 17:24	1
Tert-butyl ethyl ether	ND		5.0		ug/L			10/07/16 17:24	1
tert-Butylbenzene	ND		1.0		ug/L			10/07/16 17:24	1
Tetrachloroethene	ND		1.0		ug/L			10/07/16 17:24	1
Tetrahydrofuran	ND		10		ug/L			10/07/16 17:24	1
Toluene	ND		1.0		ug/L			10/07/16 17:24	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			10/07/16 17:24	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			10/07/16 17:24	1
Trichloroethene	ND		1.0		ug/L			10/07/16 17:24	1
Trichlorofluoromethane	ND		1.0		ug/L			10/07/16 17:24	1
Vinyl chloride	ND		1.0		ug/L			10/07/16 17:24	1
Dibromomethane	ND		1.0		ug/L			10/07/16 17:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>Toluene-d8 (Surr)</i>	88		70 - 130		10/07/16 17:24	1
<i>1,2-Dichloroethane-d4 (Surr)</i>	92		70 - 130		10/07/16 17:24	1
<i>4-Bromofluorobenzene (Surr)</i>	97		70 - 130		10/07/16 17:24	1

Client Sample ID: TRIP BLANKS

Lab Sample ID: 480-107127-9

Date Collected: 10/05/16 00:00

Matrix: Water

Date Received: 10/06/16 01:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			10/07/16 17:47	1
1,1,1-Trichloroethane	ND		1.0		ug/L			10/07/16 17:47	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			10/07/16 17:47	1
1,1,2-Trichloroethane	ND		1.0		ug/L			10/07/16 17:47	1
1,1-Dichloroethane	ND		1.0		ug/L			10/07/16 17:47	1
1,1-Dichloroethene	ND		1.0		ug/L			10/07/16 17:47	1
1,1-Dichloropropene	ND		1.0		ug/L			10/07/16 17:47	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			10/07/16 17:47	1
1,2,3-Trichloropropane	ND		1.0		ug/L			10/07/16 17:47	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			10/07/16 17:47	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			10/07/16 17:47	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			10/07/16 17:47	1
1,2-Dichlorobenzene	ND		1.0		ug/L			10/07/16 17:47	1
1,2-Dichloroethane	ND		1.0		ug/L			10/07/16 17:47	1
1,2-Dichloropropane	ND		1.0		ug/L			10/07/16 17:47	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			10/07/16 17:47	1

TestAmerica Buffalo

Client Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-107127-1

Client Sample ID: TRIP BLANKS

Lab Sample ID: 480-107127-9

Date Collected: 10/05/16 00:00

Matrix: Water

Date Received: 10/06/16 01:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	ND		1.0		ug/L			10/07/16 17:47	1
1,3-Dichloropropane	ND		1.0		ug/L			10/07/16 17:47	1
1,4-Dichlorobenzene	ND		1.0		ug/L			10/07/16 17:47	1
1,4-Dioxane	ND		50		ug/L			10/07/16 17:47	1
2,2-Dichloropropane	ND		1.0		ug/L			10/07/16 17:47	1
2-Butanone (MEK)	ND		10		ug/L			10/07/16 17:47	1
2-Chlorotoluene	ND		1.0		ug/L			10/07/16 17:47	1
2-Hexanone	ND		10		ug/L			10/07/16 17:47	1
4-Chlorotoluene	ND		1.0		ug/L			10/07/16 17:47	1
4-Isopropyltoluene	ND		1.0		ug/L			10/07/16 17:47	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			10/07/16 17:47	1
Acetone	ND		50		ug/L			10/07/16 17:47	1
Benzene	ND		1.0		ug/L			10/07/16 17:47	1
Bromobenzene	ND		1.0		ug/L			10/07/16 17:47	1
Bromoform	ND		1.0		ug/L			10/07/16 17:47	1
Bromomethane	ND		2.0		ug/L			10/07/16 17:47	1
Carbon disulfide	ND		10		ug/L			10/07/16 17:47	1
Carbon tetrachloride	ND		1.0		ug/L			10/07/16 17:47	1
Chlorobenzene	ND		1.0		ug/L			10/07/16 17:47	1
Chlorobromomethane	ND		1.0		ug/L			10/07/16 17:47	1
Chlorodibromomethane	ND		0.50		ug/L			10/07/16 17:47	1
Chloroethane	ND		2.0		ug/L			10/07/16 17:47	1
Chloroform	ND		1.0		ug/L			10/07/16 17:47	1
Chloromethane	ND		2.0		ug/L			10/07/16 17:47	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			10/07/16 17:47	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			10/07/16 17:47	1
Dichlorobromomethane	ND		0.50		ug/L			10/07/16 17:47	1
Dichlorodifluoromethane	ND		1.0		ug/L			10/07/16 17:47	1
Ethyl ether	ND		1.0		ug/L			10/07/16 17:47	1
Ethylbenzene	ND		1.0		ug/L			10/07/16 17:47	1
Ethylene Dibromide	ND		1.0		ug/L			10/07/16 17:47	1
Hexachlorobutadiene	ND		0.40		ug/L			10/07/16 17:47	1
Isopropyl ether	ND		10		ug/L			10/07/16 17:47	1
Isopropylbenzene	ND		1.0		ug/L			10/07/16 17:47	1
Methyl tert-butyl ether	ND		1.0		ug/L			10/07/16 17:47	1
Methylene Chloride	ND		1.0		ug/L			10/07/16 17:47	1
m-Xylene & p-Xylene	ND		2.0		ug/L			10/07/16 17:47	1
Naphthalene	ND		5.0		ug/L			10/07/16 17:47	1
n-Butylbenzene	ND		1.0		ug/L			10/07/16 17:47	1
N-Propylbenzene	ND		1.0		ug/L			10/07/16 17:47	1
o-Xylene	ND		1.0		ug/L			10/07/16 17:47	1
sec-Butylbenzene	ND		1.0		ug/L			10/07/16 17:47	1
Styrene	ND		1.0		ug/L			10/07/16 17:47	1
Tert-amyl methyl ether	ND		5.0		ug/L			10/07/16 17:47	1
Tert-butyl ethyl ether	ND		5.0		ug/L			10/07/16 17:47	1
tert-Butylbenzene	ND		1.0		ug/L			10/07/16 17:47	1
Tetrachloroethene	ND		1.0		ug/L			10/07/16 17:47	1
Tetrahydrofuran	ND		10		ug/L			10/07/16 17:47	1
Toluene	ND		1.0		ug/L			10/07/16 17:47	1

TestAmerica Buffalo

Client Sample Results

Client: Innovative Engineering Solutions, Inc
 Project/Site: IDS Wayland

TestAmerica Job ID: 480-107127-1

Client Sample ID: TRIP BLANKS

Lab Sample ID: 480-107127-9

Date Collected: 10/05/16 00:00

Matrix: Water

Date Received: 10/06/16 01:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	ND		1.0		ug/L			10/07/16 17:47	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			10/07/16 17:47	1
Trichloroethene	ND		1.0		ug/L			10/07/16 17:47	1
Trichlorofluoromethane	ND		1.0		ug/L			10/07/16 17:47	1
Vinyl chloride	ND		1.0		ug/L			10/07/16 17:47	1
Dibromomethane	ND		1.0		ug/L			10/07/16 17:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	90		70 - 130		10/07/16 17:47	1
1,2-Dichloroethane-d4 (Surr)	90		70 - 130		10/07/16 17:47	1
4-Bromofluorobenzene (Surr)	98		70 - 130		10/07/16 17:47	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15

Client Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-107127-1



- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15

Client Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-107127-1

Client Sample ID: MW-266Ma-20161005

Lab Sample ID: 480-107127-11

Date Collected: 10/05/16 10:25

Matrix: Water

Date Received: 10/06/16 01:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			10/07/16 18:35	1
1,1,1-Trichloroethane	ND		1.0		ug/L			10/07/16 18:35	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			10/07/16 18:35	1
1,1,2-Trichloroethane	ND		1.0		ug/L			10/07/16 18:35	1
1,1-Dichloroethane	ND		1.0		ug/L			10/07/16 18:35	1
1,1-Dichloroethene	ND		1.0		ug/L			10/07/16 18:35	1
1,1-Dichloropropene	ND		1.0		ug/L			10/07/16 18:35	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			10/07/16 18:35	1
1,2,3-Trichloropropane	ND		1.0		ug/L			10/07/16 18:35	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			10/07/16 18:35	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			10/07/16 18:35	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			10/07/16 18:35	1
1,2-Dichlorobenzene	ND		1.0		ug/L			10/07/16 18:35	1
1,2-Dichloroethane	ND		1.0		ug/L			10/07/16 18:35	1
1,2-Dichloropropane	ND		1.0		ug/L			10/07/16 18:35	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			10/07/16 18:35	1
1,3-Dichlorobenzene	ND		1.0		ug/L			10/07/16 18:35	1
1,3-Dichloropropane	ND		1.0		ug/L			10/07/16 18:35	1
1,4-Dichlorobenzene	ND		1.0		ug/L			10/07/16 18:35	1
1,4-Dioxane	ND		50		ug/L			10/07/16 18:35	1
2,2-Dichloropropane	ND		1.0		ug/L			10/07/16 18:35	1
2-Butanone (MEK)	ND		10		ug/L			10/07/16 18:35	1
2-Chlorotoluene	ND		1.0		ug/L			10/07/16 18:35	1
2-Hexanone	ND		10		ug/L			10/07/16 18:35	1
4-Chlorotoluene	ND		1.0		ug/L			10/07/16 18:35	1
4-Isopropyltoluene	ND		1.0		ug/L			10/07/16 18:35	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			10/07/16 18:35	1
Acetone	ND		50		ug/L			10/07/16 18:35	1
Benzene	ND		1.0		ug/L			10/07/16 18:35	1
Bromobenzene	ND		1.0		ug/L			10/07/16 18:35	1
Bromoform	ND		1.0		ug/L			10/07/16 18:35	1
Bromomethane	ND		2.0		ug/L			10/07/16 18:35	1
Carbon disulfide	ND		10		ug/L			10/07/16 18:35	1
Carbon tetrachloride	ND		1.0		ug/L			10/07/16 18:35	1
Chlorobenzene	ND		1.0		ug/L			10/07/16 18:35	1
Chlorobromomethane	ND		1.0		ug/L			10/07/16 18:35	1
Chlorodibromomethane	ND		0.50		ug/L			10/07/16 18:35	1
Chloroethane	ND		2.0		ug/L			10/07/16 18:35	1
Chloroform	ND		1.0		ug/L			10/07/16 18:35	1
Chloromethane	ND		2.0		ug/L			10/07/16 18:35	1
cis-1,2-Dichloroethene	4.1		1.0		ug/L			10/07/16 18:35	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			10/07/16 18:35	1
Dichlorobromomethane	ND		0.50		ug/L			10/07/16 18:35	1
Dichlorodifluoromethane	ND		1.0		ug/L			10/07/16 18:35	1
Ethyl ether	ND		1.0		ug/L			10/07/16 18:35	1
Ethylbenzene	ND		1.0		ug/L			10/07/16 18:35	1
Ethylene Dibromide	ND		1.0		ug/L			10/07/16 18:35	1
Hexachlorobutadiene	ND		0.40		ug/L			10/07/16 18:35	1
Isopropyl ether	ND		10		ug/L			10/07/16 18:35	1

TestAmerica Buffalo

Client Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-107127-1

Client Sample ID: MW-266Ma-20161005

Lab Sample ID: 480-107127-11

Date Collected: 10/05/16 10:25

Matrix: Water

Date Received: 10/06/16 01:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	ND		1.0		ug/L			10/07/16 18:35	1
Methyl tert-butyl ether	ND		1.0		ug/L			10/07/16 18:35	1
Methylene Chloride	ND		1.0		ug/L			10/07/16 18:35	1
m-Xylene & p-Xylene	2.1		2.0		ug/L			10/07/16 18:35	1
Naphthalene	ND		5.0		ug/L			10/07/16 18:35	1
n-Butylbenzene	ND		1.0		ug/L			10/07/16 18:35	1
N-Propylbenzene	ND		1.0		ug/L			10/07/16 18:35	1
o-Xylene	ND		1.0		ug/L			10/07/16 18:35	1
sec-Butylbenzene	ND		1.0		ug/L			10/07/16 18:35	1
Styrene	ND		1.0		ug/L			10/07/16 18:35	1
Tert-amyl methyl ether	ND		5.0		ug/L			10/07/16 18:35	1
Tert-butyl ethyl ether	ND		5.0		ug/L			10/07/16 18:35	1
tert-Butylbenzene	ND		1.0		ug/L			10/07/16 18:35	1
Tetrachloroethene	ND		1.0		ug/L			10/07/16 18:35	1
Tetrahydrofuran	ND		10		ug/L			10/07/16 18:35	1
Toluene	55		1.0		ug/L			10/07/16 18:35	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			10/07/16 18:35	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			10/07/16 18:35	1
Trichloroethene	ND		1.0		ug/L			10/07/16 18:35	1
Trichlorofluoromethane	ND		1.0		ug/L			10/07/16 18:35	1
Vinyl chloride	4.5		1.0		ug/L			10/07/16 18:35	1
Dibromomethane	ND		1.0		ug/L			10/07/16 18:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>Toluene-d8 (Surr)</i>	89		70 - 130		10/07/16 18:35	1
<i>1,2-Dichloroethane-d4 (Surr)</i>	91		70 - 130		10/07/16 18:35	1
<i>4-Bromofluorobenzene (Surr)</i>	98		70 - 130		10/07/16 18:35	1

Method: 522 - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	1.5		0.20		ug/L		10/12/16 19:30	10/13/16 14:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>1,4-Dioxane-d8 (Surr)</i>	82		70 - 130	10/12/16 19:30	10/13/16 14:52	1

Client Sample ID: MW-266Mb-20161005

Lab Sample ID: 480-107127-12

Date Collected: 10/05/16 09:40

Matrix: Water

Date Received: 10/06/16 01:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			10/07/16 18:59	1
1,1,1-Trichloroethane	ND		1.0		ug/L			10/07/16 18:59	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			10/07/16 18:59	1
1,1,2-Trichloroethane	ND		1.0		ug/L			10/07/16 18:59	1
1,1-Dichloroethane	ND		1.0		ug/L			10/07/16 18:59	1
1,1-Dichloroethene	ND		1.0		ug/L			10/07/16 18:59	1
1,1-Dichloropropene	ND		1.0		ug/L			10/07/16 18:59	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			10/07/16 18:59	1
1,2,3-Trichloropropane	ND		1.0		ug/L			10/07/16 18:59	1

TestAmerica Buffalo

Client Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-107127-1

Client Sample ID: MW-266Mb-20161005

Lab Sample ID: 480-107127-12

Date Collected: 10/05/16 09:40

Matrix: Water

Date Received: 10/06/16 01:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		1.0		ug/L			10/07/16 18:59	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			10/07/16 18:59	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			10/07/16 18:59	1
1,2-Dichlorobenzene	ND		1.0		ug/L			10/07/16 18:59	1
1,2-Dichloroethane	ND		1.0		ug/L			10/07/16 18:59	1
1,2-Dichloropropane	ND		1.0		ug/L			10/07/16 18:59	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			10/07/16 18:59	1
1,3-Dichlorobenzene	ND		1.0		ug/L			10/07/16 18:59	1
1,3-Dichloropropane	ND		1.0		ug/L			10/07/16 18:59	1
1,4-Dichlorobenzene	1.0		1.0		ug/L			10/07/16 18:59	1
1,4-Dioxane	ND		50		ug/L			10/07/16 18:59	1
2,2-Dichloropropane	ND		1.0		ug/L			10/07/16 18:59	1
2-Butanone (MEK)	ND		10		ug/L			10/07/16 18:59	1
2-Chlorotoluene	ND		1.0		ug/L			10/07/16 18:59	1
2-Hexanone	ND		10		ug/L			10/07/16 18:59	1
4-Chlorotoluene	ND		1.0		ug/L			10/07/16 18:59	1
4-Isopropyltoluene	ND		1.0		ug/L			10/07/16 18:59	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			10/07/16 18:59	1
Acetone	ND		50		ug/L			10/07/16 18:59	1
Benzene	ND		1.0		ug/L			10/07/16 18:59	1
Bromobenzene	ND		1.0		ug/L			10/07/16 18:59	1
Bromoform	ND		1.0		ug/L			10/07/16 18:59	1
Bromomethane	ND		2.0		ug/L			10/07/16 18:59	1
Carbon disulfide	ND		10		ug/L			10/07/16 18:59	1
Carbon tetrachloride	ND		1.0		ug/L			10/07/16 18:59	1
Chlorobenzene	ND		1.0		ug/L			10/07/16 18:59	1
Chlorobromomethane	ND		1.0		ug/L			10/07/16 18:59	1
Chlorodibromomethane	ND		0.50		ug/L			10/07/16 18:59	1
Chloroethane	ND		2.0		ug/L			10/07/16 18:59	1
Chloroform	ND		1.0		ug/L			10/07/16 18:59	1
Chloromethane	ND		2.0		ug/L			10/07/16 18:59	1
cis-1,2-Dichloroethene	5.3		1.0		ug/L			10/07/16 18:59	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			10/07/16 18:59	1
Dichlorobromomethane	ND		0.50		ug/L			10/07/16 18:59	1
Dichlorodifluoromethane	ND		1.0		ug/L			10/07/16 18:59	1
Ethyl ether	ND		1.0		ug/L			10/07/16 18:59	1
Ethylbenzene	ND		1.0		ug/L			10/07/16 18:59	1
Ethylene Dibromide	ND		1.0		ug/L			10/07/16 18:59	1
Hexachlorobutadiene	ND		0.40		ug/L			10/07/16 18:59	1
Isopropyl ether	ND		10		ug/L			10/07/16 18:59	1
Isopropylbenzene	ND		1.0		ug/L			10/07/16 18:59	1
Methyl tert-butyl ether	ND		1.0		ug/L			10/07/16 18:59	1
Methylene Chloride	ND		1.0		ug/L			10/07/16 18:59	1
m-Xylene & p-Xylene	ND		2.0		ug/L			10/07/16 18:59	1
Naphthalene	ND		5.0		ug/L			10/07/16 18:59	1
n-Butylbenzene	ND		1.0		ug/L			10/07/16 18:59	1
N-Propylbenzene	ND		1.0		ug/L			10/07/16 18:59	1
o-Xylene	ND		1.0		ug/L			10/07/16 18:59	1
sec-Butylbenzene	ND		1.0		ug/L			10/07/16 18:59	1

TestAmerica Buffalo

Client Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-107127-1

Client Sample ID: MW-266Mb-20161005

Lab Sample ID: 480-107127-12

Date Collected: 10/05/16 09:40

Matrix: Water

Date Received: 10/06/16 01:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	ND		1.0		ug/L			10/07/16 18:59	1
Tert-amyl methyl ether	ND		5.0		ug/L			10/07/16 18:59	1
Tert-butyl ethyl ether	ND		5.0		ug/L			10/07/16 18:59	1
tert-Butylbenzene	ND		1.0		ug/L			10/07/16 18:59	1
Tetrachloroethene	ND		1.0		ug/L			10/07/16 18:59	1
Tetrahydrofuran	ND		10		ug/L			10/07/16 18:59	1
Toluene	3.9		1.0		ug/L			10/07/16 18:59	1
trans-1,2-Dichloroethene	1.6		1.0		ug/L			10/07/16 18:59	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			10/07/16 18:59	1
Trichloroethene	2.9		1.0		ug/L			10/07/16 18:59	1
Trichlorofluoromethane	ND		1.0		ug/L			10/07/16 18:59	1
Vinyl chloride	23		1.0		ug/L			10/07/16 18:59	1
Dibromomethane	ND		1.0		ug/L			10/07/16 18:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>Toluene-d8 (Surr)</i>	87		70 - 130					10/07/16 18:59	1
<i>1,2-Dichloroethane-d4 (Surr)</i>	88		70 - 130					10/07/16 18:59	1
<i>4-Bromofluorobenzene (Surr)</i>	96		70 - 130					10/07/16 18:59	1

Client Sample ID: MW-560-20161005

Lab Sample ID: 480-107127-13

Date Collected: 10/05/16 13:00

Matrix: Water

Date Received: 10/06/16 01:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			10/08/16 02:01	1
1,1,1-Trichloroethane	ND		1.0		ug/L			10/08/16 02:01	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			10/08/16 02:01	1
1,1,2-Trichloroethane	ND		1.0		ug/L			10/08/16 02:01	1
1,1-Dichloroethane	ND		1.0		ug/L			10/08/16 02:01	1
1,1-Dichloroethene	ND		1.0		ug/L			10/08/16 02:01	1
1,1-Dichloropropene	ND		1.0		ug/L			10/08/16 02:01	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			10/08/16 02:01	1
1,2,3-Trichloropropane	ND		1.0		ug/L			10/08/16 02:01	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			10/08/16 02:01	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			10/08/16 02:01	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			10/08/16 02:01	1
1,2-Dichlorobenzene	ND		1.0		ug/L			10/08/16 02:01	1
1,2-Dichloroethane	ND		1.0		ug/L			10/08/16 02:01	1
1,2-Dichloropropane	ND		1.0		ug/L			10/08/16 02:01	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			10/08/16 02:01	1
1,3-Dichlorobenzene	ND		1.0		ug/L			10/08/16 02:01	1
1,3-Dichloropropane	ND		1.0		ug/L			10/08/16 02:01	1
1,4-Dichlorobenzene	ND		1.0		ug/L			10/08/16 02:01	1
1,4-Dioxane	ND *		50		ug/L			10/08/16 02:01	1
2,2-Dichloropropane	ND		1.0		ug/L			10/08/16 02:01	1
2-Butanone (MEK)	22		10		ug/L			10/08/16 02:01	1
2-Chlorotoluene	ND		1.0		ug/L			10/08/16 02:01	1
2-Hexanone	ND		10		ug/L			10/08/16 02:01	1
4-Chlorotoluene	ND		1.0		ug/L			10/08/16 02:01	1

TestAmerica Buffalo

Client Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-107127-1

Client Sample ID: MW-560-20161005

Lab Sample ID: 480-107127-13

Date Collected: 10/05/16 13:00

Matrix: Water

Date Received: 10/06/16 01:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Isopropyltoluene	ND		1.0		ug/L			10/08/16 02:01	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			10/08/16 02:01	1
Acetone	ND		50		ug/L			10/08/16 02:01	1
Benzene	ND		1.0		ug/L			10/08/16 02:01	1
Bromobenzene	ND		1.0		ug/L			10/08/16 02:01	1
Bromoform	ND		1.0		ug/L			10/08/16 02:01	1
Bromomethane	ND		2.0		ug/L			10/08/16 02:01	1
Carbon disulfide	ND		10		ug/L			10/08/16 02:01	1
Carbon tetrachloride	ND		1.0		ug/L			10/08/16 02:01	1
Chlorobenzene	ND		1.0		ug/L			10/08/16 02:01	1
Chlorobromomethane	ND		1.0		ug/L			10/08/16 02:01	1
Chlorodibromomethane	ND		0.50		ug/L			10/08/16 02:01	1
Chloroethane	ND		2.0		ug/L			10/08/16 02:01	1
Chloroform	ND		1.0		ug/L			10/08/16 02:01	1
Chloromethane	ND		2.0		ug/L			10/08/16 02:01	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			10/08/16 02:01	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			10/08/16 02:01	1
Dichlorobromomethane	ND		0.50		ug/L			10/08/16 02:01	1
Dichlorodifluoromethane	ND		1.0		ug/L			10/08/16 02:01	1
Ethyl ether	ND		1.0		ug/L			10/08/16 02:01	1
Ethylbenzene	ND		1.0		ug/L			10/08/16 02:01	1
Ethylene Dibromide	ND		1.0		ug/L			10/08/16 02:01	1
Hexachlorobutadiene	ND		0.40		ug/L			10/08/16 02:01	1
Isopropyl ether	ND		10		ug/L			10/08/16 02:01	1
Isopropylbenzene	ND		1.0		ug/L			10/08/16 02:01	1
Methyl tert-butyl ether	ND		1.0		ug/L			10/08/16 02:01	1
Methylene Chloride	ND		1.0		ug/L			10/08/16 02:01	1
m-Xylene & p-Xylene	2.7		2.0		ug/L			10/08/16 02:01	1
Naphthalene	ND		5.0		ug/L			10/08/16 02:01	1
n-Butylbenzene	ND		1.0		ug/L			10/08/16 02:01	1
N-Propylbenzene	ND		1.0		ug/L			10/08/16 02:01	1
o-Xylene	ND		1.0		ug/L			10/08/16 02:01	1
sec-Butylbenzene	ND		1.0		ug/L			10/08/16 02:01	1
Styrene	ND		1.0		ug/L			10/08/16 02:01	1
Tert-amyl methyl ether	ND		5.0		ug/L			10/08/16 02:01	1
Tert-butyl ethyl ether	ND		5.0		ug/L			10/08/16 02:01	1
tert-Butylbenzene	ND		1.0		ug/L			10/08/16 02:01	1
Tetrachloroethene	ND		1.0		ug/L			10/08/16 02:01	1
Tetrahydrofuran	ND		10		ug/L			10/08/16 02:01	1
Toluene	11		1.0		ug/L			10/08/16 02:01	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			10/08/16 02:01	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			10/08/16 02:01	1
Trichloroethene	ND		1.0		ug/L			10/08/16 02:01	1
Trichlorofluoromethane	ND		1.0		ug/L			10/08/16 02:01	1
Vinyl chloride	1.2		1.0		ug/L			10/08/16 02:01	1
Dibromomethane	ND		1.0		ug/L			10/08/16 02:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	91		70 - 130		10/08/16 02:01	1
1,2-Dichloroethane-d4 (Surr)	88		70 - 130		10/08/16 02:01	1

TestAmerica Buffalo

Client Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-107127-1

Client Sample ID: MW-560-20161005

Lab Sample ID: 480-107127-13

Date Collected: 10/05/16 13:00

Matrix: Water

Date Received: 10/06/16 01:45

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130		10/08/16 02:01	1

Method: 6010 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	110		0.050		mg/L		10/07/16 09:30	10/08/16 12:14	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	34		2.5		mg/L			10/07/16 10:25	5
Sulfate	ND		2.0		mg/L			10/10/16 14:12	1
Ammonia	ND		0.20		mg/L		10/09/16 13:43	10/09/16 14:24	1
Nitrate as N	ND		0.050		mg/L			10/06/16 14:38	1
TOC Result 1	5.3		1.0		mg/L			10/08/16 03:43	1
TOC Result 2	6.3		1.0		mg/L			10/08/16 03:43	1
Total Organic Carbon - Duplicates	5.8		1.0		mg/L			10/08/16 03:43	1
Alkalinity, Total	520		5.0		mg/L			10/06/16 19:38	1
ortho-Phosphate	ND		0.020		mg/L			10/06/16 14:30	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.9	HF	0.1		SU			10/06/16 18:57	1

Client Sample ID: MW-561-20161005

Lab Sample ID: 480-107127-14

Date Collected: 10/05/16 12:00

Matrix: Water

Date Received: 10/06/16 01:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			10/10/16 00:47	1
1,1,1-Trichloroethane	ND		1.0		ug/L			10/10/16 00:47	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			10/10/16 00:47	1
1,1,2-Trichloroethane	ND		1.0		ug/L			10/10/16 00:47	1
1,1-Dichloroethane	ND		1.0		ug/L			10/10/16 00:47	1
1,1-Dichloroethene	ND		1.0		ug/L			10/10/16 00:47	1
1,1-Dichloropropene	ND		1.0		ug/L			10/10/16 00:47	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			10/10/16 00:47	1
1,2,3-Trichloropropane	ND		1.0		ug/L			10/10/16 00:47	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			10/10/16 00:47	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			10/10/16 00:47	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			10/10/16 00:47	1
1,2-Dichlorobenzene	ND		1.0		ug/L			10/10/16 00:47	1
1,2-Dichloroethane	ND		1.0		ug/L			10/10/16 00:47	1
1,2-Dichloropropane	ND		1.0		ug/L			10/10/16 00:47	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			10/10/16 00:47	1
1,3-Dichlorobenzene	ND		1.0		ug/L			10/10/16 00:47	1
1,3-Dichloropropane	ND		1.0		ug/L			10/10/16 00:47	1
1,4-Dichlorobenzene	ND		1.0		ug/L			10/10/16 00:47	1
1,4-Dioxane	ND *		50		ug/L			10/10/16 00:47	1
2,2-Dichloropropane	ND		1.0		ug/L			10/10/16 00:47	1
2-Butanone (MEK)	ND		10		ug/L			10/10/16 00:47	1
2-Chlorotoluene	ND		1.0		ug/L			10/10/16 00:47	1

TestAmerica Buffalo

Client Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-107127-1

Client Sample ID: MW-561-20161005

Lab Sample ID: 480-107127-14

Date Collected: 10/05/16 12:00

Matrix: Water

Date Received: 10/06/16 01:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND		10		ug/L			10/10/16 00:47	1
4-Chlorotoluene	ND		1.0		ug/L			10/10/16 00:47	1
4-Isopropyltoluene	ND		1.0		ug/L			10/10/16 00:47	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			10/10/16 00:47	1
Acetone	ND		50		ug/L			10/10/16 00:47	1
Benzene	ND		1.0		ug/L			10/10/16 00:47	1
Bromobenzene	ND		1.0		ug/L			10/10/16 00:47	1
Bromoform	ND		1.0		ug/L			10/10/16 00:47	1
Bromomethane	ND		2.0		ug/L			10/10/16 00:47	1
Carbon disulfide	ND		10		ug/L			10/10/16 00:47	1
Carbon tetrachloride	ND		1.0		ug/L			10/10/16 00:47	1
Chlorobenzene	ND		1.0		ug/L			10/10/16 00:47	1
Chlorobromomethane	ND		1.0		ug/L			10/10/16 00:47	1
Chlorodibromomethane	ND		0.50		ug/L			10/10/16 00:47	1
Chloroethane	ND		2.0		ug/L			10/10/16 00:47	1
Chloroform	ND		1.0		ug/L			10/10/16 00:47	1
Chloromethane	ND		2.0		ug/L			10/10/16 00:47	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			10/10/16 00:47	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			10/10/16 00:47	1
Dichlorobromomethane	ND		0.50		ug/L			10/10/16 00:47	1
Dichlorodifluoromethane	ND		1.0		ug/L			10/10/16 00:47	1
Ethyl ether	ND		1.0		ug/L			10/10/16 00:47	1
Ethylbenzene	ND		1.0		ug/L			10/10/16 00:47	1
Ethylene Dibromide	ND		1.0		ug/L			10/10/16 00:47	1
Hexachlorobutadiene	ND		0.40		ug/L			10/10/16 00:47	1
Isopropyl ether	ND		10		ug/L			10/10/16 00:47	1
Isopropylbenzene	ND		1.0		ug/L			10/10/16 00:47	1
Methyl tert-butyl ether	ND		1.0		ug/L			10/10/16 00:47	1
Methylene Chloride	ND		1.0		ug/L			10/10/16 00:47	1
m-Xylene & p-Xylene	2.5		2.0		ug/L			10/10/16 00:47	1
Naphthalene	ND		5.0		ug/L			10/10/16 00:47	1
n-Butylbenzene	ND		1.0		ug/L			10/10/16 00:47	1
N-Propylbenzene	ND		1.0		ug/L			10/10/16 00:47	1
o-Xylene	ND		1.0		ug/L			10/10/16 00:47	1
sec-Butylbenzene	ND		1.0		ug/L			10/10/16 00:47	1
Styrene	ND		1.0		ug/L			10/10/16 00:47	1
Tert-amyl methyl ether	ND		5.0		ug/L			10/10/16 00:47	1
Tert-butyl ethyl ether	ND		5.0		ug/L			10/10/16 00:47	1
tert-Butylbenzene	ND		1.0		ug/L			10/10/16 00:47	1
Tetrachloroethene	ND		1.0		ug/L			10/10/16 00:47	1
Tetrahydrofuran	ND		10		ug/L			10/10/16 00:47	1
Toluene	ND		1.0		ug/L			10/10/16 00:47	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			10/10/16 00:47	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			10/10/16 00:47	1
Trichloroethene	ND		1.0		ug/L			10/10/16 00:47	1
Trichlorofluoromethane	ND		1.0		ug/L			10/10/16 00:47	1
Vinyl chloride	ND		1.0		ug/L			10/10/16 00:47	1
Dibromomethane	ND		1.0		ug/L			10/10/16 00:47	1

TestAmerica Buffalo

Client Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-107127-1

Client Sample ID: MW-561-20161005

Lab Sample ID: 480-107127-14

Date Collected: 10/05/16 12:00

Matrix: Water

Date Received: 10/06/16 01:45

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	86		70 - 130		10/10/16 00:47	1
1,2-Dichloroethane-d4 (Surr)	83		70 - 130		10/10/16 00:47	1
4-Bromofluorobenzene (Surr)	98		70 - 130		10/10/16 00:47	1

Method: 6010 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	110		0.050		mg/L		10/07/16 09:30	10/08/16 12:18	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	43		2.5		mg/L			10/07/16 10:33	5
Sulfate	ND		2.0		mg/L			10/10/16 14:20	1
Ammonia	3.9		1.0		mg/L		10/09/16 13:43	10/09/16 14:33	5
Nitrate as N	ND		0.050		mg/L			10/06/16 14:40	1
TOC Result 1	8.1		1.0		mg/L			10/08/16 06:03	1
TOC Result 2	9.1		1.0		mg/L			10/08/16 06:03	1
Total Organic Carbon - Duplicates	8.6		1.0		mg/L			10/08/16 06:03	1
Alkalinity, Total	370		5.0		mg/L			10/06/16 19:46	1
ortho-Phosphate	ND		0.020		mg/L			10/06/16 14:30	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.7	HF	0.1		SU			10/06/16 18:59	1

Client Sample ID: MW-563-20161005

Lab Sample ID: 480-107127-15

Date Collected: 10/05/16 13:55

Matrix: Water

Date Received: 10/06/16 01:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			10/08/16 02:49	1
1,1,1-Trichloroethane	ND		1.0		ug/L			10/08/16 02:49	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			10/08/16 02:49	1
1,1,2-Trichloroethane	ND		1.0		ug/L			10/08/16 02:49	1
1,1-Dichloroethane	ND		1.0		ug/L			10/08/16 02:49	1
1,1-Dichloroethene	ND		1.0		ug/L			10/08/16 02:49	1
1,1-Dichloropropene	ND		1.0		ug/L			10/08/16 02:49	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			10/08/16 02:49	1
1,2,3-Trichloropropane	ND		1.0		ug/L			10/08/16 02:49	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			10/08/16 02:49	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			10/08/16 02:49	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			10/08/16 02:49	1
1,2-Dichlorobenzene	ND		1.0		ug/L			10/08/16 02:49	1
1,2-Dichloroethane	ND		1.0		ug/L			10/08/16 02:49	1
1,2-Dichloropropane	ND		1.0		ug/L			10/08/16 02:49	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			10/08/16 02:49	1
1,3-Dichlorobenzene	ND		1.0		ug/L			10/08/16 02:49	1
1,3-Dichloropropane	ND		1.0		ug/L			10/08/16 02:49	1
1,4-Dichlorobenzene	ND		1.0		ug/L			10/08/16 02:49	1
1,4-Dioxane	ND *		50		ug/L			10/08/16 02:49	1
2,2-Dichloropropane	ND		1.0		ug/L			10/08/16 02:49	1
2-Butanone (MEK)	ND		10		ug/L			10/08/16 02:49	1

TestAmerica Buffalo

Client Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-107127-1

Client Sample ID: MW-563-20161005

Lab Sample ID: 480-107127-15

Date Collected: 10/05/16 13:55

Matrix: Water

Date Received: 10/06/16 01:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chlorotoluene	ND		1.0		ug/L			10/08/16 02:49	1
2-Hexanone	ND		10		ug/L			10/08/16 02:49	1
4-Chlorotoluene	ND		1.0		ug/L			10/08/16 02:49	1
4-Isopropyltoluene	ND		1.0		ug/L			10/08/16 02:49	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			10/08/16 02:49	1
Acetone	ND		50		ug/L			10/08/16 02:49	1
Benzene	ND		1.0		ug/L			10/08/16 02:49	1
Bromobenzene	ND		1.0		ug/L			10/08/16 02:49	1
Bromoform	ND		1.0		ug/L			10/08/16 02:49	1
Bromomethane	ND		2.0		ug/L			10/08/16 02:49	1
Carbon disulfide	ND		10		ug/L			10/08/16 02:49	1
Carbon tetrachloride	ND		1.0		ug/L			10/08/16 02:49	1
Chlorobenzene	ND		1.0		ug/L			10/08/16 02:49	1
Chlorobromomethane	ND		1.0		ug/L			10/08/16 02:49	1
Chlorodibromomethane	ND		0.50		ug/L			10/08/16 02:49	1
Chloroethane	ND		2.0		ug/L			10/08/16 02:49	1
Chloroform	ND		1.0		ug/L			10/08/16 02:49	1
Chloromethane	ND		2.0		ug/L			10/08/16 02:49	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			10/08/16 02:49	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			10/08/16 02:49	1
Dichlorobromomethane	ND		0.50		ug/L			10/08/16 02:49	1
Dichlorodifluoromethane	ND		1.0		ug/L			10/08/16 02:49	1
Ethyl ether	ND		1.0		ug/L			10/08/16 02:49	1
Ethylbenzene	ND		1.0		ug/L			10/08/16 02:49	1
Ethylene Dibromide	ND		1.0		ug/L			10/08/16 02:49	1
Hexachlorobutadiene	ND		0.40		ug/L			10/08/16 02:49	1
Isopropyl ether	ND		10		ug/L			10/08/16 02:49	1
Isopropylbenzene	ND		1.0		ug/L			10/08/16 02:49	1
Methyl tert-butyl ether	ND		1.0		ug/L			10/08/16 02:49	1
Methylene Chloride	ND		1.0		ug/L			10/08/16 02:49	1
m-Xylene & p-Xylene	ND		2.0		ug/L			10/08/16 02:49	1
Naphthalene	ND		5.0		ug/L			10/08/16 02:49	1
n-Butylbenzene	ND		1.0		ug/L			10/08/16 02:49	1
N-Propylbenzene	ND		1.0		ug/L			10/08/16 02:49	1
o-Xylene	ND		1.0		ug/L			10/08/16 02:49	1
sec-Butylbenzene	ND		1.0		ug/L			10/08/16 02:49	1
Styrene	ND		1.0		ug/L			10/08/16 02:49	1
Tert-amyl methyl ether	ND		5.0		ug/L			10/08/16 02:49	1
Tert-butyl ethyl ether	ND		5.0		ug/L			10/08/16 02:49	1
tert-Butylbenzene	ND		1.0		ug/L			10/08/16 02:49	1
Tetrachloroethene	ND		1.0		ug/L			10/08/16 02:49	1
Tetrahydrofuran	ND		10		ug/L			10/08/16 02:49	1
Toluene	ND		1.0		ug/L			10/08/16 02:49	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			10/08/16 02:49	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			10/08/16 02:49	1
Trichloroethene	ND		1.0		ug/L			10/08/16 02:49	1
Trichlorofluoromethane	ND		1.0		ug/L			10/08/16 02:49	1
Vinyl chloride	ND		1.0		ug/L			10/08/16 02:49	1
Dibromomethane	ND		1.0		ug/L			10/08/16 02:49	1

TestAmerica Buffalo

Client Sample Results

Client: Innovative Engineering Solutions, Inc
 Project/Site: IDS Wayland

TestAmerica Job ID: 480-107127-1

Client Sample ID: MW-563-20161005

Lab Sample ID: 480-107127-15

Date Collected: 10/05/16 13:55

Matrix: Water

Date Received: 10/06/16 01:45

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	87		70 - 130		10/08/16 02:49	1
1,2-Dichloroethane-d4 (Surr)	89		70 - 130		10/08/16 02:49	1
4-Bromofluorobenzene (Surr)	98		70 - 130		10/08/16 02:49	1

Method: 6010 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	58		0.050		mg/L		10/07/16 09:30	10/08/16 12:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	42		2.5		mg/L			10/07/16 10:42	5
Sulfate	ND		2.0		mg/L			10/10/16 14:28	1
Ammonia	1.3		0.20		mg/L		10/09/16 13:43	10/09/16 14:25	1
Nitrate as N	ND		0.050		mg/L			10/06/16 14:41	1
TOC Result 1	1.6		1.0		mg/L			10/12/16 01:09	1
TOC Result 2	1.7		1.0		mg/L			10/12/16 01:09	1
Total Organic Carbon - Duplicates	1.6		1.0		mg/L			10/12/16 01:09	1
Alkalinity, Total	230		5.0		mg/L			10/06/16 19:52	1
ortho-Phosphate	ND		0.020		mg/L			10/06/16 14:30	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.6	HF	0.1		SU			10/06/16 19:02	1

Surrogate Summary

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-107127-1

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		TOL (70-130)	12DCE (70-130)	BFB (70-130)
480-107127-1	MW-269Ma-20161005	89	85	97
480-107127-2	REW-7-20161005	88	88	98
480-107127-3	REW-8-20161005	90	83	97
480-107127-4	REW-9-20161005	88	85	98
480-107127-5	REW-10-20161005	89	87	98
480-107127-6	REW-11-20161005	87	86	95
480-107127-7	REW-12-20161005	90	93	100
480-107127-8	DUP3-20161005	88	92	97
480-107127-9	TRIP BLANKS	90	90	98
480-107127-10	MW-264M-20161005	88	88	100
480-107127-11	MW-266Ma-20161005	89	91	98
480-107127-12	MW-266Mb-20161005	87	88	96
480-107127-13	MW-560-20161005	91	88	100
480-107127-14	MW-561-20161005	86	83	98
480-107127-15	MW-563-20161005	87	89	98
LCS 480-324317/6	Lab Control Sample	87	82	100
LCS 480-324456/5	Lab Control Sample	88	82	100
LCS 480-324621/5	Lab Control Sample	86	79	103
LCSD 480-324317/7	Lab Control Sample Dup	89	81	101
LCSD 480-324456/6	Lab Control Sample Dup	87	82	97
LCSD 480-324621/6	Lab Control Sample Dup	84	83	99
MB 480-324317/9	Method Blank	91	90	98
MB 480-324456/8	Method Blank	88	86	96
MB 480-324621/8	Method Blank	88	84	98

Surrogate Legend

TOL = Toluene-d8 (Surr)
12DCE = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)

Method: 522 - 1,4 Dioxane (GC/MS SIM)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)
		14DD8 (70-130)
480-107127-1	MW-269Ma-20161005	73
480-107127-11	MW-266Ma-20161005	82
LCS 200-110109/2-A	Lab Control Sample	78
MB 200-110109/1-A	Method Blank	71

Surrogate Legend

14DD8 = 1,4-Dioxane-d8 (Surr)

QC Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-107127-1

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

Lab Sample ID: MB 480-324317/9

Matrix: Water

Analysis Batch: 324317

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			10/07/16 12:14	1
1,1,1-Trichloroethane	ND		1.0		ug/L			10/07/16 12:14	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			10/07/16 12:14	1
1,1,2-Trichloroethane	ND		1.0		ug/L			10/07/16 12:14	1
1,1-Dichloroethane	ND		1.0		ug/L			10/07/16 12:14	1
1,1-Dichloroethene	ND		1.0		ug/L			10/07/16 12:14	1
1,1-Dichloropropene	ND		1.0		ug/L			10/07/16 12:14	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			10/07/16 12:14	1
1,2,3-Trichloropropane	ND		1.0		ug/L			10/07/16 12:14	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			10/07/16 12:14	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			10/07/16 12:14	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			10/07/16 12:14	1
1,2-Dichlorobenzene	ND		1.0		ug/L			10/07/16 12:14	1
1,2-Dichloroethane	ND		1.0		ug/L			10/07/16 12:14	1
1,2-Dichloropropane	ND		1.0		ug/L			10/07/16 12:14	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			10/07/16 12:14	1
1,3-Dichlorobenzene	ND		1.0		ug/L			10/07/16 12:14	1
1,3-Dichloropropane	ND		1.0		ug/L			10/07/16 12:14	1
1,4-Dichlorobenzene	ND		1.0		ug/L			10/07/16 12:14	1
1,4-Dioxane	ND		50		ug/L			10/07/16 12:14	1
2,2-Dichloropropane	ND		1.0		ug/L			10/07/16 12:14	1
2-Butanone (MEK)	ND		10		ug/L			10/07/16 12:14	1
2-Chlorotoluene	ND		1.0		ug/L			10/07/16 12:14	1
2-Hexanone	ND		10		ug/L			10/07/16 12:14	1
4-Chlorotoluene	ND		1.0		ug/L			10/07/16 12:14	1
4-Isopropyltoluene	ND		1.0		ug/L			10/07/16 12:14	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			10/07/16 12:14	1
Acetone	ND		50		ug/L			10/07/16 12:14	1
Benzene	ND		1.0		ug/L			10/07/16 12:14	1
Bromobenzene	ND		1.0		ug/L			10/07/16 12:14	1
Bromoform	ND		1.0		ug/L			10/07/16 12:14	1
Bromomethane	ND		2.0		ug/L			10/07/16 12:14	1
Carbon disulfide	ND		10		ug/L			10/07/16 12:14	1
Carbon tetrachloride	ND		1.0		ug/L			10/07/16 12:14	1
Chlorobenzene	ND		1.0		ug/L			10/07/16 12:14	1
Chlorobromomethane	ND		1.0		ug/L			10/07/16 12:14	1
Chlorodibromomethane	ND		0.50		ug/L			10/07/16 12:14	1
Chloroethane	ND		2.0		ug/L			10/07/16 12:14	1
Chloroform	ND		1.0		ug/L			10/07/16 12:14	1
Chloromethane	ND		2.0		ug/L			10/07/16 12:14	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			10/07/16 12:14	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			10/07/16 12:14	1
Dichlorobromomethane	ND		0.50		ug/L			10/07/16 12:14	1
Dichlorodifluoromethane	ND		1.0		ug/L			10/07/16 12:14	1
Ethyl ether	ND		1.0		ug/L			10/07/16 12:14	1
Ethylbenzene	ND		1.0		ug/L			10/07/16 12:14	1
Ethylene Dibromide	ND		1.0		ug/L			10/07/16 12:14	1
Hexachlorobutadiene	ND		0.40		ug/L			10/07/16 12:14	1

TestAmerica Buffalo

QC Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-107127-1

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

Lab Sample ID: MB 480-324317/9
Matrix: Water
Analysis Batch: 324317

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropyl ether	ND		10		ug/L			10/07/16 12:14	1
Isopropylbenzene	ND		1.0		ug/L			10/07/16 12:14	1
Methyl tert-butyl ether	ND		1.0		ug/L			10/07/16 12:14	1
Methylene Chloride	ND		1.0		ug/L			10/07/16 12:14	1
m-Xylene & p-Xylene	ND		2.0		ug/L			10/07/16 12:14	1
Naphthalene	ND		5.0		ug/L			10/07/16 12:14	1
n-Butylbenzene	ND		1.0		ug/L			10/07/16 12:14	1
N-Propylbenzene	ND		1.0		ug/L			10/07/16 12:14	1
o-Xylene	ND		1.0		ug/L			10/07/16 12:14	1
sec-Butylbenzene	ND		1.0		ug/L			10/07/16 12:14	1
Styrene	ND		1.0		ug/L			10/07/16 12:14	1
Tert-amyl methyl ether	ND		5.0		ug/L			10/07/16 12:14	1
Tert-butyl ethyl ether	ND		5.0		ug/L			10/07/16 12:14	1
tert-Butylbenzene	ND		1.0		ug/L			10/07/16 12:14	1
Tetrachloroethene	ND		1.0		ug/L			10/07/16 12:14	1
Tetrahydrofuran	ND		10		ug/L			10/07/16 12:14	1
Toluene	ND		1.0		ug/L			10/07/16 12:14	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			10/07/16 12:14	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			10/07/16 12:14	1
Trichloroethene	ND		1.0		ug/L			10/07/16 12:14	1
Trichlorofluoromethane	ND		1.0		ug/L			10/07/16 12:14	1
Vinyl chloride	ND		1.0		ug/L			10/07/16 12:14	1
Dibromomethane	ND		1.0		ug/L			10/07/16 12:14	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	91		70 - 130		10/07/16 12:14	1
1,2-Dichloroethane-d4 (Surr)	90		70 - 130		10/07/16 12:14	1
4-Bromofluorobenzene (Surr)	98		70 - 130		10/07/16 12:14	1

Lab Sample ID: LCS 480-324317/6
Matrix: Water
Analysis Batch: 324317

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	25.0	24.1		ug/L		96	70 - 130
1,1,1-Trichloroethane	25.0	25.5		ug/L		102	70 - 130
1,1,2,2-Tetrachloroethane	25.0	21.5		ug/L		86	70 - 130
1,1,2-Trichloroethane	25.0	22.4		ug/L		90	70 - 130
1,1-Dichloroethane	25.0	24.8		ug/L		99	70 - 130
1,1-Dichloroethene	25.0	24.5		ug/L		98	70 - 130
1,1-Dichloropropene	25.0	24.3		ug/L		97	70 - 130
1,2,3-Trichlorobenzene	25.0	21.3		ug/L		85	70 - 130
1,2,3-Trichloropropane	25.0	19.9		ug/L		80	70 - 130
1,2,4-Trichlorobenzene	25.0	22.9		ug/L		92	70 - 130
1,2,4-Trimethylbenzene	25.0	23.9		ug/L		96	70 - 130
1,2-Dibromo-3-Chloropropane	25.0	21.1		ug/L		84	70 - 130
1,2-Dichlorobenzene	25.0	22.8		ug/L		91	70 - 130
1,2-Dichloroethane	25.0	22.1		ug/L		89	70 - 130

TestAmerica Buffalo

QC Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-107127-1

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

Lab Sample ID: LCS 480-324317/6

Matrix: Water

Analysis Batch: 324317

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichloropropane	25.0	23.9		ug/L		96	70 - 130
1,3,5-Trimethylbenzene	25.0	24.6		ug/L		98	70 - 130
1,3-Dichlorobenzene	25.0	24.0		ug/L		96	70 - 130
1,3-Dichloropropane	25.0	20.6		ug/L		82	70 - 130
1,4-Dichlorobenzene	25.0	23.8		ug/L		95	70 - 130
1,4-Dioxane	500	363		ug/L		73	70 - 130
2,2-Dichloropropane	25.0	24.3		ug/L		97	70 - 130
2-Butanone (MEK)	125	104		ug/L		84	70 - 130
2-Chlorotoluene	25.0	23.6		ug/L		95	70 - 130
2-Hexanone	125	105		ug/L		84	70 - 130
4-Chlorotoluene	25.0	25.7		ug/L		103	70 - 130
4-Isopropyltoluene	25.0	25.4		ug/L		102	70 - 130
4-Methyl-2-pentanone (MIBK)	125	99.2		ug/L		79	70 - 130
Acetone	125	109		ug/L		88	70 - 130
Benzene	25.0	24.0		ug/L		96	70 - 130
Bromobenzene	25.0	23.5		ug/L		94	70 - 130
Bromoform	25.0	22.9		ug/L		91	70 - 130
Bromomethane	25.0	24.2		ug/L		97	70 - 130
Carbon disulfide	25.0	24.8		ug/L		99	70 - 130
Carbon tetrachloride	25.0	25.1		ug/L		101	70 - 130
Chlorobenzene	25.0	23.8		ug/L		95	70 - 130
Chlorobromomethane	25.0	24.4		ug/L		98	70 - 130
Chlorodibromomethane	25.0	24.4		ug/L		97	70 - 130
Chloroethane	25.0	26.5		ug/L		106	70 - 130
Chloroform	25.0	23.5		ug/L		94	70 - 130
Chloromethane	25.0	24.7		ug/L		99	70 - 130
cis-1,2-Dichloroethene	25.0	24.9		ug/L		99	70 - 130
cis-1,3-Dichloropropene	25.0	24.7		ug/L		99	70 - 130
Dichlorobromomethane	25.0	24.3		ug/L		97	70 - 130
Dichlorodifluoromethane	25.0	25.4		ug/L		101	70 - 130
Ethyl ether	25.0	21.8		ug/L		87	70 - 130
Ethylbenzene	25.0	23.7		ug/L		95	70 - 130
Ethylene Dibromide	25.0	21.8		ug/L		87	70 - 130
Hexachlorobutadiene	25.0	24.5		ug/L		98	70 - 130
Isopropyl ether	25.0	23.4		ug/L		93	70 - 130
Isopropylbenzene	25.0	23.7		ug/L		95	70 - 130
Methyl tert-butyl ether	25.0	21.7		ug/L		87	70 - 130
Methylene Chloride	25.0	26.8		ug/L		107	70 - 130
m-Xylene & p-Xylene	25.0	23.3		ug/L		93	70 - 130
Naphthalene	25.0	20.1		ug/L		80	70 - 130
n-Butylbenzene	25.0	24.5		ug/L		98	70 - 130
N-Propylbenzene	25.0	24.1		ug/L		97	70 - 130
o-Xylene	25.0	24.0		ug/L		96	70 - 130
sec-Butylbenzene	25.0	24.1		ug/L		96	70 - 130
Styrene	25.0	24.9		ug/L		100	70 - 130
Tert-amyl methyl ether	25.0	22.8		ug/L		91	70 - 130
Tert-butyl ethyl ether	25.0	23.0		ug/L		92	70 - 130
tert-Butylbenzene	25.0	24.7		ug/L		99	70 - 130

TestAmerica Buffalo

QC Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-107127-1

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

Lab Sample ID: LCS 480-324317/6

Matrix: Water

Analysis Batch: 324317

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Tetrachloroethene	25.0	26.1		ug/L		105	70 - 130
Tetrahydrofuran	50.0	54.5		ug/L		109	70 - 130
Toluene	25.0	23.2		ug/L		93	70 - 130
trans-1,2-Dichloroethene	25.0	25.1		ug/L		100	70 - 130
trans-1,3-Dichloropropene	25.0	22.4		ug/L		90	70 - 130
Trichloroethene	25.0	24.8		ug/L		99	70 - 130
Trichlorofluoromethane	25.0	28.6		ug/L		114	70 - 130
Vinyl chloride	25.0	25.4		ug/L		101	70 - 130
Dibromomethane	25.0	23.4		ug/L		93	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Toluene-d8 (Surr)	87		70 - 130
1,2-Dichloroethane-d4 (Surr)	82		70 - 130
4-Bromofluorobenzene (Surr)	100		70 - 130

Lab Sample ID: LCSD 480-324317/7

Matrix: Water

Analysis Batch: 324317

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	25.0	25.1		ug/L		100	70 - 130	4	20
1,1,1-Trichloroethane	25.0	24.1		ug/L		97	70 - 130	5	20
1,1,1,2,2-Tetrachloroethane	25.0	22.0		ug/L		88	70 - 130	2	20
1,1,1,2-Trichloroethane	25.0	22.4		ug/L		90	70 - 130	0	20
1,1-Dichloroethane	25.0	23.3		ug/L		93	70 - 130	6	20
1,1-Dichloroethene	25.0	22.6		ug/L		90	70 - 130	8	20
1,1-Dichloropropene	25.0	22.8		ug/L		91	70 - 130	6	20
1,2,3-Trichlorobenzene	25.0	22.1		ug/L		88	70 - 130	3	20
1,2,3-Trichloropropane	25.0	21.1		ug/L		85	70 - 130	6	20
1,2,4-Trichlorobenzene	25.0	23.1		ug/L		92	70 - 130	1	20
1,2,4-Trimethylbenzene	25.0	24.7		ug/L		99	70 - 130	3	20
1,2-Dibromo-3-Chloropropane	25.0	21.6		ug/L		87	70 - 130	2	20
1,2-Dichlorobenzene	25.0	24.1		ug/L		96	70 - 130	5	20
1,2-Dichloroethane	25.0	22.0		ug/L		88	70 - 130	1	20
1,2-Dichloropropane	25.0	23.1		ug/L		92	70 - 130	3	20
1,3,5-Trimethylbenzene	25.0	24.3		ug/L		97	70 - 130	1	20
1,3-Dichlorobenzene	25.0	24.1		ug/L		96	70 - 130	0	20
1,3-Dichloropropane	25.0	21.2		ug/L		85	70 - 130	3	20
1,4-Dichlorobenzene	25.0	24.5		ug/L		98	70 - 130	3	20
1,4-Dioxane	500	379		ug/L		76	70 - 130	4	20
2,2-Dichloropropane	25.0	23.7		ug/L		95	70 - 130	3	20
2-Butanone (MEK)	125	106		ug/L		85	70 - 130	1	20
2-Chlorotoluene	25.0	24.1		ug/L		96	70 - 130	2	20
2-Hexanone	125	105		ug/L		84	70 - 130	1	20
4-Chlorotoluene	25.0	26.3		ug/L		105	70 - 130	2	20
4-Isopropyltoluene	25.0	25.1		ug/L		100	70 - 130	1	20
4-Methyl-2-pentanone (MIBK)	125	102		ug/L		82	70 - 130	3	20
Acetone	125	108		ug/L		87	70 - 130	1	20

TestAmerica Buffalo

QC Sample Results

Client: Innovative Engineering Solutions, Inc
 Project/Site: IDS Wayland

TestAmerica Job ID: 480-107127-1

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

Lab Sample ID: LCSD 480-324317/7

Client Sample ID: Lab Control Sample Dup

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 324317

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	25.0	23.4		ug/L		94	70 - 130	3	20
Bromobenzene	25.0	24.0		ug/L		96	70 - 130	2	20
Bromoform	25.0	24.3		ug/L		97	70 - 130	6	20
Bromomethane	25.0	23.5		ug/L		94	70 - 130	3	20
Carbon disulfide	25.0	23.3		ug/L		93	70 - 130	6	20
Carbon tetrachloride	25.0	24.3		ug/L		97	70 - 130	4	20
Chlorobenzene	25.0	23.9		ug/L		96	70 - 130	0	20
Chlorobromomethane	25.0	23.7		ug/L		95	70 - 130	3	20
Chlorodibromomethane	25.0	25.1		ug/L		100	70 - 130	3	20
Chloroethane	25.0	25.3		ug/L		101	70 - 130	5	20
Chloroform	25.0	22.6		ug/L		91	70 - 130	4	20
Chloromethane	25.0	23.7		ug/L		95	70 - 130	4	20
cis-1,2-Dichloroethene	25.0	23.3		ug/L		93	70 - 130	7	20
cis-1,3-Dichloropropene	25.0	24.5		ug/L		98	70 - 130	1	20
Dichlorobromomethane	25.0	24.2		ug/L		97	70 - 130	1	20
Dichlorodifluoromethane	25.0	23.6		ug/L		95	70 - 130	7	20
Ethyl ether	25.0	21.7		ug/L		87	70 - 130	1	20
Ethylbenzene	25.0	23.2		ug/L		93	70 - 130	2	20
Ethylene Dibromide	25.0	22.5		ug/L		90	70 - 130	3	20
Hexachlorobutadiene	25.0	24.9		ug/L		100	70 - 130	2	20
Isopropyl ether	25.0	22.5		ug/L		90	70 - 130	4	20
Isopropylbenzene	25.0	24.0		ug/L		96	70 - 130	1	20
Methyl tert-butyl ether	25.0	21.3		ug/L		85	70 - 130	2	20
Methylene Chloride	25.0	25.2		ug/L		101	70 - 130	6	20
m-Xylene & p-Xylene	25.0	23.3		ug/L		93	70 - 130	0	20
Naphthalene	25.0	21.1		ug/L		84	70 - 130	5	20
n-Butylbenzene	25.0	24.3		ug/L		97	70 - 130	1	20
N-Propylbenzene	25.0	23.9		ug/L		95	70 - 130	1	20
o-Xylene	25.0	23.8		ug/L		95	70 - 130	1	20
sec-Butylbenzene	25.0	24.4		ug/L		98	70 - 130	1	20
Styrene	25.0	24.5		ug/L		98	70 - 130	2	20
Tert-amyl methyl ether	25.0	22.2		ug/L		89	70 - 130	3	20
Tert-butyl ethyl ether	25.0	22.8		ug/L		91	70 - 130	1	20
tert-Butylbenzene	25.0	24.6		ug/L		98	70 - 130	1	20
Tetrachloroethene	25.0	26.1		ug/L		104	70 - 130	0	20
Tetrahydrofuran	50.0	53.0		ug/L		106	70 - 130	3	20
Toluene	25.0	23.7		ug/L		95	70 - 130	2	20
trans-1,2-Dichloroethene	25.0	24.3		ug/L		97	70 - 130	3	20
trans-1,3-Dichloropropene	25.0	23.1		ug/L		92	70 - 130	3	20
Trichloroethene	25.0	23.6		ug/L		94	70 - 130	5	20
Trichlorofluoromethane	25.0	26.9		ug/L		108	70 - 130	6	20
Vinyl chloride	25.0	24.0		ug/L		96	70 - 130	5	20
Dibromomethane	25.0	23.3		ug/L		93	70 - 130	0	20

Surrogate	LCSD LCSD		Limits
	%Recovery	Qualifier	
Toluene-d8 (Surr)	89		70 - 130
1,2-Dichloroethane-d4 (Surr)	81		70 - 130
4-Bromofluorobenzene (Surr)	101		70 - 130

TestAmerica Buffalo

QC Sample Results

Client: Innovative Engineering Solutions, Inc
 Project/Site: IDS Wayland

TestAmerica Job ID: 480-107127-1

Lab Sample ID: MB 480-324456/8
Matrix: Water
Analysis Batch: 324456

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			10/07/16 22:17	1
1,1,1-Trichloroethane	ND		1.0		ug/L			10/07/16 22:17	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			10/07/16 22:17	1
1,1,2-Trichloroethane	ND		1.0		ug/L			10/07/16 22:17	1
1,1-Dichloroethane	ND		1.0		ug/L			10/07/16 22:17	1
1,1-Dichloroethene	ND		1.0		ug/L			10/07/16 22:17	1
1,1-Dichloropropene	ND		1.0		ug/L			10/07/16 22:17	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			10/07/16 22:17	1
1,2,3-Trichloropropane	ND		1.0		ug/L			10/07/16 22:17	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			10/07/16 22:17	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			10/07/16 22:17	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			10/07/16 22:17	1
1,2-Dichlorobenzene	ND		1.0		ug/L			10/07/16 22:17	1
1,2-Dichloroethane	ND		1.0		ug/L			10/07/16 22:17	1
1,2-Dichloropropane	ND		1.0		ug/L			10/07/16 22:17	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			10/07/16 22:17	1
1,3-Dichlorobenzene	ND		1.0		ug/L			10/07/16 22:17	1
1,3-Dichloropropane	ND		1.0		ug/L			10/07/16 22:17	1
1,4-Dichlorobenzene	ND		1.0		ug/L			10/07/16 22:17	1
1,4-Dioxane	ND		50		ug/L			10/07/16 22:17	1
2,2-Dichloropropane	ND		1.0		ug/L			10/07/16 22:17	1
2-Butanone (MEK)	ND		10		ug/L			10/07/16 22:17	1
2-Chlorotoluene	ND		1.0		ug/L			10/07/16 22:17	1
2-Hexanone	ND		10		ug/L			10/07/16 22:17	1
4-Chlorotoluene	ND		1.0		ug/L			10/07/16 22:17	1
4-Isopropyltoluene	ND		1.0		ug/L			10/07/16 22:17	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			10/07/16 22:17	1
Acetone	ND		50		ug/L			10/07/16 22:17	1
Benzene	ND		1.0		ug/L			10/07/16 22:17	1
Bromobenzene	ND		1.0		ug/L			10/07/16 22:17	1
Bromoform	ND		1.0		ug/L			10/07/16 22:17	1
Bromomethane	ND		2.0		ug/L			10/07/16 22:17	1
Carbon disulfide	ND		10		ug/L			10/07/16 22:17	1
Carbon tetrachloride	ND		1.0		ug/L			10/07/16 22:17	1
Chlorobenzene	ND		1.0		ug/L			10/07/16 22:17	1
Chlorobromomethane	ND		1.0		ug/L			10/07/16 22:17	1
Chlorodibromomethane	ND		0.50		ug/L			10/07/16 22:17	1
Chloroethane	ND		2.0		ug/L			10/07/16 22:17	1
Chloroform	ND		1.0		ug/L			10/07/16 22:17	1
Chloromethane	ND		2.0		ug/L			10/07/16 22:17	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			10/07/16 22:17	1
cis-1,3-Dichloropropane	ND		0.40		ug/L			10/07/16 22:17	1
Dichlorobromomethane	ND		0.50		ug/L			10/07/16 22:17	1
Dichlorodifluoromethane	ND		1.0		ug/L			10/07/16 22:17	1
Ethyl ether	ND		1.0		ug/L			10/07/16 22:17	1
Ethylbenzene	ND		1.0		ug/L			10/07/16 22:17	1
Ethylene Dibromide	ND		1.0		ug/L			10/07/16 22:17	1
Hexachlorobutadiene	ND		0.40		ug/L			10/07/16 22:17	1
Isopropyl ether	ND		10		ug/L			10/07/16 22:17	1
Isopropylbenzene	ND		1.0		ug/L			10/07/16 22:17	1

TestAmerica Buffalo

QC Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-107127-1

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

Lab Sample ID: MB 480-324456/8
Matrix: Water
Analysis Batch: 324456

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		1.0		ug/L			10/07/16 22:17	1
Methylene Chloride	ND		1.0		ug/L			10/07/16 22:17	1
m-Xylene & p-Xylene	ND		2.0		ug/L			10/07/16 22:17	1
Naphthalene	ND		5.0		ug/L			10/07/16 22:17	1
n-Butylbenzene	ND		1.0		ug/L			10/07/16 22:17	1
N-Propylbenzene	ND		1.0		ug/L			10/07/16 22:17	1
o-Xylene	ND		1.0		ug/L			10/07/16 22:17	1
sec-Butylbenzene	ND		1.0		ug/L			10/07/16 22:17	1
Styrene	ND		1.0		ug/L			10/07/16 22:17	1
Tert-amyl methyl ether	ND		5.0		ug/L			10/07/16 22:17	1
Tert-butyl ethyl ether	ND		5.0		ug/L			10/07/16 22:17	1
tert-Butylbenzene	ND		1.0		ug/L			10/07/16 22:17	1
Tetrachloroethene	ND		1.0		ug/L			10/07/16 22:17	1
Tetrahydrofuran	ND		10		ug/L			10/07/16 22:17	1
Toluene	ND		1.0		ug/L			10/07/16 22:17	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			10/07/16 22:17	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			10/07/16 22:17	1
Trichloroethene	ND		1.0		ug/L			10/07/16 22:17	1
Trichlorofluoromethane	ND		1.0		ug/L			10/07/16 22:17	1
Vinyl chloride	ND		1.0		ug/L			10/07/16 22:17	1
Dibromomethane	ND		1.0		ug/L			10/07/16 22:17	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	88		70 - 130		10/07/16 22:17	1
1,2-Dichloroethane-d4 (Surr)	86		70 - 130		10/07/16 22:17	1
4-Bromofluorobenzene (Surr)	96		70 - 130		10/07/16 22:17	1

Lab Sample ID: LCS 480-324456/5
Matrix: Water
Analysis Batch: 324456

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	25.0	23.1		ug/L		92	70 - 130
1,1,1-Trichloroethane	25.0	24.0		ug/L		96	70 - 130
1,1,1,2,2-Tetrachloroethane	25.0	20.8		ug/L		83	70 - 130
1,1,2-Trichloroethane	25.0	21.6		ug/L		86	70 - 130
1,1-Dichloroethane	25.0	24.3		ug/L		97	70 - 130
1,1-Dichloroethene	25.0	24.3		ug/L		97	70 - 130
1,1-Dichloropropene	25.0	22.7		ug/L		91	70 - 130
1,2,3-Trichlorobenzene	25.0	20.4		ug/L		82	70 - 130
1,2,3-Trichloropropane	25.0	19.5		ug/L		78	70 - 130
1,2,4-Trichlorobenzene	25.0	21.5		ug/L		86	70 - 130
1,2,4-Trimethylbenzene	25.0	23.0		ug/L		92	70 - 130
1,2-Dibromo-3-Chloropropane	25.0	19.1		ug/L		76	70 - 130
1,2-Dichlorobenzene	25.0	22.5		ug/L		90	70 - 130
1,2-Dichloroethane	25.0	22.0		ug/L		88	70 - 130
1,2-Dichloropropane	25.0	23.0		ug/L		92	70 - 130
1,3,5-Trimethylbenzene	25.0	23.4		ug/L		94	70 - 130

TestAmerica Buffalo

QC Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-107127-1

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

Lab Sample ID: LCS 480-324456/5

Matrix: Water

Analysis Batch: 324456

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,3-Dichlorobenzene	25.0	22.9		ug/L		91	70 - 130
1,3-Dichloropropane	25.0	20.6		ug/L		82	70 - 130
1,4-Dichlorobenzene	25.0	23.2		ug/L		93	70 - 130
1,4-Dioxane	500	326	*	ug/L		65	70 - 130
2,2-Dichloropropane	25.0	23.3		ug/L		93	70 - 130
2-Butanone (MEK)	125	107		ug/L		86	70 - 130
2-Chlorotoluene	25.0	22.7		ug/L		91	70 - 130
2-Hexanone	125	101		ug/L		80	70 - 130
4-Chlorotoluene	25.0	24.6		ug/L		98	70 - 130
4-Isopropyltoluene	25.0	23.5		ug/L		94	70 - 130
4-Methyl-2-pentanone (MIBK)	125	96.2		ug/L		77	70 - 130
Acetone	125	121		ug/L		97	70 - 130
Benzene	25.0	23.2		ug/L		93	70 - 130
Bromobenzene	25.0	23.3		ug/L		93	70 - 130
Bromoform	25.0	22.1		ug/L		88	70 - 130
Bromomethane	25.0	25.5		ug/L		102	70 - 130
Carbon disulfide	25.0	23.6		ug/L		94	70 - 130
Carbon tetrachloride	25.0	24.3		ug/L		97	70 - 130
Chlorobenzene	25.0	22.5		ug/L		90	70 - 130
Chlorobromomethane	25.0	24.8		ug/L		99	70 - 130
Chlorodibromomethane	25.0	23.2		ug/L		93	70 - 130
Chloroethane	25.0	27.5		ug/L		110	70 - 130
Chloroform	25.0	23.3		ug/L		93	70 - 130
Chloromethane	25.0	26.1		ug/L		104	70 - 130
cis-1,2-Dichloroethene	25.0	24.3		ug/L		97	70 - 130
cis-1,3-Dichloropropene	25.0	24.1		ug/L		96	70 - 130
Dichlorobromomethane	25.0	23.7		ug/L		95	70 - 130
Dichlorodifluoromethane	25.0	26.4		ug/L		106	70 - 130
Ethyl ether	25.0	21.0		ug/L		84	70 - 130
Ethylbenzene	25.0	22.1		ug/L		89	70 - 130
Ethylene Dibromide	25.0	21.2		ug/L		85	70 - 130
Hexachlorobutadiene	25.0	23.2		ug/L		93	70 - 130
Isopropyl ether	25.0	23.2		ug/L		93	70 - 130
Isopropylbenzene	25.0	22.6		ug/L		90	70 - 130
Methyl tert-butyl ether	25.0	21.8		ug/L		87	70 - 130
Methylene Chloride	25.0	25.8		ug/L		103	70 - 130
m-Xylene & p-Xylene	25.0	22.2		ug/L		89	70 - 130
Naphthalene	25.0	19.4		ug/L		77	70 - 130
n-Butylbenzene	25.0	22.9		ug/L		92	70 - 130
N-Propylbenzene	25.0	22.6		ug/L		90	70 - 130
o-Xylene	25.0	22.6		ug/L		90	70 - 130
sec-Butylbenzene	25.0	22.8		ug/L		91	70 - 130
Styrene	25.0	23.7		ug/L		95	70 - 130
Tert-amyl methyl ether	25.0	22.6		ug/L		91	70 - 130
Tert-butyl ethyl ether	25.0	22.8		ug/L		91	70 - 130
tert-Butylbenzene	25.0	22.7		ug/L		91	70 - 130
Tetrachloroethene	25.0	24.8		ug/L		99	70 - 130
Tetrahydrofuran	50.0	53.3		ug/L		107	70 - 130

TestAmerica Buffalo

QC Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-107127-1

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

Lab Sample ID: LCS 480-324456/5

Matrix: Water

Analysis Batch: 324456

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Toluene	25.0	21.8		ug/L		87	70 - 130
trans-1,2-Dichloroethene	25.0	23.5		ug/L		94	70 - 130
trans-1,3-Dichloropropene	25.0	21.7		ug/L		87	70 - 130
Trichloroethene	25.0	23.8		ug/L		95	70 - 130
Trichlorofluoromethane	25.0	29.8		ug/L		119	70 - 130
Vinyl chloride	25.0	25.9		ug/L		104	70 - 130
Dibromomethane	25.0	22.8		ug/L		91	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Toluene-d8 (Surr)	88		70 - 130
1,2-Dichloroethane-d4 (Surr)	82		70 - 130
4-Bromofluorobenzene (Surr)	100		70 - 130

Lab Sample ID: LCSD 480-324456/6

Matrix: Water

Analysis Batch: 324456

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	25.0	22.9		ug/L		92	70 - 130	1	20
1,1,1-Trichloroethane	25.0	24.0		ug/L		96	70 - 130	0	20
1,1,1,2,2-Tetrachloroethane	25.0	20.9		ug/L		84	70 - 130	1	20
1,1,1,2-Trichloroethane	25.0	21.0		ug/L		84	70 - 130	3	20
1,1-Dichloroethane	25.0	23.7		ug/L		95	70 - 130	2	20
1,1-Dichloroethene	25.0	23.3		ug/L		93	70 - 130	4	20
1,1-Dichloropropene	25.0	23.4		ug/L		94	70 - 130	3	20
1,2,3-Trichlorobenzene	25.0	21.1		ug/L		84	70 - 130	3	20
1,2,3-Trichloropropane	25.0	19.4		ug/L		78	70 - 130	0	20
1,2,4-Trichlorobenzene	25.0	21.7		ug/L		87	70 - 130	1	20
1,2,4-Trimethylbenzene	25.0	23.7		ug/L		95	70 - 130	3	20
1,2-Dibromo-3-Chloropropane	25.0	20.3		ug/L		81	70 - 130	6	20
1,2-Dichlorobenzene	25.0	23.0		ug/L		92	70 - 130	2	20
1,2-Dichloroethane	25.0	21.7		ug/L		87	70 - 130	1	20
1,2-Dichloropropane	25.0	22.9		ug/L		92	70 - 130	0	20
1,3,5-Trimethylbenzene	25.0	23.9		ug/L		96	70 - 130	2	20
1,3-Dichlorobenzene	25.0	23.5		ug/L		94	70 - 130	3	20
1,3-Dichloropropane	25.0	20.1		ug/L		80	70 - 130	3	20
1,4-Dichlorobenzene	25.0	23.4		ug/L		94	70 - 130	1	20
1,4-Dioxane	500	386		ug/L		77	70 - 130	17	20
2,2-Dichloropropane	25.0	23.5		ug/L		94	70 - 130	1	20
2-Butanone (MEK)	125	117		ug/L		94	70 - 130	9	20
2-Chlorotoluene	25.0	23.6		ug/L		94	70 - 130	4	20
2-Hexanone	125	102		ug/L		81	70 - 130	1	20
4-Chlorotoluene	25.0	25.0		ug/L		100	70 - 130	2	20
4-Isopropyltoluene	25.0	24.5		ug/L		98	70 - 130	4	20
4-Methyl-2-pentanone (MIBK)	125	95.9		ug/L		77	70 - 130	0	20
Acetone	125	116		ug/L		93	70 - 130	4	20
Benzene	25.0	23.2		ug/L		93	70 - 130	0	20
Bromobenzene	25.0	22.8		ug/L		91	70 - 130	2	20

TestAmerica Buffalo

QC Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-107127-1

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

Lab Sample ID: LCSD 480-324456/6

Matrix: Water

Analysis Batch: 324456

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Bromoform	25.0	21.7		ug/L		87	70 - 130	2	20
Bromomethane	25.0	26.6		ug/L		107	70 - 130	4	20
Carbon disulfide	25.0	24.2		ug/L		97	70 - 130	2	20
Carbon tetrachloride	25.0	24.9		ug/L		99	70 - 130	2	20
Chlorobenzene	25.0	23.1		ug/L		93	70 - 130	3	20
Chlorobromomethane	25.0	24.1		ug/L		97	70 - 130	3	20
Chlorodibromomethane	25.0	23.1		ug/L		92	70 - 130	0	20
Chloroethane	25.0	27.2		ug/L		109	70 - 130	1	20
Chloroform	25.0	22.7		ug/L		91	70 - 130	2	20
Chloromethane	25.0	25.7		ug/L		103	70 - 130	2	20
cis-1,2-Dichloroethene	25.0	23.4		ug/L		93	70 - 130	4	20
cis-1,3-Dichloropropene	25.0	23.5		ug/L		94	70 - 130	2	20
Dichlorobromomethane	25.0	23.6		ug/L		94	70 - 130	0	20
Dichlorodifluoromethane	25.0	26.5		ug/L		106	70 - 130	0	20
Ethyl ether	25.0	21.2		ug/L		85	70 - 130	1	20
Ethylbenzene	25.0	22.8		ug/L		91	70 - 130	3	20
Ethylene Dibromide	25.0	21.3		ug/L		85	70 - 130	1	20
Hexachlorobutadiene	25.0	24.2		ug/L		97	70 - 130	4	20
Isopropyl ether	25.0	22.4		ug/L		90	70 - 130	4	20
Isopropylbenzene	25.0	23.2		ug/L		93	70 - 130	3	20
Methyl tert-butyl ether	25.0	20.6		ug/L		82	70 - 130	6	20
Methylene Chloride	25.0	25.1		ug/L		101	70 - 130	3	20
m-Xylene & p-Xylene	25.0	23.6		ug/L		94	70 - 130	6	20
Naphthalene	25.0	19.9		ug/L		80	70 - 130	3	20
n-Butylbenzene	25.0	23.4		ug/L		94	70 - 130	2	20
N-Propylbenzene	25.0	23.4		ug/L		94	70 - 130	4	20
o-Xylene	25.0	23.5		ug/L		94	70 - 130	4	20
sec-Butylbenzene	25.0	23.9		ug/L		95	70 - 130	4	20
Styrene	25.0	23.7		ug/L		95	70 - 130	0	20
Tert-amyl methyl ether	25.0	21.9		ug/L		87	70 - 130	3	20
Tert-butyl ethyl ether	25.0	22.6		ug/L		90	70 - 130	1	20
tert-Butylbenzene	25.0	23.9		ug/L		96	70 - 130	5	20
Tetrachloroethene	25.0	25.4		ug/L		101	70 - 130	2	20
Tetrahydrofuran	50.0	52.2		ug/L		104	70 - 130	2	20
Toluene	25.0	22.4		ug/L		90	70 - 130	3	20
trans-1,2-Dichloroethene	25.0	23.5		ug/L		94	70 - 130	0	20
trans-1,3-Dichloropropene	25.0	21.2		ug/L		85	70 - 130	3	20
Trichloroethene	25.0	24.3		ug/L		97	70 - 130	2	20
Trichlorofluoromethane	25.0	30.0		ug/L		120	70 - 130	1	20
Vinyl chloride	25.0	26.7		ug/L		107	70 - 130	3	20
Dibromomethane	25.0	22.4		ug/L		89	70 - 130	2	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Toluene-d8 (Surr)	87		70 - 130
1,2-Dichloroethane-d4 (Surr)	82		70 - 130
4-Bromofluorobenzene (Surr)	97		70 - 130

TestAmerica Buffalo

QC Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-107127-1

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

Lab Sample ID: MB 480-324621/8

Matrix: Water

Analysis Batch: 324621

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			10/10/16 00:22	1
1,1,1-Trichloroethane	ND		1.0		ug/L			10/10/16 00:22	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			10/10/16 00:22	1
1,1,2-Trichloroethane	ND		1.0		ug/L			10/10/16 00:22	1
1,1-Dichloroethane	ND		1.0		ug/L			10/10/16 00:22	1
1,1-Dichloroethene	ND		1.0		ug/L			10/10/16 00:22	1
1,1-Dichloropropene	ND		1.0		ug/L			10/10/16 00:22	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			10/10/16 00:22	1
1,2,3-Trichloropropane	ND		1.0		ug/L			10/10/16 00:22	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			10/10/16 00:22	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			10/10/16 00:22	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			10/10/16 00:22	1
1,2-Dichlorobenzene	ND		1.0		ug/L			10/10/16 00:22	1
1,2-Dichloroethane	ND		1.0		ug/L			10/10/16 00:22	1
1,2-Dichloropropane	ND		1.0		ug/L			10/10/16 00:22	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			10/10/16 00:22	1
1,3-Dichlorobenzene	ND		1.0		ug/L			10/10/16 00:22	1
1,3-Dichloropropane	ND		1.0		ug/L			10/10/16 00:22	1
1,4-Dichlorobenzene	ND		1.0		ug/L			10/10/16 00:22	1
1,4-Dioxane	ND		50		ug/L			10/10/16 00:22	1
2,2-Dichloropropane	ND		1.0		ug/L			10/10/16 00:22	1
2-Butanone (MEK)	ND		10		ug/L			10/10/16 00:22	1
2-Chlorotoluene	ND		1.0		ug/L			10/10/16 00:22	1
2-Hexanone	ND		10		ug/L			10/10/16 00:22	1
4-Chlorotoluene	ND		1.0		ug/L			10/10/16 00:22	1
4-Isopropyltoluene	ND		1.0		ug/L			10/10/16 00:22	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			10/10/16 00:22	1
Acetone	ND		50		ug/L			10/10/16 00:22	1
Benzene	ND		1.0		ug/L			10/10/16 00:22	1
Bromobenzene	ND		1.0		ug/L			10/10/16 00:22	1
Bromoform	ND		1.0		ug/L			10/10/16 00:22	1
Bromomethane	ND		2.0		ug/L			10/10/16 00:22	1
Carbon disulfide	ND		10		ug/L			10/10/16 00:22	1
Carbon tetrachloride	ND		1.0		ug/L			10/10/16 00:22	1
Chlorobenzene	ND		1.0		ug/L			10/10/16 00:22	1
Chlorobromomethane	ND		1.0		ug/L			10/10/16 00:22	1
Chlorodibromomethane	ND		0.50		ug/L			10/10/16 00:22	1
Chloroethane	ND		2.0		ug/L			10/10/16 00:22	1
Chloroform	ND		1.0		ug/L			10/10/16 00:22	1
Chloromethane	ND		2.0		ug/L			10/10/16 00:22	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			10/10/16 00:22	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			10/10/16 00:22	1
Dichlorobromomethane	ND		0.50		ug/L			10/10/16 00:22	1
Dichlorodifluoromethane	ND		1.0		ug/L			10/10/16 00:22	1
Ethyl ether	ND		1.0		ug/L			10/10/16 00:22	1
Ethylbenzene	ND		1.0		ug/L			10/10/16 00:22	1
Ethylene Dibromide	ND		1.0		ug/L			10/10/16 00:22	1
Hexachlorobutadiene	ND		0.40		ug/L			10/10/16 00:22	1

TestAmerica Buffalo

QC Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-107127-1

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

Lab Sample ID: MB 480-324621/8
Matrix: Water
Analysis Batch: 324621

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropyl ether	ND		10		ug/L			10/10/16 00:22	1
Isopropylbenzene	ND		1.0		ug/L			10/10/16 00:22	1
Methyl tert-butyl ether	ND		1.0		ug/L			10/10/16 00:22	1
Methylene Chloride	ND		1.0		ug/L			10/10/16 00:22	1
m-Xylene & p-Xylene	ND		2.0		ug/L			10/10/16 00:22	1
Naphthalene	ND		5.0		ug/L			10/10/16 00:22	1
n-Butylbenzene	ND		1.0		ug/L			10/10/16 00:22	1
N-Propylbenzene	ND		1.0		ug/L			10/10/16 00:22	1
o-Xylene	ND		1.0		ug/L			10/10/16 00:22	1
sec-Butylbenzene	ND		1.0		ug/L			10/10/16 00:22	1
Styrene	ND		1.0		ug/L			10/10/16 00:22	1
Tert-amyl methyl ether	ND		5.0		ug/L			10/10/16 00:22	1
Tert-butyl ethyl ether	ND		5.0		ug/L			10/10/16 00:22	1
tert-Butylbenzene	ND		1.0		ug/L			10/10/16 00:22	1
Tetrachloroethene	ND		1.0		ug/L			10/10/16 00:22	1
Tetrahydrofuran	ND		10		ug/L			10/10/16 00:22	1
Toluene	ND		1.0		ug/L			10/10/16 00:22	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			10/10/16 00:22	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			10/10/16 00:22	1
Trichloroethene	ND		1.0		ug/L			10/10/16 00:22	1
Trichlorofluoromethane	ND		1.0		ug/L			10/10/16 00:22	1
Vinyl chloride	ND		1.0		ug/L			10/10/16 00:22	1
Dibromomethane	ND		1.0		ug/L			10/10/16 00:22	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	88		70 - 130		10/10/16 00:22	1
1,2-Dichloroethane-d4 (Surr)	84		70 - 130		10/10/16 00:22	1
4-Bromofluorobenzene (Surr)	98		70 - 130		10/10/16 00:22	1

Lab Sample ID: LCS 480-324621/5
Matrix: Water
Analysis Batch: 324621

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	25.0	24.9		ug/L		100	70 - 130
1,1,1-Trichloroethane	25.0	24.9		ug/L		100	70 - 130
1,1,2,2-Tetrachloroethane	25.0	21.5		ug/L		86	70 - 130
1,1,2-Trichloroethane	25.0	22.2		ug/L		89	70 - 130
1,1-Dichloroethane	25.0	24.7		ug/L		99	70 - 130
1,1-Dichloroethene	25.0	23.6		ug/L		95	70 - 130
1,1-Dichloropropene	25.0	23.9		ug/L		96	70 - 130
1,2,3-Trichlorobenzene	25.0	21.5		ug/L		86	70 - 130
1,2,3-Trichloropropane	25.0	19.8		ug/L		79	70 - 130
1,2,4-Trichlorobenzene	25.0	22.7		ug/L		91	70 - 130
1,2,4-Trimethylbenzene	25.0	23.9		ug/L		96	70 - 130
1,2-Dibromo-3-Chloropropane	25.0	18.7		ug/L		75	70 - 130
1,2-Dichlorobenzene	25.0	23.0		ug/L		92	70 - 130
1,2-Dichloroethane	25.0	22.1		ug/L		88	70 - 130

TestAmerica Buffalo

QC Sample Results

Client: Innovative Engineering Solutions, Inc
 Project/Site: IDS Wayland

TestAmerica Job ID: 480-107127-1

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

Lab Sample ID: LCS 480-324621/5

Matrix: Water

Analysis Batch: 324621

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichloropropane	25.0	24.4		ug/L		98	70 - 130
1,3,5-Trimethylbenzene	25.0	24.5		ug/L		98	70 - 130
1,3-Dichlorobenzene	25.0	23.9		ug/L		96	70 - 130
1,3-Dichloropropane	25.0	21.0		ug/L		84	70 - 130
1,4-Dichlorobenzene	25.0	24.5		ug/L		98	70 - 130
1,4-Dioxane	500	326 *		ug/L		65	70 - 130
2,2-Dichloropropane	25.0	23.5		ug/L		94	70 - 130
2-Butanone (MEK)	125	110		ug/L		88	70 - 130
2-Chlorotoluene	25.0	23.5		ug/L		94	70 - 130
2-Hexanone	125	105		ug/L		84	70 - 130
4-Chlorotoluene	25.0	25.0		ug/L		100	70 - 130
4-Isopropyltoluene	25.0	24.3		ug/L		97	70 - 130
4-Methyl-2-pentanone (MIBK)	125	96.9		ug/L		78	70 - 130
Acetone	125	126		ug/L		101	70 - 130
Benzene	25.0	24.1		ug/L		97	70 - 130
Bromobenzene	25.0	23.5		ug/L		94	70 - 130
Bromoform	25.0	23.9		ug/L		96	70 - 130
Bromomethane	25.0	25.5		ug/L		102	70 - 130
Carbon disulfide	25.0	23.8		ug/L		95	70 - 130
Carbon tetrachloride	25.0	25.5		ug/L		102	70 - 130
Chlorobenzene	25.0	23.7		ug/L		95	70 - 130
Chlorobromomethane	25.0	24.4		ug/L		98	70 - 130
Chlorodibromomethane	25.0	24.8		ug/L		99	70 - 130
Chloroethane	25.0	25.4		ug/L		102	70 - 130
Chloroform	25.0	23.8		ug/L		95	70 - 130
Chloromethane	25.0	24.6		ug/L		98	70 - 130
cis-1,2-Dichloroethene	25.0	24.9		ug/L		100	70 - 130
cis-1,3-Dichloropropene	25.0	25.1		ug/L		100	70 - 130
Dichlorobromomethane	25.0	24.7		ug/L		99	70 - 130
Dichlorodifluoromethane	25.0	23.2		ug/L		93	70 - 130
Ethyl ether	25.0	22.3		ug/L		89	70 - 130
Ethylbenzene	25.0	23.4		ug/L		94	70 - 130
Ethylene Dibromide	25.0	22.3		ug/L		89	70 - 130
Hexachlorobutadiene	25.0	24.8		ug/L		99	70 - 130
Isopropyl ether	25.0	22.9		ug/L		92	70 - 130
Isopropylbenzene	25.0	23.6		ug/L		94	70 - 130
Methyl tert-butyl ether	25.0	22.0		ug/L		88	70 - 130
Methylene Chloride	25.0	25.2		ug/L		101	70 - 130
m-Xylene & p-Xylene	25.0	23.6		ug/L		94	70 - 130
Naphthalene	25.0	19.8		ug/L		79	70 - 130
n-Butylbenzene	25.0	23.2		ug/L		93	70 - 130
N-Propylbenzene	25.0	23.6		ug/L		94	70 - 130
o-Xylene	25.0	23.7		ug/L		95	70 - 130
sec-Butylbenzene	25.0	23.6		ug/L		94	70 - 130
Styrene	25.0	24.2		ug/L		97	70 - 130
Tert-amyl methyl ether	25.0	22.5		ug/L		90	70 - 130
Tert-butyl ethyl ether	25.0	22.4		ug/L		89	70 - 130
tert-Butylbenzene	25.0	24.4		ug/L		98	70 - 130

TestAmerica Buffalo

QC Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-107127-1

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

Lab Sample ID: LCS 480-324621/5

Matrix: Water

Analysis Batch: 324621

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Tetrachloroethene	25.0	26.7		ug/L		107	70 - 130
Tetrahydrofuran	50.0	54.6		ug/L		109	70 - 130
Toluene	25.0	22.6		ug/L		91	70 - 130
trans-1,2-Dichloroethene	25.0	24.6		ug/L		98	70 - 130
trans-1,3-Dichloropropene	25.0	22.8		ug/L		91	70 - 130
Trichloroethene	25.0	24.9		ug/L		99	70 - 130
Trichlorofluoromethane	25.0	28.0		ug/L		112	70 - 130
Vinyl chloride	25.0	24.9		ug/L		100	70 - 130
Dibromomethane	25.0	23.4		ug/L		93	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Toluene-d8 (Surr)	86		70 - 130
1,2-Dichloroethane-d4 (Surr)	79		70 - 130
4-Bromofluorobenzene (Surr)	103		70 - 130

Lab Sample ID: LCSD 480-324621/6

Matrix: Water

Analysis Batch: 324621

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	25.0	24.0		ug/L		96	70 - 130	4	20
1,1,1-Trichloroethane	25.0	24.5		ug/L		98	70 - 130	2	20
1,1,1,2,2-Tetrachloroethane	25.0	22.5		ug/L		90	70 - 130	5	20
1,1,2-Trichloroethane	25.0	21.9		ug/L		88	70 - 130	1	20
1,1-Dichloroethane	25.0	24.2		ug/L		97	70 - 130	2	20
1,1-Dichloroethene	25.0	23.2		ug/L		93	70 - 130	2	20
1,1-Dichloropropene	25.0	22.9		ug/L		92	70 - 130	4	20
1,2,3-Trichlorobenzene	25.0	21.8		ug/L		87	70 - 130	1	20
1,2,3-Trichloropropane	25.0	21.3		ug/L		85	70 - 130	7	20
1,2,4-Trichlorobenzene	25.0	22.0		ug/L		88	70 - 130	3	20
1,2,4-Trimethylbenzene	25.0	23.8		ug/L		95	70 - 130	1	20
1,2-Dibromo-3-Chloropropane	25.0	21.5		ug/L		86	70 - 130	14	20
1,2-Dichlorobenzene	25.0	23.2		ug/L		93	70 - 130	1	20
1,2-Dichloroethane	25.0	22.5		ug/L		90	70 - 130	2	20
1,2-Dichloropropane	25.0	23.7		ug/L		95	70 - 130	3	20
1,3,5-Trimethylbenzene	25.0	23.8		ug/L		95	70 - 130	3	20
1,3-Dichlorobenzene	25.0	24.0		ug/L		96	70 - 130	1	20
1,3-Dichloropropane	25.0	20.8		ug/L		83	70 - 130	1	20
1,4-Dichlorobenzene	25.0	23.9		ug/L		96	70 - 130	2	20
1,4-Dioxane	500	349		ug/L		70	70 - 130	7	20
2,2-Dichloropropane	25.0	22.7		ug/L		91	70 - 130	3	20
2-Butanone (MEK)	125	105		ug/L		84	70 - 130	4	20
2-Chlorotoluene	25.0	23.0		ug/L		92	70 - 130	2	20
2-Hexanone	125	105		ug/L		84	70 - 130	0	20
4-Chlorotoluene	25.0	24.8		ug/L		99	70 - 130	1	20
4-Isopropyltoluene	25.0	24.1		ug/L		96	70 - 130	1	20
4-Methyl-2-pentanone (MIBK)	125	96.6		ug/L		77	70 - 130	0	20
Acetone	125	127		ug/L		101	70 - 130	0	20

TestAmerica Buffalo

QC Sample Results

Client: Innovative Engineering Solutions, Inc
 Project/Site: IDS Wayland

TestAmerica Job ID: 480-107127-1

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

Lab Sample ID: LCSD 480-324621/6

Client Sample ID: Lab Control Sample Dup

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 324621

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	25.0	23.8		ug/L		95	70 - 130	1	20
Bromobenzene	25.0	23.6		ug/L		94	70 - 130	0	20
Bromoform	25.0	23.5		ug/L		94	70 - 130	2	20
Bromomethane	25.0	25.2		ug/L		101	70 - 130	1	20
Carbon disulfide	25.0	23.3		ug/L		93	70 - 130	2	20
Carbon tetrachloride	25.0	24.3		ug/L		97	70 - 130	5	20
Chlorobenzene	25.0	23.0		ug/L		92	70 - 130	3	20
Chlorobromomethane	25.0	24.8		ug/L		99	70 - 130	1	20
Chlorodibromomethane	25.0	24.0		ug/L		96	70 - 130	3	20
Chloroethane	25.0	26.4		ug/L		106	70 - 130	4	20
Chloroform	25.0	23.3		ug/L		93	70 - 130	2	20
Chloromethane	25.0	23.9		ug/L		95	70 - 130	3	20
cis-1,2-Dichloroethene	25.0	24.4		ug/L		98	70 - 130	2	20
cis-1,3-Dichloropropene	25.0	25.1		ug/L		100	70 - 130	0	20
Dichlorobromomethane	25.0	24.6		ug/L		99	70 - 130	0	20
Dichlorodifluoromethane	25.0	21.8		ug/L		87	70 - 130	6	20
Ethyl ether	25.0	22.1		ug/L		89	70 - 130	1	20
Ethylbenzene	25.0	22.4		ug/L		90	70 - 130	4	20
Ethylene Dibromide	25.0	22.0		ug/L		88	70 - 130	1	20
Hexachlorobutadiene	25.0	24.0		ug/L		96	70 - 130	4	20
Isopropyl ether	25.0	22.9		ug/L		92	70 - 130	0	20
Isopropylbenzene	25.0	23.0		ug/L		92	70 - 130	2	20
Methyl tert-butyl ether	25.0	22.5		ug/L		90	70 - 130	2	20
Methylene Chloride	25.0	25.7		ug/L		103	70 - 130	2	20
m-Xylene & p-Xylene	25.0	22.6		ug/L		90	70 - 130	4	20
Naphthalene	25.0	20.1		ug/L		80	70 - 130	1	20
n-Butylbenzene	25.0	22.7		ug/L		91	70 - 130	2	20
N-Propylbenzene	25.0	23.0		ug/L		92	70 - 130	3	20
o-Xylene	25.0	22.8		ug/L		91	70 - 130	4	20
sec-Butylbenzene	25.0	23.0		ug/L		92	70 - 130	3	20
Styrene	25.0	24.0		ug/L		96	70 - 130	1	20
Tert-amyl methyl ether	25.0	22.5		ug/L		90	70 - 130	0	20
Tert-butyl ethyl ether	25.0	23.4		ug/L		94	70 - 130	5	20
tert-Butylbenzene	25.0	23.4		ug/L		94	70 - 130	4	20
Tetrachloroethene	25.0	24.8		ug/L		99	70 - 130	7	20
Tetrahydrofuran	50.0	52.2		ug/L		104	70 - 130	4	20
Toluene	25.0	21.8		ug/L		87	70 - 130	4	20
trans-1,2-Dichloroethene	25.0	24.3		ug/L		97	70 - 130	1	20
trans-1,3-Dichloropropene	25.0	22.1		ug/L		88	70 - 130	3	20
Trichloroethene	25.0	24.8		ug/L		99	70 - 130	0	20
Trichlorofluoromethane	25.0	27.8		ug/L		111	70 - 130	1	20
Vinyl chloride	25.0	23.6		ug/L		94	70 - 130	6	20
Dibromomethane	25.0	22.7		ug/L		91	70 - 130	3	20

Surrogate	LCSD LCSD		Limits
	%Recovery	Qualifier	
Toluene-d8 (Surr)	84		70 - 130
1,2-Dichloroethane-d4 (Surr)	83		70 - 130
4-Bromofluorobenzene (Surr)	99		70 - 130

TestAmerica Buffalo

QC Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-107127-1

Method: 522 - 1,4 Dioxane (GC/MS SIM)

Lab Sample ID: MB 200-110109/1-A
Matrix: Water
Analysis Batch: 110131

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 110109

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20		ug/L		10/12/16 19:30	10/13/16 12:03	1
Surrogate	%Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	71		70 - 130				10/12/16 19:30	10/13/16 12:03	1

Lab Sample ID: LCS 200-110109/2-A
Matrix: Water
Analysis Batch: 110131

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 110109

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits		
1,4-Dioxane	0.200	0.149	J	ug/L		75	70 - 130		
Surrogate	LCS %Recovery	LCS Qualifier	Limits						
1,4-Dioxane-d8 (Surr)	78		70 - 130						

Method: 6010 - Metals (ICP)

Lab Sample ID: MB 480-324299/1-A
Matrix: Water
Analysis Batch: 324706

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 324299

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		0.050		mg/L		10/07/16 09:30	10/08/16 10:36	1

Lab Sample ID: LCS 480-324299/2-A
Matrix: Water
Analysis Batch: 324706

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 324299

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits		
Iron	10.0	10.6		mg/L		106	80 - 120		

Lab Sample ID: LCSD 480-324299/3-A
Matrix: Water
Analysis Batch: 324706

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 324299

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	Limits	RPD	RPD Limit
Iron	10.0	10.6		mg/L		106	80 - 120	1	20

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 480-324265/30
Matrix: Water
Analysis Batch: 324265

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		0.50		mg/L			10/07/16 10:01	1
Sulfate	ND		2.0		mg/L			10/07/16 10:01	1

TestAmerica Buffalo

QC Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-107127-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 480-324265/4
Matrix: Water
Analysis Batch: 324265

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		0.50		mg/L			10/07/16 06:29	1
Sulfate	ND		2.0		mg/L			10/07/16 06:29	1

Lab Sample ID: LCS 480-324265/29
Matrix: Water
Analysis Batch: 324265

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	50.0	49.2		mg/L		98	90 - 110
Sulfate	50.0	49.2		mg/L		98	90 - 110

Lab Sample ID: LCS 480-324265/3
Matrix: Water
Analysis Batch: 324265

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	50.0	48.5		mg/L		97	90 - 110
Sulfate	50.0	48.6		mg/L		97	90 - 110

Lab Sample ID: 480-107127-5 MS
Matrix: Water
Analysis Batch: 324265

Client Sample ID: REW-10-20161005
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	68		100	162		mg/L		94	81 - 120
Sulfate	26		100	121		mg/L		96	80 - 120

Lab Sample ID: MB 480-324714/30
Matrix: Water
Analysis Batch: 324714

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		0.50		mg/L			10/10/16 15:41	1
Sulfate	ND		2.0		mg/L			10/10/16 15:41	1

Lab Sample ID: MB 480-324714/4
Matrix: Water
Analysis Batch: 324714

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		0.50		mg/L			10/10/16 12:10	1
Sulfate	ND		2.0		mg/L			10/10/16 12:10	1

Lab Sample ID: LCS 480-324714/29
Matrix: Water
Analysis Batch: 324714

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	50.0	50.4		mg/L		101	90 - 110

TestAmerica Buffalo

QC Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-107127-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 480-324714/29
Matrix: Water
Analysis Batch: 324714

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	50.0	49.6		mg/L		99	90 - 110

Lab Sample ID: LCS 480-324714/3
Matrix: Water
Analysis Batch: 324714

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	50.0	50.1		mg/L		100	90 - 110
Sulfate	50.0	50.3		mg/L		101	90 - 110

Lab Sample ID: MB 480-324850/4
Matrix: Water
Analysis Batch: 324850

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		0.50		mg/L			10/11/16 10:32	1
Sulfate	ND		2.0		mg/L			10/11/16 10:32	1

Lab Sample ID: LCS 480-324850/3
Matrix: Water
Analysis Batch: 324850

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	50.0	50.4		mg/L		101	90 - 110
Sulfate	50.0	50.1		mg/L		100	90 - 110

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 480-324600/2-A
Matrix: Water
Analysis Batch: 324604

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 324600

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.20		mg/L		10/09/16 13:43	10/09/16 14:12	1

Lab Sample ID: LCS 480-324600/1-A
Matrix: Water
Analysis Batch: 324604

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 324600

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia	1.00	1.00		mg/L		100	90 - 110

Lab Sample ID: 480-107127-4 MS
Matrix: Water
Analysis Batch: 324604

Client Sample ID: REW-9-20161005
Prep Type: Total/NA
Prep Batch: 324600

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia	0.20		0.500	0.669		mg/L		94	90 - 110

TestAmerica Buffalo

QC Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-107127-1

Method: 350.1 - Nitrogen, Ammonia (Continued)

Lab Sample ID: 480-107127-3 DU
Matrix: Water
Analysis Batch: 324604

Client Sample ID: REW-8-20161005
Prep Type: Total/NA
Prep Batch: 324600

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Ammonia	6.7		7.25		mg/L		8	20

Method: 9040C - pH

Lab Sample ID: 480-107127-3 DU
Matrix: Water
Analysis Batch: 324329

Client Sample ID: REW-8-20161005
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
pH	6.8	HF	6.9		SU		0.1	5

Method: 9060A - Organic Carbon, Total (TOC)

Lab Sample ID: MB 480-324587/28
Matrix: Water
Analysis Batch: 324587

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TOC Result 1	ND		1.0		mg/L			10/08/16 05:08	1
TOC Result 2	ND		1.0		mg/L			10/08/16 05:08	1
Total Organic Carbon - Duplicates	ND		1.0		mg/L			10/08/16 05:08	1

Lab Sample ID: MB 480-324587/4
Matrix: Water
Analysis Batch: 324587

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TOC Result 1	ND		1.0		mg/L			10/07/16 17:53	1
TOC Result 2	ND		1.0		mg/L			10/07/16 17:53	1
Total Organic Carbon - Duplicates	ND		1.0		mg/L			10/07/16 17:53	1

Lab Sample ID: MB 480-324587/52
Matrix: Water
Analysis Batch: 324587

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TOC Result 1	ND		1.0		mg/L			10/08/16 16:20	1
TOC Result 2	ND		1.0		mg/L			10/08/16 16:20	1
Total Organic Carbon - Duplicates	ND		1.0		mg/L			10/08/16 16:20	1

Lab Sample ID: LCS 480-324587/29
Matrix: Water
Analysis Batch: 324587

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
TOC Result 1	60.0	55.5		mg/L		93	90 - 110
TOC Result 2	60.0	58.8		mg/L		98	90 - 110
Total Organic Carbon - Duplicates	60.0	57.1		mg/L		95	90 - 110

TestAmerica Buffalo

QC Sample Results

Client: Innovative Engineering Solutions, Inc
 Project/Site: IDS Wayland

TestAmerica Job ID: 480-107127-1

Lab Sample ID: LCS 480-324587/5
Matrix: Water
Analysis Batch: 324587

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
TOC Result 1	60.0	57.8		mg/L		96	90 - 110
TOC Result 2	60.0	60.9		mg/L		101	90 - 110
Total Organic Carbon - Duplicates	60.0	59.3		mg/L		99	90 - 110

Lab Sample ID: LCS 480-324587/53
Matrix: Water
Analysis Batch: 324587

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
TOC Result 1	60.0	55.6		mg/L		93	90 - 110
TOC Result 2	60.0	59.2		mg/L		99	90 - 110
Total Organic Carbon - Duplicates	60.0	57.4		mg/L		96	90 - 110

Lab Sample ID: 480-107127-2 MS
Matrix: Water
Analysis Batch: 324587

Client Sample ID: REW-7-20161005
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
TOC Result 1	26		20.0	44.8		mg/L		95	54 - 131
TOC Result 2	28		20.0	48.1		mg/L		99	54 - 131
Total Organic Carbon - Duplicates	27		20.0	46.4		mg/L		97	54 - 131

Lab Sample ID: 480-107127-14 MS
Matrix: Water
Analysis Batch: 324587

Client Sample ID: MW-561-20161005
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
TOC Result 1	8.1		20.0	28.4		mg/L		102	54 - 131
TOC Result 2	9.1		20.0	30.3		mg/L		106	54 - 131
Total Organic Carbon - Duplicates	8.6		20.0	29.4		mg/L		104	54 - 131

Lab Sample ID: 480-107127-3 DU
Matrix: Water
Analysis Batch: 324587

Client Sample ID: REW-8-20161005
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
TOC Result 1	13			13.1		mg/L		4	20
TOC Result 2	14			14.3		mg/L		3	20
Total Organic Carbon - Duplicates	13			13.7		mg/L		3	20

Lab Sample ID: 480-107127-5 DU
Matrix: Water
Analysis Batch: 324587

Client Sample ID: REW-10-20161005
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
TOC Result 1	ND			ND		mg/L		NC	20
TOC Result 2	1.1			ND		mg/L		NC	20

TestAmerica Buffalo

QC Sample Results

Client: Innovative Engineering Solutions, Inc
 Project/Site: IDS Wayland

TestAmerica Job ID: 480-107127-1

Method: 9060A - Organic Carbon, Total (TOC) (Continued)

Lab Sample ID: 480-107127-5 DU
Matrix: Water
Analysis Batch: 324587

Client Sample ID: REW-10-20161005
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Total Organic Carbon - Duplicates	ND		ND		mg/L		NC	20

Lab Sample ID: MB 480-325086/28
Matrix: Water
Analysis Batch: 325086

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TOC Result 1	ND		1.0		mg/L			10/11/16 18:37	1
TOC Result 2	ND		1.0		mg/L			10/11/16 18:37	1
Total Organic Carbon - Duplicates	ND		1.0		mg/L			10/11/16 18:37	1

Lab Sample ID: LCS 480-325086/29
Matrix: Water
Analysis Batch: 325086

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
TOC Result 1	60.0	61.0		mg/L		102	90 - 110
TOC Result 2	60.0	60.7		mg/L		101	90 - 110
Total Organic Carbon - Duplicates	60.0	60.8		mg/L		101	90 - 110

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 480-324328/30
Matrix: Water
Analysis Batch: 324328

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND		5.0		mg/L			10/06/16 15:01	1

Lab Sample ID: MB 480-324328/54
Matrix: Water
Analysis Batch: 324328

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND		5.0		mg/L			10/06/16 17:27	1

Lab Sample ID: LCS 480-324328/31
Matrix: Water
Analysis Batch: 324328

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity, Total	100	98.6		mg/L		99	90 - 110

TestAmerica Buffalo

QC Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-107127-1

Method: SM 2320B - Alkalinity (Continued)

Lab Sample ID: LCS 480-324328/55
Matrix: Water
Analysis Batch: 324328

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity, Total	100	99.6		mg/L		100	90 - 110

Method: SM 4500 P E - Orthophosphate

Lab Sample ID: MB 480-324228/3
Matrix: Water
Analysis Batch: 324228

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
ortho-Phosphate	ND		0.020		mg/L			10/06/16 14:30	1

Lab Sample ID: LCS 480-324228/4
Matrix: Water
Analysis Batch: 324228

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
ortho-Phosphate	0.200	0.218		mg/L		109	90 - 110

Lab Sample ID: 480-107127-5 MS
Matrix: Water
Analysis Batch: 324228

Client Sample ID: REW-10-20161005
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
ortho-Phosphate	0.029		1.00	1.04		mg/L		101	49 - 138

Lab Sample ID: 480-107127-5 MSD
Matrix: Water
Analysis Batch: 324228

Client Sample ID: REW-10-20161005
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
ortho-Phosphate	0.029		1.00	1.04		mg/L		101	49 - 138	0	20

QC Association Summary

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-107127-1

GC/MS VOA

Analysis Batch: 324317

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-107127-1	MW-269Ma-20161005	Total/NA	Water	8260C	
480-107127-2	REW-7-20161005	Total/NA	Water	8260C	
480-107127-3	REW-8-20161005	Total/NA	Water	8260C	
480-107127-4	REW-9-20161005	Total/NA	Water	8260C	
480-107127-5	REW-10-20161005	Total/NA	Water	8260C	
480-107127-6	REW-11-20161005	Total/NA	Water	8260C	
480-107127-7	REW-12-20161005	Total/NA	Water	8260C	
480-107127-8	DUP3-20161005	Total/NA	Water	8260C	
480-107127-9	TRIP BLANKS	Total/NA	Water	8260C	
480-107127-10	MW-264M-20161005	Total/NA	Water	8260C	
480-107127-11	MW-266Ma-20161005	Total/NA	Water	8260C	
480-107127-12	MW-266Mb-20161005	Total/NA	Water	8260C	
MB 480-324317/9	Method Blank	Total/NA	Water	8260C	
LCS 480-324317/6	Lab Control Sample	Total/NA	Water	8260C	
LCSD 480-324317/7	Lab Control Sample Dup	Total/NA	Water	8260C	

Analysis Batch: 324456

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-107127-13	MW-560-20161005	Total/NA	Water	8260C	
480-107127-15	MW-563-20161005	Total/NA	Water	8260C	
MB 480-324456/8	Method Blank	Total/NA	Water	8260C	
LCS 480-324456/5	Lab Control Sample	Total/NA	Water	8260C	
LCSD 480-324456/6	Lab Control Sample Dup	Total/NA	Water	8260C	

Analysis Batch: 324621

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-107127-14	MW-561-20161005	Total/NA	Water	8260C	
MB 480-324621/8	Method Blank	Total/NA	Water	8260C	
LCS 480-324621/5	Lab Control Sample	Total/NA	Water	8260C	
LCSD 480-324621/6	Lab Control Sample Dup	Total/NA	Water	8260C	

GC/MS Semi VOA

Prep Batch: 110109

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-107127-1	MW-269Ma-20161005	Total/NA	Water	3535A	
480-107127-11	MW-266Ma-20161005	Total/NA	Water	3535A	
MB 200-110109/1-A	Method Blank	Total/NA	Water	3535A	
LCS 200-110109/2-A	Lab Control Sample	Total/NA	Water	3535A	

Analysis Batch: 110131

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-107127-1	MW-269Ma-20161005	Total/NA	Water	522	110109
480-107127-11	MW-266Ma-20161005	Total/NA	Water	522	110109
MB 200-110109/1-A	Method Blank	Total/NA	Water	522	110109
LCS 200-110109/2-A	Lab Control Sample	Total/NA	Water	522	110109

TestAmerica Buffalo

QC Association Summary

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-107127-1

Metals

Prep Batch: 324299

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-107127-2	REW-7-20161005	Total/NA	Water	3005A	
480-107127-3	REW-8-20161005	Total/NA	Water	3005A	
480-107127-4	REW-9-20161005	Total/NA	Water	3005A	
480-107127-5	REW-10-20161005	Total/NA	Water	3005A	
480-107127-6	REW-11-20161005	Total/NA	Water	3005A	
480-107127-7	REW-12-20161005	Total/NA	Water	3005A	
480-107127-13	MW-560-20161005	Total/NA	Water	3005A	
480-107127-14	MW-561-20161005	Total/NA	Water	3005A	
480-107127-15	MW-563-20161005	Total/NA	Water	3005A	
MB 480-324299/1-A	Method Blank	Total/NA	Water	3005A	
LCS 480-324299/2-A	Lab Control Sample	Total/NA	Water	3005A	
LCSD 480-324299/3-A	Lab Control Sample Dup	Total/NA	Water	3005A	

Analysis Batch: 324706

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-107127-2	REW-7-20161005	Total/NA	Water	6010	324299
480-107127-3	REW-8-20161005	Total/NA	Water	6010	324299
480-107127-4	REW-9-20161005	Total/NA	Water	6010	324299
480-107127-5	REW-10-20161005	Total/NA	Water	6010	324299
480-107127-6	REW-11-20161005	Total/NA	Water	6010	324299
480-107127-7	REW-12-20161005	Total/NA	Water	6010	324299
480-107127-13	MW-560-20161005	Total/NA	Water	6010	324299
480-107127-14	MW-561-20161005	Total/NA	Water	6010	324299
480-107127-15	MW-563-20161005	Total/NA	Water	6010	324299
MB 480-324299/1-A	Method Blank	Total/NA	Water	6010	324299
LCS 480-324299/2-A	Lab Control Sample	Total/NA	Water	6010	324299
LCSD 480-324299/3-A	Lab Control Sample Dup	Total/NA	Water	6010	324299

General Chemistry

Analysis Batch: 324228

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-107127-2	REW-7-20161005	Total/NA	Water	SM 4500 P E	
480-107127-3	REW-8-20161005	Total/NA	Water	SM 4500 P E	
480-107127-4	REW-9-20161005	Total/NA	Water	SM 4500 P E	
480-107127-5	REW-10-20161005	Total/NA	Water	SM 4500 P E	
480-107127-6	REW-11-20161005	Total/NA	Water	SM 4500 P E	
480-107127-7	REW-12-20161005	Total/NA	Water	SM 4500 P E	
480-107127-13	MW-560-20161005	Total/NA	Water	SM 4500 P E	
480-107127-14	MW-561-20161005	Total/NA	Water	SM 4500 P E	
480-107127-15	MW-563-20161005	Total/NA	Water	SM 4500 P E	
MB 480-324228/3	Method Blank	Total/NA	Water	SM 4500 P E	
LCS 480-324228/4	Lab Control Sample	Total/NA	Water	SM 4500 P E	
480-107127-5 MS	REW-10-20161005	Total/NA	Water	SM 4500 P E	
480-107127-5 MSD	REW-10-20161005	Total/NA	Water	SM 4500 P E	

Analysis Batch: 324264

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-107127-2	REW-7-20161005	Total/NA	Water	353.2	
480-107127-3	REW-8-20161005	Total/NA	Water	353.2	

TestAmerica Buffalo

QC Association Summary

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-107127-1

General Chemistry (Continued)

Analysis Batch: 324264 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-107127-4	REW-9-20161005	Total/NA	Water	353.2	
480-107127-5	REW-10-20161005	Total/NA	Water	353.2	
480-107127-6	REW-11-20161005	Total/NA	Water	353.2	
480-107127-7	REW-12-20161005	Total/NA	Water	353.2	
480-107127-13	MW-560-20161005	Total/NA	Water	353.2	
480-107127-14	MW-561-20161005	Total/NA	Water	353.2	
480-107127-15	MW-563-20161005	Total/NA	Water	353.2	

Analysis Batch: 324265

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-107127-2	REW-7-20161005	Total/NA	Water	300.0	
480-107127-3	REW-8-20161005	Total/NA	Water	300.0	
480-107127-4	REW-9-20161005	Total/NA	Water	300.0	
480-107127-5	REW-10-20161005	Total/NA	Water	300.0	
480-107127-6	REW-11-20161005	Total/NA	Water	300.0	
480-107127-7	REW-12-20161005	Total/NA	Water	300.0	
480-107127-13	MW-560-20161005	Total/NA	Water	300.0	
480-107127-14	MW-561-20161005	Total/NA	Water	300.0	
480-107127-15	MW-563-20161005	Total/NA	Water	300.0	
MB 480-324265/30	Method Blank	Total/NA	Water	300.0	
MB 480-324265/4	Method Blank	Total/NA	Water	300.0	
LCS 480-324265/29	Lab Control Sample	Total/NA	Water	300.0	
LCS 480-324265/3	Lab Control Sample	Total/NA	Water	300.0	
480-107127-5 MS	REW-10-20161005	Total/NA	Water	300.0	

Analysis Batch: 324328

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-107127-2	REW-7-20161005	Total/NA	Water	SM 2320B	
480-107127-3	REW-8-20161005	Total/NA	Water	SM 2320B	
480-107127-4	REW-9-20161005	Total/NA	Water	SM 2320B	
480-107127-5	REW-10-20161005	Total/NA	Water	SM 2320B	
480-107127-6	REW-11-20161005	Total/NA	Water	SM 2320B	
480-107127-7	REW-12-20161005	Total/NA	Water	SM 2320B	
480-107127-13	MW-560-20161005	Total/NA	Water	SM 2320B	
480-107127-14	MW-561-20161005	Total/NA	Water	SM 2320B	
480-107127-15	MW-563-20161005	Total/NA	Water	SM 2320B	
MB 480-324328/30	Method Blank	Total/NA	Water	SM 2320B	
MB 480-324328/54	Method Blank	Total/NA	Water	SM 2320B	
LCS 480-324328/31	Lab Control Sample	Total/NA	Water	SM 2320B	
LCS 480-324328/55	Lab Control Sample	Total/NA	Water	SM 2320B	

Analysis Batch: 324329

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-107127-2	REW-7-20161005	Total/NA	Water	9040C	
480-107127-3	REW-8-20161005	Total/NA	Water	9040C	
480-107127-4	REW-9-20161005	Total/NA	Water	9040C	
480-107127-5	REW-10-20161005	Total/NA	Water	9040C	
480-107127-6	REW-11-20161005	Total/NA	Water	9040C	
480-107127-7	REW-12-20161005	Total/NA	Water	9040C	
480-107127-13	MW-560-20161005	Total/NA	Water	9040C	
480-107127-14	MW-561-20161005	Total/NA	Water	9040C	

TestAmerica Buffalo

QC Association Summary

Client: Innovative Engineering Solutions, Inc
 Project/Site: IDS Wayland

TestAmerica Job ID: 480-107127-1

General Chemistry (Continued)

Analysis Batch: 324329 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-107127-15	MW-563-20161005	Total/NA	Water	9040C	
LCS 480-324329/1	Lab Control Sample	Total/NA	Water	9040C	
LCS 480-324329/23	Lab Control Sample	Total/NA	Water	9040C	
480-107127-3 DU	REW-8-20161005	Total/NA	Water	9040C	

Analysis Batch: 324587

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-107127-2	REW-7-20161005	Total/NA	Water	9060A	
480-107127-3	REW-8-20161005	Total/NA	Water	9060A	
480-107127-5	REW-10-20161005	Total/NA	Water	9060A	
480-107127-6	REW-11-20161005	Total/NA	Water	9060A	
480-107127-7	REW-12-20161005	Total/NA	Water	9060A	
480-107127-13	MW-560-20161005	Total/NA	Water	9060A	
480-107127-14	MW-561-20161005	Total/NA	Water	9060A	
MB 480-324587/28	Method Blank	Total/NA	Water	9060A	
MB 480-324587/4	Method Blank	Total/NA	Water	9060A	
MB 480-324587/52	Method Blank	Total/NA	Water	9060A	
LCS 480-324587/29	Lab Control Sample	Total/NA	Water	9060A	
LCS 480-324587/5	Lab Control Sample	Total/NA	Water	9060A	
LCS 480-324587/53	Lab Control Sample	Total/NA	Water	9060A	
480-107127-2 MS	REW-7-20161005	Total/NA	Water	9060A	
480-107127-14 MS	MW-561-20161005	Total/NA	Water	9060A	
480-107127-3 DU	REW-8-20161005	Total/NA	Water	9060A	
480-107127-5 DU	REW-10-20161005	Total/NA	Water	9060A	

Prep Batch: 324600

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-107127-2	REW-7-20161005	Total/NA	Water	Distill/Ammonia	
480-107127-3	REW-8-20161005	Total/NA	Water	Distill/Ammonia	
480-107127-4	REW-9-20161005	Total/NA	Water	Distill/Ammonia	
480-107127-5	REW-10-20161005	Total/NA	Water	Distill/Ammonia	
480-107127-6	REW-11-20161005	Total/NA	Water	Distill/Ammonia	
480-107127-7	REW-12-20161005	Total/NA	Water	Distill/Ammonia	
480-107127-13	MW-560-20161005	Total/NA	Water	Distill/Ammonia	
480-107127-14	MW-561-20161005	Total/NA	Water	Distill/Ammonia	
480-107127-15	MW-563-20161005	Total/NA	Water	Distill/Ammonia	
MB 480-324600/2-A	Method Blank	Total/NA	Water	Distill/Ammonia	
LCS 480-324600/1-A	Lab Control Sample	Total/NA	Water	Distill/Ammonia	
480-107127-4 MS	REW-9-20161005	Total/NA	Water	Distill/Ammonia	
480-107127-3 DU	REW-8-20161005	Total/NA	Water	Distill/Ammonia	

Analysis Batch: 324604

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-107127-2	REW-7-20161005	Total/NA	Water	350.1	324600
480-107127-3	REW-8-20161005	Total/NA	Water	350.1	324600
480-107127-4	REW-9-20161005	Total/NA	Water	350.1	324600
480-107127-5	REW-10-20161005	Total/NA	Water	350.1	324600
480-107127-6	REW-11-20161005	Total/NA	Water	350.1	324600
480-107127-7	REW-12-20161005	Total/NA	Water	350.1	324600
480-107127-13	MW-560-20161005	Total/NA	Water	350.1	324600
480-107127-14	MW-561-20161005	Total/NA	Water	350.1	324600

TestAmerica Buffalo

QC Association Summary

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-107127-1

General Chemistry (Continued)

Analysis Batch: 324604 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-107127-15	MW-563-20161005	Total/NA	Water	350.1	324600
MB 480-324600/2-A	Method Blank	Total/NA	Water	350.1	324600
LCS 480-324600/1-A	Lab Control Sample	Total/NA	Water	350.1	324600
480-107127-4 MS	REW-9-20161005	Total/NA	Water	350.1	324600
480-107127-3 DU	REW-8-20161005	Total/NA	Water	350.1	324600

Analysis Batch: 324714

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-107127-2	REW-7-20161005	Total/NA	Water	300.0	
480-107127-3	REW-8-20161005	Total/NA	Water	300.0	
480-107127-13	MW-560-20161005	Total/NA	Water	300.0	
480-107127-14	MW-561-20161005	Total/NA	Water	300.0	
480-107127-15	MW-563-20161005	Total/NA	Water	300.0	
MB 480-324714/30	Method Blank	Total/NA	Water	300.0	
MB 480-324714/4	Method Blank	Total/NA	Water	300.0	
LCS 480-324714/29	Lab Control Sample	Total/NA	Water	300.0	
LCS 480-324714/3	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 324850

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-107127-4	REW-9-20161005	Total/NA	Water	300.0	
MB 480-324850/4	Method Blank	Total/NA	Water	300.0	
LCS 480-324850/3	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 325086

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-107127-4	REW-9-20161005	Total/NA	Water	9060A	
480-107127-15	MW-563-20161005	Total/NA	Water	9060A	
MB 480-325086/28	Method Blank	Total/NA	Water	9060A	
LCS 480-325086/29	Lab Control Sample	Total/NA	Water	9060A	

Lab Chronicle

Client: Innovative Engineering Solutions, Inc
 Project/Site: IDS Wayland

TestAmerica Job ID: 480-107127-1

Client Sample ID: MW-269Ma-20161005

Lab Sample ID: 480-107127-1

Date Collected: 10/05/16 08:15

Matrix: Water

Date Received: 10/06/16 01:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	324317	10/07/16 14:36	RRS	TAL BUF
Total/NA	Prep	3535A			110109	10/12/16 19:30	BDL	TAL BUR
Total/NA	Analysis	522		1	110131	10/13/16 14:34	TPB	TAL BUR

Client Sample ID: REW-7-20161005

Lab Sample ID: 480-107127-2

Date Collected: 10/05/16 11:20

Matrix: Water

Date Received: 10/06/16 01:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	324317	10/07/16 15:00	RRS	TAL BUF
Total/NA	Prep	3005A			324299	10/07/16 09:30	MVZ	TAL BUF
Total/NA	Analysis	6010		1	324706	10/08/16 11:43	TRB	TAL BUF
Total/NA	Analysis	300.0		5	324265	10/07/16 08:48	CAV	TAL BUF
Total/NA	Analysis	300.0		1	324714	10/10/16 13:56	CAV	TAL BUF
Total/NA	Prep	Distill/Ammonia			324600	10/09/16 13:43	CEA	TAL BUF
Total/NA	Analysis	350.1		1	324604	10/09/16 14:15	CEA	TAL BUF
Total/NA	Analysis	353.2		1	324264	10/06/16 14:28	ELR	TAL BUF
Total/NA	Analysis	9040C		1	324329	10/06/16 18:36	KMF	TAL BUF
Total/NA	Analysis	9060A		1	324587	10/07/16 20:42	EKB	TAL BUF
Total/NA	Analysis	SM 2320B		1	324328	10/06/16 18:45	KMF	TAL BUF
Total/NA	Analysis	SM 4500 P E		1	324228	10/06/16 14:30	LED	TAL BUF

Client Sample ID: REW-8-20161005

Lab Sample ID: 480-107127-3

Date Collected: 10/05/16 10:25

Matrix: Water

Date Received: 10/06/16 01:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	324317	10/07/16 15:24	RRS	TAL BUF
Total/NA	Prep	3005A			324299	10/07/16 09:30	MVZ	TAL BUF
Total/NA	Analysis	6010		1	324706	10/08/16 11:46	TRB	TAL BUF
Total/NA	Analysis	300.0		5	324265	10/07/16 08:56	CAV	TAL BUF
Total/NA	Analysis	300.0		1	324714	10/10/16 14:04	CAV	TAL BUF
Total/NA	Prep	Distill/Ammonia			324600	10/09/16 13:43	CEA	TAL BUF
Total/NA	Analysis	350.1		1	324604	10/09/16 14:16	CEA	TAL BUF
Total/NA	Analysis	353.2		1	324264	10/06/16 14:29	ELR	TAL BUF
Total/NA	Analysis	9040C		1	324329	10/06/16 18:41	KMF	TAL BUF
Total/NA	Analysis	9060A		1	324587	10/07/16 21:38	EKB	TAL BUF
Total/NA	Analysis	SM 2320B		1	324328	10/06/16 19:05	KMF	TAL BUF
Total/NA	Analysis	SM 4500 P E		1	324228	10/06/16 14:30	LED	TAL BUF

Lab Chronicle

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-107127-1

Client Sample ID: REW-9-20161005

Lab Sample ID: 480-107127-4

Date Collected: 10/05/16 09:30

Matrix: Water

Date Received: 10/06/16 01:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	324317	10/07/16 15:48	RRS	TAL BUF
Total/NA	Prep	3005A			324299	10/07/16 09:30	MVZ	TAL BUF
Total/NA	Analysis	6010		1	324706	10/08/16 12:00	TRB	TAL BUF
Total/NA	Analysis	300.0		5	324265	10/07/16 09:04	CAV	TAL BUF
Total/NA	Analysis	300.0		1	324850	10/11/16 11:13	CAV	TAL BUF
Total/NA	Prep	Distill/Ammonia			324600	10/09/16 13:43	CEA	TAL BUF
Total/NA	Analysis	350.1		1	324604	10/09/16 14:18	CEA	TAL BUF
Total/NA	Analysis	353.2		1	324264	10/06/16 14:31	ELR	TAL BUF
Total/NA	Analysis	9040C		1	324329	10/06/16 18:46	KMF	TAL BUF
Total/NA	Analysis	9060A		5	325086	10/12/16 00:41	EKB	TAL BUF
Total/NA	Analysis	SM 2320B		1	324328	10/06/16 19:12	KMF	TAL BUF
Total/NA	Analysis	SM 4500 P E		1	324228	10/06/16 14:30	LED	TAL BUF

Client Sample ID: REW-10-20161005

Lab Sample ID: 480-107127-5

Date Collected: 10/05/16 08:55

Matrix: Water

Date Received: 10/06/16 01:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	324317	10/07/16 16:12	RRS	TAL BUF
Total/NA	Prep	3005A			324299	10/07/16 09:30	MVZ	TAL BUF
Total/NA	Analysis	6010		1	324706	10/08/16 12:04	TRB	TAL BUF
Total/NA	Analysis	300.0		2	324265	10/07/16 09:12	CAV	TAL BUF
Total/NA	Prep	Distill/Ammonia			324600	10/09/16 13:43	CEA	TAL BUF
Total/NA	Analysis	350.1		1	324604	10/09/16 14:21	CEA	TAL BUF
Total/NA	Analysis	353.2		1	324264	10/06/16 14:32	ELR	TAL BUF
Total/NA	Analysis	9040C		1	324329	10/06/16 18:48	KMF	TAL BUF
Total/NA	Analysis	9060A		1	324587	10/08/16 01:22	EKB	TAL BUF
Total/NA	Analysis	SM 2320B		1	324328	10/06/16 19:18	KMF	TAL BUF
Total/NA	Analysis	SM 4500 P E		1	324228	10/06/16 14:30	LED	TAL BUF

Client Sample ID: REW-11-20161005

Lab Sample ID: 480-107127-6

Date Collected: 10/05/16 12:20

Matrix: Water

Date Received: 10/06/16 01:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	324317	10/07/16 16:36	RRS	TAL BUF
Total/NA	Prep	3005A			324299	10/07/16 09:30	MVZ	TAL BUF
Total/NA	Analysis	6010		1	324706	10/08/16 12:07	TRB	TAL BUF
Total/NA	Analysis	300.0		5	324265	10/07/16 10:09	CAV	TAL BUF
Total/NA	Prep	Distill/Ammonia			324600	10/09/16 13:43	CEA	TAL BUF
Total/NA	Analysis	350.1		1	324604	10/09/16 14:22	CEA	TAL BUF

TestAmerica Buffalo

Lab Chronicle

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-107127-1

Client Sample ID: REW-11-20161005

Lab Sample ID: 480-107127-6

Date Collected: 10/05/16 12:20

Matrix: Water

Date Received: 10/06/16 01:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	353.2		1	324264	10/06/16 14:33	ELR	TAL BUF
Total/NA	Analysis	9040C		1	324329	10/06/16 18:51	KMF	TAL BUF
Total/NA	Analysis	9060A		1	324587	10/08/16 02:19	EKB	TAL BUF
Total/NA	Analysis	SM 2320B		1	324328	10/06/16 19:23	KMF	TAL BUF
Total/NA	Analysis	SM 4500 P E		1	324228	10/06/16 14:30	LED	TAL BUF

Client Sample ID: REW-12-20161005

Lab Sample ID: 480-107127-7

Date Collected: 10/05/16 13:10

Matrix: Water

Date Received: 10/06/16 01:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		2	324317	10/07/16 17:00	RRS	TAL BUF
Total/NA	Prep	3005A			324299	10/07/16 09:30	MVZ	TAL BUF
Total/NA	Analysis	6010		1	324706	10/08/16 12:11	TRB	TAL BUF
Total/NA	Analysis	300.0		5	324265	10/07/16 10:17	CAV	TAL BUF
Total/NA	Prep	Distill/Ammonia			324600	10/09/16 13:43	CEA	TAL BUF
Total/NA	Analysis	350.1		1	324604	10/09/16 14:23	CEA	TAL BUF
Total/NA	Analysis	353.2		1	324264	10/06/16 14:37	ELR	TAL BUF
Total/NA	Analysis	9040C		1	324329	10/06/16 18:54	KMF	TAL BUF
Total/NA	Analysis	9060A		1	324587	10/08/16 02:47	EKB	TAL BUF
Total/NA	Analysis	SM 2320B		1	324328	10/06/16 19:30	KMF	TAL BUF
Total/NA	Analysis	SM 4500 P E		1	324228	10/06/16 14:30	LED	TAL BUF

Client Sample ID: DUP3-20161005

Lab Sample ID: 480-107127-8

Date Collected: 10/05/16 00:00

Matrix: Water

Date Received: 10/06/16 01:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	324317	10/07/16 17:24	RRS	TAL BUF

Client Sample ID: TRIP BLANKS

Lab Sample ID: 480-107127-9

Date Collected: 10/05/16 00:00

Matrix: Water

Date Received: 10/06/16 01:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	324317	10/07/16 17:47	RRS	TAL BUF

Lab Chronicle

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-107127-1

Client Sample ID: MW-264M-20161005

Lab Sample ID: 480-107127-10

Date Collected: 10/05/16 11:15

Matrix: Water

Date Received: 10/06/16 01:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	324317	10/07/16 18:11	RRS	TAL BUF

Client Sample ID: MW-266Ma-20161005

Lab Sample ID: 480-107127-11

Date Collected: 10/05/16 10:25

Matrix: Water

Date Received: 10/06/16 01:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	324317	10/07/16 18:35	RRS	TAL BUF
Total/NA	Prep	3535A			110109	10/12/16 19:30	BDL	TAL BUR
Total/NA	Analysis	522		1	110131	10/13/16 14:52	TPB	TAL BUR

Client Sample ID: MW-266Mb-20161005

Lab Sample ID: 480-107127-12

Date Collected: 10/05/16 09:40

Matrix: Water

Date Received: 10/06/16 01:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	324317	10/07/16 18:59	RRS	TAL BUF

Client Sample ID: MW-560-20161005

Lab Sample ID: 480-107127-13

Date Collected: 10/05/16 13:00

Matrix: Water

Date Received: 10/06/16 01:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	324456	10/08/16 02:01	JWG	TAL BUF
Total/NA	Prep	3005A			324299	10/07/16 09:30	MVZ	TAL BUF
Total/NA	Analysis	6010		1	324706	10/08/16 12:14	TRB	TAL BUF
Total/NA	Analysis	300.0		5	324265	10/07/16 10:25	CAV	TAL BUF
Total/NA	Analysis	300.0		1	324714	10/10/16 14:12	CAV	TAL BUF
Total/NA	Prep	Distill/Ammonia			324600	10/09/16 13:43	CEA	TAL BUF
Total/NA	Analysis	350.1		1	324604	10/09/16 14:24	CEA	TAL BUF
Total/NA	Analysis	353.2		1	324264	10/06/16 14:38	ELR	TAL BUF
Total/NA	Analysis	9040C		1	324329	10/06/16 18:57	KMF	TAL BUF
Total/NA	Analysis	9060A		1	324587	10/08/16 03:43	EKB	TAL BUF
Total/NA	Analysis	SM 2320B		1	324328	10/06/16 19:38	KMF	TAL BUF
Total/NA	Analysis	SM 4500 P E		1	324228	10/06/16 14:30	LED	TAL BUF

Client Sample ID: MW-561-20161005

Lab Sample ID: 480-107127-14

Date Collected: 10/05/16 12:00

Matrix: Water

Date Received: 10/06/16 01:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	324621	10/10/16 00:47	JWG	TAL BUF

TestAmerica Buffalo

Lab Chronicle

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-107127-1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3005A			324299	10/07/16 09:30	MVZ	TAL BUF
Total/NA	Analysis	6010		1	324706	10/08/16 12:18	TRB	TAL BUF
Total/NA	Analysis	300.0		5	324265	10/07/16 10:33	CAV	TAL BUF
Total/NA	Analysis	300.0		1	324714	10/10/16 14:20	CAV	TAL BUF
Total/NA	Prep	Distill/Ammonia			324600	10/09/16 13:43	CEA	TAL BUF
Total/NA	Analysis	350.1		5	324604	10/09/16 14:33	CEA	TAL BUF
Total/NA	Analysis	353.2		1	324264	10/06/16 14:40	ELR	TAL BUF
Total/NA	Analysis	9040C		1	324329	10/06/16 18:59	KMF	TAL BUF
Total/NA	Analysis	9060A		1	324587	10/08/16 06:03	EKB	TAL BUF
Total/NA	Analysis	SM 2320B		1	324328	10/06/16 19:46	KMF	TAL BUF
Total/NA	Analysis	SM 4500 P E		1	324228	10/06/16 14:30	LED	TAL BUF

Client Sample ID: MW-563-20161005

Lab Sample ID: 480-107127-15

Date Collected: 10/05/16 13:55

Matrix: Water

Date Received: 10/06/16 01:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	324456	10/08/16 02:49	JWG	TAL BUF
Total/NA	Prep	3005A			324299	10/07/16 09:30	MVZ	TAL BUF
Total/NA	Analysis	6010		1	324706	10/08/16 12:22	TRB	TAL BUF
Total/NA	Analysis	300.0		5	324265	10/07/16 10:42	CAV	TAL BUF
Total/NA	Analysis	300.0		1	324714	10/10/16 14:28	CAV	TAL BUF
Total/NA	Prep	Distill/Ammonia			324600	10/09/16 13:43	CEA	TAL BUF
Total/NA	Analysis	350.1		1	324604	10/09/16 14:25	CEA	TAL BUF
Total/NA	Analysis	353.2		1	324264	10/06/16 14:41	ELR	TAL BUF
Total/NA	Analysis	9040C		1	324329	10/06/16 19:02	KMF	TAL BUF
Total/NA	Analysis	9060A		1	325086	10/12/16 01:09	EKB	TAL BUF
Total/NA	Analysis	SM 2320B		1	324328	10/06/16 19:52	KMF	TAL BUF
Total/NA	Analysis	SM 4500 P E		1	324228	10/06/16 14:30	LED	TAL BUF

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

TAL BUR = TestAmerica Burlington, 30 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

Certification Summary

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-107127-1

Laboratory: TestAmerica Buffalo

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Arkansas DEQ	State Program	6	88-0686	07-06-17
California	State Program	9	1169CA	09-30-17
Connecticut	State Program	1	PH-0568	09-30-18
Florida	NELAP	4	E87672	06-30-17
Georgia	State Program	4	N/A	03-31-17
Georgia	State Program	4	956	03-31-17
Illinois	NELAP	5	200003	09-30-16 *
Iowa	State Program	7	374	03-01-17
Kansas	NELAP	7	E-10187	10-31-16
Kentucky (DW)	State Program	4	90029	12-31-16
Kentucky (UST)	State Program	4	30	03-31-17
Kentucky (WW)	State Program	4	90029	12-31-16
Louisiana	NELAP	6	02031	06-30-17
Maine	State Program	1	NY00044	12-04-16
Maryland	State Program	3	294	03-31-17
Massachusetts	State Program	1	M-NY044	06-30-17
Michigan	State Program	5	9937	03-31-17
Minnesota	NELAP	5	036-999-337	12-31-16
New Hampshire	NELAP Primary AB	1	2973	09-11-17
New Hampshire	NELAP Secondary AB	1	2337	11-17-16
New Jersey	NELAP	2	NY455	06-30-17
New York	NELAP	2	10026	03-31-17
North Dakota	State Program	8	R-176	03-31-17
Oklahoma	State Program	6	9421	08-31-17
Oregon	NELAP	10	NY200003	06-09-17
Pennsylvania	NELAP	3	68-00281	07-31-17
Rhode Island	State Program	1	LAO00328	12-30-16
Tennessee	State Program	4	TN02970	03-31-17
Texas	NELAP	6	T104704412-15-6	07-31-17
USDA	Federal		P330-11-00386	11-26-17
Virginia	NELAP	3	460185	09-14-17
Washington	State Program	10	C784	02-10-17
West Virginia DEP	State Program	3	252	09-30-16 *
Wisconsin	State Program	5	998310390	08-31-17

Laboratory: TestAmerica Burlington

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-0751	09-30-17
DE Haz. Subst. Cleanup Act (HSCA)	State Program	3	NA	02-02-17
Florida	NELAP	4	E87467	06-30-17
L-A-B	DoD ELAP		L2336	02-26-17
Maine	State Program	1	VT00008	04-17-17
Minnesota	NELAP	5	050-999-436	12-31-16
New Hampshire	NELAP	1	2006	12-18-16
New Jersey	NELAP	2	VT972	06-30-17
New York	NELAP	2	10391	04-01-17
Pennsylvania	NELAP	3	68-00489	04-30-17
Rhode Island	State Program	1	LAO00298	12-30-16

* Certification renewal pending - certification considered valid.

TestAmerica Buffalo

Certification Summary

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-107127-1

Laboratory: TestAmerica Burlington (Continued)

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

Authority	Program	EPA Region	Certification ID	Expiration Date
US Fish & Wildlife	Federal		LE-058448-0	10-31-16
USDA	Federal		P330-11-00093	10-28-16
Vermont	State Program	1	VT-4000	12-31-16
Virginia	NELAP	3	460209	12-14-16

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

Method Summary

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-107127-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds (GC/MS)	MA DEP	TAL BUF
522	1,4 Dioxane (GC/MS SIM)	EPA	TAL BUR
6010	Metals (ICP)	SW846	TAL BUF
300.0	Anions, Ion Chromatography	MCAWW	TAL BUF
350.1	Nitrogen, Ammonia	MCAWW	TAL BUF
353.2	Nitrate	EPA	TAL BUF
9040C	pH	SW846	TAL BUF
9060A	Organic Carbon, Total (TOC)	SW846	TAL BUF
SM 2320B	Alkalinity	SM	TAL BUF
SM 4500 P E	Orthophosphate	SM	TAL BUF

Protocol References:

EPA = US Environmental Protection Agency

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.

SM = "Standard Methods For The Examination Of Water And Wastewater",

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

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

TAL BUR = TestAmerica Burlington, 30 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

Sample Summary

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-107127-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-107127-1	MW-269Ma-20161005	Water	10/05/16 08:15	10/06/16 01:45
480-107127-2	REW-7-20161005	Water	10/05/16 11:20	10/06/16 01:45
480-107127-3	REW-8-20161005	Water	10/05/16 10:25	10/06/16 01:45
480-107127-4	REW-9-20161005	Water	10/05/16 09:30	10/06/16 01:45
480-107127-5	REW-10-20161005	Water	10/05/16 08:55	10/06/16 01:45
480-107127-6	REW-11-20161005	Water	10/05/16 12:20	10/06/16 01:45
480-107127-7	REW-12-20161005	Water	10/05/16 13:10	10/06/16 01:45
480-107127-8	DUP3-20161005	Water	10/05/16 00:00	10/06/16 01:45
480-107127-9	TRIP BLANKS	Water	10/05/16 00:00	10/06/16 01:45
480-107127-10	MW-264M-20161005	Water	10/05/16 11:15	10/06/16 01:45
480-107127-11	MW-266Ma-20161005	Water	10/05/16 10:25	10/06/16 01:45
480-107127-12	MW-266Mb-20161005	Water	10/05/16 09:40	10/06/16 01:45
480-107127-13	MW-560-20161005	Water	10/05/16 13:00	10/06/16 01:45
480-107127-14	MW-561-20161005	Water	10/05/16 12:00	10/06/16 01:45
480-107127-15	MW-563-20161005	Water	10/05/16 13:55	10/06/16 01:45

Login Sample Receipt Checklist

Client: Innovative Engineering Solutions, Inc

Job Number: 480-107127-1

Login Number: 107127

List Number: 1

Creator: Williams, Christopher S

List Source: TestAmerica Buffalo

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
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 (Excluding tests with immediate HTs)..	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	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	IESI
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

Login Sample Receipt Checklist

Client: Innovative Engineering Solutions, Inc

Job Number: 480-107127-1

Login Number: 107127

List Number: 2

Creator: Lavigne, Scott M

List Source: TestAmerica Burlington

List Creation: 10/06/16 01:13 PM

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	True	Seal present with no number.
Sample custody seals, if present, are 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	5.2°C, 2.2°C, 2.4°C
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 containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	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.	N/A	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica Westfield
501 Southampton Road
Westfield MA 01085
Phone: (413) 572-4000 Fax: (303) 467-7247

TestAmerica Boston
240 Bear Hill Road -- Suite 104
Waltham MA 02451
Phone: (781) 466-6900 Fax: (781) 466-6901

360325-Boston
Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information: Client Contact: <u>Viki Pease</u> Company: <u>Summerville Engineers Solutions</u> Address: <u>25 Spring St</u> City: <u>Worcester</u> State and Zip: <u>MA 02081</u> Client's Phone: <u>508-668-0033</u> Client's Contact Email: <u>v.pease@summerville.com</u> Client's Project Name/Number: <u>Reserve - Westland RA003</u> Sample Collection Site Name & Location: <u>Westland MA</u>		Client Information: Sample Collector's Name (Please Print Neatly): <u>Danny Sato</u> Sample Collector's Phone: <u>508-2104-3191</u>		Lab PM: Lab COC Barcode Label COC No: <u>37051</u> Page: <u>1</u> of <u>2</u> Job #:	
Due Date Requested: <u>JUN 10 11 2011</u> Turnaround Time (TAT) Requested (business days): <u>5 days</u>		Analysis Req			
Quote # or Project #:	PO #: <u>RA-008</u>	Preservation Codes			
WO #:	PWS ID #:	A	D	N	V
Sample Collection Date (MM/DD/YYYY)	Sample Collection Time (24 Hour Clock)	Sample Type: C=Comp G=Grab	Matrix Type **	Total Number of Containers (enter total for each line)	
<u>10/5/11</u>	<u>0815</u>	<u>C</u>	<u>W</u>	<u>5</u>	
<u>10/5/11</u>	<u>1130</u>	<u>C</u>	<u>W</u>	<u>9</u>	
<u>10/5/11</u>	<u>1025</u>	<u>C</u>	<u>W</u>	<u>9</u>	
<u>10/5/11</u>	<u>0930</u>	<u>C</u>	<u>W</u>	<u>9</u>	
<u>10/5/11</u>	<u>0855</u>	<u>C</u>	<u>W</u>	<u>9</u>	
<u>10/5/11</u>	<u>1330</u>	<u>C</u>	<u>W</u>	<u>9</u>	
<u>10/5/11</u>	<u>1310</u>	<u>C</u>	<u>W</u>	<u>9</u>	
<u>10/5/11</u>	<u>-</u>	<u>G</u>	<u>W</u>	<u>3</u>	
<u>-</u>	<u>-</u>	<u>-</u>	<u>W</u>	<u>2</u>	
Sample Identification		Special Instructions & Notes:			
<u>MW - 26g meq - 20161005</u>		SUBCONTRACT POLICY: advance to permit Test-America to use certified, unless you provide instructions to the contrary, or subcontract labs, without specify which sub-contract labs are or are not to be made by us, as necessary to fulfill your work order.			
<u>RES-7 - 20161005</u>					
<u>RES-8 - 20161005</u>					
<u>RES-9 - 20161005</u>					
<u>RES-10 - 20161005</u>					
<u>RES-11 - 20161005</u>					
<u>RES-12 - 20161005</u>					
<u>Dup 3 - 20161005</u>					
<u>Trap Blocks</u>					
Possible Hazard Identification (please check off each that may apply): <input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological <input type="checkbox"/> Matrix Types: A=Air S=Solid/Soil W=Water O=Oil X=Waste (non-water) Z=Other:					
Relinquished by: <u>Danny Sato</u>		Received by: <u>[Signature]</u>		Company: <u>3553</u>	
Relinquished by: <u>[Signature]</u>		Received by: <u>[Signature]</u>		Company: <u>[Signature]</u>	
Relinquished by: <u>[Signature]</u>		Received by: <u>[Signature]</u>		Company: <u>[Signature]</u>	
Custody Seals Intact: A Yes <input type="checkbox"/> No <input type="checkbox"/>		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:	
				<u>1.1.16 #1</u>	

TestAmerica Boston
240 Bear Hill Road - Suite 104
Waltham MA 02451
Phone: (781) 466-6900 Fax: (781) 466-6901

TestAmerica Westfield
501 Southampton Road
Westfield MA 01085
Phone: (413) 572-4000 Fax: (303) 467-7247

Chain of Custody Record

Client Information: Client Contact: <u>Vicki Peninger</u> Company: <u>INNOVATIVE ENGINEERS SOLUTIONS INC</u> Address: <u>23 Spring St</u> City: <u>Waldpole</u> State and Zip: <u>MA 02081</u> Client's Phone: <u>508-668-0033</u> Client's Contact Email: <u>V.Peninger@InnovativeEng.com</u> Client's Project Name/Number: <u>Realford - Wayland RA-008</u> Sample Collection Site Name & Location: <u>Wayland MA</u>		Lab P/W: _____ Lab COC Barcode Label: _____ E-Mail: _____		COC No: <u>37053</u> Page: <u>2</u> of <u>2</u> Job #: _____	
Due Date Requested: <u>10/12/16</u> Turnaround Time (TAT) Requested (business days): <u>5 days</u>		Analysis Requested:			
Quote # or Project #: _____ PO #: <u>RA-008</u> WO #: _____ PWS ID #: _____		Preservation Codes:			
Sample Identification		Sample Collection Date (MM/DD/YY)		Sample Collection Time (24 Hour Clock)	
Sample Type: C-Comp G-Grab		Sample Matrix Type **		Total Number of Containers (enter total for each line)	
mw-24M - 20161005 mw-24M - 20161005 mw-24M - 20161005 mw-560 - 20161005 mw-561 - 20161005 mw-562 - 20161005		10/15/16 1115 10/15/16 1025 10/15/16 0940 10/15/16 1300 10/15/16 1200 10/15/16 1355		3 3 3 9 9 9	
Possible Hazard Identification (please check off each that may apply): <input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological					
** Matrix Types: A=Air S=Solid/Soil W=Water O=Oil X=Waste (non-water) Z=Other: _____					
Relinquished by: _____ Date/Time: <u>10/13/16 1450</u>		Received by: _____ Date/Time: <u>10-15-16 1100</u>			
Relinquished by: _____ Date/Time: <u>10-15-16 1400</u>		Received by: _____ Date/Time: <u>10-6-16 0145</u>			
Relinquished by: _____ Date/Time: _____		Received by: _____ Date/Time: _____			
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.: <u>1.1.16 #1</u>			

TestAmerica Westfield
 501 Southampton Road
 Westfield MA 01085
 Phone: (413) 572-4000 Fax: (303) 467-7247

TestAmerica Boston
 240 Bear Hill Road -- Suite 104
 Waltham MA 02451
 Phone: (781) 466-6900 Fax: (781) 466-6901

360325-Boston

TestAmerica
 THE LEADER IN ENVIRONMENTAL TESTING

Chain of Custody Record

Client Information:
 Client Contact: Viki Pennington
 Company: Environmental Engineers Solutions
 Address: 23 Spring St
 City: Worcester
 State and Zip: MA 02081
 Client's Phone: 508-668-0033
 Client's Contact Email: v.pennington@estonline.com
 Client's Project Name/Number: Remediation - Weymouth RA008
 Sample Collection Site Name & Location: Weymouth MA

Sample Identification

Sample Collection Date (MM/DD/YY)	Sample Collection Time (24 Hour Clock)	Sample Type: C=Comp G=Grab	Matrix Type **	Analysis Requested	Total Number of Containers (enter total for each line)	Special Instructions & Notes:
10/15/16	0815	G	W	8220 MCP	1	
10/15/16	1120	G	W	6060 MCP	1	
10/15/16	1025	G	W	4500 MCP	1	
10/15/16	0930	G	W	4500 MCP	1	
10/15/16	0855	G	W	4500 MCP	1	
10/15/16	1820	G	W	4500 MCP	1	
10/15/16	1310	G	W	4500 MCP	1	
10/15/16	-	G	W	4500 MCP	1	
-	-	-	W	4500 MCP	1	

Possible Hazard Identification (please check off each that may apply):
 Non-Hazard Flammable Skin Irritant Poison B Unknown Radiological
**** Matrix Types:** A=Air S=Solid/Soil W=Water O=Oil X=Waste (non-water) Z=Other:

Relinquished by: [Signature] Date/Time: 10/15/16 1450 Company: JESE
 Relinquished by: [Signature] Date/Time: 10/15/16 1801 Company: [Signature]

Received by: [Signature] Date/Time: 10/15/16 Company: [Signature]
 Received by: [Signature] Date/Time: 10/16/16 1030 Company: [Signature]
 Received by: [Signature] Date/Time: 10/16/16 1030 Company: [Signature]

Custody Seal No.: [Signature] Cooler Temperature(s) °C and Other Remarks:

Lab Information:
 Lab POC: [Signature] Lab COC Barcode Label: 37051
 E-Mail: [Signature] Job #: 1 of 2

Preservation Codes:
 A - Hydrochloric Acid J - Deionized Water
 B - Sodium Hydroxide M - Hexane
 C - Zinc Acetate N - No Preservative
 D - Nitric Acid P - Sodium Sulfate
 E - Sodium Bisulfite Q - Sodium Sulfite
 F - Methanol R - Sodium Thiosulfate
 H - Ascorbic Acid S - Sulfuric Acid
 Z - other (specify)

Regulatory Programs:
 MCP GW/IS1
 RCP CT RSR
 DEP Form EDD Required
 aDEP Filing NPDES

SUBCONTRACT POLICY:
 Unless you provide instructions to the contrary, or specify which sub-contract labs are or are not to be used, you agree in advance to permit TestAmerica to use certified, subcontract labs, without any additional notification made by us, as necessary to fulfill your work order.

Special Instructions & Notes:
 522-1-4 DoDanne
 To Burlington

480-107127 Chain of Custody

Sample Disposal Require:
 Return To Client Disposal By Lab Archive For WILMURS

NOTE!! ALL SAMPLES MUST BE TRANSPORTED IN A COOLER, ON ICE !!



TestAmerica Westfield
 501 Southampton Road
 Westfield MA 01085
 Phone: (413) 572-4000 Fax: (303) 467-7247

TestAmerica Boston
 240 Bear Hill Road -- Suite 104
 Waltham MA 02451
 Phone: (781) 466-6900 Fax: (781) 466-6901

Chain of Custody Record

TestAmerica
 THE LEADER IN ENVIRONMENTAL TESTING

Client Information:
 Client Contact: *Vicki Peirano*
 Company: *INNOVATIVE ENGINEERING SOLUTIONS INC*
 Address: *23 Spring St Waltham MA 02081*
 City: *Waltham*
 State and Zip: *MA 02081*
 Client's Phone: *508-668-0033*
 Client's Contact Email: *v.peirano@innovativeeng.com*
 Client's Project Name/Number: *Remediation - Waltham RA-008*
 Sample Collection Site Name & Location: *Waltham MA*

Sample Identification

Sample ID #	Sample Collection Date (MM/DD/YY)	Sample Collection Time (24 Hour Clock)	Sample Type: C=Comp G=Grab	Matrix Type **
mw-244M - 20161005	10/15/16	1115	C	W
mw-244M - 20161005	10/15/16	1025	C	W
mw-244M - 20161005	10/15/16	0940	C	W
mw-260 - 20161005	10/15/16	1300	C	W
mw-261 - 20161005	10/15/16	1200	C	W
mw-262 - 20161005	10/15/16	1355	C	W

Analysis Requested

Due Date Requested: *10/12/16*
 Turnaround Time (TAT) Requested (business days): *5 days*
 Quote # or Project #: *RA-008*
 PO #: *RA-008*
 WO #: *RA-008*
 PWS ID #:

Sample Disposal Requirements (A fee may be assessed if samples are retained longer than 1 month):
 Return To Client Disposal By Lab Archive For _____ Months

NOTE!! ALL SAMPLES MUST BE TRANSPORTED IN A COOLER, ON ICE !!

Received by: *[Signature]* Date/Time: *10/15/16 1450*
 Received by: *[Signature]* Date/Time: *10/16/16 1030*
 Received by: *[Signature]* Date/Time: *10/16/16 1030*

Custody Seals Intact: Yes No
 Cooler Temperature(s) °C and Other Remarks:



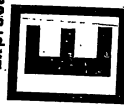
ORIGIN ID:BXCA (781) 466-6900
PAUL HOBART
TESTAMERICA
240 BEAR HILL ROAD
SUITE 104
MALTHAM, MA 02451
UNITED STATES US

SHIP DATE: 05OCT16
ACTWGT: 52.9 LB
CAD: 590887/CAFE2912

BILL RECIPIENT

TO SAMPLE RECEIVING
TESTAMERICA BURLINGTON
30 COMMUNITY DRIVE
SUITE 11
SOUTH BURLINGTON VT 05403
(802) 660-1980
REF: 1901
DEPT: 201

FedEx
Express

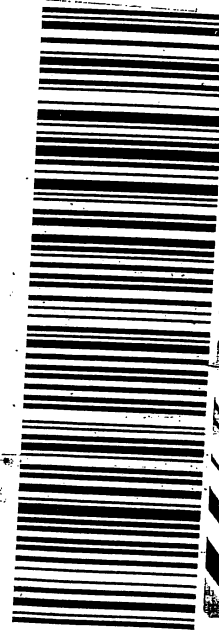


THU - 06 OCT 10:30A
PRIORITY OVERNIGHT

1 of 3
TRK# 4258 8390 8167
0201
MASTER

NC BTVA

05403
VT-US BTV



ORIGIN ID:BXCA (781) 466-6900
PAUL HOBART
TESTAMERICA
240 BEAR HILL ROAD
SUITE 104
MALTHAM, MA 02451
UNITED STATES US

SHIP DATE: 05OCT16
ACTWGT: 50.5 LB
CAD: 590887/CAFE2912

BILL RECIPIENT

TO SAMPLE RECEIVING
TESTAMERICA BURLINGTON
30 COMMUNITY DRIVE
SUITE 11
SOUTH BURLINGTON VT 05403
(802) 660-1980
REF: 1901
DEPT: 201

FedEx
Express



THU - 06 OCT 10:30A
PRIORITY OVERNIGHT

2 of 3
MPS# 4258 8390 8178
0263
Met# 4258 8390 8167

NC BTVA

05403
VT-US BTV



- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15

SVC: PRIORITY OVERNIGHT

INSTRUMENT NO. 0000 0100

ORIGIN ID: BXCA (781) 466-6900
 PAUL HOBART
 TESTAMERICA
 240 BEAR HILL ROAD
 SUITE 104
 WALTHAM, MA 02451
 UNITED STATES US

SHIP DATE: 05OCT16
 ACTWGT: 46.2 LB
 CAD: 590687/CAFE2912

BILL RECIPIENT

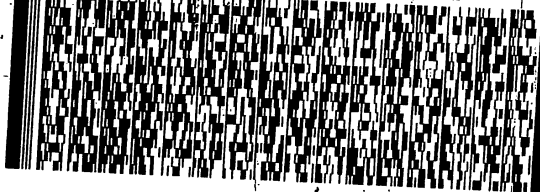
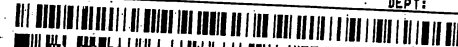
TO **SAMPLE RECEIVING**
TESTAMERICA BURLINGTON
30 COMMUNITY DRIVE
SUITE 11
SOUTH BURLINGTON VT 05403

(802) 680-1980

REF:

INU:

DEPT:



FedEx
Express



15151508130110V

3 of 3

MPS# 0263 **4258 8390 8189**

Mstr# 4258 8390 8167

0201

THU - 06 OCT 10:30A
PRIORITY OVERNIGHT

NC BTVA

05403
VT-US **BTV**



Part # 156146V-434 RIT2 02/17

538CL/ES2E/4389



ANALYTICAL REPORT

Lab Number:	L1631730
Client:	Innovative Engineering Solutions, Inc. 25 Spring Street Walpole, MA 02081
ATTN:	Vicki Pariyar
Phone:	(508) 668-0033
Project Name:	RAYTHEON-WAYLAND
Project Number:	RA-008
Report Date:	10/13/16

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: NY (11627), CT (PH-0141), NH (2206), NJ NELAP (MA015), RI (LAO00299), ME (MA00030), PA (68-02089), VA (460194), LA NELAP (03090), FL (E87814), TX (T104704419), WA (C954), USFWS (Permit #LE2069641), USDA (Permit #P330-11-00109), US Army Corps of Engineers.

320 Forbes Boulevard, Mansfield, MA 02048-1806
508-822-9300 (Fax) 508-822-3288 800-624-9220 - www.alphalab.com



Project Name: RAYTHEON-WAYLAND

Project Number: RA-008

Lab Number: L1631730

Report Date: 10/13/16

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1631730-01	MW-261S-20161003	WATER	WAYLAND, MA	10/03/16 08:15	10/05/16
L1631730-02	MW-265M-20161003	WATER	WAYLAND, MA	10/03/16 12:05	10/05/16
L1631730-03	MW-267S-20161004	WATER	WAYLAND, MA	10/04/16 13:30	10/05/16
L1631730-04	MW-268S-20161004	WATER	WAYLAND, MA	10/04/16 11:35	10/05/16
L1631730-05	MW-268M-20161004	WATER	WAYLAND, MA	10/04/16 12:20	10/05/16
L1631730-06	MW-552-20161003	WATER	WAYLAND, MA	10/03/16 08:55	10/05/16
L1631730-07	MW-553-20161003	WATER	WAYLAND, MA	10/03/16 09:50	10/05/16
L1631730-08	MW-560-20161005	WATER	WAYLAND, MA	10/05/16 13:00	10/05/16
L1631730-09	MW-561-20161005	WATER	WAYLAND, MA	10/05/16 12:00	10/05/16
L1631730-10	MW-562-20161003	WATER	WAYLAND, MA	10/03/16 10:45	10/05/16
L1631730-11	MW-563-20161005	WATER	WAYLAND, MA	10/05/16 08:35	10/05/16
L1631730-12	REW-1-20161004	WATER	WAYLAND, MA	10/04/16 08:35	10/05/16
L1631730-13	REW-4-20161004	WATER	WAYLAND, MA	10/04/16 09:20	10/05/16
L1631730-14	REW-5-20161004	WATER	WAYLAND, MA	10/04/16 10:05	10/05/16
L1631730-15	REW-7-20161005	WATER	WAYLAND, MA	10/05/16 11:20	10/05/16
L1631730-16	REW-8-20161005	WATER	WAYLAND, MA	10/05/16 10:25	10/05/16
L1631730-17	REW-9-20161005	WATER	WAYLAND, MA	10/05/16 09:30	10/05/16
L1631730-18	REW-10-20161005	WATER	WAYLAND, MA	10/05/16 08:55	10/05/16
L1631730-19	REW-11-20161005	WATER	WAYLAND, MA	10/05/16 12:20	10/05/16
L1631730-20	REW-12-20161005	WATER	WAYLAND, MA	10/05/16 13:10	10/05/16

Project Name: RAYTHEON-WAYLAND
Project Number: RA-008

Lab Number: L1631730
Report Date: 10/13/16

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 NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. 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: RAYTHEON-WAYLAND
Project Number: RA-008

Lab Number: L1631730
Report Date: 10/13/16

Case Narrative (continued)

Dissolved Gases

L1631730-1 through -20: The samples were re-analyzed on dilution in order to quantify the results within the calibration range. The results should be considered estimated, and are qualified with an E flag, for any compounds that exceeded the calibration range in the initial analysis. The re-analysis was performed only for the compound that exceeded the calibration range.

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:



Elizabeth Porta

Title: Technical Director/Representative

Date: 10/13/16

ORGANICS

VOLATILES

Project Name: RAYTHEON-WAYLAND
Project Number: RA-008

Lab Number: L1631730
Report Date: 10/13/16

SAMPLE RESULTS

Lab ID: L1631730-01
 Client ID: MW-261S-20161003
 Sample Location: WAYLAND, MA
 Matrix: Water
 Analytical Method: 117,-
 Analytical Date: 10/10/16 12:19
 Analyst: LB

Date Collected: 10/03/16 08:15
 Date Received: 10/05/16
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Dissolved Gases by GC - Mansfield Lab							
Methane	19400	E	ug/l	0.500	--	1	A
Ethene	5.37		ug/l	0.500	--	1	A
Ethane	23.4		ug/l	0.500	--	1	A

Project Name: RAYTHEON-WAYLAND
Project Number: RA-008

Lab Number: L1631730
Report Date: 10/13/16

SAMPLE RESULTS

Lab ID: L1631730-01 D
 Client ID: MW-261S-20161003
 Sample Location: WAYLAND, MA
 Matrix: Water
 Analytical Method: 117,-
 Analytical Date: 10/10/16 18:42
 Analyst: LB

Date Collected: 10/03/16 08:15
 Date Received: 10/05/16
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Dissolved Gases by GC - Mansfield Lab							
Methane	16900		ug/l	2.50	--	5	A

Project Name: RAYTHEON-WAYLAND
Project Number: RA-008

Lab Number: L1631730
Report Date: 10/13/16

SAMPLE RESULTS

Lab ID: L1631730-02
 Client ID: MW-265M-20161003
 Sample Location: WAYLAND, MA
 Matrix: Water
 Analytical Method: 117,-
 Analytical Date: 10/10/16 12:33
 Analyst: LB

Date Collected: 10/03/16 12:05
 Date Received: 10/05/16
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Dissolved Gases by GC - Mansfield Lab							
Methane	11500	E	ug/l	0.500	--	1	A
Ethene	0.670		ug/l	0.500	--	1	A
Ethane	0.874		ug/l	0.500	--	1	A

Project Name: RAYTHEON-WAYLAND
Project Number: RA-008

Lab Number: L1631730
Report Date: 10/13/16

SAMPLE RESULTS

Lab ID: L1631730-02 D
 Client ID: MW-265M-20161003
 Sample Location: WAYLAND, MA
 Matrix: Water
 Analytical Method: 117,-
 Analytical Date: 10/10/16 17:41
 Analyst: LB

Date Collected: 10/03/16 12:05
 Date Received: 10/05/16
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Dissolved Gases by GC - Mansfield Lab							
Methane	9770		ug/l	1.00	--	2	A

Project Name: RAYTHEON-WAYLAND
Project Number: RA-008

Lab Number: L1631730
Report Date: 10/13/16

SAMPLE RESULTS

Lab ID: L1631730-03
 Client ID: MW-267S-20161004
 Sample Location: WAYLAND, MA
 Matrix: Water
 Analytical Method: 117,-
 Analytical Date: 10/10/16 12:48
 Analyst: LB

Date Collected: 10/04/16 13:30
 Date Received: 10/05/16
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Dissolved Gases by GC - Mansfield Lab							
Methane	16700	E	ug/l	0.500	--	1	A
Ethene	1.52		ug/l	0.500	--	1	A
Ethane	0.659		ug/l	0.500	--	1	A

Project Name: RAYTHEON-WAYLAND
Project Number: RA-008

Lab Number: L1631730
Report Date: 10/13/16

SAMPLE RESULTS

Lab ID: L1631730-03 D
 Client ID: MW-267S-20161004
 Sample Location: WAYLAND, MA
 Matrix: Water
 Analytical Method: 117,-
 Analytical Date: 10/10/16 18:56
 Analyst: LB

Date Collected: 10/04/16 13:30
 Date Received: 10/05/16
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Dissolved Gases by GC - Mansfield Lab							
Methane	15000		ug/l	2.50	--	5	A

Project Name: RAYTHEON-WAYLAND
Project Number: RA-008

Lab Number: L1631730
Report Date: 10/13/16

SAMPLE RESULTS

Lab ID: L1631730-04
 Client ID: MW-268S-20161004
 Sample Location: WAYLAND, MA
 Matrix: Water
 Analytical Method: 117,-
 Analytical Date: 10/10/16 13:32
 Analyst: LB

Date Collected: 10/04/16 11:35
 Date Received: 10/05/16
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Dissolved Gases by GC - Mansfield Lab							
Methane	12000	E	ug/l	0.500	--	1	A
Ethene	1.13		ug/l	0.500	--	1	A
Ethane	2.51		ug/l	0.500	--	1	A

Project Name: RAYTHEON-WAYLAND
Project Number: RA-008

Lab Number: L1631730
Report Date: 10/13/16

SAMPLE RESULTS

Lab ID: L1631730-04 D
 Client ID: MW-268S-20161004
 Sample Location: WAYLAND, MA
 Matrix: Water
 Analytical Method: 117,-
 Analytical Date: 10/10/16 17:56
 Analyst: LB

Date Collected: 10/04/16 11:35
 Date Received: 10/05/16
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Dissolved Gases by GC - Mansfield Lab							
Methane	12400		ug/l	1.00	--	2	A

Project Name: RAYTHEON-WAYLAND
Project Number: RA-008

Lab Number: L1631730
Report Date: 10/13/16

SAMPLE RESULTS

Lab ID: L1631730-05
 Client ID: MW-268M-20161004
 Sample Location: WAYLAND, MA
 Matrix: Water
 Analytical Method: 117,-
 Analytical Date: 10/10/16 13:46
 Analyst: LB

Date Collected: 10/04/16 12:20
 Date Received: 10/05/16
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Dissolved Gases by GC - Mansfield Lab							
Methane	24500	E	ug/l	0.500	--	1	A
Ethene	6.71		ug/l	0.500	--	1	A
Ethane	8.54		ug/l	0.500	--	1	A

Project Name: RAYTHEON-WAYLAND**Lab Number:** L1631730**Project Number:** RA-008**Report Date:** 10/13/16**SAMPLE RESULTS**

Lab ID: L1631730-05 D

Date Collected: 10/04/16 12:20

Client ID: MW-268M-20161004

Date Received: 10/05/16

Sample Location: WAYLAND, MA

Field Prep: Not Specified

Matrix: Water

Analytical Method: 117,-

Analytical Date: 10/10/16 19:11

Analyst: LB

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Dissolved Gases by GC - Mansfield Lab							
Methane	19100		ug/l	2.50	--	5	A

Project Name: RAYTHEON-WAYLAND
Project Number: RA-008

Lab Number: L1631730
Report Date: 10/13/16

SAMPLE RESULTS

Lab ID: L1631730-06
 Client ID: MW-552-20161003
 Sample Location: WAYLAND, MA
 Matrix: Water
 Analytical Method: 117,-
 Analytical Date: 10/10/16 14:01
 Analyst: LB

Date Collected: 10/03/16 08:55
 Date Received: 10/05/16
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Dissolved Gases by GC - Mansfield Lab							
Methane	20300	E	ug/l	0.500	--	1	A
Ethene	5.71		ug/l	0.500	--	1	A
Ethane	34.6		ug/l	0.500	--	1	A

Project Name: RAYTHEON-WAYLAND
Project Number: RA-008

Lab Number: L1631730
Report Date: 10/13/16

SAMPLE RESULTS

Lab ID: L1631730-06 D
 Client ID: MW-552-20161003
 Sample Location: WAYLAND, MA
 Matrix: Water
 Analytical Method: 117,-
 Analytical Date: 10/10/16 19:25
 Analyst: LB

Date Collected: 10/03/16 08:55
 Date Received: 10/05/16
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Dissolved Gases by GC - Mansfield Lab							
Methane	17400		ug/l	2.50	--	5	A

Project Name: RAYTHEON-WAYLAND
Project Number: RA-008

Lab Number: L1631730
Report Date: 10/13/16

SAMPLE RESULTS

Lab ID: L1631730-07
 Client ID: MW-553-20161003
 Sample Location: WAYLAND, MA
 Matrix: Water
 Analytical Method: 117,-
 Analytical Date: 10/10/16 14:16
 Analyst: LB

Date Collected: 10/03/16 09:50
 Date Received: 10/05/16
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Dissolved Gases by GC - Mansfield Lab							
Methane	15700	E	ug/l	0.500	--	1	A
Ethene	6.04		ug/l	0.500	--	1	A
Ethane	2.82		ug/l	0.500	--	1	A

Project Name: RAYTHEON-WAYLAND**Lab Number:** L1631730**Project Number:** RA-008**Report Date:** 10/13/16**SAMPLE RESULTS**

Lab ID: L1631730-07 D

Date Collected: 10/03/16 09:50

Client ID: MW-553-20161003

Date Received: 10/05/16

Sample Location: WAYLAND, MA

Field Prep: Not Specified

Matrix: Water

Analytical Method: 117,-

Analytical Date: 10/10/16 18:10

Analyst: LB

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Dissolved Gases by GC - Mansfield Lab							
Methane	13800		ug/l	1.00	--	2	A

Project Name: RAYTHEON-WAYLAND
Project Number: RA-008

Lab Number: L1631730
Report Date: 10/13/16

SAMPLE RESULTS

Lab ID: L1631730-08
 Client ID: MW-560-20161005
 Sample Location: WAYLAND, MA
 Matrix: Water
 Analytical Method: 117,-
 Analytical Date: 10/10/16 14:30
 Analyst: LB

Date Collected: 10/05/16 13:00
 Date Received: 10/05/16
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Dissolved Gases by GC - Mansfield Lab							
Methane	13300	E	ug/l	0.500	--	1	A
Ethene	ND		ug/l	0.500	--	1	A
Ethane	1.24		ug/l	0.500	--	1	A

Project Name: RAYTHEON-WAYLAND
Project Number: RA-008

Lab Number: L1631730
Report Date: 10/13/16

SAMPLE RESULTS

Lab ID: L1631730-08 D
 Client ID: MW-560-20161005
 Sample Location: WAYLAND, MA
 Matrix: Water
 Analytical Method: 117,-
 Analytical Date: 10/10/16 18:25
 Analyst: LB

Date Collected: 10/05/16 13:00
 Date Received: 10/05/16
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Dissolved Gases by GC - Mansfield Lab							
Methane	11800		ug/l	1.00	--	2	A

Project Name: RAYTHEON-WAYLAND
Project Number: RA-008

Lab Number: L1631730
Report Date: 10/13/16

SAMPLE RESULTS

Lab ID: L1631730-09
 Client ID: MW-561-20161005
 Sample Location: WAYLAND, MA
 Matrix: Water
 Analytical Method: 117,-
 Analytical Date: 10/10/16 14:45
 Analyst: LB

Date Collected: 10/05/16 12:00
 Date Received: 10/05/16
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Dissolved Gases by GC - Mansfield Lab							
Methane	29600	E	ug/l	0.500	--	1	A
Ethene	ND		ug/l	0.500	--	1	A
Ethane	27.8		ug/l	0.500	--	1	A

Project Name: RAYTHEON-WAYLAND
Project Number: RA-008

Lab Number: L1631730
Report Date: 10/13/16

SAMPLE RESULTS

Lab ID: L1631730-09 D
 Client ID: MW-561-20161005
 Sample Location: WAYLAND, MA
 Matrix: Water
 Analytical Method: 117,-
 Analytical Date: 10/10/16 19:40
 Analyst: LB

Date Collected: 10/05/16 12:00
 Date Received: 10/05/16
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Dissolved Gases by GC - Mansfield Lab							
Methane	24400		ug/l	2.50	--	5	A

Project Name: RAYTHEON-WAYLAND
Project Number: RA-008

Lab Number: L1631730
Report Date: 10/13/16

SAMPLE RESULTS

Lab ID: L1631730-10
 Client ID: MW-562-20161003
 Sample Location: WAYLAND, MA
 Matrix: Water
 Analytical Method: 117,-
 Analytical Date: 10/10/16 14:59
 Analyst: LB

Date Collected: 10/03/16 10:45
 Date Received: 10/05/16
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Dissolved Gases by GC - Mansfield Lab							
Methane	19100	E	ug/l	0.500	--	1	A
Ethene	ND		ug/l	0.500	--	1	A
Ethane	2.37		ug/l	0.500	--	1	A

Project Name: RAYTHEON-WAYLAND
Project Number: RA-008

Lab Number: L1631730
Report Date: 10/13/16

SAMPLE RESULTS

Lab ID: L1631730-10 D
 Client ID: MW-562-20161003
 Sample Location: WAYLAND, MA
 Matrix: Water
 Analytical Method: 117,-
 Analytical Date: 10/10/16 19:54
 Analyst: LB

Date Collected: 10/03/16 10:45
 Date Received: 10/05/16
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Dissolved Gases by GC - Mansfield Lab							
Methane	15900		ug/l	2.50	--	5	A

Project Name: RAYTHEON-WAYLAND
Project Number: RA-008

Lab Number: L1631730
Report Date: 10/13/16

SAMPLE RESULTS

Lab ID: L1631730-11
 Client ID: MW-563-20161005
 Sample Location: WAYLAND, MA
 Matrix: Water
 Analytical Method: 117,-
 Analytical Date: 10/11/16 14:06
 Analyst: MR

Date Collected: 10/05/16 08:35
 Date Received: 10/05/16
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Dissolved Gases by GC - Mansfield Lab							
Methane	28500	E	ug/l	0.500	--	1	A
Ethene	ND		ug/l	0.500	--	1	A
Ethane	7.64		ug/l	0.500	--	1	A

Project Name: RAYTHEON-WAYLAND**Lab Number:** L1631730**Project Number:** RA-008**Report Date:** 10/13/16**SAMPLE RESULTS**

Lab ID: L1631730-11 D

Date Collected: 10/05/16 08:35

Client ID: MW-563-20161005

Date Received: 10/05/16

Sample Location: WAYLAND, MA

Field Prep: Not Specified

Matrix: Water

Analytical Method: 117,-

Analytical Date: 10/11/16 18:14

Analyst: MR

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Dissolved Gases by GC - Mansfield Lab							
Methane	24900		ug/l	2.50	--	5	A

Project Name: RAYTHEON-WAYLAND
Project Number: RA-008

Lab Number: L1631730
Report Date: 10/13/16

SAMPLE RESULTS

Lab ID: L1631730-12
 Client ID: REW-1-20161004
 Sample Location: WAYLAND, MA
 Matrix: Water
 Analytical Method: 117,-
 Analytical Date: 10/11/16 14:20
 Analyst: MR

Date Collected: 10/04/16 08:35
 Date Received: 10/05/16
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Dissolved Gases by GC - Mansfield Lab							
Methane	23400	E	ug/l	0.500	--	1	A
Ethene	ND		ug/l	0.500	--	1	A
Ethane	3.37		ug/l	0.500	--	1	A

Project Name: RAYTHEON-WAYLAND**Lab Number:** L1631730**Project Number:** RA-008**Report Date:** 10/13/16**SAMPLE RESULTS**

Lab ID: L1631730-12 D

Date Collected: 10/04/16 08:35

Client ID: REW-1-20161004

Date Received: 10/05/16

Sample Location: WAYLAND, MA

Field Prep: Not Specified

Matrix: Water

Analytical Method: 117,-

Analytical Date: 10/11/16 18:28

Analyst: MR

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Dissolved Gases by GC - Mansfield Lab							
Methane	18100		ug/l	2.50	--	5	A

Project Name: RAYTHEON-WAYLAND
Project Number: RA-008

Lab Number: L1631730
Report Date: 10/13/16

SAMPLE RESULTS

Lab ID: L1631730-13
 Client ID: REW-4-20161004
 Sample Location: WAYLAND, MA
 Matrix: Water
 Analytical Method: 117,-
 Analytical Date: 10/11/16 14:35
 Analyst: MR

Date Collected: 10/04/16 09:20
 Date Received: 10/05/16
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Dissolved Gases by GC - Mansfield Lab							
Methane	19500	E	ug/l	0.500	--	1	A
Ethene	ND		ug/l	0.500	--	1	A
Ethane	9.00		ug/l	0.500	--	1	A

Project Name: RAYTHEON-WAYLAND**Lab Number:** L1631730**Project Number:** RA-008**Report Date:** 10/13/16**SAMPLE RESULTS**

Lab ID: L1631730-13 D

Date Collected: 10/04/16 09:20

Client ID: REW-4-20161004

Date Received: 10/05/16

Sample Location: WAYLAND, MA

Field Prep: Not Specified

Matrix: Water

Analytical Method: 117,-

Analytical Date: 10/11/16 18:43

Analyst: MR

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Dissolved Gases by GC - Mansfield Lab							
Methane	19400		ug/l	2.50	--	5	A

Project Name: RAYTHEON-WAYLAND
Project Number: RA-008

Lab Number: L1631730
Report Date: 10/13/16

SAMPLE RESULTS

Lab ID: L1631730-14
 Client ID: REW-5-20161004
 Sample Location: WAYLAND, MA
 Matrix: Water
 Analytical Method: 117,-
 Analytical Date: 10/11/16 14:52
 Analyst: MR

Date Collected: 10/04/16 10:05
 Date Received: 10/05/16
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Dissolved Gases by GC - Mansfield Lab							
Methane	19100	E	ug/l	0.500	--	1	A
Ethene	ND		ug/l	0.500	--	1	A
Ethane	2.25		ug/l	0.500	--	1	A

Project Name: RAYTHEON-WAYLAND
Project Number: RA-008

Lab Number: L1631730
Report Date: 10/13/16

SAMPLE RESULTS

Lab ID: L1631730-14 D
 Client ID: REW-5-20161004
 Sample Location: WAYLAND, MA
 Matrix: Water
 Analytical Method: 117,-
 Analytical Date: 10/11/16 18:57
 Analyst: MR

Date Collected: 10/04/16 10:05
 Date Received: 10/05/16
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Dissolved Gases by GC - Mansfield Lab							
Methane	18100		ug/l	2.50	--	5	A

Project Name: RAYTHEON-WAYLAND
Project Number: RA-008

Lab Number: L1631730
Report Date: 10/13/16

SAMPLE RESULTS

Lab ID: L1631730-15
 Client ID: REW-7-20161005
 Sample Location: WAYLAND, MA
 Matrix: Water
 Analytical Method: 117,-
 Analytical Date: 10/11/16 15:10
 Analyst: MR

Date Collected: 10/05/16 11:20
 Date Received: 10/05/16
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Dissolved Gases by GC - Mansfield Lab							
Methane	18500	E	ug/l	0.500	--	1	A
Ethene	5.39		ug/l	0.500	--	1	A
Ethane	9.98		ug/l	0.500	--	1	A

Project Name: RAYTHEON-WAYLAND**Lab Number:** L1631730**Project Number:** RA-008**Report Date:** 10/13/16**SAMPLE RESULTS**

Lab ID: L1631730-15 D

Date Collected: 10/05/16 11:20

Client ID: REW-7-20161005

Date Received: 10/05/16

Sample Location: WAYLAND, MA

Field Prep: Not Specified

Matrix: Water

Analytical Method: 117,-

Analytical Date: 10/11/16 19:11

Analyst: MR

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Dissolved Gases by GC - Mansfield Lab							
Methane	18300		ug/l	2.50	--	5	A

Project Name: RAYTHEON-WAYLAND
Project Number: RA-008

Lab Number: L1631730
Report Date: 10/13/16

SAMPLE RESULTS

Lab ID: L1631730-16
 Client ID: REW-8-20161005
 Sample Location: WAYLAND, MA
 Matrix: Water
 Analytical Method: 117,-
 Analytical Date: 10/11/16 15:24
 Analyst: MR

Date Collected: 10/05/16 10:25
 Date Received: 10/05/16
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Dissolved Gases by GC - Mansfield Lab							
Methane	21200	E	ug/l	0.500	--	1	A
Ethene	ND		ug/l	0.500	--	1	A
Ethane	2.21		ug/l	0.500	--	1	A

Project Name: RAYTHEON-WAYLAND**Lab Number:** L1631730**Project Number:** RA-008**Report Date:** 10/13/16**SAMPLE RESULTS**

Lab ID: L1631730-16 D
Client ID: REW-8-20161005
Sample Location: WAYLAND, MA
Matrix: Water
Analytical Method: 117,-
Analytical Date: 10/11/16 19:26
Analyst: MR

Date Collected: 10/05/16 10:25
Date Received: 10/05/16
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Dissolved Gases by GC - Mansfield Lab							
Methane	16900		ug/l	2.50	--	5	A

Project Name: RAYTHEON-WAYLAND
Project Number: RA-008

Lab Number: L1631730
Report Date: 10/13/16

SAMPLE RESULTS

Lab ID: L1631730-17
 Client ID: REW-9-20161005
 Sample Location: WAYLAND, MA
 Matrix: Water
 Analytical Method: 117,-
 Analytical Date: 10/11/16 15:39
 Analyst: MR

Date Collected: 10/05/16 09:30
 Date Received: 10/05/16
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Dissolved Gases by GC - Mansfield Lab							
Methane	33000	E	ug/l	0.500	--	1	A
Ethene	2.34		ug/l	0.500	--	1	A
Ethane	2.63		ug/l	0.500	--	1	A

Project Name: RAYTHEON-WAYLAND
Project Number: RA-008

Lab Number: L1631730
Report Date: 10/13/16

SAMPLE RESULTS

Lab ID: L1631730-17 D
 Client ID: REW-9-20161005
 Sample Location: WAYLAND, MA
 Matrix: Water
 Analytical Method: 117,-
 Analytical Date: 10/11/16 20:12
 Analyst: MR

Date Collected: 10/05/16 09:30
 Date Received: 10/05/16
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Dissolved Gases by GC - Mansfield Lab							
Methane	29600		ug/l	5.00	--	10	A

Project Name: RAYTHEON-WAYLAND
Project Number: RA-008

Lab Number: L1631730
Report Date: 10/13/16

SAMPLE RESULTS

Lab ID: L1631730-18
 Client ID: REW-10-20161005
 Sample Location: WAYLAND, MA
 Matrix: Water
 Analytical Method: 117,-
 Analytical Date: 10/11/16 15:53
 Analyst: MR

Date Collected: 10/05/16 08:55
 Date Received: 10/05/16
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Dissolved Gases by GC - Mansfield Lab							
Methane	15500	E	ug/l	0.500	--	1	A
Ethene	ND		ug/l	0.500	--	1	A
Ethane	1.74		ug/l	0.500	--	1	A

Project Name: RAYTHEON-WAYLAND
Project Number: RA-008

Lab Number: L1631730
Report Date: 10/13/16

SAMPLE RESULTS

Lab ID: L1631730-18 D
 Client ID: REW-10-20161005
 Sample Location: WAYLAND, MA
 Matrix: Water
 Analytical Method: 117,-
 Analytical Date: 10/11/16 19:40
 Analyst: MR

Date Collected: 10/05/16 08:55
 Date Received: 10/05/16
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Dissolved Gases by GC - Mansfield Lab							
Methane	13100		ug/l	2.50	--	5	A

Project Name: RAYTHEON-WAYLAND
Project Number: RA-008

Lab Number: L1631730
Report Date: 10/13/16

SAMPLE RESULTS

Lab ID: L1631730-19
 Client ID: REW-11-20161005
 Sample Location: WAYLAND, MA
 Matrix: Water
 Analytical Method: 117,-
 Analytical Date: 10/11/16 16:08
 Analyst: MR

Date Collected: 10/05/16 12:20
 Date Received: 10/05/16
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Dissolved Gases by GC - Mansfield Lab							
Methane	22800	E	ug/l	0.500	--	1	A
Ethene	6.68		ug/l	0.500	--	1	A
Ethane	10.1		ug/l	0.500	--	1	A

Project Name: RAYTHEON-WAYLAND
Project Number: RA-008

Lab Number: L1631730
Report Date: 10/13/16

SAMPLE RESULTS

Lab ID: L1631730-19 D
 Client ID: REW-11-20161005
 Sample Location: WAYLAND, MA
 Matrix: Water
 Analytical Method: 117,-
 Analytical Date: 10/11/16 19:55
 Analyst: MR

Date Collected: 10/05/16 12:20
 Date Received: 10/05/16
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Dissolved Gases by GC - Mansfield Lab							
Methane	19900		ug/l	2.50	--	5	A

Project Name: RAYTHEON-WAYLAND
Project Number: RA-008

Lab Number: L1631730
Report Date: 10/13/16

SAMPLE RESULTS

Lab ID: L1631730-20
 Client ID: REW-12-20161005
 Sample Location: WAYLAND, MA
 Matrix: Water
 Analytical Method: 117,-
 Analytical Date: 10/11/16 16:22
 Analyst: MR

Date Collected: 10/05/16 13:10
 Date Received: 10/05/16
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Dissolved Gases by GC - Mansfield Lab							
Methane	33000	E	ug/l	0.500	--	1	A
Ethene	16.8		ug/l	0.500	--	1	A
Ethane	17.4		ug/l	0.500	--	1	A

Project Name: RAYTHEON-WAYLAND
Project Number: RA-008

Lab Number: L1631730
Report Date: 10/13/16

SAMPLE RESULTS

Lab ID: L1631730-20 D
 Client ID: REW-12-20161005
 Sample Location: WAYLAND, MA
 Matrix: Water
 Analytical Method: 117,-
 Analytical Date: 10/11/16 20:26
 Analyst: MR

Date Collected: 10/05/16 13:10
 Date Received: 10/05/16
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Dissolved Gases by GC - Mansfield Lab							
Methane	26200		ug/l	5.00	--	10	A

Project Name: RAYTHEON-WAYLAND

Lab Number: L1631730

Project Number: RA-008

Report Date: 10/13/16

Method Blank Analysis
Batch Quality Control

Analytical Method: 117,-
 Analytical Date: 10/10/16 11:50
 Analyst: LB

Parameter	Result	Qualifier	Units	RL	MDL
Dissolved Gases by GC - Mansfield Lab for sample(s): 01-10 Batch: WG940544-3					
Methane	ND		ug/l	0.500	-- A
Ethene	ND		ug/l	0.500	-- A
Ethane	ND		ug/l	0.500	-- A

Project Name: RAYTHEON-WAYLAND

Lab Number: L1631730

Project Number: RA-008

Report Date: 10/13/16

Method Blank Analysis
Batch Quality Control

Analytical Method: 117,-
 Analytical Date: 10/11/16 12:50
 Analyst: MR

Parameter	Result	Qualifier	Units	RL	MDL
Dissolved Gases by GC - Mansfield Lab for sample(s): 11-20 Batch: WG941006-3					
Methane	ND		ug/l	0.500	-- A
Ethene	ND		ug/l	0.500	-- A
Ethane	ND		ug/l	0.500	-- A

Lab Control Sample Analysis

Batch Quality Control

Project Name: RAYTHEON-WAYLAND

Lab Number: L1631730

Project Number: RA-008

Report Date: 10/13/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Dissolved Gases by GC - Mansfield Lab Associated sample(s): 01-10 Batch: WG940544-2									
Methane	111		-		80-120	-		25	A
Ethene	111		-		80-120	-		25	A
Ethane	113		-		80-120	-		25	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: RAYTHEON-WAYLAND

Project Number: RA-008

Lab Number: L1631730

Report Date: 10/13/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Dissolved Gases by GC - Mansfield Lab Associated sample(s): 11-20 Batch: WG941006-2									
Methane	109		-		80-120	-		25	A
Ethene	106		-		80-120	-		25	A
Ethane	107		-		80-120	-		25	A

Project Name: RAYTHEON-WAYLAND

Lab Number: L1631730

Project Number: RA-008

Report Date: 10/13/16

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(*)
L1631730-01A	20ml Vial HCl preserved	A	N/A	3.2	Y	Absent	DISSGAS(14)
L1631730-01B	20ml Vial HCl preserved	A	N/A	3.2	Y	Absent	DISSGAS(14)
L1631730-02A	20ml Vial HCl preserved	A	N/A	3.2	Y	Absent	DISSGAS(14)
L1631730-02B	20ml Vial HCl preserved	A	N/A	3.2	Y	Absent	DISSGAS(14)
L1631730-03A	20ml Vial HCl preserved	A	N/A	3.2	Y	Absent	DISSGAS(14)
L1631730-03B	20ml Vial HCl preserved	A	N/A	3.2	Y	Absent	DISSGAS(14)
L1631730-04A	20ml Vial HCl preserved	A	N/A	3.2	Y	Absent	DISSGAS(14)
L1631730-04B	20ml Vial HCl preserved	A	N/A	3.2	Y	Absent	DISSGAS(14)
L1631730-05A	20ml Vial HCl preserved	A	N/A	3.2	Y	Absent	DISSGAS(14)
L1631730-05B	20ml Vial HCl preserved	A	N/A	3.2	Y	Absent	DISSGAS(14)
L1631730-06A	20ml Vial HCl preserved	A	N/A	3.2	Y	Absent	DISSGAS(14)
L1631730-06B	20ml Vial HCl preserved	A	N/A	3.2	Y	Absent	DISSGAS(14)
L1631730-07A	20ml Vial HCl preserved	A	N/A	3.2	Y	Absent	DISSGAS(14)
L1631730-07B	20ml Vial HCl preserved	A	N/A	3.2	Y	Absent	DISSGAS(14)
L1631730-08A	20ml Vial HCl preserved	A	N/A	3.2	Y	Absent	DISSGAS(14)
L1631730-08B	20ml Vial HCl preserved	A	N/A	3.2	Y	Absent	DISSGAS(14)
L1631730-09A	20ml Vial HCl preserved	A	N/A	3.2	Y	Absent	DISSGAS(14)
L1631730-09B	20ml Vial HCl preserved	A	N/A	3.2	Y	Absent	DISSGAS(14)
L1631730-10A	20ml Vial HCl preserved	A	N/A	3.2	Y	Absent	DISSGAS(14)
L1631730-10B	20ml Vial HCl preserved	A	N/A	3.2	Y	Absent	DISSGAS(14)
L1631730-11A	20ml Vial HCl preserved	A	N/A	3.2	Y	Absent	DISSGAS(14)
L1631730-11B	20ml Vial HCl preserved	A	N/A	3.2	Y	Absent	DISSGAS(14)
L1631730-12A	20ml Vial HCl preserved	A	N/A	3.2	Y	Absent	DISSGAS(14)
L1631730-12B	20ml Vial HCl preserved	A	N/A	3.2	Y	Absent	DISSGAS(14)
L1631730-13A	20ml Vial HCl preserved	A	N/A	3.2	Y	Absent	DISSGAS(14)
L1631730-13B	20ml Vial HCl preserved	A	N/A	3.2	Y	Absent	DISSGAS(14)
L1631730-14A	20ml Vial HCl preserved	A	N/A	3.2	Y	Absent	DISSGAS(14)
L1631730-14B	20ml Vial HCl preserved	A	N/A	3.2	Y	Absent	DISSGAS(14)
L1631730-15A	20ml Vial HCl preserved	A	N/A	3.2	Y	Absent	DISSGAS(14)

*Values in parentheses indicate holding time in days



Project Name: RAYTHEON-WAYLAND**Project Number:** RA-008**Lab Number:** L1631730**Report Date:** 10/13/16**Container Information**

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1631730-15B	20ml Vial HCl preserved	A	N/A	3.2	Y	Absent	DISSGAS(14)
L1631730-16A	20ml Vial HCl preserved	A	N/A	3.2	Y	Absent	DISSGAS(14)
L1631730-16B	20ml Vial HCl preserved	A	N/A	3.2	Y	Absent	DISSGAS(14)
L1631730-17A	20ml Vial HCl preserved	A	N/A	3.2	Y	Absent	DISSGAS(14)
L1631730-17B	20ml Vial HCl preserved	A	N/A	3.2	Y	Absent	DISSGAS(14)
L1631730-18A	20ml Vial HCl preserved	A	N/A	3.2	Y	Absent	DISSGAS(14)
L1631730-18B	20ml Vial HCl preserved	A	N/A	3.2	Y	Absent	DISSGAS(14)
L1631730-19A	20ml Vial HCl preserved	A	N/A	3.2	Y	Absent	DISSGAS(14)
L1631730-19B	20ml Vial HCl preserved	A	N/A	3.2	Y	Absent	DISSGAS(14)
L1631730-20A	20ml Vial HCl preserved	A	N/A	3.2	Y	Absent	DISSGAS(14)
L1631730-20B	20ml Vial HCl preserved	A	N/A	3.2	Y	Absent	DISSGAS(14)

*Values in parentheses indicate holding time in days

Project Name: RAYTHEON-WAYLAND
Project Number: RA-008

Lab Number: L1631730
Report Date: 10/13/16

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.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
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

Report Format: Data Usability Report



Project Name: RAYTHEON-WAYLAND**Lab Number:** L1631730**Project Number:** RA-008**Report Date:** 10/13/16**Data Qualifiers**

- reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- 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: RAYTHEON-WAYLAND
Project Number: RA-008

Lab Number: L1631730
Report Date: 10/13/16

REFERENCES

- 117 Technical Guidance for the Natural Attenuation Indicators: Methane, Ethane, and Ethene, EPA-NE, Revision 1, February 21, 2002 and Sample Preparation & Calculations for Dissolved Gas Analysis in Water Samples using a GC Headspace Equilibration Technique, EPA RSKSOP-175, Revision 2, May 2004.

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 624: m/p-xylene, o-xylene

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

EPA 8270D: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.

EPA 300: DW: Bromide

EPA 6860: NPW and SCM: Perchlorate

EPA 9010: NPW and SCM: Amenable Cyanide Distillation

EPA 9012B: NPW: Total Cyanide

EPA 9050A: NPW: Specific Conductance

SM3500: NPW: Ferrous Iron

SM4500: NPW: Amenable Cyanide, Dissolved Oxygen; SCM: Total Phosphorus, TKN, NO₂, NO₃.

SM5310C: DW: Dissolved Organic Carbon

Mansfield Facility

SM 2540D: TSS

EPA 3005A NPW

EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.

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.

Biological Tissue Matrix: **EPA 3050B**

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water

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; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.

Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT, SM9222D.**

Non-Potable Water

SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH, EPA 350.1: Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **SM4500NO3-F, EPA 353.2:** Nitrate-N, **EPA 351.1, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, 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.**

Mansfield Facility:

Drinking Water

EPA 200.7: Ba, Be, Cd, Cr, Cu, Ni, Na, Ca. **EPA 200.8:** Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Ni, Se, TL. **EPA 245.1 Hg.**

Non-Potable Water

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

EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn.

EPA 245.1 Hg.

SM2340B

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



CHAIN OF CUSTODY

PAGE 1 OF 2

8 Walkup Drive
Westboro, MA 01581
Tel: 508-898-9220

320 Forbes Blvd
Mansfield, MA 02048
Tel: 508-822-9300

Date Rec'd in Lab: 10/5/16

ALPHA Job #: L1631730

Project Information

Project Name: *Roughtron - Wayland*

Project Location: *Wayland MA*

Project #: *RA-008*

Project Manager: *Vicki Parizyan*

ALPHA Quote #:

Report Information - Data Deliverables

ADEX EMAIL

Billing Information

Same as Client info PO #: *RA-008*

Client Information

Client: *Innovative Engineering Solutions Inc*

Address: *25 Spring St
Wayland MA 02081*

Phone: *508-668-0033*

Email: *v.parizyan@IESIonline.com*

Additional Project Information:

Turn-Around Time

Standard RUSH (only confirmed if pre-approved!)

Date Due:

Regulatory Requirements & Project Information Requirements

- Yes No MA MCP Analytical Methods Yes No CT RCP 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

<p>ANALYSIS</p> <p>VOC: <input type="checkbox"/> 8260 <input type="checkbox"/> 624 <input type="checkbox"/> 524.2</p> <p>SVOC: <input type="checkbox"/> ABN <input type="checkbox"/> PAH</p> <p>METALS: <input type="checkbox"/> MCP 13 <input type="checkbox"/> MCP 14 <input type="checkbox"/> MCP 15</p> <p>EPH: <input type="checkbox"/> RCRA5 <input type="checkbox"/> RCRA8 <input type="checkbox"/> PP-13</p> <p>VPH: <input type="checkbox"/> Ranges & Targets <input type="checkbox"/> Ranges Only</p> <p><input type="checkbox"/> PCB <input type="checkbox"/> PEST</p> <p>TPH: <input type="checkbox"/> Quant Only <input type="checkbox"/> Fingerprint</p> <p style="text-align: center;"><i>Disposal Cases</i></p>	<p>SAMPLE INFO</p> <p>Filtration</p> <p><input type="checkbox"/> Field <input type="checkbox"/> Lab to do</p> <p>Preservation</p> <p><input type="checkbox"/> Lab to do</p>
--	--

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler Initials	ANALYSIS	PRESERVATION	TOTAL # BOTTLES
		Date	Time					
<i>31730.01</i>	<i>MW-261S-20161003</i>	<i>10/3/16</i>	<i>0815</i>	<i>CW</i>	<i>g</i>		<i>X</i>	<i>2</i>
<i>.02</i>	<i>MW-265M-20161003</i>	<i>10/3/16</i>	<i>1205</i>	<i>CW</i>	<i>g</i>		<i>X</i>	<i>2</i>
<i>.03</i>	<i>MW-267S-20161004</i>	<i>10/4/16</i>	<i>1330</i>	<i>CW</i>	<i>g</i>		<i>X</i>	<i>2</i>
<i>.04</i>	<i>MW-268S-20161004</i>	<i>10/4/16</i>	<i>1135</i>	<i>CW</i>	<i>g</i>		<i>X</i>	<i>2</i>
<i>.05</i>	<i>MW-268M-20161004</i>	<i>10/4/16</i>	<i>1220</i>	<i>CW</i>	<i>g</i>		<i>X</i>	<i>2</i>
<i>.06</i>	<i>MW-552-20161003</i>	<i>10/3/16</i>	<i>0855</i>	<i>CW</i>	<i>g</i>		<i>X</i>	<i>2</i>
<i>.07</i>	<i>MW-553-20161003</i>	<i>10/3/16</i>	<i>0950</i>	<i>CW</i>	<i>g</i>		<i>X</i>	<i>2</i>
<i>.08</i>	<i>MW-560-20161005</i>	<i>10/5/16</i>	<i>1300</i>	<i>CW</i>	<i>g</i>		<i>X</i>	<i>2</i>
<i>.09</i>	<i>MW-561-20161005</i>	<i>10/5/16</i>	<i>1200</i>	<i>CW</i>	<i>g</i>		<i>X</i>	<i>2</i>
<i>.10</i>	<i>MW-562-20161003</i>	<i>10/3/16</i>	<i>1045</i>	<i>CW</i>	<i>g</i>		<i>X</i>	<i>2</i>

- | | |
|---|---|
| <p>Container Type</p> <p>P= Plastic
A= Amber glass
V= Vial
G= Glass
B= Bacteria cup
C= Cube
O= Other
E= Encore
D= BOD Bottle</p> | <p>Preservative</p> <p>A= None
B= HCl
C= HNO₃
D= H₂SO₄
E= NaOH
F= MeOH
G= NaHSO₄
H= Na₂S₂O₃
I= Ascorbic Acid
J= NH₄Cl
K= Zn Acetate
O= Other</p> |
|---|---|

Container Type	<i>V</i>
Preservative	<i>B</i>

Relinquished By:	Date/Time	Received By:	Date/Time
<i>[Signature]</i>	<i>10/5/16 1615</i>	<i>[Signature]</i>	<i>10/5/16 1615</i>

All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.
FORM NO: 01-01 (rev. 12-Mar-2012)



CHAIN OF CUSTODY

PAGE 2 OF 2

8 Walkup Drive
Westboro, MA 01581
Tel: 508-898-9220

320 Forbes Blvd
Mansfield, MA 02048
Tel: 508-822-9300

Date Rec'd in Lab: 10/5/10

ALPHA Job #: L1631730

Project Information

Project Name: *Roylston - Wayland*

Project Location: *Wayland MA*

Project #: *RA-008*

Project Manager: *Vicki Parinen*

ALPHA Quote #:

Report Information - Data Deliverables

ADEX EMAIL

Billing Information

Same as Client info PO #: *RA-008*

Client Information

Client: *Innovative Engineering Solutions Inc.*

Address: *25 Spring St
Walpole MA 02081*

Phone: *508-668-0033*

Email: *v.parinen@IESIonline.com*

Turn-Around Time

Standard RUSH (only confirmed if pre-approved)

Date Due:

Additional Project Information:

Regulatory Requirements & Project Information Requirements

- Yes No MA MCP Analytical Methods Yes No CT RCP 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		SAMPLE INFO	
VOC: <input type="checkbox"/> 8260 <input type="checkbox"/> 624 <input type="checkbox"/> 5242		Filtration	
SVOC: <input type="checkbox"/> ABN <input type="checkbox"/> PAH		<input type="checkbox"/> Field	
METALS: <input type="checkbox"/> MCP 13 <input type="checkbox"/> MCP 14 <input type="checkbox"/> RCP 15		<input type="checkbox"/> Lab to do	
METALS: <input type="checkbox"/> RCRA5 <input type="checkbox"/> RCRA8		Preservation	
EPH: <input type="checkbox"/> Ranges & Targets <input type="checkbox"/> Ranges Only		<input type="checkbox"/> Lab to do	
VPH: <input type="checkbox"/> Ranges & Targets <input type="checkbox"/> Ranges Only			
PCB <input type="checkbox"/> PEST			
TPH: <input type="checkbox"/> Quant Only <input type="checkbox"/> Fingerprint			
<i>Disputed Cases (methane, ethane, propane)</i>			

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler Initials	ANALYSIS										SAMPLE INFO		TOTAL # BOTTLES	
		Date	Time			VOC	SVOC	METALS	METALS	EPH	VPH	PCB	TPH	Filtration	Preservation				
31730.11	MW-563-20161005	10/5/10	1355	GW	JH														
.12	REW-1-20161004	10/4/10	0835	GW	JG														
.13	REW-4-20161004	10/4/10	0920	GW	JG														
.14	REW-5-20161004	10/4/10	1005	GW	JG														
.15	REW-7-20161005	10/5/10	1120	GW	JG														
.16	REW-8-20161005	10/5/10	1025	GW	JG														
.17	REW-9-20161005	10/5/10	0930	GW	JG														
.18	REW-10-20161005	10/5/10	0855	GW	JG														
.19	REW-11-20161005	10/5/10	1220	GW	JG														
.20	REW-12-20161005	10/5/10	1310	GW	JG														

Container Type

- P= Plastic
- A= Amber glass
- V= Vial
- G= Glass
- B= Bacteria cup
- C= Cube
- O= Other
- E= Encore
- D= BOD Bottle

Preservative

- A= None
- B= HCl
- C= HNO₃
- D= H₂SO₄
- E= NaOH
- F= MeOH
- G= NaHSO₄
- H= Na₂S₂O₃
- I= Ascorbic Acid
- J= NH₄Cl
- K= Zn Acetate
- O= Other

Container Type

Preservative

Relinquished By: *[Signature]*

Date/Time: 10/5/10 1615

Received By: *[Signature]*

Date/Time: 10/5/10 1615

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

FORM NO: 01-01 (rev. 12-Mar-2012)

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Buffalo

10 Hazelwood Drive

Amherst, NY 14228-2298

Tel: (716)691-2600

TestAmerica Job ID: 480-102681-1

Client Project/Site: IDS Wayland

For:

Innovative Engineering Solutions, Inc

25 Spring Street

Walpole, Massachusetts 02081

Attn: Vicki Pariyar



Authorized for release by:

7/13/2016 11:13:57 AM

Rebecca Jones, Project Management Assistant I

rebecca.jones@testamericainc.com

Designee for

Becky Mason, Project Manager II

(413)572-4000

becky.mason@testamericainc.com

LINKS

Review your project
results through

TotalAccess

Have a Question?



Visit us at:

www.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.

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15



Table of Contents

Cover Page	1
Table of Contents	2
Definitions/Glossary	3
Case Narrative	4
Detection Summary	7
Client Sample Results	10
Surrogate Summary	26
QC Sample Results	27
QC Association Summary	41
Lab Chronicle	44
Certification Summary	47
Method Summary	48
Sample Summary	49
Receipt Checklists	50
Chain of Custody	51

Definitions/Glossary

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-102681-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.

General Chemistry

Qualifier	Qualifier Description
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-102681-1

Job ID: 480-102681-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative 480-102681-1

Comments

No additional comments.

Receipt

The samples were received on 7/7/2016 2:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 0.9° C.

GC/MS VOA

Method 8260C: Due to the dilutions required, per question G on the MassDEP Analytical Protocol Certification Form, the CAM reporting limits specified in this CAM protocol could not be achieved for some or all samples/analytes.

Method 8260C: With the exception of diluted samples, per question G on the MassDEP Analytical Protocol Certification Form, TestAmerica's routine reporting limits do not achieve the CAM reporting limits specified in this CAM protocol for 1,2-dibromo-3-chloropropane, Carbon Disulfide, Isopropyl Ether, Naphthalene, tert-Amyl Methyl Ether and Tetrahydrofuran.

Method(s) 8260C: The continuing calibration verification (CCV) for Carbon Disulfide associated with batch 480-309992 recovered outside the MCP control limit criteria. MCP protocol allows for 20% of the target compounds to be outside the 20% difference but not over 40% difference. Difficult analytes are allowed to be outside the 20% difference but not over 60% difference. The following samples were affected : MW-265M-20160706 (480-102681-1), MW-562-20160706 (480-102681-2), REW-8-20160706 (480-102681-4), REW-11-20160706 (480-102681-5), REW-12-20160706 (480-102681-6) and TRIP BLANKS (480-102681-8).

Method(s) 8260C: The laboratory control sample (LCS) and / or the laboratory control sample duplicate (LCSD) for batch 480-309992 exceeded control limits for the following analytes: Carbon disulfide and Dichlorodifluoromethane. MCP protocol allows for 10% of the target compounds to be outside of the limits provided the recoveries are over 10%. The following samples were affected : MW-265M-20160706 (480-102681-1), MW-562-20160706 (480-102681-2), REW-8-20160706 (480-102681-4), REW-11-20160706 (480-102681-5), REW-12-20160706 (480-102681-6) and TRIP BLANKS (480-102681-8).

Method(s) 8260C: The laboratory control sample (LCS) and the laboratory control sample duplicate (LCSD) for batch 480-309992 exceeded control limits for the following analyte: 2-Hexanone . Unlike the calibration standards, this is due to the coelution with n-butyl Acetate in the spiking solution. This does not indicate a performance issue with the spike recovery, but rather the laboratory's ability to measure the two analytes together in a combined spiking solution. Through the use of spectral analysis, the two compounds can be distinguished from one another if present in a client sample. The following samples were affected : MW-265M-20160706 (480-102681-1), MW-562-20160706 (480-102681-2), REW-8-20160706 (480-102681-4), REW-11-20160706 (480-102681-5), REW-12-20160706 (480-102681-6) and TRIP BLANKS (480-102681-8).

Method(s) 8260C: The following sample was collected in properly preserved vials for analysis of volatile organic compounds (VOCs). However, the pH was outside the required criteria when verified by the laboratory, and corrective action was not possible: MW-265M-20160706 (480-102681-1). The sample was analyzed within 7 days per EPA recommendation.

Method(s) 8260C: The following samples were diluted to bring the concentration of target analytes within the calibration range: MW-265M-20160706 (480-102681-1) and REW-12-20160706 (480-102681-6). Elevated reporting limits (RLs) are provided.

Method(s) 8260C: The following sample was diluted due to the abundance of non-target analytes: MW-562-20160706 (480-102681-2). Elevated reporting limits (RLs) are provided.

Method(s) 8260C: The continuing calibration verification (CCV) for Naphthalene and Dichlorodifluoromethane associated with batch 480-310121 recovered outside the MCP control limit criteria. MCP protocol allows for 20% of the target compounds to be outside the 20% difference but not over 40% difference. The following samples were affected : REW-7-20160706 (480-102681-3) and DUP2-20160706 (480-102681-7).

Method(s) 8260C: The laboratory control sample (LCS) and the laboratory control sample duplicate (LCSD) for batch 480-310121 exceeded control limits for the following analyte: 2-Hexanone. Unlike the calibration standards, this is due to the coelution with N-Butyl

Case Narrative

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-102681-1

Job ID: 480-102681-1 (Continued)

Laboratory: TestAmerica Buffalo (Continued)

Acetate in the spiking solution. This does not indicate a performance issue with the spike recovery, but rather the laboratory's ability to measure the two analytes together in a combined spiking solution. Through the use of spectral analysis, the two compounds can be distinguished from one another if present in a client sample. The following samples were affected : REW-7-20160706 (480-102681-3) and DUP2-20160706 (480-102681-7).

Method(s) 8260C: The laboratory control sample (LCS) and the laboratory control sample duplicate (LCSD) for batch 480-310121 exceeded control limits for the following analyte: Dichlorodifluoromethane. MCP protocol allows for 10% of the target compounds to be outside of the limits provided the recoveries are over 10%. The following samples were affected : REW-7-20160706 (480-102681-3) and DUP2-20160706 (480-102681-7).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

HPLC/IC

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Metals

Method 6010C: At the request of the client, an abbreviated MCP compound list was reported for this job.

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry

Method(s) 9040C, SM 4500 H+ B: This analysis is normally performed in the field and has a method-defined holding time of 15 minutes. The following samples has been qualified with the "HF" flag to indicate analysis was performed in the laboratory outside the 15 minute timeframe: MW-265M-20160706 (480-102681-1), MW-562-20160706 (480-102681-2), REW-7-20160706 (480-102681-3), REW-8-20160706 (480-102681-4), REW-11-20160706 (480-102681-5) and REW-12-20160706 (480-102681-6).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

MassDEP Analytical Protocol Certification Form

Laboratory Name: TestAmerica Buffalo		Project #: 480-102681-1	
Project Location: Wayland		RTN:	
This form provides certifications for the following data set: list Laboratory Sample ID Number(s): 480-102681-1(1-8)			
Matrices: <input checked="" type="checkbox"/> Groundwater/Surface Water <input type="checkbox"/> Soil/Sediment <input type="checkbox"/> Drinking Water <input type="checkbox"/> Air <input type="checkbox"/> Other:			
CAM Protocols (check all that apply below):			
8260 VOC CAM II A <input checked="" type="checkbox"/>	7470/7471 Hg CAM III B	Mass DEP VPH CAM IV A <input type="checkbox"/>	8081 Pesticides CAM V B <input type="checkbox"/>
8270 SVOC CAM II B <input type="checkbox"/>	7010 Metals CAM III C <input type="checkbox"/>	Mass DEP EPH CAM IV B <input type="checkbox"/>	8151 Herbicides CAM V C <input type="checkbox"/>
6010 Metals CAM III A <input checked="" type="checkbox"/>	6020 Metals CAM III D <input type="checkbox"/>	8082 PCB CAM V A <input type="checkbox"/>	9014 Total Cyanide/PAC CAM VI A <input type="checkbox"/>
			7196 Hex Cr CAM VI B <input type="checkbox"/>
			Mass DEP APH CAM IX A <input type="checkbox"/>
			8330 Explosives CAM VIII A <input type="checkbox"/>
			TO-15 VOC CAM IX B <input type="checkbox"/>
Affirmative Responses to Questions A through F are 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 time.		
			<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?		
			<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
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?		
			<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
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"?		
			<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
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). b. APH and TO-15 Methods only: Was the complete analyte list reported for each method?		
			<input type="checkbox"/> Yes <input type="checkbox"/> No
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)?		
			<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Responses to Questions G, H and I below are required for "Presumptive Certainty" status			
G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?		
			<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No ¹
Data User Note: 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			
H	Were all QC performance standards specified in the CAM protocol(s) achieved?		
			<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No ¹
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s) ?		
			<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No ¹
¹ All negative responses must be addressed in an attached laboratory narrative.			
<i>I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, is accurate and complete.</i>			
Signature: _____	Position: Project Management Assistant		
Printed Name: Rebecca Jones	Date: 7/13/16 11:13		

Detection Summary

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-102681-1

Client Sample ID: MW-265M-20160706

Lab Sample ID: 480-102681-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	100		50		ug/L	5		8260C	Total/NA
Acetone	600		250		ug/L	5		8260C	Total/NA
m-Xylene & p-Xylene	11		10		ug/L	5		8260C	Total/NA
Toluene	7.9		5.0		ug/L	5		8260C	Total/NA
Vinyl chloride	5.7		5.0		ug/L	5		8260C	Total/NA
Iron	390		0.050		mg/L	1		6010	Total/NA
Chloride	64		5.0		mg/L	10		300.0	Total/NA
Ammonia	0.20		0.20		mg/L	1		350.1	Total/NA
TOC Result 1	1200		10		mg/L	10		9060A	Total/NA
TOC Result 2	1100		10		mg/L	10		9060A	Total/NA
Total Organic Carbon - Duplicates	1100		10		mg/L	10		9060A	Total/NA
Alkalinity, Total	720		5.0		mg/L	1		SM 2320B	Total/NA
ortho-Phosphate	0.24		0.020		mg/L	1		SM 4500 P E	Total/NA
Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
pH	5.30	HF	0.100		SU	1		9040C	Total/NA

Client Sample ID: MW-562-20160706

Lab Sample ID: 480-102681-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	200		40		ug/L	4		8260C	Total/NA
cis-1,2-Dichloroethene	8.4		4.0		ug/L	4		8260C	Total/NA
Toluene	13		4.0		ug/L	4		8260C	Total/NA
Vinyl chloride	4.3		4.0		ug/L	4		8260C	Total/NA
Iron	260		0.050		mg/L	1		6010	Total/NA
Chloride	37		5.0		mg/L	10		300.0	Total/NA
Ammonia	2.6		0.40		mg/L	2		350.1	Total/NA
TOC Result 1	580		10		mg/L	10		9060A	Total/NA
TOC Result 2	590		10		mg/L	10		9060A	Total/NA
Total Organic Carbon - Duplicates	580		10		mg/L	10		9060A	Total/NA
Alkalinity, Total	580		5.0		mg/L	1		SM 2320B	Total/NA
ortho-Phosphate	0.79		0.020		mg/L	1		SM 4500 P E	Total/NA
Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
pH	6.46	HF	0.100		SU	1		9040C	Total/NA

Client Sample ID: REW-7-20160706

Lab Sample ID: 480-102681-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	70		10		ug/L	1		8260C	Total/NA
Acetone	50		50		ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	30		1.0		ug/L	1		8260C	Total/NA
m-Xylene & p-Xylene	2.2		2.0		ug/L	1		8260C	Total/NA
Toluene	83		1.0		ug/L	1		8260C	Total/NA
Vinyl chloride	23		1.0		ug/L	1		8260C	Total/NA
Iron	62		0.050		mg/L	1		6010	Total/NA
Chloride	24		2.5		mg/L	5		300.0	Total/NA
Ammonia	0.40		0.20		mg/L	1		350.1	Total/NA
TOC Result 1	75		1.0		mg/L	1		9060A	Total/NA
TOC Result 2	74		1.0		mg/L	1		9060A	Total/NA
Total Organic Carbon - Duplicates	74		1.0		mg/L	1		9060A	Total/NA
Alkalinity, Total	220		5.0		mg/L	1		SM 2320B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

Detection Summary

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-102681-1

Client Sample ID: REW-7-20160706 (Continued)

Lab Sample ID: 480-102681-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
ortho-Phosphate	0.15		0.020		mg/L	1		SM 4500 P E	Total/NA
Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
pH	6.79	HF	0.100		SU	1		9040C	Total/NA

Client Sample ID: REW-8-20160706

Lab Sample ID: 480-102681-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	37		10		ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	4.1		1.0		ug/L	1		8260C	Total/NA
Toluene	31		1.0		ug/L	1		8260C	Total/NA
Vinyl chloride	3.9		1.0		ug/L	1		8260C	Total/NA
Iron	66		0.050		mg/L	1		6010	Total/NA
Chloride	32		2.5		mg/L	5		300.0	Total/NA
Ammonia	0.23		0.20		mg/L	1		350.1	Total/NA
TOC Result 1	80		1.0		mg/L	1		9060A	Total/NA
TOC Result 2	79		1.0		mg/L	1		9060A	Total/NA
Total Organic Carbon - Duplicates	79		1.0		mg/L	1		9060A	Total/NA
Alkalinity, Total	240		5.0		mg/L	1		SM 2320B	Total/NA
ortho-Phosphate	0.22		0.020		mg/L	1		SM 4500 P E	Total/NA
Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
pH	6.80	HF	0.100		SU	1		9040C	Total/NA

Client Sample ID: REW-11-20160706

Lab Sample ID: 480-102681-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	32		10		ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	32		1.0		ug/L	1		8260C	Total/NA
Toluene	24		1.0		ug/L	1		8260C	Total/NA
Trichloroethene	4.8		1.0		ug/L	1		8260C	Total/NA
Vinyl chloride	13		1.0		ug/L	1		8260C	Total/NA
Iron	68		0.050		mg/L	1		6010	Total/NA
Chloride	51		2.5		mg/L	5		300.0	Total/NA
Sulfate	18		10		mg/L	5		300.0	Total/NA
Ammonia	0.81		0.20		mg/L	1		350.1	Total/NA
TOC Result 1	200		5.0		mg/L	5		9060A	Total/NA
TOC Result 2	190		5.0		mg/L	5		9060A	Total/NA
Total Organic Carbon - Duplicates	200		5.0		mg/L	5		9060A	Total/NA
Alkalinity, Total	150		5.0		mg/L	1		SM 2320B	Total/NA
ortho-Phosphate	0.23		0.020		mg/L	1		SM 4500 P E	Total/NA
Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
pH	6.74	HF	0.100		SU	1		9040C	Total/NA

Client Sample ID: REW-12-20160706

Lab Sample ID: 480-102681-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	38		20		ug/L	2		8260C	Total/NA
cis-1,2-Dichloroethene	58		2.0		ug/L	2		8260C	Total/NA
Toluene	33		2.0		ug/L	2		8260C	Total/NA
Trichloroethene	5.9		2.0		ug/L	2		8260C	Total/NA
Vinyl chloride	21		2.0		ug/L	2		8260C	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

Detection Summary

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-102681-1

Client Sample ID: REW-12-20160706 (Continued)

Lab Sample ID: 480-102681-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	99		0.050		mg/L	1		6010	Total/NA
Chloride	40		2.5		mg/L	5		300.0	Total/NA
Sulfate	15		10		mg/L	5		300.0	Total/NA
Ammonia	0.45		0.20		mg/L	1		350.1	Total/NA
TOC Result 1	150		5.0		mg/L	5		9060A	Total/NA
TOC Result 2	160		5.0		mg/L	5		9060A	Total/NA
Total Organic Carbon - Duplicates	160		5.0		mg/L	5		9060A	Total/NA
Alkalinity, Total	200		5.0		mg/L	1		SM 2320B	Total/NA
ortho-Phosphate	0.15		0.020		mg/L	1		SM 4500 P E	Total/NA
Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
pH	6.65	HF	0.100		SU	1		9040C	Total/NA

Client Sample ID: DUP2-20160706

Lab Sample ID: 480-102681-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	70		10		ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	29		1.0		ug/L	1		8260C	Total/NA
m-Xylene & p-Xylene	2.0		2.0		ug/L	1		8260C	Total/NA
Toluene	77		1.0		ug/L	1		8260C	Total/NA
Vinyl chloride	20		1.0		ug/L	1		8260C	Total/NA

Client Sample ID: TRIP BLANKS

Lab Sample ID: 480-102681-8

No Detections.

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

Client Sample Results

Client: Innovative Engineering Solutions, Inc
 Project/Site: IDS Wayland

TestAmerica Job ID: 480-102681-1

Client Sample ID: MW-265M-20160706

Lab Sample ID: 480-102681-1

Date Collected: 07/06/16 11:35

Matrix: Water

Date Received: 07/07/16 02:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.0		ug/L			07/07/16 13:46	5
1,1,1-Trichloroethane	ND		5.0		ug/L			07/07/16 13:46	5
1,1,2,2-Tetrachloroethane	ND		2.5		ug/L			07/07/16 13:46	5
1,1,2-Trichloroethane	ND		5.0		ug/L			07/07/16 13:46	5
1,1-Dichloroethane	ND		5.0		ug/L			07/07/16 13:46	5
1,1-Dichloroethene	ND		5.0		ug/L			07/07/16 13:46	5
1,1-Dichloropropene	ND		5.0		ug/L			07/07/16 13:46	5
1,2,3-Trichlorobenzene	ND		5.0		ug/L			07/07/16 13:46	5
1,2,3-Trichloropropane	ND		5.0		ug/L			07/07/16 13:46	5
1,2,4-Trichlorobenzene	ND		5.0		ug/L			07/07/16 13:46	5
1,2,4-Trimethylbenzene	ND		5.0		ug/L			07/07/16 13:46	5
1,2-Dibromo-3-Chloropropane	ND		25		ug/L			07/07/16 13:46	5
1,2-Dichlorobenzene	ND		5.0		ug/L			07/07/16 13:46	5
1,2-Dichloroethane	ND		5.0		ug/L			07/07/16 13:46	5
1,2-Dichloropropane	ND		5.0		ug/L			07/07/16 13:46	5
1,3,5-Trimethylbenzene	ND		5.0		ug/L			07/07/16 13:46	5
1,3-Dichlorobenzene	ND		5.0		ug/L			07/07/16 13:46	5
1,3-Dichloropropane	ND		5.0		ug/L			07/07/16 13:46	5
1,4-Dichlorobenzene	ND		5.0		ug/L			07/07/16 13:46	5
1,4-Dioxane	ND		250		ug/L			07/07/16 13:46	5
2,2-Dichloropropane	ND		5.0		ug/L			07/07/16 13:46	5
2-Butanone (MEK)	100		50		ug/L			07/07/16 13:46	5
2-Chlorotoluene	ND		5.0		ug/L			07/07/16 13:46	5
2-Hexanone	ND *		50		ug/L			07/07/16 13:46	5
4-Chlorotoluene	ND		5.0		ug/L			07/07/16 13:46	5
4-Isopropyltoluene	ND		5.0		ug/L			07/07/16 13:46	5
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			07/07/16 13:46	5
Acetone	600		250		ug/L			07/07/16 13:46	5
Benzene	ND		5.0		ug/L			07/07/16 13:46	5
Bromobenzene	ND		5.0		ug/L			07/07/16 13:46	5
Bromoform	ND		5.0		ug/L			07/07/16 13:46	5
Bromomethane	ND		10		ug/L			07/07/16 13:46	5
Carbon disulfide	ND *		50		ug/L			07/07/16 13:46	5
Carbon tetrachloride	ND		5.0		ug/L			07/07/16 13:46	5
Chlorobenzene	ND		5.0		ug/L			07/07/16 13:46	5
Chlorobromomethane	ND		5.0		ug/L			07/07/16 13:46	5
Chlorodibromomethane	ND		2.5		ug/L			07/07/16 13:46	5
Chloroethane	ND		10		ug/L			07/07/16 13:46	5
Chloroform	ND		5.0		ug/L			07/07/16 13:46	5
Chloromethane	ND		10		ug/L			07/07/16 13:46	5
cis-1,2-Dichloroethene	ND		5.0		ug/L			07/07/16 13:46	5
cis-1,3-Dichloropropene	ND		2.0		ug/L			07/07/16 13:46	5
Dichlorobromomethane	ND		2.5		ug/L			07/07/16 13:46	5
Dichlorodifluoromethane	ND *		5.0		ug/L			07/07/16 13:46	5
Ethyl ether	ND		5.0		ug/L			07/07/16 13:46	5
Ethylbenzene	ND		5.0		ug/L			07/07/16 13:46	5
Ethylene Dibromide	ND		5.0		ug/L			07/07/16 13:46	5
Hexachlorobutadiene	ND		2.0		ug/L			07/07/16 13:46	5
Isopropyl ether	ND		50		ug/L			07/07/16 13:46	5

TestAmerica Buffalo

Client Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-102681-1

Client Sample ID: MW-265M-20160706

Lab Sample ID: 480-102681-1

Date Collected: 07/06/16 11:35

Matrix: Water

Date Received: 07/07/16 02:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	ND		5.0		ug/L			07/07/16 13:46	5
Methyl tert-butyl ether	ND		5.0		ug/L			07/07/16 13:46	5
Methylene Chloride	ND		5.0		ug/L			07/07/16 13:46	5
m-Xylene & p-Xylene	11		10		ug/L			07/07/16 13:46	5
Naphthalene	ND		25		ug/L			07/07/16 13:46	5
n-Butylbenzene	ND		5.0		ug/L			07/07/16 13:46	5
N-Propylbenzene	ND		5.0		ug/L			07/07/16 13:46	5
o-Xylene	ND		5.0		ug/L			07/07/16 13:46	5
sec-Butylbenzene	ND		5.0		ug/L			07/07/16 13:46	5
Styrene	ND		5.0		ug/L			07/07/16 13:46	5
Tert-amyl methyl ether	ND		25		ug/L			07/07/16 13:46	5
Tert-butyl ethyl ether	ND		25		ug/L			07/07/16 13:46	5
tert-Butylbenzene	ND		5.0		ug/L			07/07/16 13:46	5
Tetrachloroethene	ND		5.0		ug/L			07/07/16 13:46	5
Tetrahydrofuran	ND		50		ug/L			07/07/16 13:46	5
Toluene	7.9		5.0		ug/L			07/07/16 13:46	5
trans-1,2-Dichloroethene	ND		5.0		ug/L			07/07/16 13:46	5
trans-1,3-Dichloropropene	ND		2.0		ug/L			07/07/16 13:46	5
Trichloroethene	ND		5.0		ug/L			07/07/16 13:46	5
Trichlorofluoromethane	ND		5.0		ug/L			07/07/16 13:46	5
Vinyl chloride	5.7		5.0		ug/L			07/07/16 13:46	5
Dibromomethane	ND		5.0		ug/L			07/07/16 13:46	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>Toluene-d8 (Surr)</i>	96		70 - 130		07/07/16 13:46	5
<i>1,2-Dichloroethane-d4 (Surr)</i>	110		70 - 130		07/07/16 13:46	5
<i>4-Bromofluorobenzene (Surr)</i>	91		70 - 130		07/07/16 13:46	5

Method: 6010 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	390		0.050		mg/L		07/07/16 08:55	07/07/16 20:27	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	64		5.0		mg/L			07/08/16 14:19	10
Sulfate	ND		20		mg/L			07/08/16 14:19	10
Ammonia	0.20		0.20		mg/L		07/07/16 20:52	07/08/16 17:39	1
Nitrate as N	ND		0.050		mg/L			07/07/16 11:08	1
TOC Result 1	1200		10		mg/L			07/07/16 22:35	10
TOC Result 2	1100		10		mg/L			07/07/16 22:35	10
Total Organic Carbon - Duplicates	1100		10		mg/L			07/07/16 22:35	10
Alkalinity, Total	720		5.0		mg/L			07/07/16 17:43	1
ortho-Phosphate	0.24		0.020		mg/L			07/07/16 11:15	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH	5.30	HF	0.100		SU			07/07/16 11:52	1

TestAmerica Buffalo

Client Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-102681-1

Client Sample ID: MW-562-20160706

Lab Sample ID: 480-102681-2

Date Collected: 07/06/16 10:55

Matrix: Water

Date Received: 07/07/16 02:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		4.0		ug/L			07/07/16 14:12	4
1,1,1-Trichloroethane	ND		4.0		ug/L			07/07/16 14:12	4
1,1,2,2-Tetrachloroethane	ND		2.0		ug/L			07/07/16 14:12	4
1,1,2-Trichloroethane	ND		4.0		ug/L			07/07/16 14:12	4
1,1-Dichloroethane	ND		4.0		ug/L			07/07/16 14:12	4
1,1-Dichloroethene	ND		4.0		ug/L			07/07/16 14:12	4
1,1-Dichloropropene	ND		4.0		ug/L			07/07/16 14:12	4
1,2,3-Trichlorobenzene	ND		4.0		ug/L			07/07/16 14:12	4
1,2,3-Trichloropropane	ND		4.0		ug/L			07/07/16 14:12	4
1,2,4-Trichlorobenzene	ND		4.0		ug/L			07/07/16 14:12	4
1,2,4-Trimethylbenzene	ND		4.0		ug/L			07/07/16 14:12	4
1,2-Dibromo-3-Chloropropane	ND		20		ug/L			07/07/16 14:12	4
1,2-Dichlorobenzene	ND		4.0		ug/L			07/07/16 14:12	4
1,2-Dichloroethane	ND		4.0		ug/L			07/07/16 14:12	4
1,2-Dichloropropane	ND		4.0		ug/L			07/07/16 14:12	4
1,3,5-Trimethylbenzene	ND		4.0		ug/L			07/07/16 14:12	4
1,3-Dichlorobenzene	ND		4.0		ug/L			07/07/16 14:12	4
1,3-Dichloropropane	ND		4.0		ug/L			07/07/16 14:12	4
1,4-Dichlorobenzene	ND		4.0		ug/L			07/07/16 14:12	4
1,4-Dioxane	ND		200		ug/L			07/07/16 14:12	4
2,2-Dichloropropane	ND		4.0		ug/L			07/07/16 14:12	4
2-Butanone (MEK)	200		40		ug/L			07/07/16 14:12	4
2-Chlorotoluene	ND		4.0		ug/L			07/07/16 14:12	4
2-Hexanone	ND *		40		ug/L			07/07/16 14:12	4
4-Chlorotoluene	ND		4.0		ug/L			07/07/16 14:12	4
4-Isopropyltoluene	ND		4.0		ug/L			07/07/16 14:12	4
4-Methyl-2-pentanone (MIBK)	ND		40		ug/L			07/07/16 14:12	4
Acetone	ND		200		ug/L			07/07/16 14:12	4
Benzene	ND		4.0		ug/L			07/07/16 14:12	4
Bromobenzene	ND		4.0		ug/L			07/07/16 14:12	4
Bromoform	ND		4.0		ug/L			07/07/16 14:12	4
Bromomethane	ND		8.0		ug/L			07/07/16 14:12	4
Carbon disulfide	ND *		40		ug/L			07/07/16 14:12	4
Carbon tetrachloride	ND		4.0		ug/L			07/07/16 14:12	4
Chlorobenzene	ND		4.0		ug/L			07/07/16 14:12	4
Chlorobromomethane	ND		4.0		ug/L			07/07/16 14:12	4
Chlorodibromomethane	ND		2.0		ug/L			07/07/16 14:12	4
Chloroethane	ND		8.0		ug/L			07/07/16 14:12	4
Chloroform	ND		4.0		ug/L			07/07/16 14:12	4
Chloromethane	ND		8.0		ug/L			07/07/16 14:12	4
cis-1,2-Dichloroethene	8.4		4.0		ug/L			07/07/16 14:12	4
cis-1,3-Dichloropropene	ND		1.6		ug/L			07/07/16 14:12	4
Dichlorobromomethane	ND		2.0		ug/L			07/07/16 14:12	4
Dichlorodifluoromethane	ND *		4.0		ug/L			07/07/16 14:12	4
Ethyl ether	ND		4.0		ug/L			07/07/16 14:12	4
Ethylbenzene	ND		4.0		ug/L			07/07/16 14:12	4
Ethylene Dibromide	ND		4.0		ug/L			07/07/16 14:12	4
Hexachlorobutadiene	ND		1.6		ug/L			07/07/16 14:12	4
Isopropyl ether	ND		40		ug/L			07/07/16 14:12	4

TestAmerica Buffalo

Client Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-102681-1

Client Sample ID: MW-562-20160706

Lab Sample ID: 480-102681-2

Date Collected: 07/06/16 10:55

Matrix: Water

Date Received: 07/07/16 02:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	ND		4.0		ug/L			07/07/16 14:12	4
Methyl tert-butyl ether	ND		4.0		ug/L			07/07/16 14:12	4
Methylene Chloride	ND		4.0		ug/L			07/07/16 14:12	4
m-Xylene & p-Xylene	ND		8.0		ug/L			07/07/16 14:12	4
Naphthalene	ND		20		ug/L			07/07/16 14:12	4
n-Butylbenzene	ND		4.0		ug/L			07/07/16 14:12	4
N-Propylbenzene	ND		4.0		ug/L			07/07/16 14:12	4
o-Xylene	ND		4.0		ug/L			07/07/16 14:12	4
sec-Butylbenzene	ND		4.0		ug/L			07/07/16 14:12	4
Styrene	ND		4.0		ug/L			07/07/16 14:12	4
Tert-amyl methyl ether	ND		20		ug/L			07/07/16 14:12	4
Tert-butyl ethyl ether	ND		20		ug/L			07/07/16 14:12	4
tert-Butylbenzene	ND		4.0		ug/L			07/07/16 14:12	4
Tetrachloroethene	ND		4.0		ug/L			07/07/16 14:12	4
Tetrahydrofuran	ND		40		ug/L			07/07/16 14:12	4
Toluene	13		4.0		ug/L			07/07/16 14:12	4
trans-1,2-Dichloroethene	ND		4.0		ug/L			07/07/16 14:12	4
trans-1,3-Dichloropropene	ND		1.6		ug/L			07/07/16 14:12	4
Trichloroethene	ND		4.0		ug/L			07/07/16 14:12	4
Trichlorofluoromethane	ND		4.0		ug/L			07/07/16 14:12	4
Vinyl chloride	4.3		4.0		ug/L			07/07/16 14:12	4
Dibromomethane	ND		4.0		ug/L			07/07/16 14:12	4

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	93		70 - 130		07/07/16 14:12	4
1,2-Dichloroethane-d4 (Surr)	107		70 - 130		07/07/16 14:12	4
4-Bromofluorobenzene (Surr)	91		70 - 130		07/07/16 14:12	4

Method: 6010 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	260		0.050		mg/L		07/07/16 08:55	07/07/16 20:31	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	37		5.0		mg/L			07/08/16 14:27	10
Sulfate	ND		20		mg/L			07/08/16 14:27	10
Ammonia	2.6		0.40		mg/L		07/07/16 20:52	07/08/16 17:48	2
Nitrate as N	ND		0.050		mg/L			07/07/16 11:07	1
TOC Result 1	580		10		mg/L			07/11/16 15:56	10
TOC Result 2	590		10		mg/L			07/11/16 15:56	10
Total Organic Carbon - Duplicates	580		10		mg/L			07/11/16 15:56	10
Alkalinity, Total	580		5.0		mg/L			07/07/16 17:52	1
ortho-Phosphate	0.79		0.020		mg/L			07/07/16 11:15	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.46	HF	0.100		SU			07/07/16 11:55	1

TestAmerica Buffalo

Client Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-102681-1

Client Sample ID: REW-7-20160706

Lab Sample ID: 480-102681-3

Date Collected: 07/06/16 09:30

Matrix: Water

Date Received: 07/07/16 02:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			07/07/16 20:02	1
1,1,1-Trichloroethane	ND		1.0		ug/L			07/07/16 20:02	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			07/07/16 20:02	1
1,1,2-Trichloroethane	ND		1.0		ug/L			07/07/16 20:02	1
1,1-Dichloroethane	ND		1.0		ug/L			07/07/16 20:02	1
1,1-Dichloroethene	ND		1.0		ug/L			07/07/16 20:02	1
1,1-Dichloropropene	ND		1.0		ug/L			07/07/16 20:02	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			07/07/16 20:02	1
1,2,3-Trichloropropane	ND		1.0		ug/L			07/07/16 20:02	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			07/07/16 20:02	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			07/07/16 20:02	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			07/07/16 20:02	1
1,2-Dichlorobenzene	ND		1.0		ug/L			07/07/16 20:02	1
1,2-Dichloroethane	ND		1.0		ug/L			07/07/16 20:02	1
1,2-Dichloropropane	ND		1.0		ug/L			07/07/16 20:02	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			07/07/16 20:02	1
1,3-Dichlorobenzene	ND		1.0		ug/L			07/07/16 20:02	1
1,3-Dichloropropane	ND		1.0		ug/L			07/07/16 20:02	1
1,4-Dichlorobenzene	ND		1.0		ug/L			07/07/16 20:02	1
1,4-Dioxane	ND		50		ug/L			07/07/16 20:02	1
2,2-Dichloropropane	ND		1.0		ug/L			07/07/16 20:02	1
2-Butanone (MEK)	70		10		ug/L			07/07/16 20:02	1
2-Chlorotoluene	ND		1.0		ug/L			07/07/16 20:02	1
2-Hexanone	ND *		10		ug/L			07/07/16 20:02	1
4-Chlorotoluene	ND		1.0		ug/L			07/07/16 20:02	1
4-Isopropyltoluene	ND		1.0		ug/L			07/07/16 20:02	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			07/07/16 20:02	1
Acetone	50		50		ug/L			07/07/16 20:02	1
Benzene	ND		1.0		ug/L			07/07/16 20:02	1
Bromobenzene	ND		1.0		ug/L			07/07/16 20:02	1
Bromoform	ND		1.0		ug/L			07/07/16 20:02	1
Bromomethane	ND		2.0		ug/L			07/07/16 20:02	1
Carbon disulfide	ND		10		ug/L			07/07/16 20:02	1
Carbon tetrachloride	ND		1.0		ug/L			07/07/16 20:02	1
Chlorobenzene	ND		1.0		ug/L			07/07/16 20:02	1
Chlorobromomethane	ND		1.0		ug/L			07/07/16 20:02	1
Chlorodibromomethane	ND		0.50		ug/L			07/07/16 20:02	1
Chloroethane	ND		2.0		ug/L			07/07/16 20:02	1
Chloroform	ND		1.0		ug/L			07/07/16 20:02	1
Chloromethane	ND		2.0		ug/L			07/07/16 20:02	1
cis-1,2-Dichloroethene	30		1.0		ug/L			07/07/16 20:02	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			07/07/16 20:02	1
Dichlorobromomethane	ND		0.50		ug/L			07/07/16 20:02	1
Dichlorodifluoromethane	ND *		1.0		ug/L			07/07/16 20:02	1
Ethyl ether	ND		1.0		ug/L			07/07/16 20:02	1
Ethylbenzene	ND		1.0		ug/L			07/07/16 20:02	1
Ethylene Dibromide	ND		1.0		ug/L			07/07/16 20:02	1
Hexachlorobutadiene	ND		0.40		ug/L			07/07/16 20:02	1
Isopropyl ether	ND		10		ug/L			07/07/16 20:02	1

TestAmerica Buffalo

Client Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-102681-1

Client Sample ID: REW-7-20160706

Lab Sample ID: 480-102681-3

Date Collected: 07/06/16 09:30

Matrix: Water

Date Received: 07/07/16 02:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	ND		1.0		ug/L			07/07/16 20:02	1
Methyl tert-butyl ether	ND		1.0		ug/L			07/07/16 20:02	1
Methylene Chloride	ND		1.0		ug/L			07/07/16 20:02	1
m-Xylene & p-Xylene	2.2		2.0		ug/L			07/07/16 20:02	1
Naphthalene	ND		5.0		ug/L			07/07/16 20:02	1
n-Butylbenzene	ND		1.0		ug/L			07/07/16 20:02	1
N-Propylbenzene	ND		1.0		ug/L			07/07/16 20:02	1
o-Xylene	ND		1.0		ug/L			07/07/16 20:02	1
sec-Butylbenzene	ND		1.0		ug/L			07/07/16 20:02	1
Styrene	ND		1.0		ug/L			07/07/16 20:02	1
Tert-amyl methyl ether	ND		5.0		ug/L			07/07/16 20:02	1
Tert-butyl ethyl ether	ND		5.0		ug/L			07/07/16 20:02	1
tert-Butylbenzene	ND		1.0		ug/L			07/07/16 20:02	1
Tetrachloroethene	ND		1.0		ug/L			07/07/16 20:02	1
Tetrahydrofuran	ND		10		ug/L			07/07/16 20:02	1
Toluene	83		1.0		ug/L			07/07/16 20:02	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			07/07/16 20:02	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			07/07/16 20:02	1
Trichloroethene	ND		1.0		ug/L			07/07/16 20:02	1
Trichlorofluoromethane	ND		1.0		ug/L			07/07/16 20:02	1
Vinyl chloride	23		1.0		ug/L			07/07/16 20:02	1
Dibromomethane	ND		1.0		ug/L			07/07/16 20:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>Toluene-d8 (Surr)</i>	92		70 - 130		07/07/16 20:02	1
<i>1,2-Dichloroethane-d4 (Surr)</i>	100		70 - 130		07/07/16 20:02	1
<i>4-Bromofluorobenzene (Surr)</i>	93		70 - 130		07/07/16 20:02	1

Method: 6010 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	62		0.050		mg/L		07/07/16 08:55	07/07/16 20:35	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	24		2.5		mg/L			07/08/16 14:35	5
Sulfate	ND		10		mg/L			07/08/16 14:35	5
Ammonia	0.40		0.20		mg/L		07/07/16 20:52	07/08/16 17:41	1
Nitrate as N	ND		0.050		mg/L			07/07/16 11:03	1
TOC Result 1	75		1.0		mg/L			07/07/16 23:31	1
TOC Result 2	74		1.0		mg/L			07/07/16 23:31	1
Total Organic Carbon - Duplicates	74		1.0		mg/L			07/07/16 23:31	1
Alkalinity, Total	220		5.0		mg/L			07/07/16 17:58	1
ortho-Phosphate	0.15		0.020		mg/L			07/07/16 11:15	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.79	HF	0.100		SU			07/07/16 11:58	1

TestAmerica Buffalo

Client Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-102681-1

Client Sample ID: REW-8-20160706

Lab Sample ID: 480-102681-4

Date Collected: 07/06/16 08:40

Matrix: Water

Date Received: 07/07/16 02:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			07/07/16 15:03	1
1,1,1-Trichloroethane	ND		1.0		ug/L			07/07/16 15:03	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			07/07/16 15:03	1
1,1,2-Trichloroethane	ND		1.0		ug/L			07/07/16 15:03	1
1,1-Dichloroethane	ND		1.0		ug/L			07/07/16 15:03	1
1,1-Dichloroethene	ND		1.0		ug/L			07/07/16 15:03	1
1,1-Dichloropropene	ND		1.0		ug/L			07/07/16 15:03	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			07/07/16 15:03	1
1,2,3-Trichloropropane	ND		1.0		ug/L			07/07/16 15:03	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			07/07/16 15:03	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			07/07/16 15:03	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			07/07/16 15:03	1
1,2-Dichlorobenzene	ND		1.0		ug/L			07/07/16 15:03	1
1,2-Dichloroethane	ND		1.0		ug/L			07/07/16 15:03	1
1,2-Dichloropropane	ND		1.0		ug/L			07/07/16 15:03	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			07/07/16 15:03	1
1,3-Dichlorobenzene	ND		1.0		ug/L			07/07/16 15:03	1
1,3-Dichloropropane	ND		1.0		ug/L			07/07/16 15:03	1
1,4-Dichlorobenzene	ND		1.0		ug/L			07/07/16 15:03	1
1,4-Dioxane	ND		50		ug/L			07/07/16 15:03	1
2,2-Dichloropropane	ND		1.0		ug/L			07/07/16 15:03	1
2-Butanone (MEK)	37		10		ug/L			07/07/16 15:03	1
2-Chlorotoluene	ND		1.0		ug/L			07/07/16 15:03	1
2-Hexanone	ND *		10		ug/L			07/07/16 15:03	1
4-Chlorotoluene	ND		1.0		ug/L			07/07/16 15:03	1
4-Isopropyltoluene	ND		1.0		ug/L			07/07/16 15:03	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			07/07/16 15:03	1
Acetone	ND		50		ug/L			07/07/16 15:03	1
Benzene	ND		1.0		ug/L			07/07/16 15:03	1
Bromobenzene	ND		1.0		ug/L			07/07/16 15:03	1
Bromoform	ND		1.0		ug/L			07/07/16 15:03	1
Bromomethane	ND		2.0		ug/L			07/07/16 15:03	1
Carbon disulfide	ND *		10		ug/L			07/07/16 15:03	1
Carbon tetrachloride	ND		1.0		ug/L			07/07/16 15:03	1
Chlorobenzene	ND		1.0		ug/L			07/07/16 15:03	1
Chlorobromomethane	ND		1.0		ug/L			07/07/16 15:03	1
Chlorodibromomethane	ND		0.50		ug/L			07/07/16 15:03	1
Chloroethane	ND		2.0		ug/L			07/07/16 15:03	1
Chloroform	ND		1.0		ug/L			07/07/16 15:03	1
Chloromethane	ND		2.0		ug/L			07/07/16 15:03	1
cis-1,2-Dichloroethene	4.1		1.0		ug/L			07/07/16 15:03	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			07/07/16 15:03	1
Dichlorobromomethane	ND		0.50		ug/L			07/07/16 15:03	1
Dichlorodifluoromethane	ND *		1.0		ug/L			07/07/16 15:03	1
Ethyl ether	ND		1.0		ug/L			07/07/16 15:03	1
Ethylbenzene	ND		1.0		ug/L			07/07/16 15:03	1
Ethylene Dibromide	ND		1.0		ug/L			07/07/16 15:03	1
Hexachlorobutadiene	ND		0.40		ug/L			07/07/16 15:03	1
Isopropyl ether	ND		10		ug/L			07/07/16 15:03	1

TestAmerica Buffalo

Client Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-102681-1

Client Sample ID: REW-8-20160706

Lab Sample ID: 480-102681-4

Date Collected: 07/06/16 08:40

Matrix: Water

Date Received: 07/07/16 02:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	ND		1.0		ug/L			07/07/16 15:03	1
Methyl tert-butyl ether	ND		1.0		ug/L			07/07/16 15:03	1
Methylene Chloride	ND		1.0		ug/L			07/07/16 15:03	1
m-Xylene & p-Xylene	ND		2.0		ug/L			07/07/16 15:03	1
Naphthalene	ND		5.0		ug/L			07/07/16 15:03	1
n-Butylbenzene	ND		1.0		ug/L			07/07/16 15:03	1
N-Propylbenzene	ND		1.0		ug/L			07/07/16 15:03	1
o-Xylene	ND		1.0		ug/L			07/07/16 15:03	1
sec-Butylbenzene	ND		1.0		ug/L			07/07/16 15:03	1
Styrene	ND		1.0		ug/L			07/07/16 15:03	1
Tert-amyl methyl ether	ND		5.0		ug/L			07/07/16 15:03	1
Tert-butyl ethyl ether	ND		5.0		ug/L			07/07/16 15:03	1
tert-Butylbenzene	ND		1.0		ug/L			07/07/16 15:03	1
Tetrachloroethene	ND		1.0		ug/L			07/07/16 15:03	1
Tetrahydrofuran	ND		10		ug/L			07/07/16 15:03	1
Toluene	31		1.0		ug/L			07/07/16 15:03	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			07/07/16 15:03	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			07/07/16 15:03	1
Trichloroethene	ND		1.0		ug/L			07/07/16 15:03	1
Trichlorofluoromethane	ND		1.0		ug/L			07/07/16 15:03	1
Vinyl chloride	3.9		1.0		ug/L			07/07/16 15:03	1
Dibromomethane	ND		1.0		ug/L			07/07/16 15:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	91		70 - 130		07/07/16 15:03	1
1,2-Dichloroethane-d4 (Surr)	105		70 - 130		07/07/16 15:03	1
4-Bromofluorobenzene (Surr)	88		70 - 130		07/07/16 15:03	1

Method: 6010 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	66		0.050		mg/L		07/07/16 08:55	07/07/16 20:49	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	32		2.5		mg/L			07/08/16 15:32	5
Sulfate	ND		10		mg/L			07/08/16 15:32	5
Ammonia	0.23		0.20		mg/L		07/07/16 20:52	07/08/16 17:41	1
Nitrate as N	ND		0.050		mg/L			07/07/16 11:02	1
TOC Result 1	80		1.0		mg/L			07/08/16 00:26	1
TOC Result 2	79		1.0		mg/L			07/08/16 00:26	1
Total Organic Carbon - Duplicates	79		1.0		mg/L			07/08/16 00:26	1
Alkalinity, Total	240		5.0		mg/L			07/07/16 18:06	1
ortho-Phosphate	0.22		0.020		mg/L			07/07/16 11:15	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.80	HF	0.100		SU			07/07/16 12:01	1

TestAmerica Buffalo

Client Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-102681-1

Client Sample ID: REW-11-20160706

Lab Sample ID: 480-102681-5

Date Collected: 07/06/16 10:15

Matrix: Water

Date Received: 07/07/16 02:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			07/07/16 15:28	1
1,1,1-Trichloroethane	ND		1.0		ug/L			07/07/16 15:28	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			07/07/16 15:28	1
1,1,2-Trichloroethane	ND		1.0		ug/L			07/07/16 15:28	1
1,1-Dichloroethane	ND		1.0		ug/L			07/07/16 15:28	1
1,1-Dichloroethene	ND		1.0		ug/L			07/07/16 15:28	1
1,1-Dichloropropene	ND		1.0		ug/L			07/07/16 15:28	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			07/07/16 15:28	1
1,2,3-Trichloropropane	ND		1.0		ug/L			07/07/16 15:28	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			07/07/16 15:28	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			07/07/16 15:28	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			07/07/16 15:28	1
1,2-Dichlorobenzene	ND		1.0		ug/L			07/07/16 15:28	1
1,2-Dichloroethane	ND		1.0		ug/L			07/07/16 15:28	1
1,2-Dichloropropane	ND		1.0		ug/L			07/07/16 15:28	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			07/07/16 15:28	1
1,3-Dichlorobenzene	ND		1.0		ug/L			07/07/16 15:28	1
1,3-Dichloropropane	ND		1.0		ug/L			07/07/16 15:28	1
1,4-Dichlorobenzene	ND		1.0		ug/L			07/07/16 15:28	1
1,4-Dioxane	ND		50		ug/L			07/07/16 15:28	1
2,2-Dichloropropane	ND		1.0		ug/L			07/07/16 15:28	1
2-Butanone (MEK)	32		10		ug/L			07/07/16 15:28	1
2-Chlorotoluene	ND		1.0		ug/L			07/07/16 15:28	1
2-Hexanone	ND *		10		ug/L			07/07/16 15:28	1
4-Chlorotoluene	ND		1.0		ug/L			07/07/16 15:28	1
4-Isopropyltoluene	ND		1.0		ug/L			07/07/16 15:28	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			07/07/16 15:28	1
Acetone	ND		50		ug/L			07/07/16 15:28	1
Benzene	ND		1.0		ug/L			07/07/16 15:28	1
Bromobenzene	ND		1.0		ug/L			07/07/16 15:28	1
Bromoform	ND		1.0		ug/L			07/07/16 15:28	1
Bromomethane	ND		2.0		ug/L			07/07/16 15:28	1
Carbon disulfide	ND *		10		ug/L			07/07/16 15:28	1
Carbon tetrachloride	ND		1.0		ug/L			07/07/16 15:28	1
Chlorobenzene	ND		1.0		ug/L			07/07/16 15:28	1
Chlorobromomethane	ND		1.0		ug/L			07/07/16 15:28	1
Chlorodibromomethane	ND		0.50		ug/L			07/07/16 15:28	1
Chloroethane	ND		2.0		ug/L			07/07/16 15:28	1
Chloroform	ND		1.0		ug/L			07/07/16 15:28	1
Chloromethane	ND		2.0		ug/L			07/07/16 15:28	1
cis-1,2-Dichloroethene	32		1.0		ug/L			07/07/16 15:28	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			07/07/16 15:28	1
Dichlorobromomethane	ND		0.50		ug/L			07/07/16 15:28	1
Dichlorodifluoromethane	ND *		1.0		ug/L			07/07/16 15:28	1
Ethyl ether	ND		1.0		ug/L			07/07/16 15:28	1
Ethylbenzene	ND		1.0		ug/L			07/07/16 15:28	1
Ethylene Dibromide	ND		1.0		ug/L			07/07/16 15:28	1
Hexachlorobutadiene	ND		0.40		ug/L			07/07/16 15:28	1
Isopropyl ether	ND		10		ug/L			07/07/16 15:28	1

TestAmerica Buffalo

Client Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-102681-1

Client Sample ID: REW-11-20160706

Lab Sample ID: 480-102681-5

Date Collected: 07/06/16 10:15

Matrix: Water

Date Received: 07/07/16 02:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	ND		1.0		ug/L			07/07/16 15:28	1
Methyl tert-butyl ether	ND		1.0		ug/L			07/07/16 15:28	1
Methylene Chloride	ND		1.0		ug/L			07/07/16 15:28	1
m-Xylene & p-Xylene	ND		2.0		ug/L			07/07/16 15:28	1
Naphthalene	ND		5.0		ug/L			07/07/16 15:28	1
n-Butylbenzene	ND		1.0		ug/L			07/07/16 15:28	1
N-Propylbenzene	ND		1.0		ug/L			07/07/16 15:28	1
o-Xylene	ND		1.0		ug/L			07/07/16 15:28	1
sec-Butylbenzene	ND		1.0		ug/L			07/07/16 15:28	1
Styrene	ND		1.0		ug/L			07/07/16 15:28	1
Tert-amyl methyl ether	ND		5.0		ug/L			07/07/16 15:28	1
Tert-butyl ethyl ether	ND		5.0		ug/L			07/07/16 15:28	1
tert-Butylbenzene	ND		1.0		ug/L			07/07/16 15:28	1
Tetrachloroethene	ND		1.0		ug/L			07/07/16 15:28	1
Tetrahydrofuran	ND		10		ug/L			07/07/16 15:28	1
Toluene	24		1.0		ug/L			07/07/16 15:28	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			07/07/16 15:28	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			07/07/16 15:28	1
Trichloroethene	4.8		1.0		ug/L			07/07/16 15:28	1
Trichlorofluoromethane	ND		1.0		ug/L			07/07/16 15:28	1
Vinyl chloride	13		1.0		ug/L			07/07/16 15:28	1
Dibromomethane	ND		1.0		ug/L			07/07/16 15:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	92		70 - 130		07/07/16 15:28	1
1,2-Dichloroethane-d4 (Surr)	107		70 - 130		07/07/16 15:28	1
4-Bromofluorobenzene (Surr)	90		70 - 130		07/07/16 15:28	1

Method: 6010 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	68		0.050		mg/L		07/07/16 08:55	07/07/16 20:52	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	51		2.5		mg/L			07/08/16 15:40	5
Sulfate	18		10		mg/L			07/08/16 15:40	5
Ammonia	0.81		0.20		mg/L		07/07/16 20:52	07/08/16 17:42	1
Nitrate as N	ND		0.050		mg/L			07/07/16 11:05	1
TOC Result 1	200		5.0		mg/L			07/08/16 01:22	5
TOC Result 2	190		5.0		mg/L			07/08/16 01:22	5
Total Organic Carbon - Duplicates	200		5.0		mg/L			07/08/16 01:22	5
Alkalinity, Total	150		5.0		mg/L			07/07/16 18:12	1
ortho-Phosphate	0.23		0.020		mg/L			07/07/16 11:15	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.74	HF	0.100		SU			07/07/16 12:04	1

TestAmerica Buffalo

Client Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-102681-1

Client Sample ID: REW-12-20160706

Lab Sample ID: 480-102681-6

Date Collected: 07/06/16 08:05

Matrix: Water

Date Received: 07/07/16 02:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		2.0		ug/L			07/07/16 15:53	2
1,1,1-Trichloroethane	ND		2.0		ug/L			07/07/16 15:53	2
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			07/07/16 15:53	2
1,1,2-Trichloroethane	ND		2.0		ug/L			07/07/16 15:53	2
1,1-Dichloroethane	ND		2.0		ug/L			07/07/16 15:53	2
1,1-Dichloroethene	ND		2.0		ug/L			07/07/16 15:53	2
1,1-Dichloropropene	ND		2.0		ug/L			07/07/16 15:53	2
1,2,3-Trichlorobenzene	ND		2.0		ug/L			07/07/16 15:53	2
1,2,3-Trichloropropane	ND		2.0		ug/L			07/07/16 15:53	2
1,2,4-Trichlorobenzene	ND		2.0		ug/L			07/07/16 15:53	2
1,2,4-Trimethylbenzene	ND		2.0		ug/L			07/07/16 15:53	2
1,2-Dibromo-3-Chloropropane	ND		10		ug/L			07/07/16 15:53	2
1,2-Dichlorobenzene	ND		2.0		ug/L			07/07/16 15:53	2
1,2-Dichloroethane	ND		2.0		ug/L			07/07/16 15:53	2
1,2-Dichloropropane	ND		2.0		ug/L			07/07/16 15:53	2
1,3,5-Trimethylbenzene	ND		2.0		ug/L			07/07/16 15:53	2
1,3-Dichlorobenzene	ND		2.0		ug/L			07/07/16 15:53	2
1,3-Dichloropropane	ND		2.0		ug/L			07/07/16 15:53	2
1,4-Dichlorobenzene	ND		2.0		ug/L			07/07/16 15:53	2
1,4-Dioxane	ND		100		ug/L			07/07/16 15:53	2
2,2-Dichloropropane	ND		2.0		ug/L			07/07/16 15:53	2
2-Butanone (MEK)	38		20		ug/L			07/07/16 15:53	2
2-Chlorotoluene	ND		2.0		ug/L			07/07/16 15:53	2
2-Hexanone	ND *		20		ug/L			07/07/16 15:53	2
4-Chlorotoluene	ND		2.0		ug/L			07/07/16 15:53	2
4-Isopropyltoluene	ND		2.0		ug/L			07/07/16 15:53	2
4-Methyl-2-pentanone (MIBK)	ND		20		ug/L			07/07/16 15:53	2
Acetone	ND		100		ug/L			07/07/16 15:53	2
Benzene	ND		2.0		ug/L			07/07/16 15:53	2
Bromobenzene	ND		2.0		ug/L			07/07/16 15:53	2
Bromoform	ND		2.0		ug/L			07/07/16 15:53	2
Bromomethane	ND		4.0		ug/L			07/07/16 15:53	2
Carbon disulfide	ND *		20		ug/L			07/07/16 15:53	2
Carbon tetrachloride	ND		2.0		ug/L			07/07/16 15:53	2
Chlorobenzene	ND		2.0		ug/L			07/07/16 15:53	2
Chlorobromomethane	ND		2.0		ug/L			07/07/16 15:53	2
Chlorodibromomethane	ND		1.0		ug/L			07/07/16 15:53	2
Chloroethane	ND		4.0		ug/L			07/07/16 15:53	2
Chloroform	ND		2.0		ug/L			07/07/16 15:53	2
Chloromethane	ND		4.0		ug/L			07/07/16 15:53	2
cis-1,2-Dichloroethene	58		2.0		ug/L			07/07/16 15:53	2
cis-1,3-Dichloropropene	ND		0.80		ug/L			07/07/16 15:53	2
Dichlorobromomethane	ND		1.0		ug/L			07/07/16 15:53	2
Dichlorodifluoromethane	ND *		2.0		ug/L			07/07/16 15:53	2
Ethyl ether	ND		2.0		ug/L			07/07/16 15:53	2
Ethylbenzene	ND		2.0		ug/L			07/07/16 15:53	2
Ethylene Dibromide	ND		2.0		ug/L			07/07/16 15:53	2
Hexachlorobutadiene	ND		0.80		ug/L			07/07/16 15:53	2
Isopropyl ether	ND		20		ug/L			07/07/16 15:53	2

TestAmerica Buffalo

Client Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-102681-1

Client Sample ID: REW-12-20160706

Lab Sample ID: 480-102681-6

Date Collected: 07/06/16 08:05

Matrix: Water

Date Received: 07/07/16 02:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	ND		2.0		ug/L			07/07/16 15:53	2
Methyl tert-butyl ether	ND		2.0		ug/L			07/07/16 15:53	2
Methylene Chloride	ND		2.0		ug/L			07/07/16 15:53	2
m-Xylene & p-Xylene	ND		4.0		ug/L			07/07/16 15:53	2
Naphthalene	ND		10		ug/L			07/07/16 15:53	2
n-Butylbenzene	ND		2.0		ug/L			07/07/16 15:53	2
N-Propylbenzene	ND		2.0		ug/L			07/07/16 15:53	2
o-Xylene	ND		2.0		ug/L			07/07/16 15:53	2
sec-Butylbenzene	ND		2.0		ug/L			07/07/16 15:53	2
Styrene	ND		2.0		ug/L			07/07/16 15:53	2
Tert-amyl methyl ether	ND		10		ug/L			07/07/16 15:53	2
Tert-butyl ethyl ether	ND		10		ug/L			07/07/16 15:53	2
tert-Butylbenzene	ND		2.0		ug/L			07/07/16 15:53	2
Tetrachloroethene	ND		2.0		ug/L			07/07/16 15:53	2
Tetrahydrofuran	ND		20		ug/L			07/07/16 15:53	2
Toluene	33		2.0		ug/L			07/07/16 15:53	2
trans-1,2-Dichloroethene	ND		2.0		ug/L			07/07/16 15:53	2
trans-1,3-Dichloropropene	ND		0.80		ug/L			07/07/16 15:53	2
Trichloroethene	5.9		2.0		ug/L			07/07/16 15:53	2
Trichlorofluoromethane	ND		2.0		ug/L			07/07/16 15:53	2
Vinyl chloride	21		2.0		ug/L			07/07/16 15:53	2
Dibromomethane	ND		2.0		ug/L			07/07/16 15:53	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	90		70 - 130		07/07/16 15:53	2
1,2-Dichloroethane-d4 (Surr)	110		70 - 130		07/07/16 15:53	2
4-Bromofluorobenzene (Surr)	90		70 - 130		07/07/16 15:53	2

Method: 6010 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	99		0.050		mg/L		07/07/16 08:55	07/07/16 20:56	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	40		2.5		mg/L			07/08/16 15:48	5
Sulfate	15		10		mg/L			07/08/16 15:48	5
Ammonia	0.45		0.20		mg/L		07/07/16 20:52	07/08/16 17:43	1
Nitrate as N	ND		0.050		mg/L			07/07/16 11:00	1
TOC Result 1	150		5.0		mg/L			07/11/16 16:24	5
TOC Result 2	160		5.0		mg/L			07/11/16 16:24	5
Total Organic Carbon - Duplicates	160		5.0		mg/L			07/11/16 16:24	5
Alkalinity, Total	200		5.0		mg/L			07/07/16 18:31	1
ortho-Phosphate	0.15		0.020		mg/L			07/07/16 11:15	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.65	HF	0.100		SU			07/07/16 12:07	1

TestAmerica Buffalo

Client Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-102681-1

Client Sample ID: DUP2-20160706

Lab Sample ID: 480-102681-7

Date Collected: 07/06/16 00:00

Matrix: Water

Date Received: 07/07/16 02:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			07/07/16 20:28	1
1,1,1-Trichloroethane	ND		1.0		ug/L			07/07/16 20:28	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			07/07/16 20:28	1
1,1,2-Trichloroethane	ND		1.0		ug/L			07/07/16 20:28	1
1,1-Dichloroethane	ND		1.0		ug/L			07/07/16 20:28	1
1,1-Dichloroethene	ND		1.0		ug/L			07/07/16 20:28	1
1,1-Dichloropropene	ND		1.0		ug/L			07/07/16 20:28	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			07/07/16 20:28	1
1,2,3-Trichloropropane	ND		1.0		ug/L			07/07/16 20:28	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			07/07/16 20:28	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			07/07/16 20:28	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			07/07/16 20:28	1
1,2-Dichlorobenzene	ND		1.0		ug/L			07/07/16 20:28	1
1,2-Dichloroethane	ND		1.0		ug/L			07/07/16 20:28	1
1,2-Dichloropropane	ND		1.0		ug/L			07/07/16 20:28	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			07/07/16 20:28	1
1,3-Dichlorobenzene	ND		1.0		ug/L			07/07/16 20:28	1
1,3-Dichloropropane	ND		1.0		ug/L			07/07/16 20:28	1
1,4-Dichlorobenzene	ND		1.0		ug/L			07/07/16 20:28	1
1,4-Dioxane	ND		50		ug/L			07/07/16 20:28	1
2,2-Dichloropropane	ND		1.0		ug/L			07/07/16 20:28	1
2-Butanone (MEK)	70		10		ug/L			07/07/16 20:28	1
2-Chlorotoluene	ND		1.0		ug/L			07/07/16 20:28	1
2-Hexanone	ND *		10		ug/L			07/07/16 20:28	1
4-Chlorotoluene	ND		1.0		ug/L			07/07/16 20:28	1
4-Isopropyltoluene	ND		1.0		ug/L			07/07/16 20:28	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			07/07/16 20:28	1
Acetone	ND		50		ug/L			07/07/16 20:28	1
Benzene	ND		1.0		ug/L			07/07/16 20:28	1
Bromobenzene	ND		1.0		ug/L			07/07/16 20:28	1
Bromoform	ND		1.0		ug/L			07/07/16 20:28	1
Bromomethane	ND		2.0		ug/L			07/07/16 20:28	1
Carbon disulfide	ND		10		ug/L			07/07/16 20:28	1
Carbon tetrachloride	ND		1.0		ug/L			07/07/16 20:28	1
Chlorobenzene	ND		1.0		ug/L			07/07/16 20:28	1
Chlorobromomethane	ND		1.0		ug/L			07/07/16 20:28	1
Chlorodibromomethane	ND		0.50		ug/L			07/07/16 20:28	1
Chloroethane	ND		2.0		ug/L			07/07/16 20:28	1
Chloroform	ND		1.0		ug/L			07/07/16 20:28	1
Chloromethane	ND		2.0		ug/L			07/07/16 20:28	1
cis-1,2-Dichloroethene	29		1.0		ug/L			07/07/16 20:28	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			07/07/16 20:28	1
Dichlorobromomethane	ND		0.50		ug/L			07/07/16 20:28	1
Dichlorodifluoromethane	ND *		1.0		ug/L			07/07/16 20:28	1
Ethyl ether	ND		1.0		ug/L			07/07/16 20:28	1
Ethylbenzene	ND		1.0		ug/L			07/07/16 20:28	1
Ethylene Dibromide	ND		1.0		ug/L			07/07/16 20:28	1
Hexachlorobutadiene	ND		0.40		ug/L			07/07/16 20:28	1
Isopropyl ether	ND		10		ug/L			07/07/16 20:28	1

TestAmerica Buffalo

Client Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-102681-1

Client Sample ID: DUP2-20160706

Lab Sample ID: 480-102681-7

Date Collected: 07/06/16 00:00

Matrix: Water

Date Received: 07/07/16 02:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	ND		1.0		ug/L			07/07/16 20:28	1
Methyl tert-butyl ether	ND		1.0		ug/L			07/07/16 20:28	1
Methylene Chloride	ND		1.0		ug/L			07/07/16 20:28	1
m-Xylene & p-Xylene	2.0		2.0		ug/L			07/07/16 20:28	1
Naphthalene	ND		5.0		ug/L			07/07/16 20:28	1
n-Butylbenzene	ND		1.0		ug/L			07/07/16 20:28	1
N-Propylbenzene	ND		1.0		ug/L			07/07/16 20:28	1
o-Xylene	ND		1.0		ug/L			07/07/16 20:28	1
sec-Butylbenzene	ND		1.0		ug/L			07/07/16 20:28	1
Styrene	ND		1.0		ug/L			07/07/16 20:28	1
Tert-amyl methyl ether	ND		5.0		ug/L			07/07/16 20:28	1
Tert-butyl ethyl ether	ND		5.0		ug/L			07/07/16 20:28	1
tert-Butylbenzene	ND		1.0		ug/L			07/07/16 20:28	1
Tetrachloroethene	ND		1.0		ug/L			07/07/16 20:28	1
Tetrahydrofuran	ND		10		ug/L			07/07/16 20:28	1
Toluene	77		1.0		ug/L			07/07/16 20:28	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			07/07/16 20:28	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			07/07/16 20:28	1
Trichloroethene	ND		1.0		ug/L			07/07/16 20:28	1
Trichlorofluoromethane	ND		1.0		ug/L			07/07/16 20:28	1
Vinyl chloride	20		1.0		ug/L			07/07/16 20:28	1
Dibromomethane	ND		1.0		ug/L			07/07/16 20:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>Toluene-d8 (Surr)</i>	91		70 - 130		07/07/16 20:28	1
<i>1,2-Dichloroethane-d4 (Surr)</i>	101		70 - 130		07/07/16 20:28	1
<i>4-Bromofluorobenzene (Surr)</i>	93		70 - 130		07/07/16 20:28	1

Client Sample ID: TRIP BLANKS

Lab Sample ID: 480-102681-8

Date Collected: 07/06/16 00:00

Matrix: Water

Date Received: 07/07/16 02:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			07/07/16 11:43	1
1,1,1-Trichloroethane	ND		1.0		ug/L			07/07/16 11:43	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			07/07/16 11:43	1
1,1,2-Trichloroethane	ND		1.0		ug/L			07/07/16 11:43	1
1,1-Dichloroethane	ND		1.0		ug/L			07/07/16 11:43	1
1,1-Dichloroethene	ND		1.0		ug/L			07/07/16 11:43	1
1,1-Dichloropropene	ND		1.0		ug/L			07/07/16 11:43	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			07/07/16 11:43	1
1,2,3-Trichloropropane	ND		1.0		ug/L			07/07/16 11:43	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			07/07/16 11:43	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			07/07/16 11:43	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			07/07/16 11:43	1
1,2-Dichlorobenzene	ND		1.0		ug/L			07/07/16 11:43	1
1,2-Dichloroethane	ND		1.0		ug/L			07/07/16 11:43	1
1,2-Dichloropropane	ND		1.0		ug/L			07/07/16 11:43	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			07/07/16 11:43	1

TestAmerica Buffalo

Client Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-102681-1

Client Sample ID: TRIP BLANKS

Lab Sample ID: 480-102681-8

Date Collected: 07/06/16 00:00

Matrix: Water

Date Received: 07/07/16 02:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	ND		1.0		ug/L			07/07/16 11:43	1
1,3-Dichloropropane	ND		1.0		ug/L			07/07/16 11:43	1
1,4-Dichlorobenzene	ND		1.0		ug/L			07/07/16 11:43	1
1,4-Dioxane	ND		50		ug/L			07/07/16 11:43	1
2,2-Dichloropropane	ND		1.0		ug/L			07/07/16 11:43	1
2-Butanone (MEK)	ND		10		ug/L			07/07/16 11:43	1
2-Chlorotoluene	ND		1.0		ug/L			07/07/16 11:43	1
2-Hexanone	ND	*	10		ug/L			07/07/16 11:43	1
4-Chlorotoluene	ND		1.0		ug/L			07/07/16 11:43	1
4-Isopropyltoluene	ND		1.0		ug/L			07/07/16 11:43	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			07/07/16 11:43	1
Acetone	ND		50		ug/L			07/07/16 11:43	1
Benzene	ND		1.0		ug/L			07/07/16 11:43	1
Bromobenzene	ND		1.0		ug/L			07/07/16 11:43	1
Bromoform	ND		1.0		ug/L			07/07/16 11:43	1
Bromomethane	ND		2.0		ug/L			07/07/16 11:43	1
Carbon disulfide	ND	*	10		ug/L			07/07/16 11:43	1
Carbon tetrachloride	ND		1.0		ug/L			07/07/16 11:43	1
Chlorobenzene	ND		1.0		ug/L			07/07/16 11:43	1
Chlorobromomethane	ND		1.0		ug/L			07/07/16 11:43	1
Chlorodibromomethane	ND		0.50		ug/L			07/07/16 11:43	1
Chloroethane	ND		2.0		ug/L			07/07/16 11:43	1
Chloroform	ND		1.0		ug/L			07/07/16 11:43	1
Chloromethane	ND		2.0		ug/L			07/07/16 11:43	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			07/07/16 11:43	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			07/07/16 11:43	1
Dichlorobromomethane	ND		0.50		ug/L			07/07/16 11:43	1
Dichlorodifluoromethane	ND	*	1.0		ug/L			07/07/16 11:43	1
Ethyl ether	ND		1.0		ug/L			07/07/16 11:43	1
Ethylbenzene	ND		1.0		ug/L			07/07/16 11:43	1
Ethylene Dibromide	ND		1.0		ug/L			07/07/16 11:43	1
Hexachlorobutadiene	ND		0.40		ug/L			07/07/16 11:43	1
Isopropyl ether	ND		10		ug/L			07/07/16 11:43	1
Isopropylbenzene	ND		1.0		ug/L			07/07/16 11:43	1
Methyl tert-butyl ether	ND		1.0		ug/L			07/07/16 11:43	1
Methylene Chloride	ND		1.0		ug/L			07/07/16 11:43	1
m-Xylene & p-Xylene	ND		2.0		ug/L			07/07/16 11:43	1
Naphthalene	ND		5.0		ug/L			07/07/16 11:43	1
n-Butylbenzene	ND		1.0		ug/L			07/07/16 11:43	1
N-Propylbenzene	ND		1.0		ug/L			07/07/16 11:43	1
o-Xylene	ND		1.0		ug/L			07/07/16 11:43	1
sec-Butylbenzene	ND		1.0		ug/L			07/07/16 11:43	1
Styrene	ND		1.0		ug/L			07/07/16 11:43	1
Tert-amyl methyl ether	ND		5.0		ug/L			07/07/16 11:43	1
Tert-butyl ethyl ether	ND		5.0		ug/L			07/07/16 11:43	1
tert-Butylbenzene	ND		1.0		ug/L			07/07/16 11:43	1
Tetrachloroethene	ND		1.0		ug/L			07/07/16 11:43	1
Tetrahydrofuran	ND		10		ug/L			07/07/16 11:43	1
Toluene	ND		1.0		ug/L			07/07/16 11:43	1

TestAmerica Buffalo

Client Sample Results

Client: Innovative Engineering Solutions, Inc
 Project/Site: IDS Wayland

TestAmerica Job ID: 480-102681-1

Client Sample ID: TRIP BLANKS

Lab Sample ID: 480-102681-8

Date Collected: 07/06/16 00:00

Matrix: Water

Date Received: 07/07/16 02:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	ND		1.0		ug/L			07/07/16 11:43	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			07/07/16 11:43	1
Trichloroethene	ND		1.0		ug/L			07/07/16 11:43	1
Trichlorofluoromethane	ND		1.0		ug/L			07/07/16 11:43	1
Vinyl chloride	ND		1.0		ug/L			07/07/16 11:43	1
Dibromomethane	ND		1.0		ug/L			07/07/16 11:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	92		70 - 130		07/07/16 11:43	1
1,2-Dichloroethane-d4 (Surr)	105		70 - 130		07/07/16 11:43	1
4-Bromofluorobenzene (Surr)	90		70 - 130		07/07/16 11:43	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15

Surrogate Summary

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-102681-1

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

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	TOL	12DCE	BFB
		(70-130)	(70-130)	(70-130)
480-102681-1	MW-265M-20160706	96	110	91
480-102681-2	MW-562-20160706	93	107	91
480-102681-3	REW-7-20160706	92	100	93
480-102681-4	REW-8-20160706	91	105	88
480-102681-5	REW-11-20160706	92	107	90
480-102681-6	REW-12-20160706	90	110	90
480-102681-7	DUP2-20160706	91	101	93
480-102681-8	TRIP BLANKS	92	105	90
LCS 480-309992/5	Lab Control Sample	96	98	98
LCS 480-310121/5	Lab Control Sample	93	92	95
LCSD 480-309992/6	Lab Control Sample Dup	95	85	99
LCSD 480-310121/8	Lab Control Sample Dup	93	84	97
MB 480-309992/8	Method Blank	91	105	89
MB 480-310121/7	Method Blank	94	100	91

Surrogate Legend

TOL = Toluene-d8 (Surr)

12DCE = 1,2-Dichloroethane-d4 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

QC Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-102681-1

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

Lab Sample ID: MB 480-309992/8

Matrix: Water

Analysis Batch: 309992

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			07/07/16 11:17	1
1,1,1-Trichloroethane	ND		1.0		ug/L			07/07/16 11:17	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			07/07/16 11:17	1
1,1,2-Trichloroethane	ND		1.0		ug/L			07/07/16 11:17	1
1,1-Dichloroethane	ND		1.0		ug/L			07/07/16 11:17	1
1,1-Dichloroethene	ND		1.0		ug/L			07/07/16 11:17	1
1,1-Dichloropropene	ND		1.0		ug/L			07/07/16 11:17	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			07/07/16 11:17	1
1,2,3-Trichloropropane	ND		1.0		ug/L			07/07/16 11:17	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			07/07/16 11:17	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			07/07/16 11:17	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			07/07/16 11:17	1
1,2-Dichlorobenzene	ND		1.0		ug/L			07/07/16 11:17	1
1,2-Dichloroethane	ND		1.0		ug/L			07/07/16 11:17	1
1,2-Dichloropropane	ND		1.0		ug/L			07/07/16 11:17	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			07/07/16 11:17	1
1,3-Dichlorobenzene	ND		1.0		ug/L			07/07/16 11:17	1
1,3-Dichloropropane	ND		1.0		ug/L			07/07/16 11:17	1
1,4-Dichlorobenzene	ND		1.0		ug/L			07/07/16 11:17	1
1,4-Dioxane	ND		50		ug/L			07/07/16 11:17	1
2,2-Dichloropropane	ND		1.0		ug/L			07/07/16 11:17	1
2-Butanone (MEK)	ND		10		ug/L			07/07/16 11:17	1
2-Chlorotoluene	ND		1.0		ug/L			07/07/16 11:17	1
2-Hexanone	ND		10		ug/L			07/07/16 11:17	1
4-Chlorotoluene	ND		1.0		ug/L			07/07/16 11:17	1
4-Isopropyltoluene	ND		1.0		ug/L			07/07/16 11:17	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			07/07/16 11:17	1
Acetone	ND		50		ug/L			07/07/16 11:17	1
Benzene	ND		1.0		ug/L			07/07/16 11:17	1
Bromobenzene	ND		1.0		ug/L			07/07/16 11:17	1
Bromoform	ND		1.0		ug/L			07/07/16 11:17	1
Bromomethane	ND		2.0		ug/L			07/07/16 11:17	1
Carbon disulfide	ND		10		ug/L			07/07/16 11:17	1
Carbon tetrachloride	ND		1.0		ug/L			07/07/16 11:17	1
Chlorobenzene	ND		1.0		ug/L			07/07/16 11:17	1
Chlorobromomethane	ND		1.0		ug/L			07/07/16 11:17	1
Chlorodibromomethane	ND		0.50		ug/L			07/07/16 11:17	1
Chloroethane	ND		2.0		ug/L			07/07/16 11:17	1
Chloroform	ND		1.0		ug/L			07/07/16 11:17	1
Chloromethane	ND		2.0		ug/L			07/07/16 11:17	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			07/07/16 11:17	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			07/07/16 11:17	1
Dichlorobromomethane	ND		0.50		ug/L			07/07/16 11:17	1
Dichlorodifluoromethane	ND		1.0		ug/L			07/07/16 11:17	1
Ethyl ether	ND		1.0		ug/L			07/07/16 11:17	1
Ethylbenzene	ND		1.0		ug/L			07/07/16 11:17	1
Ethylene Dibromide	ND		1.0		ug/L			07/07/16 11:17	1
Hexachlorobutadiene	ND		0.40		ug/L			07/07/16 11:17	1

TestAmerica Buffalo

QC Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-102681-1

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

Lab Sample ID: MB 480-309992/8
Matrix: Water
Analysis Batch: 309992

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropyl ether	ND		10		ug/L			07/07/16 11:17	1
Isopropylbenzene	ND		1.0		ug/L			07/07/16 11:17	1
Methyl tert-butyl ether	ND		1.0		ug/L			07/07/16 11:17	1
Methylene Chloride	ND		1.0		ug/L			07/07/16 11:17	1
m-Xylene & p-Xylene	ND		2.0		ug/L			07/07/16 11:17	1
Naphthalene	ND		5.0		ug/L			07/07/16 11:17	1
n-Butylbenzene	ND		1.0		ug/L			07/07/16 11:17	1
N-Propylbenzene	ND		1.0		ug/L			07/07/16 11:17	1
o-Xylene	ND		1.0		ug/L			07/07/16 11:17	1
sec-Butylbenzene	ND		1.0		ug/L			07/07/16 11:17	1
Styrene	ND		1.0		ug/L			07/07/16 11:17	1
Tert-amyl methyl ether	ND		5.0		ug/L			07/07/16 11:17	1
Tert-butyl ethyl ether	ND		5.0		ug/L			07/07/16 11:17	1
tert-Butylbenzene	ND		1.0		ug/L			07/07/16 11:17	1
Tetrachloroethene	ND		1.0		ug/L			07/07/16 11:17	1
Tetrahydrofuran	ND		10		ug/L			07/07/16 11:17	1
Toluene	ND		1.0		ug/L			07/07/16 11:17	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			07/07/16 11:17	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			07/07/16 11:17	1
Trichloroethene	ND		1.0		ug/L			07/07/16 11:17	1
Trichlorofluoromethane	ND		1.0		ug/L			07/07/16 11:17	1
Vinyl chloride	ND		1.0		ug/L			07/07/16 11:17	1
Dibromomethane	ND		1.0		ug/L			07/07/16 11:17	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	91		70 - 130		07/07/16 11:17	1
1,2-Dichloroethane-d4 (Surr)	105		70 - 130		07/07/16 11:17	1
4-Bromofluorobenzene (Surr)	89		70 - 130		07/07/16 11:17	1

Lab Sample ID: LCS 480-309992/5
Matrix: Water
Analysis Batch: 309992

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	25.0	24.5		ug/L		98	70 - 130
1,1,1-Trichloroethane	25.0	21.5		ug/L		86	70 - 130
1,1,2,2-Tetrachloroethane	25.0	23.9		ug/L		96	70 - 130
1,1,2-Trichloroethane	25.0	23.9		ug/L		96	70 - 130
1,1-Dichloroethane	25.0	22.7		ug/L		91	70 - 130
1,1-Dichloroethene	25.0	22.2		ug/L		89	70 - 130
1,1-Dichloropropene	25.0	23.5		ug/L		94	70 - 130
1,2,3-Trichlorobenzene	25.0	24.5		ug/L		98	70 - 130
1,2,3-Trichloropropane	25.0	24.8		ug/L		99	70 - 130
1,2,4-Trichlorobenzene	25.0	24.2		ug/L		97	70 - 130
1,2,4-Trimethylbenzene	25.0	27.0		ug/L		108	70 - 130
1,2-Dibromo-3-Chloropropane	25.0	23.0		ug/L		92	70 - 130
1,2-Dichlorobenzene	25.0	23.3		ug/L		93	70 - 130
1,2-Dichloroethane	25.0	21.0		ug/L		84	70 - 130

TestAmerica Buffalo

QC Sample Results

Client: Innovative Engineering Solutions, Inc
 Project/Site: IDS Wayland

TestAmerica Job ID: 480-102681-1

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

Lab Sample ID: LCS 480-309992/5

Matrix: Water

Analysis Batch: 309992

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichloropropane	25.0	23.1		ug/L		92	70 - 130
1,3,5-Trimethylbenzene	25.0	25.9		ug/L		104	70 - 130
1,3-Dichlorobenzene	25.0	23.6		ug/L		94	70 - 130
1,3-Dichloropropane	25.0	24.1		ug/L		96	70 - 130
1,4-Dichlorobenzene	25.0	23.2		ug/L		93	70 - 130
1,4-Dioxane	500	449		ug/L		90	70 - 130
2,2-Dichloropropane	25.0	21.1		ug/L		85	70 - 130
2-Butanone (MEK)	125	127		ug/L		101	70 - 130
2-Chlorotoluene	25.0	27.2		ug/L		109	70 - 130
2-Hexanone	125	192	*	ug/L		154	70 - 130
4-Chlorotoluene	25.0	25.6		ug/L		103	70 - 130
4-Isopropyltoluene	25.0	27.1		ug/L		109	70 - 130
4-Methyl-2-pentanone (MIBK)	125	128		ug/L		102	70 - 130
Acetone	125	122		ug/L		98	70 - 130
Benzene	25.0	22.4		ug/L		90	70 - 130
Bromobenzene	25.0	23.3		ug/L		93	70 - 130
Bromoform	25.0	26.3		ug/L		105	70 - 130
Bromomethane	25.0	22.7		ug/L		91	70 - 130
Carbon disulfide	25.0	16.4	*	ug/L		66	70 - 130
Carbon tetrachloride	25.0	22.7		ug/L		91	70 - 130
Chlorobenzene	25.0	23.8		ug/L		95	70 - 130
Chlorobromomethane	25.0	21.2		ug/L		85	70 - 130
Chlorodibromomethane	25.0	24.8		ug/L		99	70 - 130
Chloroethane	25.0	23.7		ug/L		95	70 - 130
Chloroform	25.0	21.5		ug/L		86	70 - 130
Chloromethane	25.0	20.6		ug/L		82	70 - 130
cis-1,2-Dichloroethene	25.0	22.2		ug/L		89	70 - 130
cis-1,3-Dichloropropene	25.0	24.3		ug/L		97	70 - 130
Dichlorobromomethane	25.0	22.7		ug/L		91	70 - 130
Dichlorodifluoromethane	25.0	20.3		ug/L		81	70 - 130
Ethyl ether	25.0	22.2		ug/L		89	70 - 130
Ethylbenzene	25.0	25.5		ug/L		102	70 - 130
Ethylene Dibromide	25.0	23.6		ug/L		94	70 - 130
Hexachlorobutadiene	25.0	24.5		ug/L		98	70 - 130
Isopropyl ether	25.0	25.6		ug/L		102	70 - 130
Isopropylbenzene	25.0	25.7		ug/L		103	70 - 130
Methyl tert-butyl ether	25.0	21.8		ug/L		87	70 - 130
Methylene Chloride	25.0	23.8		ug/L		95	70 - 130
m-Xylene & p-Xylene	25.0	26.1		ug/L		104	70 - 130
Naphthalene	25.0	21.2		ug/L		85	70 - 130
n-Butylbenzene	25.0	26.9		ug/L		108	70 - 130
N-Propylbenzene	25.0	25.5		ug/L		102	70 - 130
o-Xylene	25.0	26.1		ug/L		105	70 - 130
sec-Butylbenzene	25.0	26.0		ug/L		104	70 - 130
Styrene	25.0	27.2		ug/L		109	70 - 130
Tert-amyl methyl ether	25.0	27.3		ug/L		109	70 - 130
Tert-butyl ethyl ether	25.0	24.8		ug/L		99	70 - 130
tert-Butylbenzene	25.0	25.4		ug/L		101	70 - 130

TestAmerica Buffalo

QC Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-102681-1

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

Lab Sample ID: LCS 480-309992/5

Matrix: Water

Analysis Batch: 309992

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Tetrachloroethene	25.0	24.7		ug/L		99	70 - 130
Tetrahydrofuran	50.0	47.3		ug/L		95	70 - 130
Toluene	25.0	25.0		ug/L		100	70 - 130
trans-1,2-Dichloroethene	25.0	22.5		ug/L		90	70 - 130
trans-1,3-Dichloropropene	25.0	25.7		ug/L		103	70 - 130
Trichloroethene	25.0	23.4		ug/L		93	70 - 130
Trichlorofluoromethane	25.0	22.9		ug/L		91	70 - 130
Vinyl chloride	25.0	21.3		ug/L		85	70 - 130
Dibromomethane	25.0	21.9		ug/L		88	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Toluene-d8 (Surr)	96		70 - 130
1,2-Dichloroethane-d4 (Surr)	98		70 - 130
4-Bromofluorobenzene (Surr)	98		70 - 130

Lab Sample ID: LCSD 480-309992/6

Matrix: Water

Analysis Batch: 309992

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	25.0	24.0		ug/L		96	70 - 130	2	20
1,1,1-Trichloroethane	25.0	19.6		ug/L		78	70 - 130	9	20
1,1,1,2,2-Tetrachloroethane	25.0	24.5		ug/L		98	70 - 130	3	20
1,1,2-Trichloroethane	25.0	23.3		ug/L		93	70 - 130	3	20
1,1-Dichloroethane	25.0	20.8		ug/L		83	70 - 130	9	20
1,1-Dichloroethene	25.0	19.7		ug/L		79	70 - 130	12	20
1,1-Dichloropropene	25.0	21.4		ug/L		86	70 - 130	9	20
1,2,3-Trichlorobenzene	25.0	24.9		ug/L		99	70 - 130	2	20
1,2,3-Trichloropropane	25.0	25.9		ug/L		103	70 - 130	4	20
1,2,4-Trichlorobenzene	25.0	25.5		ug/L		102	70 - 130	5	20
1,2,4-Trimethylbenzene	25.0	27.0		ug/L		108	70 - 130	0	20
1,2-Dibromo-3-Chloropropane	25.0	23.0		ug/L		92	70 - 130	0	20
1,2-Dichlorobenzene	25.0	23.4		ug/L		94	70 - 130	0	20
1,2-Dichloroethane	25.0	19.6		ug/L		78	70 - 130	7	20
1,2-Dichloropropane	25.0	21.5		ug/L		86	70 - 130	7	20
1,3,5-Trimethylbenzene	25.0	26.0		ug/L		104	70 - 130	0	20
1,3-Dichlorobenzene	25.0	23.7		ug/L		95	70 - 130	0	20
1,3-Dichloropropane	25.0	23.5		ug/L		94	70 - 130	2	20
1,4-Dichlorobenzene	25.0	23.4		ug/L		94	70 - 130	1	20
1,4-Dioxane	500	463		ug/L		93	70 - 130	3	20
2,2-Dichloropropane	25.0	19.2		ug/L		77	70 - 130	9	20
2-Butanone (MEK)	125	118		ug/L		95	70 - 130	7	20
2-Chlorotoluene	25.0	26.9		ug/L		108	70 - 130	1	20
2-Hexanone	125	190 *		ug/L		152	70 - 130	1	20
4-Chlorotoluene	25.0	25.2		ug/L		101	70 - 130	2	20
4-Isopropyltoluene	25.0	26.8		ug/L		107	70 - 130	1	20
4-Methyl-2-pentanone (MIBK)	125	127		ug/L		101	70 - 130	1	20
Acetone	125	114		ug/L		91	70 - 130	7	20

TestAmerica Buffalo

QC Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-102681-1

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

Lab Sample ID: LCSD 480-309992/6

Client Sample ID: Lab Control Sample Dup

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 309992

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	25.0	20.8		ug/L		83	70 - 130	8	20
Bromobenzene	25.0	23.4		ug/L		94	70 - 130	0	20
Bromoform	25.0	25.5		ug/L		102	70 - 130	3	20
Bromomethane	25.0	20.7		ug/L		83	70 - 130	9	20
Carbon disulfide	25.0	15.2	*	ug/L		61	70 - 130	8	20
Carbon tetrachloride	25.0	20.3		ug/L		81	70 - 130	11	20
Chlorobenzene	25.0	23.0		ug/L		92	70 - 130	4	20
Chlorobromomethane	25.0	19.9		ug/L		80	70 - 130	6	20
Chlorodibromomethane	25.0	24.6		ug/L		98	70 - 130	1	20
Chloroethane	25.0	21.5		ug/L		86	70 - 130	10	20
Chloroform	25.0	19.8		ug/L		79	70 - 130	8	20
Chloromethane	25.0	18.0		ug/L		72	70 - 130	13	20
cis-1,2-Dichloroethene	25.0	20.4		ug/L		82	70 - 130	8	20
cis-1,3-Dichloropropene	25.0	23.7		ug/L		95	70 - 130	2	20
Dichlorobromomethane	25.0	21.3		ug/L		85	70 - 130	6	20
Dichlorodifluoromethane	25.0	16.8	*	ug/L		67	70 - 130	19	20
Ethyl ether	25.0	21.7		ug/L		87	70 - 130	2	20
Ethylbenzene	25.0	24.0		ug/L		96	70 - 130	6	20
Ethylene Dibromide	25.0	23.5		ug/L		94	70 - 130	0	20
Hexachlorobutadiene	25.0	24.3		ug/L		97	70 - 130	1	20
Isopropyl ether	25.0	24.2		ug/L		97	70 - 130	5	20
Isopropylbenzene	25.0	25.5		ug/L		102	70 - 130	1	20
Methyl tert-butyl ether	25.0	21.1		ug/L		84	70 - 130	3	20
Methylene Chloride	25.0	22.1		ug/L		88	70 - 130	7	20
m-Xylene & p-Xylene	25.0	24.6		ug/L		99	70 - 130	6	20
Naphthalene	25.0	22.3		ug/L		89	70 - 130	5	20
n-Butylbenzene	25.0	26.2		ug/L		105	70 - 130	3	20
N-Propylbenzene	25.0	25.1		ug/L		101	70 - 130	2	20
o-Xylene	25.0	25.0		ug/L		100	70 - 130	5	20
sec-Butylbenzene	25.0	25.5		ug/L		102	70 - 130	2	20
Styrene	25.0	26.3		ug/L		105	70 - 130	3	20
Tert-amyl methyl ether	25.0	26.2		ug/L		105	70 - 130	4	20
Tert-butyl ethyl ether	25.0	24.0		ug/L		96	70 - 130	3	20
tert-Butylbenzene	25.0	25.2		ug/L		101	70 - 130	0	20
Tetrachloroethene	25.0	22.9		ug/L		91	70 - 130	8	20
Tetrahydrofuran	50.0	43.5		ug/L		87	70 - 130	8	20
Toluene	25.0	23.5		ug/L		94	70 - 130	6	20
trans-1,2-Dichloroethene	25.0	20.7		ug/L		83	70 - 130	9	20
trans-1,3-Dichloropropene	25.0	25.3		ug/L		101	70 - 130	1	20
Trichloroethene	25.0	21.9		ug/L		87	70 - 130	7	20
Trichlorofluoromethane	25.0	20.7		ug/L		83	70 - 130	10	20
Vinyl chloride	25.0	19.1		ug/L		76	70 - 130	11	20
Dibromomethane	25.0	20.8		ug/L		83	70 - 130	5	20

Surrogate	LCSD LCSD		Limits
	%Recovery	Qualifier	
Toluene-d8 (Surr)	95		70 - 130
1,2-Dichloroethane-d4 (Surr)	85		70 - 130
4-Bromofluorobenzene (Surr)	99		70 - 130

TestAmerica Buffalo

QC Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-102681-1

Lab Sample ID: MB 480-310121/7

Matrix: Water

Analysis Batch: 310121

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			07/07/16 19:22	1
1,1,1-Trichloroethane	ND		1.0		ug/L			07/07/16 19:22	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			07/07/16 19:22	1
1,1,2-Trichloroethane	ND		1.0		ug/L			07/07/16 19:22	1
1,1-Dichloroethane	ND		1.0		ug/L			07/07/16 19:22	1
1,1-Dichloroethene	ND		1.0		ug/L			07/07/16 19:22	1
1,1-Dichloropropene	ND		1.0		ug/L			07/07/16 19:22	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			07/07/16 19:22	1
1,2,3-Trichloropropane	ND		1.0		ug/L			07/07/16 19:22	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			07/07/16 19:22	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			07/07/16 19:22	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			07/07/16 19:22	1
1,2-Dichlorobenzene	ND		1.0		ug/L			07/07/16 19:22	1
1,2-Dichloroethane	ND		1.0		ug/L			07/07/16 19:22	1
1,2-Dichloropropane	ND		1.0		ug/L			07/07/16 19:22	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			07/07/16 19:22	1
1,3-Dichlorobenzene	ND		1.0		ug/L			07/07/16 19:22	1
1,3-Dichloropropane	ND		1.0		ug/L			07/07/16 19:22	1
1,4-Dichlorobenzene	ND		1.0		ug/L			07/07/16 19:22	1
1,4-Dioxane	ND		50		ug/L			07/07/16 19:22	1
2,2-Dichloropropane	ND		1.0		ug/L			07/07/16 19:22	1
2-Butanone (MEK)	ND		10		ug/L			07/07/16 19:22	1
2-Chlorotoluene	ND		1.0		ug/L			07/07/16 19:22	1
2-Hexanone	ND		10		ug/L			07/07/16 19:22	1
4-Chlorotoluene	ND		1.0		ug/L			07/07/16 19:22	1
4-Isopropyltoluene	ND		1.0		ug/L			07/07/16 19:22	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			07/07/16 19:22	1
Acetone	ND		50		ug/L			07/07/16 19:22	1
Benzene	ND		1.0		ug/L			07/07/16 19:22	1
Bromobenzene	ND		1.0		ug/L			07/07/16 19:22	1
Bromoform	ND		1.0		ug/L			07/07/16 19:22	1
Bromomethane	ND		2.0		ug/L			07/07/16 19:22	1
Carbon disulfide	ND		10		ug/L			07/07/16 19:22	1
Carbon tetrachloride	ND		1.0		ug/L			07/07/16 19:22	1
Chlorobenzene	ND		1.0		ug/L			07/07/16 19:22	1
Chlorobromomethane	ND		1.0		ug/L			07/07/16 19:22	1
Chlorodibromomethane	ND		0.50		ug/L			07/07/16 19:22	1
Chloroethane	ND		2.0		ug/L			07/07/16 19:22	1
Chloroform	ND		1.0		ug/L			07/07/16 19:22	1
Chloromethane	ND		2.0		ug/L			07/07/16 19:22	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			07/07/16 19:22	1
cis-1,3-Dichloropropane	ND		0.40		ug/L			07/07/16 19:22	1
Dichlorobromomethane	ND		0.50		ug/L			07/07/16 19:22	1
Dichlorodifluoromethane	ND		1.0		ug/L			07/07/16 19:22	1
Ethyl ether	ND		1.0		ug/L			07/07/16 19:22	1
Ethylbenzene	ND		1.0		ug/L			07/07/16 19:22	1
Ethylene Dibromide	ND		1.0		ug/L			07/07/16 19:22	1
Hexachlorobutadiene	ND		0.40		ug/L			07/07/16 19:22	1
Isopropyl ether	ND		10		ug/L			07/07/16 19:22	1
Isopropylbenzene	ND		1.0		ug/L			07/07/16 19:22	1

TestAmerica Buffalo

QC Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-102681-1

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

Lab Sample ID: MB 480-310121/7

Matrix: Water

Analysis Batch: 310121

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		1.0		ug/L			07/07/16 19:22	1
Methylene Chloride	ND		1.0		ug/L			07/07/16 19:22	1
m-Xylene & p-Xylene	ND		2.0		ug/L			07/07/16 19:22	1
Naphthalene	ND		5.0		ug/L			07/07/16 19:22	1
n-Butylbenzene	ND		1.0		ug/L			07/07/16 19:22	1
N-Propylbenzene	ND		1.0		ug/L			07/07/16 19:22	1
o-Xylene	ND		1.0		ug/L			07/07/16 19:22	1
sec-Butylbenzene	ND		1.0		ug/L			07/07/16 19:22	1
Styrene	ND		1.0		ug/L			07/07/16 19:22	1
Tert-amyl methyl ether	ND		5.0		ug/L			07/07/16 19:22	1
Tert-butyl ethyl ether	ND		5.0		ug/L			07/07/16 19:22	1
tert-Butylbenzene	ND		1.0		ug/L			07/07/16 19:22	1
Tetrachloroethene	ND		1.0		ug/L			07/07/16 19:22	1
Tetrahydrofuran	ND		10		ug/L			07/07/16 19:22	1
Toluene	ND		1.0		ug/L			07/07/16 19:22	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			07/07/16 19:22	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			07/07/16 19:22	1
Trichloroethene	ND		1.0		ug/L			07/07/16 19:22	1
Trichlorofluoromethane	ND		1.0		ug/L			07/07/16 19:22	1
Vinyl chloride	ND		1.0		ug/L			07/07/16 19:22	1
Dibromomethane	ND		1.0		ug/L			07/07/16 19:22	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	94		70 - 130		07/07/16 19:22	1
1,2-Dichloroethane-d4 (Surr)	100		70 - 130		07/07/16 19:22	1
4-Bromofluorobenzene (Surr)	91		70 - 130		07/07/16 19:22	1

Lab Sample ID: LCS 480-310121/5

Matrix: Water

Analysis Batch: 310121

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	25.0	22.9		ug/L		91	70 - 130
1,1,1-Trichloroethane	25.0	18.9		ug/L		75	70 - 130
1,1,1,2,2-Tetrachloroethane	25.0	23.8		ug/L		95	70 - 130
1,1,1,2-Trichloroethane	25.0	22.7		ug/L		91	70 - 130
1,1-Dichloroethane	25.0	20.2		ug/L		81	70 - 130
1,1-Dichloroethene	25.0	19.6		ug/L		78	70 - 130
1,1-Dichloropropene	25.0	20.5		ug/L		82	70 - 130
1,2,3-Trichlorobenzene	25.0	22.7		ug/L		91	70 - 130
1,2,3-Trichloropropane	25.0	24.4		ug/L		98	70 - 130
1,2,4-Trichlorobenzene	25.0	23.3		ug/L		93	70 - 130
1,2,4-Trimethylbenzene	25.0	25.6		ug/L		102	70 - 130
1,2-Dibromo-3-Chloropropane	25.0	21.7		ug/L		87	70 - 130
1,2-Dichlorobenzene	25.0	22.1		ug/L		88	70 - 130
1,2-Dichloroethane	25.0	19.0		ug/L		76	70 - 130
1,2-Dichloropropane	25.0	21.4		ug/L		85	70 - 130
1,3,5-Trimethylbenzene	25.0	24.3		ug/L		97	70 - 130

TestAmerica Buffalo

QC Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-102681-1

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

Lab Sample ID: LCS 480-310121/5

Matrix: Water

Analysis Batch: 310121

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,3-Dichlorobenzene	25.0	22.2		ug/L		89	70 - 130
1,3-Dichloropropane	25.0	22.4		ug/L		90	70 - 130
1,4-Dichlorobenzene	25.0	22.7		ug/L		91	70 - 130
1,4-Dioxane	500	380		ug/L		76	70 - 130
2,2-Dichloropropane	25.0	18.8		ug/L		75	70 - 130
2-Butanone (MEK)	125	124		ug/L		99	70 - 130
2-Chlorotoluene	25.0	24.8		ug/L		99	70 - 130
2-Hexanone	125	183	*	ug/L		147	70 - 130
4-Chlorotoluene	25.0	24.3		ug/L		97	70 - 130
4-Isopropyltoluene	25.0	25.0		ug/L		100	70 - 130
4-Methyl-2-pentanone (MIBK)	125	119		ug/L		95	70 - 130
Acetone	125	118		ug/L		94	70 - 130
Benzene	25.0	20.1		ug/L		80	70 - 130
Bromobenzene	25.0	22.3		ug/L		89	70 - 130
Bromoform	25.0	23.8		ug/L		95	70 - 130
Bromomethane	25.0	20.1		ug/L		80	70 - 130
Carbon disulfide	25.0	21.0		ug/L		84	70 - 130
Carbon tetrachloride	25.0	19.8		ug/L		79	70 - 130
Chlorobenzene	25.0	22.2		ug/L		89	70 - 130
Chlorobromomethane	25.0	19.4		ug/L		77	70 - 130
Chlorodibromomethane	25.0	23.3		ug/L		93	70 - 130
Chloroethane	25.0	20.5		ug/L		82	70 - 130
Chloroform	25.0	19.3		ug/L		77	70 - 130
Chloromethane	25.0	17.7		ug/L		71	70 - 130
cis-1,2-Dichloroethene	25.0	19.8		ug/L		79	70 - 130
cis-1,3-Dichloropropene	25.0	22.2		ug/L		89	70 - 130
Dichlorobromomethane	25.0	20.6		ug/L		82	70 - 130
Dichlorodifluoromethane	25.0	16.2	*	ug/L		65	70 - 130
Ethyl ether	25.0	20.3		ug/L		81	70 - 130
Ethylbenzene	25.0	22.8		ug/L		91	70 - 130
Ethylene Dibromide	25.0	22.3		ug/L		89	70 - 130
Hexachlorobutadiene	25.0	23.3		ug/L		93	70 - 130
Isopropyl ether	25.0	23.4		ug/L		94	70 - 130
Isopropylbenzene	25.0	23.9		ug/L		96	70 - 130
Methyl tert-butyl ether	25.0	19.6		ug/L		78	70 - 130
Methylene Chloride	25.0	20.9		ug/L		84	70 - 130
m-Xylene & p-Xylene	25.0	23.5		ug/L		94	70 - 130
Naphthalene	25.0	20.1		ug/L		80	70 - 130
n-Butylbenzene	25.0	24.7		ug/L		99	70 - 130
N-Propylbenzene	25.0	23.4		ug/L		93	70 - 130
o-Xylene	25.0	23.5		ug/L		94	70 - 130
sec-Butylbenzene	25.0	23.8		ug/L		95	70 - 130
Styrene	25.0	24.7		ug/L		99	70 - 130
Tert-amyl methyl ether	25.0	24.7		ug/L		99	70 - 130
Tert-butyl ethyl ether	25.0	22.6		ug/L		90	70 - 130
tert-Butylbenzene	25.0	23.4		ug/L		94	70 - 130
Tetrachloroethene	25.0	22.0		ug/L		88	70 - 130
Tetrahydrofuran	50.0	41.9		ug/L		84	70 - 130

TestAmerica Buffalo

QC Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-102681-1

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

Lab Sample ID: LCS 480-310121/5

Matrix: Water

Analysis Batch: 310121

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Toluene	25.0	22.6		ug/L		90	70 - 130
trans-1,2-Dichloroethene	25.0	19.6		ug/L		79	70 - 130
trans-1,3-Dichloropropene	25.0	23.4		ug/L		94	70 - 130
Trichloroethene	25.0	21.1		ug/L		84	70 - 130
Trichlorofluoromethane	25.0	20.3		ug/L		81	70 - 130
Vinyl chloride	25.0	19.7		ug/L		79	70 - 130
Dibromomethane	25.0	20.1		ug/L		80	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Toluene-d8 (Surr)	93		70 - 130
1,2-Dichloroethane-d4 (Surr)	92		70 - 130
4-Bromofluorobenzene (Surr)	95		70 - 130

Lab Sample ID: LCSD 480-310121/8

Matrix: Water

Analysis Batch: 310121

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	25.0	24.0		ug/L		96	70 - 130	5	20
1,1,1-Trichloroethane	25.0	19.3		ug/L		77	70 - 130	2	20
1,1,1,2,2-Tetrachloroethane	25.0	23.1		ug/L		92	70 - 130	3	20
1,1,2-Trichloroethane	25.0	22.9		ug/L		92	70 - 130	1	20
1,1-Dichloroethane	25.0	20.3		ug/L		81	70 - 130	1	20
1,1-Dichloroethene	25.0	19.4		ug/L		78	70 - 130	1	20
1,1-Dichloropropene	25.0	21.0		ug/L		84	70 - 130	2	20
1,2,3-Trichlorobenzene	25.0	23.8		ug/L		95	70 - 130	5	20
1,2,3-Trichloropropane	25.0	23.6		ug/L		94	70 - 130	3	20
1,2,4-Trichlorobenzene	25.0	24.5		ug/L		98	70 - 130	5	20
1,2,4-Trimethylbenzene	25.0	26.7		ug/L		107	70 - 130	4	20
1,2-Dibromo-3-Chloropropane	25.0	22.3		ug/L		89	70 - 130	3	20
1,2-Dichlorobenzene	25.0	22.6		ug/L		90	70 - 130	2	20
1,2-Dichloroethane	25.0	18.8		ug/L		75	70 - 130	1	20
1,2-Dichloropropane	25.0	20.9		ug/L		84	70 - 130	2	20
1,3,5-Trimethylbenzene	25.0	25.5		ug/L		102	70 - 130	5	20
1,3-Dichlorobenzene	25.0	23.2		ug/L		93	70 - 130	4	20
1,3-Dichloropropane	25.0	22.6		ug/L		90	70 - 130	1	20
1,4-Dichlorobenzene	25.0	22.6		ug/L		90	70 - 130	0	20
1,4-Dioxane	500	386		ug/L		77	70 - 130	1	20
2,2-Dichloropropane	25.0	19.0		ug/L		76	70 - 130	1	20
2-Butanone (MEK)	125	115		ug/L		92	70 - 130	7	20
2-Chlorotoluene	25.0	26.0		ug/L		104	70 - 130	5	20
2-Hexanone	125	181	*	ug/L		145	70 - 130	1	20
4-Chlorotoluene	25.0	25.0		ug/L		100	70 - 130	3	20
4-Isopropyltoluene	25.0	26.3		ug/L		105	70 - 130	5	20
4-Methyl-2-pentanone (MIBK)	125	122		ug/L		97	70 - 130	2	20
Acetone	125	111		ug/L		89	70 - 130	6	20
Benzene	25.0	20.4		ug/L		82	70 - 130	2	20
Bromobenzene	25.0	22.9		ug/L		92	70 - 130	3	20

TestAmerica Buffalo

QC Sample Results

Client: Innovative Engineering Solutions, Inc
 Project/Site: IDS Wayland

TestAmerica Job ID: 480-102681-1

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

Lab Sample ID: LCSD 480-310121/8

Matrix: Water

Analysis Batch: 310121

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Bromoform	25.0	24.1		ug/L		96	70 - 130	1	20
Bromomethane	25.0	20.4		ug/L		81	70 - 130	1	20
Carbon disulfide	25.0	21.8		ug/L		87	70 - 130	4	20
Carbon tetrachloride	25.0	20.5		ug/L		82	70 - 130	3	20
Chlorobenzene	25.0	22.5		ug/L		90	70 - 130	2	20
Chlorobromomethane	25.0	18.9		ug/L		76	70 - 130	2	20
Chlorodibromomethane	25.0	23.5		ug/L		94	70 - 130	1	20
Chloroethane	25.0	21.2		ug/L		85	70 - 130	3	20
Chloroform	25.0	19.3		ug/L		77	70 - 130	0	20
Chloromethane	25.0	17.9		ug/L		71	70 - 130	1	20
cis-1,2-Dichloroethene	25.0	19.9		ug/L		80	70 - 130	1	20
cis-1,3-Dichloropropene	25.0	22.2		ug/L		89	70 - 130	0	20
Dichlorobromomethane	25.0	20.7		ug/L		83	70 - 130	1	20
Dichlorodifluoromethane	25.0	15.9	*	ug/L		64	70 - 130	2	20
Ethyl ether	25.0	20.1		ug/L		80	70 - 130	1	20
Ethylbenzene	25.0	24.0		ug/L		96	70 - 130	5	20
Ethylene Dibromide	25.0	22.8		ug/L		91	70 - 130	2	20
Hexachlorobutadiene	25.0	24.5		ug/L		98	70 - 130	5	20
Isopropyl ether	25.0	23.4		ug/L		94	70 - 130	0	20
Isopropylbenzene	25.0	25.2		ug/L		101	70 - 130	5	20
Methyl tert-butyl ether	25.0	19.6		ug/L		78	70 - 130	0	20
Methylene Chloride	25.0	21.3		ug/L		85	70 - 130	2	20
m-Xylene & p-Xylene	25.0	24.6		ug/L		99	70 - 130	5	20
Naphthalene	25.0	20.8		ug/L		83	70 - 130	4	20
n-Butylbenzene	25.0	26.4		ug/L		106	70 - 130	7	20
N-Propylbenzene	25.0	24.8		ug/L		99	70 - 130	6	20
o-Xylene	25.0	24.8		ug/L		99	70 - 130	6	20
sec-Butylbenzene	25.0	25.3		ug/L		101	70 - 130	6	20
Styrene	25.0	25.8		ug/L		103	70 - 130	4	20
Tert-amyl methyl ether	25.0	24.8		ug/L		99	70 - 130	1	20
Tert-butyl ethyl ether	25.0	22.9		ug/L		92	70 - 130	1	20
tert-Butylbenzene	25.0	24.9		ug/L		100	70 - 130	6	20
Tetrachloroethene	25.0	22.9		ug/L		92	70 - 130	4	20
Tetrahydrofuran	50.0	41.1		ug/L		82	70 - 130	2	20
Toluene	25.0	23.6		ug/L		95	70 - 130	5	20
trans-1,2-Dichloroethene	25.0	20.1		ug/L		80	70 - 130	2	20
trans-1,3-Dichloropropene	25.0	24.1		ug/L		96	70 - 130	3	20
Trichloroethene	25.0	21.1		ug/L		84	70 - 130	0	20
Trichlorofluoromethane	25.0	20.6		ug/L		82	70 - 130	1	20
Vinyl chloride	25.0	20.8		ug/L		83	70 - 130	5	20
Dibromomethane	25.0	20.1		ug/L		80	70 - 130	0	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Toluene-d8 (Surr)	93		70 - 130
1,2-Dichloroethane-d4 (Surr)	84		70 - 130
4-Bromofluorobenzene (Surr)	97		70 - 130

TestAmerica Buffalo

QC Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-102681-1

Method: 6010 - Metals (ICP)

Lab Sample ID: MB 480-309994/1-A
Matrix: Water
Analysis Batch: 310221

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 309994

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		0.050		mg/L		07/07/16 08:55	07/07/16 20:17	1

Lab Sample ID: LCS 480-309994/2-A
Matrix: Water
Analysis Batch: 310221

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 309994

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Iron	10.0	10.4		mg/L		104	80 - 120

Lab Sample ID: LCSD 480-309994/3-A
Matrix: Water
Analysis Batch: 310221

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 309994

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Iron	10.0	10.1		mg/L		101	80 - 120	3	20

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 480-310245/4
Matrix: Water
Analysis Batch: 310245

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		0.50		mg/L			07/08/16 13:44	1
Sulfate	ND		2.0		mg/L			07/08/16 13:44	1

Lab Sample ID: LCS 480-310245/3
Matrix: Water
Analysis Batch: 310245

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	50.0	51.2		mg/L		102	90 - 110
Sulfate	50.0	50.6		mg/L		101	90 - 110

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 480-310159/2-A
Matrix: Water
Analysis Batch: 310327

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 310159

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.20		mg/L		07/07/16 20:52	07/08/16 17:08	1

Lab Sample ID: LCS 480-310159/1-A
Matrix: Water
Analysis Batch: 310327

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 310159

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia	1.00	1.02		mg/L		102	90 - 110

TestAmerica Buffalo

QC Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-102681-1

Method: 9060A - Organic Carbon, Total (TOC)

Lab Sample ID: MB 480-310337/3

Matrix: Water

Analysis Batch: 310337

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TOC Result 1	ND		1.0		mg/L			07/07/16 17:04	1
TOC Result 2	ND		1.0		mg/L			07/07/16 17:04	1
Total Organic Carbon - Duplicates	ND		1.0		mg/L			07/07/16 17:04	1

Lab Sample ID: LCS 480-310337/4

Matrix: Water

Analysis Batch: 310337

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
TOC Result 1	60.0	60.8		mg/L		101	90 - 110
TOC Result 2	60.0	58.8		mg/L		98	90 - 110
Total Organic Carbon - Duplicates	60.0	59.8		mg/L		100	90 - 110

Lab Sample ID: 480-102681-4 MS

Matrix: Water

Analysis Batch: 310337

Client Sample ID: REW-8-20160706

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
TOC Result 1	80		20.0	97.7		mg/L		90	54 - 131
TOC Result 2	79		20.0	97.2		mg/L		89	54 - 131
Total Organic Carbon - Duplicates	79		20.0	97.4		mg/L		90	54 - 131

Lab Sample ID: 480-102681-3 DU

Matrix: Water

Analysis Batch: 310337

Client Sample ID: REW-7-20160706

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
TOC Result 1	75		74.8		mg/L		0	20
TOC Result 2	74		74.4		mg/L		0.9	20
Total Organic Carbon - Duplicates	74		74.6		mg/L		0.4	20

Lab Sample ID: MB 480-310699/27

Matrix: Water

Analysis Batch: 310699

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TOC Result 1	ND		1.0		mg/L			07/12/16 01:49	1
TOC Result 2	ND		1.0		mg/L			07/12/16 01:49	1
Total Organic Carbon - Duplicates	ND		1.0		mg/L			07/12/16 01:49	1

Lab Sample ID: MB 480-310699/3

Matrix: Water

Analysis Batch: 310699

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TOC Result 1	ND		1.0		mg/L			07/11/16 14:30	1
TOC Result 2	ND		1.0		mg/L			07/11/16 14:30	1

TestAmerica Buffalo

QC Sample Results

Client: Innovative Engineering Solutions, Inc
 Project/Site: IDS Wayland

TestAmerica Job ID: 480-102681-1

Method: 9060A - Organic Carbon, Total (TOC) (Continued)

Lab Sample ID: MB 480-310699/3
Matrix: Water
Analysis Batch: 310699

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Duplicates	ND		1.0		mg/L			07/11/16 14:30	1

Lab Sample ID: LCS 480-310699/28
Matrix: Water
Analysis Batch: 310699

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
TOC Result 1	60.0	58.6		mg/L		98	90 - 110
TOC Result 2	60.0	60.9		mg/L		102	90 - 110
Total Organic Carbon - Duplicates	60.0	59.7		mg/L		100	90 - 110

Lab Sample ID: LCS 480-310699/4
Matrix: Water
Analysis Batch: 310699

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
TOC Result 1	60.0	58.9		mg/L		98	90 - 110
TOC Result 2	60.0	61.3		mg/L		102	90 - 110
Total Organic Carbon - Duplicates	60.0	60.1		mg/L		100	90 - 110

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 480-310227/30
Matrix: Water
Analysis Batch: 310227

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND		5.0		mg/L			07/07/16 16:47	1

Lab Sample ID: MB 480-310227/7
Matrix: Water
Analysis Batch: 310227

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND		5.0		mg/L			07/07/16 13:52	1

Lab Sample ID: LCS 480-310227/31
Matrix: Water
Analysis Batch: 310227

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity, Total	100	97.4		mg/L		97	90 - 110

TestAmerica Buffalo

QC Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-102681-1

Method: SM 2320B - Alkalinity (Continued)

Lab Sample ID: LCS 480-310227/8

Matrix: Water

Analysis Batch: 310227

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity, Total	100	97.1		mg/L		97	90 - 110

Method: SM 4500 P E - Orthophosphate

Lab Sample ID: MB 480-310075/3

Matrix: Water

Analysis Batch: 310075

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
ortho-Phosphate	ND		0.020		mg/L			07/07/16 11:15	1

Lab Sample ID: LCS 480-310075/4

Matrix: Water

Analysis Batch: 310075

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
ortho-Phosphate	0.200	0.185		mg/L		93	90 - 110

Lab Sample ID: 480-102681-1 MS

Matrix: Water

Analysis Batch: 310075

Client Sample ID: MW-265M-20160706

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
ortho-Phosphate	0.24		1.00	1.33		mg/L		108	49 - 138

Lab Sample ID: 480-102681-1 MSD

Matrix: Water

Analysis Batch: 310075

Client Sample ID: MW-265M-20160706

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
ortho-Phosphate	0.24		1.00	1.25		mg/L		101	49 - 138	6	20

QC Association Summary

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-102681-1

GC/MS VOA

Analysis Batch: 309992

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-102681-1	MW-265M-20160706	Total/NA	Water	8260C	
480-102681-2	MW-562-20160706	Total/NA	Water	8260C	
480-102681-4	REW-8-20160706	Total/NA	Water	8260C	
480-102681-5	REW-11-20160706	Total/NA	Water	8260C	
480-102681-6	REW-12-20160706	Total/NA	Water	8260C	
480-102681-8	TRIP BLANKS	Total/NA	Water	8260C	
LCS 480-309992/5	Lab Control Sample	Total/NA	Water	8260C	
LCSD 480-309992/6	Lab Control Sample Dup	Total/NA	Water	8260C	
MB 480-309992/8	Method Blank	Total/NA	Water	8260C	

Analysis Batch: 310121

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-102681-3	REW-7-20160706	Total/NA	Water	8260C	
480-102681-7	DUP2-20160706	Total/NA	Water	8260C	
LCS 480-310121/5	Lab Control Sample	Total/NA	Water	8260C	
LCSD 480-310121/8	Lab Control Sample Dup	Total/NA	Water	8260C	
MB 480-310121/7	Method Blank	Total/NA	Water	8260C	

Metals

Prep Batch: 309994

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-102681-1	MW-265M-20160706	Total/NA	Water	3005A	
480-102681-2	MW-562-20160706	Total/NA	Water	3005A	
480-102681-3	REW-7-20160706	Total/NA	Water	3005A	
480-102681-4	REW-8-20160706	Total/NA	Water	3005A	
480-102681-5	REW-11-20160706	Total/NA	Water	3005A	
480-102681-6	REW-12-20160706	Total/NA	Water	3005A	
LCS 480-309994/2-A	Lab Control Sample	Total/NA	Water	3005A	
LCSD 480-309994/3-A	Lab Control Sample Dup	Total/NA	Water	3005A	
MB 480-309994/1-A	Method Blank	Total/NA	Water	3005A	

Analysis Batch: 310221

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-102681-1	MW-265M-20160706	Total/NA	Water	6010	309994
480-102681-2	MW-562-20160706	Total/NA	Water	6010	309994
480-102681-3	REW-7-20160706	Total/NA	Water	6010	309994
480-102681-4	REW-8-20160706	Total/NA	Water	6010	309994
480-102681-5	REW-11-20160706	Total/NA	Water	6010	309994
480-102681-6	REW-12-20160706	Total/NA	Water	6010	309994
LCS 480-309994/2-A	Lab Control Sample	Total/NA	Water	6010	309994
LCSD 480-309994/3-A	Lab Control Sample Dup	Total/NA	Water	6010	309994
MB 480-309994/1-A	Method Blank	Total/NA	Water	6010	309994

General Chemistry

Analysis Batch: 310075

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-102681-1	MW-265M-20160706	Total/NA	Water	SM 4500 P E	
480-102681-1 MS	MW-265M-20160706	Total/NA	Water	SM 4500 P E	

TestAmerica Buffalo

QC Association Summary

Client: Innovative Engineering Solutions, Inc
 Project/Site: IDS Wayland

TestAmerica Job ID: 480-102681-1

General Chemistry (Continued)

Analysis Batch: 310075 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-102681-1 MSD	MW-265M-20160706	Total/NA	Water	SM 4500 P E	
480-102681-2	MW-562-20160706	Total/NA	Water	SM 4500 P E	
480-102681-3	REW-7-20160706	Total/NA	Water	SM 4500 P E	
480-102681-4	REW-8-20160706	Total/NA	Water	SM 4500 P E	
480-102681-5	REW-11-20160706	Total/NA	Water	SM 4500 P E	
480-102681-6	REW-12-20160706	Total/NA	Water	SM 4500 P E	
LCS 480-310075/4	Lab Control Sample	Total/NA	Water	SM 4500 P E	
MB 480-310075/3	Method Blank	Total/NA	Water	SM 4500 P E	

Analysis Batch: 310078

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-102681-1	MW-265M-20160706	Total/NA	Water	9040C	
480-102681-2	MW-562-20160706	Total/NA	Water	9040C	
480-102681-3	REW-7-20160706	Total/NA	Water	9040C	
480-102681-4	REW-8-20160706	Total/NA	Water	9040C	
480-102681-5	REW-11-20160706	Total/NA	Water	9040C	
480-102681-6	REW-12-20160706	Total/NA	Water	9040C	
LCS 480-310078/1	Lab Control Sample	Total/NA	Water	9040C	

Analysis Batch: 310101

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-102681-1	MW-265M-20160706	Total/NA	Water	353.2	
480-102681-2	MW-562-20160706	Total/NA	Water	353.2	
480-102681-3	REW-7-20160706	Total/NA	Water	353.2	
480-102681-4	REW-8-20160706	Total/NA	Water	353.2	
480-102681-5	REW-11-20160706	Total/NA	Water	353.2	
480-102681-6	REW-12-20160706	Total/NA	Water	353.2	

Prep Batch: 310159

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-102681-1	MW-265M-20160706	Total/NA	Water	Distill/Ammonia	
480-102681-2	MW-562-20160706	Total/NA	Water	Distill/Ammonia	
480-102681-3	REW-7-20160706	Total/NA	Water	Distill/Ammonia	
480-102681-4	REW-8-20160706	Total/NA	Water	Distill/Ammonia	
480-102681-5	REW-11-20160706	Total/NA	Water	Distill/Ammonia	
480-102681-6	REW-12-20160706	Total/NA	Water	Distill/Ammonia	
LCS 480-310159/1-A	Lab Control Sample	Total/NA	Water	Distill/Ammonia	
MB 480-310159/2-A	Method Blank	Total/NA	Water	Distill/Ammonia	

Analysis Batch: 310227

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-102681-1	MW-265M-20160706	Total/NA	Water	SM 2320B	
480-102681-2	MW-562-20160706	Total/NA	Water	SM 2320B	
480-102681-3	REW-7-20160706	Total/NA	Water	SM 2320B	
480-102681-4	REW-8-20160706	Total/NA	Water	SM 2320B	
480-102681-5	REW-11-20160706	Total/NA	Water	SM 2320B	
480-102681-6	REW-12-20160706	Total/NA	Water	SM 2320B	
LCS 480-310227/31	Lab Control Sample	Total/NA	Water	SM 2320B	
LCS 480-310227/8	Lab Control Sample	Total/NA	Water	SM 2320B	
MB 480-310227/30	Method Blank	Total/NA	Water	SM 2320B	
MB 480-310227/7	Method Blank	Total/NA	Water	SM 2320B	

TestAmerica Buffalo

QC Association Summary

Client: Innovative Engineering Solutions, Inc
 Project/Site: IDS Wayland

TestAmerica Job ID: 480-102681-1

Analysis Batch: 310245

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-102681-1	MW-265M-20160706	Total/NA	Water	300.0	
480-102681-2	MW-562-20160706	Total/NA	Water	300.0	
480-102681-3	REW-7-20160706	Total/NA	Water	300.0	
480-102681-4	REW-8-20160706	Total/NA	Water	300.0	
480-102681-5	REW-11-20160706	Total/NA	Water	300.0	
480-102681-6	REW-12-20160706	Total/NA	Water	300.0	
LCS 480-310245/3	Lab Control Sample	Total/NA	Water	300.0	
MB 480-310245/4	Method Blank	Total/NA	Water	300.0	

Analysis Batch: 310327

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-102681-1	MW-265M-20160706	Total/NA	Water	350.1	310159
480-102681-2	MW-562-20160706	Total/NA	Water	350.1	310159
480-102681-3	REW-7-20160706	Total/NA	Water	350.1	310159
480-102681-4	REW-8-20160706	Total/NA	Water	350.1	310159
480-102681-5	REW-11-20160706	Total/NA	Water	350.1	310159
480-102681-6	REW-12-20160706	Total/NA	Water	350.1	310159
LCS 480-310159/1-A	Lab Control Sample	Total/NA	Water	350.1	310159
MB 480-310159/2-A	Method Blank	Total/NA	Water	350.1	310159

Analysis Batch: 310337

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-102681-1	MW-265M-20160706	Total/NA	Water	9060A	
480-102681-3	REW-7-20160706	Total/NA	Water	9060A	
480-102681-3 DU	REW-7-20160706	Total/NA	Water	9060A	
480-102681-4	REW-8-20160706	Total/NA	Water	9060A	
480-102681-4 MS	REW-8-20160706	Total/NA	Water	9060A	
480-102681-5	REW-11-20160706	Total/NA	Water	9060A	
LCS 480-310337/4	Lab Control Sample	Total/NA	Water	9060A	
MB 480-310337/3	Method Blank	Total/NA	Water	9060A	

Analysis Batch: 310699

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-102681-2	MW-562-20160706	Total/NA	Water	9060A	
480-102681-6	REW-12-20160706	Total/NA	Water	9060A	
LCS 480-310699/28	Lab Control Sample	Total/NA	Water	9060A	
LCS 480-310699/4	Lab Control Sample	Total/NA	Water	9060A	
MB 480-310699/27	Method Blank	Total/NA	Water	9060A	
MB 480-310699/3	Method Blank	Total/NA	Water	9060A	

Lab Chronicle

Client: Innovative Engineering Solutions, Inc
 Project/Site: IDS Wayland

TestAmerica Job ID: 480-102681-1

Client Sample ID: MW-265M-20160706

Lab Sample ID: 480-102681-1

Date Collected: 07/06/16 11:35

Matrix: Water

Date Received: 07/07/16 02:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		5	309992	07/07/16 13:46	RRS	TAL BUF
Total/NA	Prep	3005A			309994	07/07/16 08:55	BAE	TAL BUF
Total/NA	Analysis	6010		1	310221	07/07/16 20:27	AMH	TAL BUF
Total/NA	Analysis	300.0		10	310245	07/08/16 14:19	CAV	TAL BUF
Total/NA	Prep	Distill/Ammonia			310159	07/07/16 20:52	CEA	TAL BUF
Total/NA	Analysis	350.1		1	310327	07/08/16 17:39	CEA	TAL BUF
Total/NA	Analysis	353.2		1	310101	07/07/16 11:08	ELR	TAL BUF
Total/NA	Analysis	9040C		1	310078	07/07/16 11:52	ELR	TAL BUF
Total/NA	Analysis	9060A		10	310337	07/07/16 22:35	DLG	TAL BUF
Total/NA	Analysis	SM 2320B		1	310227	07/07/16 17:43	ELR	TAL BUF
Total/NA	Analysis	SM 4500 P E		1	310075	07/07/16 11:15	DLG	TAL BUF

Client Sample ID: MW-562-20160706

Lab Sample ID: 480-102681-2

Date Collected: 07/06/16 10:55

Matrix: Water

Date Received: 07/07/16 02:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		4	309992	07/07/16 14:12	RRS	TAL BUF
Total/NA	Prep	3005A			309994	07/07/16 08:55	BAE	TAL BUF
Total/NA	Analysis	6010		1	310221	07/07/16 20:31	AMH	TAL BUF
Total/NA	Analysis	300.0		10	310245	07/08/16 14:27	CAV	TAL BUF
Total/NA	Prep	Distill/Ammonia			310159	07/07/16 20:52	CEA	TAL BUF
Total/NA	Analysis	350.1		2	310327	07/08/16 17:48	CEA	TAL BUF
Total/NA	Analysis	353.2		1	310101	07/07/16 11:07	ELR	TAL BUF
Total/NA	Analysis	9040C		1	310078	07/07/16 11:55	ELR	TAL BUF
Total/NA	Analysis	9060A		10	310699	07/11/16 15:56	EKB	TAL BUF
Total/NA	Analysis	SM 2320B		1	310227	07/07/16 17:52	ELR	TAL BUF
Total/NA	Analysis	SM 4500 P E		1	310075	07/07/16 11:15	DLG	TAL BUF

Client Sample ID: REW-7-20160706

Lab Sample ID: 480-102681-3

Date Collected: 07/06/16 09:30

Matrix: Water

Date Received: 07/07/16 02:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	310121	07/07/16 20:02	GTG	TAL BUF
Total/NA	Prep	3005A			309994	07/07/16 08:55	BAE	TAL BUF
Total/NA	Analysis	6010		1	310221	07/07/16 20:35	AMH	TAL BUF
Total/NA	Analysis	300.0		5	310245	07/08/16 14:35	CAV	TAL BUF
Total/NA	Prep	Distill/Ammonia			310159	07/07/16 20:52	CEA	TAL BUF
Total/NA	Analysis	350.1		1	310327	07/08/16 17:41	CEA	TAL BUF
Total/NA	Analysis	353.2		1	310101	07/07/16 11:03	ELR	TAL BUF

TestAmerica Buffalo

Lab Chronicle

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-102681-1

Client Sample ID: REW-7-20160706

Lab Sample ID: 480-102681-3

Date Collected: 07/06/16 09:30

Matrix: Water

Date Received: 07/07/16 02:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9040C		1	310078	07/07/16 11:58	ELR	TAL BUF
Total/NA	Analysis	9060A		1	310337	07/07/16 23:31	DLG	TAL BUF
Total/NA	Analysis	SM 2320B		1	310227	07/07/16 17:58	ELR	TAL BUF
Total/NA	Analysis	SM 4500 P E		1	310075	07/07/16 11:15	DLG	TAL BUF

Client Sample ID: REW-8-20160706

Lab Sample ID: 480-102681-4

Date Collected: 07/06/16 08:40

Matrix: Water

Date Received: 07/07/16 02:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	309992	07/07/16 15:03	RRS	TAL BUF
Total/NA	Prep	3005A			309994	07/07/16 08:55	BAE	TAL BUF
Total/NA	Analysis	6010		1	310221	07/07/16 20:49	AMH	TAL BUF
Total/NA	Analysis	300.0		5	310245	07/08/16 15:32	CAV	TAL BUF
Total/NA	Prep	Distill/Ammonia			310159	07/07/16 20:52	CEA	TAL BUF
Total/NA	Analysis	350.1		1	310327	07/08/16 17:41	CEA	TAL BUF
Total/NA	Analysis	353.2		1	310101	07/07/16 11:02	ELR	TAL BUF
Total/NA	Analysis	9040C		1	310078	07/07/16 12:01	ELR	TAL BUF
Total/NA	Analysis	9060A		1	310337	07/08/16 00:26	DLG	TAL BUF
Total/NA	Analysis	SM 2320B		1	310227	07/07/16 18:06	ELR	TAL BUF
Total/NA	Analysis	SM 4500 P E		1	310075	07/07/16 11:15	DLG	TAL BUF

Client Sample ID: REW-11-20160706

Lab Sample ID: 480-102681-5

Date Collected: 07/06/16 10:15

Matrix: Water

Date Received: 07/07/16 02:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	309992	07/07/16 15:28	RRS	TAL BUF
Total/NA	Prep	3005A			309994	07/07/16 08:55	BAE	TAL BUF
Total/NA	Analysis	6010		1	310221	07/07/16 20:52	AMH	TAL BUF
Total/NA	Analysis	300.0		5	310245	07/08/16 15:40	CAV	TAL BUF
Total/NA	Prep	Distill/Ammonia			310159	07/07/16 20:52	CEA	TAL BUF
Total/NA	Analysis	350.1		1	310327	07/08/16 17:42	CEA	TAL BUF
Total/NA	Analysis	353.2		1	310101	07/07/16 11:05	ELR	TAL BUF
Total/NA	Analysis	9040C		1	310078	07/07/16 12:04	ELR	TAL BUF
Total/NA	Analysis	9060A		5	310337	07/08/16 01:22	DLG	TAL BUF
Total/NA	Analysis	SM 2320B		1	310227	07/07/16 18:12	ELR	TAL BUF
Total/NA	Analysis	SM 4500 P E		1	310075	07/07/16 11:15	DLG	TAL BUF

TestAmerica Buffalo

Lab Chronicle

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-102681-1

Client Sample ID: REW-12-20160706

Lab Sample ID: 480-102681-6

Date Collected: 07/06/16 08:05

Matrix: Water

Date Received: 07/07/16 02:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		2	309992	07/07/16 15:53	RRS	TAL BUF
Total/NA	Prep	3005A			309994	07/07/16 08:55	BAE	TAL BUF
Total/NA	Analysis	6010		1	310221	07/07/16 20:56	AMH	TAL BUF
Total/NA	Analysis	300.0		5	310245	07/08/16 15:48	CAV	TAL BUF
Total/NA	Prep	Distill/Ammonia			310159	07/07/16 20:52	CEA	TAL BUF
Total/NA	Analysis	350.1		1	310327	07/08/16 17:43	CEA	TAL BUF
Total/NA	Analysis	353.2		1	310101	07/07/16 11:00	ELR	TAL BUF
Total/NA	Analysis	9040C		1	310078	07/07/16 12:07	ELR	TAL BUF
Total/NA	Analysis	9060A		5	310699	07/11/16 16:24	EKB	TAL BUF
Total/NA	Analysis	SM 2320B		1	310227	07/07/16 18:31	ELR	TAL BUF
Total/NA	Analysis	SM 4500 P E		1	310075	07/07/16 11:15	DLG	TAL BUF

Client Sample ID: DUP2-20160706

Lab Sample ID: 480-102681-7

Date Collected: 07/06/16 00:00

Matrix: Water

Date Received: 07/07/16 02:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	310121	07/07/16 20:28	GTG	TAL BUF

Client Sample ID: TRIP BLANKS

Lab Sample ID: 480-102681-8

Date Collected: 07/06/16 00:00

Matrix: Water

Date Received: 07/07/16 02:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	309992	07/07/16 11:43	RRS	TAL BUF

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Certification Summary

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-102681-1

Laboratory: TestAmerica Buffalo

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Arkansas DEQ	State Program	6	88-0686	07-06-17
California	State Program	9	1169CA	09-30-17
Connecticut	State Program	1	PH-0568	09-30-16
Florida	NELAP	4	E87672	06-30-16 *
Georgia	State Program	4	N/A	03-31-17
Georgia	State Program	4	956	03-31-17
Illinois	NELAP	5	200003	09-30-16
Iowa	State Program	7	374	03-01-17
Kentucky (DW)	State Program	4	90029	12-31-16
Kentucky (UST)	State Program	4	30	03-31-17
Kentucky (WW)	State Program	4	90029	12-31-16
Louisiana	NELAP	6	02031	06-30-17
Maine	State Program	1	NY00044	12-04-16
Maryland	State Program	3	294	03-31-17
Massachusetts	State Program	1	M-NY044	06-30-17
Michigan	State Program	5	9937	03-31-16 *
Minnesota	NELAP	5	036-999-337	12-31-16
New Hampshire	NELAP Primary AB	1	2973	09-11-16
New Hampshire	NELAP Secondary AB	1	2337	11-17-16
New Jersey	NELAP	2	NY455	06-30-17
New York	NELAP	2	10026	03-31-17
North Dakota	State Program	8	R-176	03-31-17
Oklahoma	State Program	6	9421	08-31-16
Oregon	NELAP	10	NY200003	06-09-17
Pennsylvania	NELAP	3	68-00281	07-31-16 *
Rhode Island	State Program	1	LAO00328	12-30-16
Tennessee	State Program	4	TN02970	03-31-17
Texas	NELAP	6	T104704412-15-6	07-31-16 *
USDA	Federal		P330-11-00386	11-26-17
Virginia	NELAP	3	460185	09-14-16
Washington	State Program	10	C784	02-10-17
West Virginia DEP	State Program	3	252	09-30-16
Wisconsin	State Program	5	998310390	08-31-16

* Certification renewal pending - certification considered valid.

Method Summary

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-102681-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds (GC/MS)	MA DEP	TAL BUF
6010	Metals (ICP)	SW846	TAL BUF
300.0	Anions, Ion Chromatography	MCAWW	TAL BUF
350.1	Nitrogen, Ammonia	MCAWW	TAL BUF
353.2	Nitrate	EPA	TAL BUF
9040C	pH	SW846	TAL BUF
9060A	Organic Carbon, Total (TOC)	SW846	TAL BUF
SM 2320B	Alkalinity	SM	TAL BUF
SM 4500 P E	Orthophosphate	SM	TAL BUF

Protocol References:

EPA = US Environmental Protection Agency

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.

SM = "Standard Methods For The Examination Of Water And Wastewater",

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

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Sample Summary

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-102681-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-102681-1	MW-265M-20160706	Water	07/06/16 11:35	07/07/16 02:00
480-102681-2	MW-562-20160706	Water	07/06/16 10:55	07/07/16 02:00
480-102681-3	REW-7-20160706	Water	07/06/16 09:30	07/07/16 02:00
480-102681-4	REW-8-20160706	Water	07/06/16 08:40	07/07/16 02:00
480-102681-5	REW-11-20160706	Water	07/06/16 10:15	07/07/16 02:00
480-102681-6	REW-12-20160706	Water	07/06/16 08:05	07/07/16 02:00
480-102681-7	DUP2-20160706	Water	07/06/16 00:00	07/07/16 02:00
480-102681-8	TRIP BLANKS	Water	07/06/16 00:00	07/07/16 02:00

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15

Login Sample Receipt Checklist

Client: Innovative Engineering Solutions, Inc

Job Number: 480-102681-1

Login Number: 102681

List Number: 1

Creator: Williams, Christopher S

List Source: TestAmerica Buffalo

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
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 (Excluding tests with immediate HTs)..	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	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	IESI
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

TestAmerica Westfield
501 Southampton Road
Westfield MA 01085
Phone: (413) 572-4000 Fax: (303) 467-7247

TestAmerica Boston
240 Bear Hill Road -- Suite 104
Waltham MA 02451
Phone: (781) 466-6900 Fax: (781) 466-6901

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information:
Client Contact: *Vida Pereira*
Company: *Innovative Engineering Solutions Inc*
Address: *25 Spring St*
City: *Waldpole*
State and Zip: *MA 02091*
Client's Phone: *508-668-0033*
Client's Contact Email: *v.pereira@iesi.com*
Client's Project Name/Number: *Restroom Workshop RA-008*
Sample Collection Site Name & Location: *Waldpole MA*

Sample Collector's Name (Please Print Neatly): *Dany Jones*
Sample Collector's Phone: *508-668-0033*
Lab Pw: *308-668-0033*
E-Mail:

COC No: **36965**
Page: **1** of **1**
Job #: **1**
480-102681 Chain of Custody

Analysis Requested
Due Date Requested: *7/14/16*
Turnaround Time (TAT) Requested (business days): *5 days*
Quote # or Project #: *RA-008*
PO #:
WO #:
PWS ID #:

Sample Identification	Sample Collection Date (MM/DD/YY)	Sample Collection Time (24 Hour Clock)	Sample Type: C=Comp G=Grab	Matrix Type **	Preservation Codes
<i>ms-815m-20160706</i>	<i>7/6/16</i>	<i>1135</i>	<i>G</i>	<i>W</i>	<i>X</i>
<i>ms-512-20160706</i>	<i>7/6/16</i>	<i>1055</i>	<i>G</i>	<i>W</i>	<i>X</i>
<i>ms-7-20160706</i>	<i>7/6/16</i>	<i>0930</i>	<i>G</i>	<i>W</i>	<i>X</i>
<i>ms-8-20160706</i>	<i>7/6/16</i>	<i>0840</i>	<i>G</i>	<i>W</i>	<i>X</i>
<i>ms-11-20160706</i>	<i>7/6/16</i>	<i>1015</i>	<i>G</i>	<i>W</i>	<i>X</i>
<i>ms-12-20160706</i>	<i>7/6/16</i>	<i>0805</i>	<i>G</i>	<i>W</i>	<i>X</i>
<i>Dupl-20160706</i>	<i>7/6/16</i>	<i>-</i>	<i>G</i>	<i>W</i>	<i>X</i>
<i>Temp Blanks</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>W</i>	<i>X</i>

Sample Identification	Sample Collection Date (MM/DD/YY)	Sample Collection Time (24 Hour Clock)	Sample Type: C=Comp G=Grab	Matrix Type **	Preservation Codes	Total Number of Containers (enter total for each line)	Special Instructions & Notes:
<i>ms-815m-20160706</i>	<i>7/6/16</i>	<i>1135</i>	<i>G</i>	<i>W</i>	<i>X</i>	<i>10</i>	
<i>ms-512-20160706</i>	<i>7/6/16</i>	<i>1055</i>	<i>G</i>	<i>W</i>	<i>X</i>	<i>10</i>	
<i>ms-7-20160706</i>	<i>7/6/16</i>	<i>0930</i>	<i>G</i>	<i>W</i>	<i>X</i>	<i>10</i>	
<i>ms-8-20160706</i>	<i>7/6/16</i>	<i>0840</i>	<i>G</i>	<i>W</i>	<i>X</i>	<i>10</i>	
<i>ms-11-20160706</i>	<i>7/6/16</i>	<i>1015</i>	<i>G</i>	<i>W</i>	<i>X</i>	<i>10</i>	
<i>ms-12-20160706</i>	<i>7/6/16</i>	<i>0805</i>	<i>G</i>	<i>W</i>	<i>X</i>	<i>10</i>	
<i>Dupl-20160706</i>	<i>7/6/16</i>	<i>-</i>	<i>G</i>	<i>W</i>	<i>X</i>	<i>3</i>	
<i>Temp Blanks</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>W</i>	<i>X</i>	<i>2</i>	

Possible Hazard Identification (please check off each that may apply):
 Non-Hazard Flammable Skin Irritant Poison B Unknown Radiological
 Matrix Types: A=Air S=Solid/Soil W=Water O=Oil X=Waste (non-water) Z=Other: _____

Sample Disposal Requirements (A fee may be assessed if samples are retained longer than 1 month):
 Return To Client Disposal By Lab Archive For _____ Months

NOTE!! ALL SAMPLES MUST BE TRANSPORTED IN A COOLER, ON ICE !!

Relinquished by: *[Signature]* Date/Time: *7/13/16 1810* Company: *IESI*
 Relinquished by: *[Signature]* Date/Time: *7-6-16 1700* Company: *IEA*
 Relinquished by: *[Signature]* Date/Time: *7-7-16 0200* Company: *TAS*

Cooler Temperature(s) °C and Other Remarks: *0.9*

Custody Seal No.: *71*



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Buffalo

10 Hazelwood Drive

Amherst, NY 14228-2298

Tel: (716)691-2600

TestAmerica Job ID: 480-107013-1

Client Project/Site: IDS Wayland

For:

Innovative Engineering Solutions, Inc

25 Spring Street

Walpole, Massachusetts 02081

Attn: Vicki Pariyar



Authorized for release by:

10/12/2016 6:10:04 PM

Denise Giglia, Project Management Assistant II

denise.giglia@testamericainc.com

Designee for

Becky Mason, Project Manager II

(413)572-4000

becky.mason@testamericainc.com

LINKS

Review your project
results through

Total Access

Have a Question?



Visit us at:

www.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.

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15



Table of Contents

Cover Page	1
Table of Contents	2
Definitions/Glossary	3
Case Narrative	4
Detection Summary	7
Client Sample Results	9
Surrogate Summary	28
QC Sample Results	29
QC Association Summary	47
Lab Chronicle	51
Certification Summary	54
Method Summary	56
Sample Summary	57
Receipt Checklists	58
Chain of Custody	60

Definitions/Glossary

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-107013-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.

GC/MS Semi VOA

Qualifier	Qualifier Description
X	Surrogate is outside control limits
F1	MS and/or MSD Recovery is outside acceptance limits.

General Chemistry

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-107013-1

Job ID: 480-107013-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative 480-107013-1

Receipt

The samples were received on 10/5/2016 1:15 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 1.6° C and 1.8° C.

GC/MS VOA

Method 8260C: With the exception of diluted samples, per question G on the MassDEP Analytical Protocol Certification Form, TestAmerica's routine reporting limits do not achieve the CAM reporting limits specified in this CAM protocol for 1,2-dibromo-3-chloropropane, Carbon Disulfide, Isopropyl Ether, Naphthalene, tert-Amyl Methyl Ether and Tetrahydrofuran.

Method 8260C: The following sample was diluted to bring the concentration of target analytes within the calibration range: MW-267S-20161004 (480-107013-1). Elevated reporting limits (RLs) are provided.

Method 8260C: The following volatiles samples were diluted due to foaming at the time of purging during the original sample analysis: MW-268S-20161004 (480-107013-3), MW-268M-20161004 (480-107013-4) and MW-268D-20161004 (480-107013-5). Elevated reporting limits (RLs) are provided.

Method 8260C: The following samples were collected in properly preserved vials for analysis of volatile organic compounds (VOCs). However, the pH was outside the required criteria when verified by the laboratory, and corrective action was not possible: MW-268M-20161004 (480-107013-4), MW-268D-20161004 (480-107013-5), REW-1-20161004 (480-107013-6) and DUP2-20161004 (480-107013-9). The sample was analyzed within 7 days per EPA recommendation.

Method 8260C: The continuing calibration verification (CCV) associated with batch 480-323990 recovered outside the MCP control limit but <40% for Tetrahydrofuran, Naphthalene and 1,4-Dioxane. MCP protocol allows for 20% of the target compounds to be outside the 20% difference but not over 40% difference. The following samples are impacted: MW-267S-20161004 (480-107013-1), MW-267M-20161004 (480-107013-2), MW-268S-20161004 (480-107013-3), MW-268M-20161004 (480-107013-4), MW-268D-20161004 (480-107013-5), REW-1-20161004 (480-107013-6), REW-5-20161004 (480-107013-8) and TRIP BLANKS (480-107013-10).

Method 8260C: The following sample was collected in properly preserved vials for analysis of volatile organic compounds (VOCs). However, the pH was outside the required criteria when verified by the laboratory, and corrective action was not possible: DUP2-20161004 (480-107013-9). The sample was analyzed within 7 days per EPA recommendation.

Method 8260C: The continuing calibration verification (CCV) for 1,4-Dioxane associated with batch 480-324093 recovered outside the MCP control limit criteria. MCP protocol allows for 20% of the target compounds to be outside the 20% difference but not over 40% difference. Difficult analytes are allowed to be outside the 20% difference but not over 60% difference. The following samples were affected: REW-4-20161004 (480-107013-7) and DUP2-20161004 (480-107013-9).

Method 8260C: The laboratory control sample (LCS) for batch 480-324093 exceeded control limits for the following analytes: 1,4-Dioxane. MCP protocol allows for 10% of the target compounds to be outside of the limits provided the recoveries are over 10%. The following samples were affected: REW-4-20161004 (480-107013-7) and DUP2-20161004 (480-107013-9).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA

Method 522: Surrogate recovery for the following sample was outside control limits: MW-268S-20161004 (480-107013-3). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 522: The matrix spike duplicate (MSD) recoveries and precision for preparation batch 200-109914 and analytical batch 200-109928 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample(LCS) precision was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Case Narrative

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-107013-1

Job ID: 480-107013-1 (Continued)

Laboratory: TestAmerica Buffalo (Continued)

HPLC/IC

Method 300.0: The following samples were diluted due to the nature of the sample matrix: MW-267S-20161004 (480-107013-1), REW-1-20161004 (480-107013-6) and REW-4-20161004 (480-107013-7). Elevated reporting limits (RLs) are provided.

Method 300.0: The following samples were diluted due to the nature of the sample matrix: MW-268S-20161004 (480-107013-3) and MW-268M-20161004 (480-107013-4). Elevated reporting limits (RLs) are provided.

Method 300.0: The following sample was diluted due to the nature of the sample matrix: MW-268S-20161004 (480-107013-3). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals

Method 6010: At the request of the client, an abbreviated/modified MCP compound list was reported for this job.

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry

Method 350.1: The following samples was received with insufficient preservation: MW-268S-20161004 (480-107013-3) and MW-268M-20161004 (480-107013-4). Additional preservative was added by the laboratory to bring the samples within the method required pH range for analysis.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

MassDEP Analytical Protocol Certification Form

Laboratory Name: **TestAmerica Buffalo** Project #: **480-107013**

Project Location: **IDS Wayland** RTN:

This form provides certifications for the following data set: list Laboratory Sample ID Number(s):
480-107013 [1-10]

Matrices: Groundwater/Surface Water Soil/Sediment Drinking Water Air Other:

CAM Protocols (check all that apply below):

8260 VOC CAM II A <input checked="" type="checkbox"/>	7470/7471 Hg CAM III B <input type="checkbox"/>	Mass DEP VPH CAM IV A <input type="checkbox"/>	8081 Pesticides CAM V B <input type="checkbox"/>	7196 Hex Cr CAM VI B <input type="checkbox"/>	Mass DEP APH CAM IX A <input type="checkbox"/>
8270 SVOC CAM II B <input type="checkbox"/>	7010 Metals CAM III C <input type="checkbox"/>	Mass DEP EPH CAM IV B <input type="checkbox"/>	8151 Herbicides CAM V C <input type="checkbox"/>	8330 Explosives CAM VIII A <input type="checkbox"/>	TO-15 VOC CAM IX B <input type="checkbox"/>
6010 Metals CAM III A <input checked="" type="checkbox"/>	6020 Metals CAM III D <input type="checkbox"/>	8082 PCB CAM V A <input type="checkbox"/>	9014 Total Cyanide/PAC CAM VI A <input type="checkbox"/>	6860 Perchlorate CAM VIII B <input type="checkbox"/>	

Affirmative Responses to Questions A through F are 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 time.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
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?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
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"?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
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). b. APH and TO-15 Methods only: Was the complete analyte list reported for each method?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No
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)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

Responses to Questions G, H and I below are required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No ¹
----------	---	--

Data User Note: 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

H	Were all QC performance standards specified in the CAM protocol(s) achieved?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No ¹
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s) ?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No ¹

¹ All negative responses must be addressed in an attached laboratory narrative.

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, is accurate and complete.

Signature: Denise L. Giglia Position: Project Manager Assistant II
 Printed Name: Denise L. Giglia Date: 10/12/16 16:33

Detection Summary

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-107013-1

Client Sample ID: MW-267S-20161004

Lab Sample ID: 480-107013-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	380		40		ug/L	4		8260C	Total/NA
cis-1,2-Dichloroethene	310		4.0		ug/L	4		8260C	Total/NA
Toluene	100		4.0		ug/L	4		8260C	Total/NA
Vinyl chloride	21		4.0		ug/L	4		8260C	Total/NA
1,4-Dioxane	6.7		0.20		ug/L	1		522	Total/NA
Iron	360		0.050		mg/L	1		6010	Total/NA
Chloride	33		5.0		mg/L	10		300.0	Total/NA
Ammonia	0.22		0.20		mg/L	1		350.1	Total/NA
TOC Result 1	2100		40		mg/L	40		9060A	Total/NA
TOC Result 2	2100		40		mg/L	40		9060A	Total/NA
Total Organic Carbon - Duplicates	2100		40		mg/L	40		9060A	Total/NA
Alkalinity, Total	500		5.0		mg/L	1		SM 2320B	Total/NA
ortho-Phosphate	0.19		0.020		mg/L	1		SM 4500 P E	Total/NA

Client Sample ID: MW-267M-20161004

Lab Sample ID: 480-107013-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	3.8		0.20		ug/L	1		522	Total/NA

Client Sample ID: MW-268S-20161004

Lab Sample ID: 480-107013-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	0.54		0.20		ug/L	1		522	Total/NA
Iron	1.6		0.050		mg/L	1		6010	Total/NA
Chloride	26		25		mg/L	50		300.0	Total/NA
Ammonia	0.72		0.20		mg/L	1		350.1	Total/NA
TOC Result 1	57000		1000		mg/L	1000		9060A	Total/NA
TOC Result 2	59000		1000		mg/L	1000		9060A	Total/NA
Total Organic Carbon - Duplicates	58000		1000		mg/L	1000		9060A	Total/NA
Alkalinity, Total	10000		5.0		mg/L	1		SM 2320B	Total/NA
ortho-Phosphate	0.049		0.020		mg/L	1		SM 4500 P E	Total/NA

Client Sample ID: MW-268M-20161004

Lab Sample ID: 480-107013-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	200		200		ug/L	20		8260C	Total/NA
cis-1,2-Dichloroethene	440		20		ug/L	20		8260C	Total/NA
Vinyl chloride	47		20		ug/L	20		8260C	Total/NA
1,4-Dioxane	6.7	F1	0.20		ug/L	1		522	Total/NA
Iron	2.1		0.050		mg/L	1		6010	Total/NA
Chloride	38	F1	25		mg/L	50		300.0	Total/NA
Ammonia	0.42		0.20		mg/L	1		350.1	Total/NA
TOC Result 1	15000		500		mg/L	500		9060A	Total/NA
TOC Result 2	16000		500		mg/L	500		9060A	Total/NA
Total Organic Carbon - Duplicates	15000		500		mg/L	500		9060A	Total/NA
Alkalinity, Total	11000		5.0		mg/L	1		SM 2320B	Total/NA

Client Sample ID: MW-268D-20161004

Lab Sample ID: 480-107013-5

No Detections.

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

Detection Summary

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-107013-1

Client Sample ID: REW-1-20161004

Lab Sample ID: 480-107013-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	1.1		1.0		ug/L	1		8260C	Total/NA
m-Xylene & p-Xylene	2.4		2.0		ug/L	1		8260C	Total/NA
o-Xylene	1.4		1.0		ug/L	1		8260C	Total/NA
Iron	37		0.050		mg/L	1		6010	Total/NA
Chloride	13		2.5		mg/L	5		300.0	Total/NA
Sulfate	13		10		mg/L	5		300.0	Total/NA
Ammonia	0.50		0.20		mg/L	1		350.1	Total/NA
TOC Result 1	1.1		1.0		mg/L	1		9060A	Total/NA
TOC Result 2	1.2		1.0		mg/L	1		9060A	Total/NA
Total Organic Carbon - Duplicates	1.1		1.0		mg/L	1		9060A	Total/NA
Alkalinity, Total	280		5.0		mg/L	1		SM 2320B	Total/NA
ortho-Phosphate	0.19		0.020		mg/L	1		SM 4500 P E	Total/NA

Client Sample ID: REW-4-20161004

Lab Sample ID: 480-107013-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	5.1		1.0		ug/L	1		8260C	Total/NA
m-Xylene & p-Xylene	2.9		2.0		ug/L	1		8260C	Total/NA
Vinyl chloride	1.4		1.0		ug/L	1		8260C	Total/NA
Iron	13		0.050		mg/L	1		6010	Total/NA
Chloride	9.2		2.5		mg/L	5		300.0	Total/NA
Ammonia	6.2		1.0		mg/L	5		350.1	Total/NA
TOC Result 1	2.3		1.0		mg/L	1		9060A	Total/NA
TOC Result 2	2.4		1.0		mg/L	1		9060A	Total/NA
Total Organic Carbon - Duplicates	2.3		1.0		mg/L	1		9060A	Total/NA
Alkalinity, Total	270		5.0		mg/L	1		SM 2320B	Total/NA
ortho-Phosphate	0.75		0.020		mg/L	1		SM 4500 P E	Total/NA

Client Sample ID: REW-5-20161004

Lab Sample ID: 480-107013-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	2.3		1.0		ug/L	1		8260C	Total/NA
Iron	47		0.050		mg/L	1		6010	Total/NA
Chloride	3.9		0.50		mg/L	1		300.0	Total/NA
Ammonia	2.5		0.40		mg/L	2		350.1	Total/NA
Alkalinity, Total	100		5.0		mg/L	1		SM 2320B	Total/NA
ortho-Phosphate	0.12		0.020		mg/L	1		SM 4500 P E	Total/NA

Client Sample ID: DUP2-20161004

Lab Sample ID: 480-107013-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	37		10		ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	3.9		1.0		ug/L	1		8260C	Total/NA
Toluene	1.8		1.0		ug/L	1		8260C	Total/NA
Trichloroethene	1.4		1.0		ug/L	1		8260C	Total/NA

Client Sample ID: TRIP BLANKS

Lab Sample ID: 480-107013-10

No Detections.

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

Client Sample Results

Client: Innovative Engineering Solutions, Inc
 Project/Site: IDS Wayland

TestAmerica Job ID: 480-107013-1

Client Sample ID: MW-267S-20161004

Lab Sample ID: 480-107013-1

Date Collected: 10/04/16 13:30

Matrix: Water

Date Received: 10/05/16 01:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		4.0		ug/L			10/06/16 02:25	4
1,1,1-Trichloroethane	ND		4.0		ug/L			10/06/16 02:25	4
1,1,2,2-Tetrachloroethane	ND		2.0		ug/L			10/06/16 02:25	4
1,1,2-Trichloroethane	ND		4.0		ug/L			10/06/16 02:25	4
1,1-Dichloroethane	ND		4.0		ug/L			10/06/16 02:25	4
1,1-Dichloroethene	ND		4.0		ug/L			10/06/16 02:25	4
1,1-Dichloropropene	ND		4.0		ug/L			10/06/16 02:25	4
1,2,3-Trichlorobenzene	ND		4.0		ug/L			10/06/16 02:25	4
1,2,3-Trichloropropane	ND		4.0		ug/L			10/06/16 02:25	4
1,2,4-Trichlorobenzene	ND		4.0		ug/L			10/06/16 02:25	4
1,2,4-Trimethylbenzene	ND		4.0		ug/L			10/06/16 02:25	4
1,2-Dibromo-3-Chloropropane	ND		20		ug/L			10/06/16 02:25	4
1,2-Dichlorobenzene	ND		4.0		ug/L			10/06/16 02:25	4
1,2-Dichloroethane	ND		4.0		ug/L			10/06/16 02:25	4
1,2-Dichloropropane	ND		4.0		ug/L			10/06/16 02:25	4
1,3,5-Trimethylbenzene	ND		4.0		ug/L			10/06/16 02:25	4
1,3-Dichlorobenzene	ND		4.0		ug/L			10/06/16 02:25	4
1,3-Dichloropropane	ND		4.0		ug/L			10/06/16 02:25	4
1,4-Dichlorobenzene	ND		4.0		ug/L			10/06/16 02:25	4
1,4-Dioxane	ND		200		ug/L			10/06/16 02:25	4
2,2-Dichloropropane	ND		4.0		ug/L			10/06/16 02:25	4
2-Butanone (MEK)	380		40		ug/L			10/06/16 02:25	4
2-Chlorotoluene	ND		4.0		ug/L			10/06/16 02:25	4
2-Hexanone	ND		40		ug/L			10/06/16 02:25	4
4-Chlorotoluene	ND		4.0		ug/L			10/06/16 02:25	4
4-Isopropyltoluene	ND		4.0		ug/L			10/06/16 02:25	4
4-Methyl-2-pentanone (MIBK)	ND		40		ug/L			10/06/16 02:25	4
Acetone	ND		200		ug/L			10/06/16 02:25	4
Benzene	ND		4.0		ug/L			10/06/16 02:25	4
Bromobenzene	ND		4.0		ug/L			10/06/16 02:25	4
Bromoform	ND		4.0		ug/L			10/06/16 02:25	4
Bromomethane	ND		8.0		ug/L			10/06/16 02:25	4
Carbon disulfide	ND		40		ug/L			10/06/16 02:25	4
Carbon tetrachloride	ND		4.0		ug/L			10/06/16 02:25	4
Chlorobenzene	ND		4.0		ug/L			10/06/16 02:25	4
Chlorobromomethane	ND		4.0		ug/L			10/06/16 02:25	4
Chlorodibromomethane	ND		2.0		ug/L			10/06/16 02:25	4
Chloroethane	ND		8.0		ug/L			10/06/16 02:25	4
Chloroform	ND		4.0		ug/L			10/06/16 02:25	4
Chloromethane	ND		8.0		ug/L			10/06/16 02:25	4
cis-1,2-Dichloroethene	310		4.0		ug/L			10/06/16 02:25	4
cis-1,3-Dichloropropene	ND		1.6		ug/L			10/06/16 02:25	4
Dichlorobromomethane	ND		2.0		ug/L			10/06/16 02:25	4
Dichlorodifluoromethane	ND		4.0		ug/L			10/06/16 02:25	4
Ethyl ether	ND		4.0		ug/L			10/06/16 02:25	4
Ethylbenzene	ND		4.0		ug/L			10/06/16 02:25	4
Ethylene Dibromide	ND		4.0		ug/L			10/06/16 02:25	4
Hexachlorobutadiene	ND		1.6		ug/L			10/06/16 02:25	4
Isopropyl ether	ND		40		ug/L			10/06/16 02:25	4

TestAmerica Buffalo

Client Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-107013-1

Client Sample ID: MW-267S-20161004

Lab Sample ID: 480-107013-1

Date Collected: 10/04/16 13:30

Matrix: Water

Date Received: 10/05/16 01:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	ND		4.0		ug/L			10/06/16 02:25	4
Methyl tert-butyl ether	ND		4.0		ug/L			10/06/16 02:25	4
Methylene Chloride	ND		4.0		ug/L			10/06/16 02:25	4
m-Xylene & p-Xylene	ND		8.0		ug/L			10/06/16 02:25	4
Naphthalene	ND		20		ug/L			10/06/16 02:25	4
n-Butylbenzene	ND		4.0		ug/L			10/06/16 02:25	4
N-Propylbenzene	ND		4.0		ug/L			10/06/16 02:25	4
o-Xylene	ND		4.0		ug/L			10/06/16 02:25	4
sec-Butylbenzene	ND		4.0		ug/L			10/06/16 02:25	4
Styrene	ND		4.0		ug/L			10/06/16 02:25	4
Tert-amyl methyl ether	ND		20		ug/L			10/06/16 02:25	4
Tert-butyl ethyl ether	ND		20		ug/L			10/06/16 02:25	4
tert-Butylbenzene	ND		4.0		ug/L			10/06/16 02:25	4
Tetrachloroethene	ND		4.0		ug/L			10/06/16 02:25	4
Tetrahydrofuran	ND		40		ug/L			10/06/16 02:25	4
Toluene	100		4.0		ug/L			10/06/16 02:25	4
trans-1,2-Dichloroethene	ND		4.0		ug/L			10/06/16 02:25	4
trans-1,3-Dichloropropene	ND		1.6		ug/L			10/06/16 02:25	4
Trichloroethene	ND		4.0		ug/L			10/06/16 02:25	4
Trichlorofluoromethane	ND		4.0		ug/L			10/06/16 02:25	4
Vinyl chloride	21		4.0		ug/L			10/06/16 02:25	4
Dibromomethane	ND		4.0		ug/L			10/06/16 02:25	4

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>Toluene-d8 (Surr)</i>	91		70 - 130		10/06/16 02:25	4
<i>1,2-Dichloroethane-d4 (Surr)</i>	90		70 - 130		10/06/16 02:25	4
<i>4-Bromofluorobenzene (Surr)</i>	96		70 - 130		10/06/16 02:25	4

Method: 522 - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	6.7		0.20		ug/L		10/07/16 08:57	10/10/16 11:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>1,4-Dioxane-d8 (Surr)</i>	97		70 - 130	10/07/16 08:57	10/10/16 11:07	1

Method: 6010 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	360		0.050		mg/L		10/06/16 09:31	10/07/16 16:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	33		5.0		mg/L			10/06/16 12:42	10
Sulfate	ND		20		mg/L			10/06/16 12:42	10
Ammonia	0.22		0.20		mg/L		10/05/16 13:21	10/05/16 15:26	1
Nitrate as N	ND		0.050		mg/L			10/05/16 16:50	1
TOC Result 1	2100		40		mg/L			10/12/16 00:13	40
TOC Result 2	2100		40		mg/L			10/12/16 00:13	40
Total Organic Carbon - Duplicates	2100		40		mg/L			10/12/16 00:13	40
Alkalinity, Total	500		5.0		mg/L			10/06/16 18:25	1
ortho-Phosphate	0.19		0.020		mg/L			10/05/16 14:30	1

TestAmerica Buffalo

Client Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-107013-1

Client Sample ID: MW-267M-20161004

Lab Sample ID: 480-107013-2

Date Collected: 10/04/16 14:10

Matrix: Water

Date Received: 10/05/16 01:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			10/06/16 02:50	1
1,1,1-Trichloroethane	ND		1.0		ug/L			10/06/16 02:50	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			10/06/16 02:50	1
1,1,2-Trichloroethane	ND		1.0		ug/L			10/06/16 02:50	1
1,1-Dichloroethane	ND		1.0		ug/L			10/06/16 02:50	1
1,1-Dichloroethene	ND		1.0		ug/L			10/06/16 02:50	1
1,1-Dichloropropene	ND		1.0		ug/L			10/06/16 02:50	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			10/06/16 02:50	1
1,2,3-Trichloropropane	ND		1.0		ug/L			10/06/16 02:50	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			10/06/16 02:50	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			10/06/16 02:50	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			10/06/16 02:50	1
1,2-Dichlorobenzene	ND		1.0		ug/L			10/06/16 02:50	1
1,2-Dichloroethane	ND		1.0		ug/L			10/06/16 02:50	1
1,2-Dichloropropane	ND		1.0		ug/L			10/06/16 02:50	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			10/06/16 02:50	1
1,3-Dichlorobenzene	ND		1.0		ug/L			10/06/16 02:50	1
1,3-Dichloropropane	ND		1.0		ug/L			10/06/16 02:50	1
1,4-Dichlorobenzene	ND		1.0		ug/L			10/06/16 02:50	1
1,4-Dioxane	ND		50		ug/L			10/06/16 02:50	1
2,2-Dichloropropane	ND		1.0		ug/L			10/06/16 02:50	1
2-Butanone (MEK)	ND		10		ug/L			10/06/16 02:50	1
2-Chlorotoluene	ND		1.0		ug/L			10/06/16 02:50	1
2-Hexanone	ND		10		ug/L			10/06/16 02:50	1
4-Chlorotoluene	ND		1.0		ug/L			10/06/16 02:50	1
4-Isopropyltoluene	ND		1.0		ug/L			10/06/16 02:50	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			10/06/16 02:50	1
Acetone	ND		50		ug/L			10/06/16 02:50	1
Benzene	ND		1.0		ug/L			10/06/16 02:50	1
Bromobenzene	ND		1.0		ug/L			10/06/16 02:50	1
Bromoform	ND		1.0		ug/L			10/06/16 02:50	1
Bromomethane	ND		2.0		ug/L			10/06/16 02:50	1
Carbon disulfide	ND		10		ug/L			10/06/16 02:50	1
Carbon tetrachloride	ND		1.0		ug/L			10/06/16 02:50	1
Chlorobenzene	ND		1.0		ug/L			10/06/16 02:50	1
Chlorobromomethane	ND		1.0		ug/L			10/06/16 02:50	1
Chlorodibromomethane	ND		0.50		ug/L			10/06/16 02:50	1
Chloroethane	ND		2.0		ug/L			10/06/16 02:50	1
Chloroform	ND		1.0		ug/L			10/06/16 02:50	1
Chloromethane	ND		2.0		ug/L			10/06/16 02:50	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			10/06/16 02:50	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			10/06/16 02:50	1
Dichlorobromomethane	ND		0.50		ug/L			10/06/16 02:50	1
Dichlorodifluoromethane	ND		1.0		ug/L			10/06/16 02:50	1
Ethyl ether	ND		1.0		ug/L			10/06/16 02:50	1
Ethylbenzene	ND		1.0		ug/L			10/06/16 02:50	1
Ethylene Dibromide	ND		1.0		ug/L			10/06/16 02:50	1
Hexachlorobutadiene	ND		0.40		ug/L			10/06/16 02:50	1
Isopropyl ether	ND		10		ug/L			10/06/16 02:50	1

TestAmerica Buffalo

Client Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-107013-1

Client Sample ID: MW-267M-20161004

Lab Sample ID: 480-107013-2

Date Collected: 10/04/16 14:10

Matrix: Water

Date Received: 10/05/16 01:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	ND		1.0		ug/L			10/06/16 02:50	1
Methyl tert-butyl ether	ND		1.0		ug/L			10/06/16 02:50	1
Methylene Chloride	ND		1.0		ug/L			10/06/16 02:50	1
m-Xylene & p-Xylene	ND		2.0		ug/L			10/06/16 02:50	1
Naphthalene	ND		5.0		ug/L			10/06/16 02:50	1
n-Butylbenzene	ND		1.0		ug/L			10/06/16 02:50	1
N-Propylbenzene	ND		1.0		ug/L			10/06/16 02:50	1
o-Xylene	ND		1.0		ug/L			10/06/16 02:50	1
sec-Butylbenzene	ND		1.0		ug/L			10/06/16 02:50	1
Styrene	ND		1.0		ug/L			10/06/16 02:50	1
Tert-amyl methyl ether	ND		5.0		ug/L			10/06/16 02:50	1
Tert-butyl ethyl ether	ND		5.0		ug/L			10/06/16 02:50	1
tert-Butylbenzene	ND		1.0		ug/L			10/06/16 02:50	1
Tetrachloroethene	ND		1.0		ug/L			10/06/16 02:50	1
Tetrahydrofuran	ND		10		ug/L			10/06/16 02:50	1
Toluene	ND		1.0		ug/L			10/06/16 02:50	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			10/06/16 02:50	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			10/06/16 02:50	1
Trichloroethene	ND		1.0		ug/L			10/06/16 02:50	1
Trichlorofluoromethane	ND		1.0		ug/L			10/06/16 02:50	1
Vinyl chloride	ND		1.0		ug/L			10/06/16 02:50	1
Dibromomethane	ND		1.0		ug/L			10/06/16 02:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	90		70 - 130		10/06/16 02:50	1
1,2-Dichloroethane-d4 (Surr)	93		70 - 130		10/06/16 02:50	1
4-Bromofluorobenzene (Surr)	96		70 - 130		10/06/16 02:50	1

Method: 522 - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	3.8		0.20		ug/L		10/07/16 08:57	10/10/16 11:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	94		70 - 130	10/07/16 08:57	10/10/16 11:26	1

Client Sample ID: MW-268S-20161004

Lab Sample ID: 480-107013-3

Date Collected: 10/04/16 11:35

Matrix: Water

Date Received: 10/05/16 01:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		50		ug/L			10/06/16 03:14	50
1,1,1-Trichloroethane	ND		50		ug/L			10/06/16 03:14	50
1,1,2,2-Tetrachloroethane	ND		25		ug/L			10/06/16 03:14	50
1,1,2-Trichloroethane	ND		50		ug/L			10/06/16 03:14	50
1,1-Dichloroethane	ND		50		ug/L			10/06/16 03:14	50
1,1-Dichloroethene	ND		50		ug/L			10/06/16 03:14	50
1,1-Dichloropropene	ND		50		ug/L			10/06/16 03:14	50
1,2,3-Trichlorobenzene	ND		50		ug/L			10/06/16 03:14	50
1,2,3-Trichloropropane	ND		50		ug/L			10/06/16 03:14	50

TestAmerica Buffalo

Client Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-107013-1

Client Sample ID: MW-268S-20161004

Lab Sample ID: 480-107013-3

Date Collected: 10/04/16 11:35

Matrix: Water

Date Received: 10/05/16 01:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		50		ug/L			10/06/16 03:14	50
1,2,4-Trimethylbenzene	ND		50		ug/L			10/06/16 03:14	50
1,2-Dibromo-3-Chloropropane	ND		250		ug/L			10/06/16 03:14	50
1,2-Dichlorobenzene	ND		50		ug/L			10/06/16 03:14	50
1,2-Dichloroethane	ND		50		ug/L			10/06/16 03:14	50
1,2-Dichloropropane	ND		50		ug/L			10/06/16 03:14	50
1,3,5-Trimethylbenzene	ND		50		ug/L			10/06/16 03:14	50
1,3-Dichlorobenzene	ND		50		ug/L			10/06/16 03:14	50
1,3-Dichloropropane	ND		50		ug/L			10/06/16 03:14	50
1,4-Dichlorobenzene	ND		50		ug/L			10/06/16 03:14	50
1,4-Dioxane	ND		2500		ug/L			10/06/16 03:14	50
2,2-Dichloropropane	ND		50		ug/L			10/06/16 03:14	50
2-Butanone (MEK)	ND		500		ug/L			10/06/16 03:14	50
2-Chlorotoluene	ND		50		ug/L			10/06/16 03:14	50
2-Hexanone	ND		500		ug/L			10/06/16 03:14	50
4-Chlorotoluene	ND		50		ug/L			10/06/16 03:14	50
4-Isopropyltoluene	ND		50		ug/L			10/06/16 03:14	50
4-Methyl-2-pentanone (MIBK)	ND		500		ug/L			10/06/16 03:14	50
Acetone	ND		2500		ug/L			10/06/16 03:14	50
Benzene	ND		50		ug/L			10/06/16 03:14	50
Bromobenzene	ND		50		ug/L			10/06/16 03:14	50
Bromoform	ND		50		ug/L			10/06/16 03:14	50
Bromomethane	ND		100		ug/L			10/06/16 03:14	50
Carbon disulfide	ND		500		ug/L			10/06/16 03:14	50
Carbon tetrachloride	ND		50		ug/L			10/06/16 03:14	50
Chlorobenzene	ND		50		ug/L			10/06/16 03:14	50
Chlorobromomethane	ND		50		ug/L			10/06/16 03:14	50
Chlorodibromomethane	ND		25		ug/L			10/06/16 03:14	50
Chloroethane	ND		100		ug/L			10/06/16 03:14	50
Chloroform	ND		50		ug/L			10/06/16 03:14	50
Chloromethane	ND		100		ug/L			10/06/16 03:14	50
cis-1,2-Dichloroethene	ND		50		ug/L			10/06/16 03:14	50
cis-1,3-Dichloropropene	ND		20		ug/L			10/06/16 03:14	50
Dichlorobromomethane	ND		25		ug/L			10/06/16 03:14	50
Dichlorodifluoromethane	ND		50		ug/L			10/06/16 03:14	50
Ethyl ether	ND		50		ug/L			10/06/16 03:14	50
Ethylbenzene	ND		50		ug/L			10/06/16 03:14	50
Ethylene Dibromide	ND		50		ug/L			10/06/16 03:14	50
Hexachlorobutadiene	ND		20		ug/L			10/06/16 03:14	50
Isopropyl ether	ND		500		ug/L			10/06/16 03:14	50
Isopropylbenzene	ND		50		ug/L			10/06/16 03:14	50
Methyl tert-butyl ether	ND		50		ug/L			10/06/16 03:14	50
Methylene Chloride	ND		50		ug/L			10/06/16 03:14	50
m-Xylene & p-Xylene	ND		100		ug/L			10/06/16 03:14	50
Naphthalene	ND		250		ug/L			10/06/16 03:14	50
n-Butylbenzene	ND		50		ug/L			10/06/16 03:14	50
N-Propylbenzene	ND		50		ug/L			10/06/16 03:14	50
o-Xylene	ND		50		ug/L			10/06/16 03:14	50
sec-Butylbenzene	ND		50		ug/L			10/06/16 03:14	50

TestAmerica Buffalo

Client Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-107013-1

Client Sample ID: MW-268S-20161004

Lab Sample ID: 480-107013-3

Date Collected: 10/04/16 11:35

Matrix: Water

Date Received: 10/05/16 01:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	ND		50		ug/L			10/06/16 03:14	50
Tert-amyl methyl ether	ND		250		ug/L			10/06/16 03:14	50
Tert-butyl ethyl ether	ND		250		ug/L			10/06/16 03:14	50
tert-Butylbenzene	ND		50		ug/L			10/06/16 03:14	50
Tetrachloroethene	ND		50		ug/L			10/06/16 03:14	50
Tetrahydrofuran	ND		500		ug/L			10/06/16 03:14	50
Toluene	ND		50		ug/L			10/06/16 03:14	50
trans-1,2-Dichloroethene	ND		50		ug/L			10/06/16 03:14	50
trans-1,3-Dichloropropene	ND		20		ug/L			10/06/16 03:14	50
Trichloroethene	ND		50		ug/L			10/06/16 03:14	50
Trichlorofluoromethane	ND		50		ug/L			10/06/16 03:14	50
Vinyl chloride	ND		50		ug/L			10/06/16 03:14	50
Dibromomethane	ND		50		ug/L			10/06/16 03:14	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	91		70 - 130		10/06/16 03:14	50
1,2-Dichloroethane-d4 (Surr)	87		70 - 130		10/06/16 03:14	50
4-Bromofluorobenzene (Surr)	96		70 - 130		10/06/16 03:14	50

Method: 522 - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.54		0.20		ug/L		10/07/16 08:57	10/07/16 15:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	12	X	70 - 130	10/07/16 08:57	10/07/16 15:59	1

Method: 6010 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	1.6		0.050		mg/L		10/06/16 09:31	10/07/16 16:30	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	26		25		mg/L			10/10/16 12:50	50
Sulfate	ND		10		mg/L			10/11/16 10:57	5
Ammonia	0.72		0.20		mg/L		10/05/16 13:21	10/05/16 15:27	1
Nitrate as N	ND		0.050		mg/L			10/05/16 16:52	1
TOC Result 1	57000		1000		mg/L			10/07/16 23:31	1000
TOC Result 2	59000		1000		mg/L			10/07/16 23:31	1000
Total Organic Carbon - Duplicates	58000		1000		mg/L			10/07/16 23:31	1000
Alkalinity, Total	10000		5.0		mg/L			10/12/16 14:55	1
ortho-Phosphate	0.049		0.020		mg/L			10/05/16 14:30	1

Client Sample ID: MW-268M-20161004

Lab Sample ID: 480-107013-4

Date Collected: 10/04/16 12:20

Matrix: Water

Date Received: 10/05/16 01:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		20		ug/L			10/06/16 03:39	20
1,1,1-Trichloroethane	ND		20		ug/L			10/06/16 03:39	20
1,1,2,2-Tetrachloroethane	ND		10		ug/L			10/06/16 03:39	20

TestAmerica Buffalo

Client Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-107013-1

Client Sample ID: MW-268M-20161004

Lab Sample ID: 480-107013-4

Date Collected: 10/04/16 12:20

Matrix: Water

Date Received: 10/05/16 01:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	ND		20		ug/L			10/06/16 03:39	20
1,1-Dichloroethane	ND		20		ug/L			10/06/16 03:39	20
1,1-Dichloroethene	ND		20		ug/L			10/06/16 03:39	20
1,1-Dichloropropene	ND		20		ug/L			10/06/16 03:39	20
1,2,3-Trichlorobenzene	ND		20		ug/L			10/06/16 03:39	20
1,2,3-Trichloropropane	ND		20		ug/L			10/06/16 03:39	20
1,2,4-Trichlorobenzene	ND		20		ug/L			10/06/16 03:39	20
1,2,4-Trimethylbenzene	ND		20		ug/L			10/06/16 03:39	20
1,2-Dibromo-3-Chloropropane	ND		100		ug/L			10/06/16 03:39	20
1,2-Dichlorobenzene	ND		20		ug/L			10/06/16 03:39	20
1,2-Dichloroethane	ND		20		ug/L			10/06/16 03:39	20
1,2-Dichloropropane	ND		20		ug/L			10/06/16 03:39	20
1,3,5-Trimethylbenzene	ND		20		ug/L			10/06/16 03:39	20
1,3-Dichlorobenzene	ND		20		ug/L			10/06/16 03:39	20
1,3-Dichloropropane	ND		20		ug/L			10/06/16 03:39	20
1,4-Dichlorobenzene	ND		20		ug/L			10/06/16 03:39	20
1,4-Dioxane	ND		1000		ug/L			10/06/16 03:39	20
2,2-Dichloropropane	ND		20		ug/L			10/06/16 03:39	20
2-Butanone (MEK)	200		200		ug/L			10/06/16 03:39	20
2-Chlorotoluene	ND		20		ug/L			10/06/16 03:39	20
2-Hexanone	ND		200		ug/L			10/06/16 03:39	20
4-Chlorotoluene	ND		20		ug/L			10/06/16 03:39	20
4-Isopropyltoluene	ND		20		ug/L			10/06/16 03:39	20
4-Methyl-2-pentanone (MIBK)	ND		200		ug/L			10/06/16 03:39	20
Acetone	ND		1000		ug/L			10/06/16 03:39	20
Benzene	ND		20		ug/L			10/06/16 03:39	20
Bromobenzene	ND		20		ug/L			10/06/16 03:39	20
Bromoform	ND		20		ug/L			10/06/16 03:39	20
Bromomethane	ND		40		ug/L			10/06/16 03:39	20
Carbon disulfide	ND		200		ug/L			10/06/16 03:39	20
Carbon tetrachloride	ND		20		ug/L			10/06/16 03:39	20
Chlorobenzene	ND		20		ug/L			10/06/16 03:39	20
Chlorobromomethane	ND		20		ug/L			10/06/16 03:39	20
Chlorodibromomethane	ND		10		ug/L			10/06/16 03:39	20
Chloroethane	ND		40		ug/L			10/06/16 03:39	20
Chloroform	ND		20		ug/L			10/06/16 03:39	20
Chloromethane	ND		40		ug/L			10/06/16 03:39	20
cis-1,2-Dichloroethene	440		20		ug/L			10/06/16 03:39	20
cis-1,3-Dichloropropene	ND		8.0		ug/L			10/06/16 03:39	20
Dichlorobromomethane	ND		10		ug/L			10/06/16 03:39	20
Dichlorodifluoromethane	ND		20		ug/L			10/06/16 03:39	20
Ethyl ether	ND		20		ug/L			10/06/16 03:39	20
Ethylbenzene	ND		20		ug/L			10/06/16 03:39	20
Ethylene Dibromide	ND		20		ug/L			10/06/16 03:39	20
Hexachlorobutadiene	ND		8.0		ug/L			10/06/16 03:39	20
Isopropyl ether	ND		200		ug/L			10/06/16 03:39	20
Isopropylbenzene	ND		20		ug/L			10/06/16 03:39	20
Methyl tert-butyl ether	ND		20		ug/L			10/06/16 03:39	20
Methylene Chloride	ND		20		ug/L			10/06/16 03:39	20

TestAmerica Buffalo

Client Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-107013-1

Client Sample ID: MW-268M-20161004

Lab Sample ID: 480-107013-4

Date Collected: 10/04/16 12:20

Matrix: Water

Date Received: 10/05/16 01:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	ND		40		ug/L			10/06/16 03:39	20
Naphthalene	ND		100		ug/L			10/06/16 03:39	20
n-Butylbenzene	ND		20		ug/L			10/06/16 03:39	20
N-Propylbenzene	ND		20		ug/L			10/06/16 03:39	20
o-Xylene	ND		20		ug/L			10/06/16 03:39	20
sec-Butylbenzene	ND		20		ug/L			10/06/16 03:39	20
Styrene	ND		20		ug/L			10/06/16 03:39	20
Tert-amyl methyl ether	ND		100		ug/L			10/06/16 03:39	20
Tert-butyl ethyl ether	ND		100		ug/L			10/06/16 03:39	20
tert-Butylbenzene	ND		20		ug/L			10/06/16 03:39	20
Tetrachloroethene	ND		20		ug/L			10/06/16 03:39	20
Tetrahydrofuran	ND		200		ug/L			10/06/16 03:39	20
Toluene	ND		20		ug/L			10/06/16 03:39	20
trans-1,2-Dichloroethene	ND		20		ug/L			10/06/16 03:39	20
trans-1,3-Dichloropropene	ND		8.0		ug/L			10/06/16 03:39	20
Trichloroethene	ND		20		ug/L			10/06/16 03:39	20
Trichlorofluoromethane	ND		20		ug/L			10/06/16 03:39	20
Vinyl chloride	47		20		ug/L			10/06/16 03:39	20
Dibromomethane	ND		20		ug/L			10/06/16 03:39	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	90		70 - 130		10/06/16 03:39	20
1,2-Dichloroethane-d4 (Surr)	87		70 - 130		10/06/16 03:39	20
4-Bromofluorobenzene (Surr)	96		70 - 130		10/06/16 03:39	20

Method: 522 - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	6.7	F1	0.20		ug/L		10/07/16 08:57	10/10/16 11:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	90		70 - 130	10/07/16 08:57	10/10/16 11:44	1

Method: 6010 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	2.1		0.050		mg/L		10/06/16 09:31	10/07/16 16:33	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	38	F1	25		mg/L			10/10/16 12:59	50
Sulfate	ND	F1	100		mg/L			10/10/16 12:59	50
Ammonia	0.42		0.20		mg/L		10/05/16 13:21	10/05/16 15:28	1
Nitrate as N	ND		0.050		mg/L			10/05/16 16:53	1
TOC Result 1	15000		500		mg/L			10/07/16 23:59	500
TOC Result 2	16000		500		mg/L			10/07/16 23:59	500
Total Organic Carbon - Duplicates	15000		500		mg/L			10/07/16 23:59	500
Alkalinity, Total	11000		5.0		mg/L			10/12/16 14:55	1
ortho-Phosphate	ND		0.020		mg/L			10/05/16 14:30	1

TestAmerica Buffalo

Client Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-107013-1

Client Sample ID: MW-268D-20161004

Lab Sample ID: 480-107013-5

Date Collected: 10/04/16 13:00

Matrix: Water

Date Received: 10/05/16 01:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.0		ug/L			10/06/16 04:03	5
1,1,1-Trichloroethane	ND		5.0		ug/L			10/06/16 04:03	5
1,1,2,2-Tetrachloroethane	ND		2.5		ug/L			10/06/16 04:03	5
1,1,2-Trichloroethane	ND		5.0		ug/L			10/06/16 04:03	5
1,1-Dichloroethane	ND		5.0		ug/L			10/06/16 04:03	5
1,1-Dichloroethene	ND		5.0		ug/L			10/06/16 04:03	5
1,1-Dichloropropene	ND		5.0		ug/L			10/06/16 04:03	5
1,2,3-Trichlorobenzene	ND		5.0		ug/L			10/06/16 04:03	5
1,2,3-Trichloropropane	ND		5.0		ug/L			10/06/16 04:03	5
1,2,4-Trichlorobenzene	ND		5.0		ug/L			10/06/16 04:03	5
1,2,4-Trimethylbenzene	ND		5.0		ug/L			10/06/16 04:03	5
1,2-Dibromo-3-Chloropropane	ND		25		ug/L			10/06/16 04:03	5
1,2-Dichlorobenzene	ND		5.0		ug/L			10/06/16 04:03	5
1,2-Dichloroethane	ND		5.0		ug/L			10/06/16 04:03	5
1,2-Dichloropropane	ND		5.0		ug/L			10/06/16 04:03	5
1,3,5-Trimethylbenzene	ND		5.0		ug/L			10/06/16 04:03	5
1,3-Dichlorobenzene	ND		5.0		ug/L			10/06/16 04:03	5
1,3-Dichloropropane	ND		5.0		ug/L			10/06/16 04:03	5
1,4-Dichlorobenzene	ND		5.0		ug/L			10/06/16 04:03	5
1,4-Dioxane	ND		250		ug/L			10/06/16 04:03	5
2,2-Dichloropropane	ND		5.0		ug/L			10/06/16 04:03	5
2-Butanone (MEK)	ND		50		ug/L			10/06/16 04:03	5
2-Chlorotoluene	ND		5.0		ug/L			10/06/16 04:03	5
2-Hexanone	ND		50		ug/L			10/06/16 04:03	5
4-Chlorotoluene	ND		5.0		ug/L			10/06/16 04:03	5
4-Isopropyltoluene	ND		5.0		ug/L			10/06/16 04:03	5
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			10/06/16 04:03	5
Acetone	ND		250		ug/L			10/06/16 04:03	5
Benzene	ND		5.0		ug/L			10/06/16 04:03	5
Bromobenzene	ND		5.0		ug/L			10/06/16 04:03	5
Bromoform	ND		5.0		ug/L			10/06/16 04:03	5
Bromomethane	ND		10		ug/L			10/06/16 04:03	5
Carbon disulfide	ND		50		ug/L			10/06/16 04:03	5
Carbon tetrachloride	ND		5.0		ug/L			10/06/16 04:03	5
Chlorobenzene	ND		5.0		ug/L			10/06/16 04:03	5
Chlorobromomethane	ND		5.0		ug/L			10/06/16 04:03	5
Chlorodibromomethane	ND		2.5		ug/L			10/06/16 04:03	5
Chloroethane	ND		10		ug/L			10/06/16 04:03	5
Chloroform	ND		5.0		ug/L			10/06/16 04:03	5
Chloromethane	ND		10		ug/L			10/06/16 04:03	5
cis-1,2-Dichloroethene	ND		5.0		ug/L			10/06/16 04:03	5
cis-1,3-Dichloropropene	ND		2.0		ug/L			10/06/16 04:03	5
Dichlorobromomethane	ND		2.5		ug/L			10/06/16 04:03	5
Dichlorodifluoromethane	ND		5.0		ug/L			10/06/16 04:03	5
Ethyl ether	ND		5.0		ug/L			10/06/16 04:03	5
Ethylbenzene	ND		5.0		ug/L			10/06/16 04:03	5
Ethylene Dibromide	ND		5.0		ug/L			10/06/16 04:03	5
Hexachlorobutadiene	ND		2.0		ug/L			10/06/16 04:03	5
Isopropyl ether	ND		50		ug/L			10/06/16 04:03	5

TestAmerica Buffalo

Client Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-107013-1

Client Sample ID: MW-268D-20161004

Lab Sample ID: 480-107013-5

Date Collected: 10/04/16 13:00

Matrix: Water

Date Received: 10/05/16 01:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	ND		5.0		ug/L			10/06/16 04:03	5
Methyl tert-butyl ether	ND		5.0		ug/L			10/06/16 04:03	5
Methylene Chloride	ND		5.0		ug/L			10/06/16 04:03	5
m-Xylene & p-Xylene	ND		10		ug/L			10/06/16 04:03	5
Naphthalene	ND		25		ug/L			10/06/16 04:03	5
n-Butylbenzene	ND		5.0		ug/L			10/06/16 04:03	5
N-Propylbenzene	ND		5.0		ug/L			10/06/16 04:03	5
o-Xylene	ND		5.0		ug/L			10/06/16 04:03	5
sec-Butylbenzene	ND		5.0		ug/L			10/06/16 04:03	5
Styrene	ND		5.0		ug/L			10/06/16 04:03	5
Tert-amyl methyl ether	ND		25		ug/L			10/06/16 04:03	5
Tert-butyl ethyl ether	ND		25		ug/L			10/06/16 04:03	5
tert-Butylbenzene	ND		5.0		ug/L			10/06/16 04:03	5
Tetrachloroethene	ND		5.0		ug/L			10/06/16 04:03	5
Tetrahydrofuran	ND		50		ug/L			10/06/16 04:03	5
Toluene	ND		5.0		ug/L			10/06/16 04:03	5
trans-1,2-Dichloroethene	ND		5.0		ug/L			10/06/16 04:03	5
trans-1,3-Dichloropropene	ND		2.0		ug/L			10/06/16 04:03	5
Trichloroethene	ND		5.0		ug/L			10/06/16 04:03	5
Trichlorofluoromethane	ND		5.0		ug/L			10/06/16 04:03	5
Vinyl chloride	ND		5.0		ug/L			10/06/16 04:03	5
Dibromomethane	ND		5.0		ug/L			10/06/16 04:03	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	88		70 - 130		10/06/16 04:03	5
1,2-Dichloroethane-d4 (Surr)	97		70 - 130		10/06/16 04:03	5
4-Bromofluorobenzene (Surr)	95		70 - 130		10/06/16 04:03	5

Client Sample ID: REW-1-20161004

Lab Sample ID: 480-107013-6

Date Collected: 10/04/16 08:35

Matrix: Water

Date Received: 10/05/16 01:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			10/06/16 04:27	1
1,1,1-Trichloroethane	ND		1.0		ug/L			10/06/16 04:27	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			10/06/16 04:27	1
1,1,2-Trichloroethane	ND		1.0		ug/L			10/06/16 04:27	1
1,1-Dichloroethane	ND		1.0		ug/L			10/06/16 04:27	1
1,1-Dichloroethene	ND		1.0		ug/L			10/06/16 04:27	1
1,1-Dichloropropene	ND		1.0		ug/L			10/06/16 04:27	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			10/06/16 04:27	1
1,2,3-Trichloropropane	ND		1.0		ug/L			10/06/16 04:27	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			10/06/16 04:27	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			10/06/16 04:27	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			10/06/16 04:27	1
1,2-Dichlorobenzene	ND		1.0		ug/L			10/06/16 04:27	1
1,2-Dichloroethane	ND		1.0		ug/L			10/06/16 04:27	1
1,2-Dichloropropane	ND		1.0		ug/L			10/06/16 04:27	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			10/06/16 04:27	1

TestAmerica Buffalo

Client Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-107013-1

Client Sample ID: REW-1-20161004

Lab Sample ID: 480-107013-6

Date Collected: 10/04/16 08:35

Matrix: Water

Date Received: 10/05/16 01:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	ND		1.0		ug/L			10/06/16 04:27	1
1,3-Dichloropropane	ND		1.0		ug/L			10/06/16 04:27	1
1,4-Dichlorobenzene	ND		1.0		ug/L			10/06/16 04:27	1
1,4-Dioxane	ND		50		ug/L			10/06/16 04:27	1
2,2-Dichloropropane	ND		1.0		ug/L			10/06/16 04:27	1
2-Butanone (MEK)	ND		10		ug/L			10/06/16 04:27	1
2-Chlorotoluene	ND		1.0		ug/L			10/06/16 04:27	1
2-Hexanone	ND		10		ug/L			10/06/16 04:27	1
4-Chlorotoluene	ND		1.0		ug/L			10/06/16 04:27	1
4-Isopropyltoluene	ND		1.0		ug/L			10/06/16 04:27	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			10/06/16 04:27	1
Acetone	ND		50		ug/L			10/06/16 04:27	1
Benzene	ND		1.0		ug/L			10/06/16 04:27	1
Bromobenzene	ND		1.0		ug/L			10/06/16 04:27	1
Bromoform	ND		1.0		ug/L			10/06/16 04:27	1
Bromomethane	ND		2.0		ug/L			10/06/16 04:27	1
Carbon disulfide	ND		10		ug/L			10/06/16 04:27	1
Carbon tetrachloride	ND		1.0		ug/L			10/06/16 04:27	1
Chlorobenzene	ND		1.0		ug/L			10/06/16 04:27	1
Chlorobromomethane	ND		1.0		ug/L			10/06/16 04:27	1
Chlorodibromomethane	ND		0.50		ug/L			10/06/16 04:27	1
Chloroethane	ND		2.0		ug/L			10/06/16 04:27	1
Chloroform	ND		1.0		ug/L			10/06/16 04:27	1
Chloromethane	ND		2.0		ug/L			10/06/16 04:27	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			10/06/16 04:27	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			10/06/16 04:27	1
Dichlorobromomethane	ND		0.50		ug/L			10/06/16 04:27	1
Dichlorodifluoromethane	ND		1.0		ug/L			10/06/16 04:27	1
Ethyl ether	ND		1.0		ug/L			10/06/16 04:27	1
Ethylbenzene	1.1		1.0		ug/L			10/06/16 04:27	1
Ethylene Dibromide	ND		1.0		ug/L			10/06/16 04:27	1
Hexachlorobutadiene	ND		0.40		ug/L			10/06/16 04:27	1
Isopropyl ether	ND		10		ug/L			10/06/16 04:27	1
Isopropylbenzene	ND		1.0		ug/L			10/06/16 04:27	1
Methyl tert-butyl ether	ND		1.0		ug/L			10/06/16 04:27	1
Methylene Chloride	ND		1.0		ug/L			10/06/16 04:27	1
m-Xylene & p-Xylene	2.4		2.0		ug/L			10/06/16 04:27	1
Naphthalene	ND		5.0		ug/L			10/06/16 04:27	1
n-Butylbenzene	ND		1.0		ug/L			10/06/16 04:27	1
N-Propylbenzene	ND		1.0		ug/L			10/06/16 04:27	1
o-Xylene	1.4		1.0		ug/L			10/06/16 04:27	1
sec-Butylbenzene	ND		1.0		ug/L			10/06/16 04:27	1
Styrene	ND		1.0		ug/L			10/06/16 04:27	1
Tert-amyl methyl ether	ND		5.0		ug/L			10/06/16 04:27	1
Tert-butyl ethyl ether	ND		5.0		ug/L			10/06/16 04:27	1
tert-Butylbenzene	ND		1.0		ug/L			10/06/16 04:27	1
Tetrachloroethene	ND		1.0		ug/L			10/06/16 04:27	1
Tetrahydrofuran	ND		10		ug/L			10/06/16 04:27	1
Toluene	ND		1.0		ug/L			10/06/16 04:27	1

TestAmerica Buffalo

Client Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-107013-1

Client Sample ID: REW-1-20161004

Lab Sample ID: 480-107013-6

Date Collected: 10/04/16 08:35

Matrix: Water

Date Received: 10/05/16 01:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	ND		1.0		ug/L			10/06/16 04:27	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			10/06/16 04:27	1
Trichloroethene	ND		1.0		ug/L			10/06/16 04:27	1
Trichlorofluoromethane	ND		1.0		ug/L			10/06/16 04:27	1
Vinyl chloride	ND		1.0		ug/L			10/06/16 04:27	1
Dibromomethane	ND		1.0		ug/L			10/06/16 04:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	89		70 - 130		10/06/16 04:27	1
1,2-Dichloroethane-d4 (Surr)	90		70 - 130		10/06/16 04:27	1
4-Bromofluorobenzene (Surr)	97		70 - 130		10/06/16 04:27	1

Method: 6010 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	37		0.050		mg/L		10/06/16 09:31	10/07/16 16:37	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	13		2.5		mg/L			10/06/16 13:06	5
Sulfate	13		10		mg/L			10/06/16 13:06	5
Ammonia	0.50		0.20		mg/L		10/05/16 13:21	10/05/16 15:29	1
Nitrate as N	ND		0.050		mg/L			10/05/16 16:54	1
TOC Result 1	1.1		1.0		mg/L			10/06/16 10:17	1
TOC Result 2	1.2		1.0		mg/L			10/06/16 10:17	1
Total Organic Carbon - Duplicates	1.1		1.0		mg/L			10/06/16 10:17	1
Alkalinity, Total	280		5.0		mg/L			10/06/16 18:32	1
ortho-Phosphate	0.19		0.020		mg/L			10/05/16 14:30	1

Client Sample ID: REW-4-20161004

Lab Sample ID: 480-107013-7

Date Collected: 10/04/16 09:20

Matrix: Water

Date Received: 10/05/16 01:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			10/06/16 14:45	1
1,1,1-Trichloroethane	ND		1.0		ug/L			10/06/16 14:45	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			10/06/16 14:45	1
1,1,2-Trichloroethane	ND		1.0		ug/L			10/06/16 14:45	1
1,1-Dichloroethane	ND		1.0		ug/L			10/06/16 14:45	1
1,1-Dichloroethene	ND		1.0		ug/L			10/06/16 14:45	1
1,1-Dichloropropene	ND		1.0		ug/L			10/06/16 14:45	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			10/06/16 14:45	1
1,2,3-Trichloropropane	ND		1.0		ug/L			10/06/16 14:45	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			10/06/16 14:45	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			10/06/16 14:45	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			10/06/16 14:45	1
1,2-Dichlorobenzene	ND		1.0		ug/L			10/06/16 14:45	1
1,2-Dichloroethane	ND		1.0		ug/L			10/06/16 14:45	1
1,2-Dichloropropane	ND		1.0		ug/L			10/06/16 14:45	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			10/06/16 14:45	1

TestAmerica Buffalo

Client Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-107013-1

Client Sample ID: REW-4-20161004

Lab Sample ID: 480-107013-7

Date Collected: 10/04/16 09:20

Matrix: Water

Date Received: 10/05/16 01:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	ND		1.0		ug/L			10/06/16 14:45	1
1,3-Dichloropropane	ND		1.0		ug/L			10/06/16 14:45	1
1,4-Dichlorobenzene	ND		1.0		ug/L			10/06/16 14:45	1
1,4-Dioxane	ND	*	50		ug/L			10/06/16 14:45	1
2,2-Dichloropropane	ND		1.0		ug/L			10/06/16 14:45	1
2-Butanone (MEK)	ND		10		ug/L			10/06/16 14:45	1
2-Chlorotoluene	ND		1.0		ug/L			10/06/16 14:45	1
2-Hexanone	ND		10		ug/L			10/06/16 14:45	1
4-Chlorotoluene	ND		1.0		ug/L			10/06/16 14:45	1
4-Isopropyltoluene	ND		1.0		ug/L			10/06/16 14:45	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			10/06/16 14:45	1
Acetone	ND		50		ug/L			10/06/16 14:45	1
Benzene	ND		1.0		ug/L			10/06/16 14:45	1
Bromobenzene	ND		1.0		ug/L			10/06/16 14:45	1
Bromoform	ND		1.0		ug/L			10/06/16 14:45	1
Bromomethane	ND		2.0		ug/L			10/06/16 14:45	1
Carbon disulfide	ND		10		ug/L			10/06/16 14:45	1
Carbon tetrachloride	ND		1.0		ug/L			10/06/16 14:45	1
Chlorobenzene	ND		1.0		ug/L			10/06/16 14:45	1
Chlorobromomethane	ND		1.0		ug/L			10/06/16 14:45	1
Chlorodibromomethane	ND		0.50		ug/L			10/06/16 14:45	1
Chloroethane	ND		2.0		ug/L			10/06/16 14:45	1
Chloroform	ND		1.0		ug/L			10/06/16 14:45	1
Chloromethane	ND		2.0		ug/L			10/06/16 14:45	1
cis-1,2-Dichloroethene	5.1		1.0		ug/L			10/06/16 14:45	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			10/06/16 14:45	1
Dichlorobromomethane	ND		0.50		ug/L			10/06/16 14:45	1
Dichlorodifluoromethane	ND		1.0		ug/L			10/06/16 14:45	1
Ethyl ether	ND		1.0		ug/L			10/06/16 14:45	1
Ethylbenzene	ND		1.0		ug/L			10/06/16 14:45	1
Ethylene Dibromide	ND		1.0		ug/L			10/06/16 14:45	1
Hexachlorobutadiene	ND		0.40		ug/L			10/06/16 14:45	1
Isopropyl ether	ND		10		ug/L			10/06/16 14:45	1
Isopropylbenzene	ND		1.0		ug/L			10/06/16 14:45	1
Methyl tert-butyl ether	ND		1.0		ug/L			10/06/16 14:45	1
Methylene Chloride	ND		1.0		ug/L			10/06/16 14:45	1
m-Xylene & p-Xylene	2.9		2.0		ug/L			10/06/16 14:45	1
Naphthalene	ND		5.0		ug/L			10/06/16 14:45	1
n-Butylbenzene	ND		1.0		ug/L			10/06/16 14:45	1
N-Propylbenzene	ND		1.0		ug/L			10/06/16 14:45	1
o-Xylene	ND		1.0		ug/L			10/06/16 14:45	1
sec-Butylbenzene	ND		1.0		ug/L			10/06/16 14:45	1
Styrene	ND		1.0		ug/L			10/06/16 14:45	1
Tert-amyl methyl ether	ND		5.0		ug/L			10/06/16 14:45	1
Tert-butyl ethyl ether	ND		5.0		ug/L			10/06/16 14:45	1
tert-Butylbenzene	ND		1.0		ug/L			10/06/16 14:45	1
Tetrachloroethene	ND		1.0		ug/L			10/06/16 14:45	1
Tetrahydrofuran	ND		10		ug/L			10/06/16 14:45	1
Toluene	ND		1.0		ug/L			10/06/16 14:45	1

TestAmerica Buffalo

Client Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-107013-1

Client Sample ID: REW-4-20161004

Lab Sample ID: 480-107013-7

Date Collected: 10/04/16 09:20

Matrix: Water

Date Received: 10/05/16 01:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	ND		1.0		ug/L			10/06/16 14:45	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			10/06/16 14:45	1
Trichloroethene	ND		1.0		ug/L			10/06/16 14:45	1
Trichlorofluoromethane	ND		1.0		ug/L			10/06/16 14:45	1
Vinyl chloride	1.4		1.0		ug/L			10/06/16 14:45	1
Dibromomethane	ND		1.0		ug/L			10/06/16 14:45	1

Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	90		70 - 130			10/06/16 14:45	1
1,2-Dichloroethane-d4 (Surr)	91		70 - 130			10/06/16 14:45	1
4-Bromofluorobenzene (Surr)	98		70 - 130			10/06/16 14:45	1

Method: 6010 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	13		0.050		mg/L		10/06/16 09:31	10/07/16 16:51	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9.2		2.5		mg/L			10/06/16 13:15	5
Sulfate	ND		10		mg/L			10/06/16 13:15	5
Ammonia	6.2		1.0		mg/L		10/05/16 13:21	10/05/16 15:38	5
Nitrate as N	ND		0.050		mg/L			10/05/16 16:55	1
TOC Result 1	2.3		1.0		mg/L			10/06/16 11:13	1
TOC Result 2	2.4		1.0		mg/L			10/06/16 11:13	1
Total Organic Carbon - Duplicates	2.3		1.0		mg/L			10/06/16 11:13	1
Alkalinity, Total	270		5.0		mg/L			10/06/16 18:39	1
ortho-Phosphate	0.75		0.020		mg/L			10/05/16 14:30	1

Client Sample ID: REW-5-20161004

Lab Sample ID: 480-107013-8

Date Collected: 10/04/16 10:05

Matrix: Water

Date Received: 10/05/16 01:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			10/06/16 05:15	1
1,1,1-Trichloroethane	ND		1.0		ug/L			10/06/16 05:15	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			10/06/16 05:15	1
1,1,2-Trichloroethane	ND		1.0		ug/L			10/06/16 05:15	1
1,1-Dichloroethane	ND		1.0		ug/L			10/06/16 05:15	1
1,1-Dichloroethene	ND		1.0		ug/L			10/06/16 05:15	1
1,1-Dichloropropene	ND		1.0		ug/L			10/06/16 05:15	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			10/06/16 05:15	1
1,2,3-Trichloropropane	ND		1.0		ug/L			10/06/16 05:15	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			10/06/16 05:15	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			10/06/16 05:15	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			10/06/16 05:15	1
1,2-Dichlorobenzene	ND		1.0		ug/L			10/06/16 05:15	1
1,2-Dichloroethane	ND		1.0		ug/L			10/06/16 05:15	1
1,2-Dichloropropane	ND		1.0		ug/L			10/06/16 05:15	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			10/06/16 05:15	1

TestAmerica Buffalo

Client Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-107013-1

Client Sample ID: REW-5-20161004

Lab Sample ID: 480-107013-8

Date Collected: 10/04/16 10:05

Matrix: Water

Date Received: 10/05/16 01:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	ND		1.0		ug/L			10/06/16 05:15	1
1,3-Dichloropropane	ND		1.0		ug/L			10/06/16 05:15	1
1,4-Dichlorobenzene	ND		1.0		ug/L			10/06/16 05:15	1
1,4-Dioxane	ND		50		ug/L			10/06/16 05:15	1
2,2-Dichloropropane	ND		1.0		ug/L			10/06/16 05:15	1
2-Butanone (MEK)	ND		10		ug/L			10/06/16 05:15	1
2-Chlorotoluene	ND		1.0		ug/L			10/06/16 05:15	1
2-Hexanone	ND		10		ug/L			10/06/16 05:15	1
4-Chlorotoluene	ND		1.0		ug/L			10/06/16 05:15	1
4-Isopropyltoluene	ND		1.0		ug/L			10/06/16 05:15	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			10/06/16 05:15	1
Acetone	ND		50		ug/L			10/06/16 05:15	1
Benzene	ND		1.0		ug/L			10/06/16 05:15	1
Bromobenzene	ND		1.0		ug/L			10/06/16 05:15	1
Bromoform	ND		1.0		ug/L			10/06/16 05:15	1
Bromomethane	ND		2.0		ug/L			10/06/16 05:15	1
Carbon disulfide	ND		10		ug/L			10/06/16 05:15	1
Carbon tetrachloride	ND		1.0		ug/L			10/06/16 05:15	1
Chlorobenzene	ND		1.0		ug/L			10/06/16 05:15	1
Chlorobromomethane	ND		1.0		ug/L			10/06/16 05:15	1
Chlorodibromomethane	ND		0.50		ug/L			10/06/16 05:15	1
Chloroethane	ND		2.0		ug/L			10/06/16 05:15	1
Chloroform	ND		1.0		ug/L			10/06/16 05:15	1
Chloromethane	ND		2.0		ug/L			10/06/16 05:15	1
cis-1,2-Dichloroethene	2.3		1.0		ug/L			10/06/16 05:15	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			10/06/16 05:15	1
Dichlorobromomethane	ND		0.50		ug/L			10/06/16 05:15	1
Dichlorodifluoromethane	ND		1.0		ug/L			10/06/16 05:15	1
Ethyl ether	ND		1.0		ug/L			10/06/16 05:15	1
Ethylbenzene	ND		1.0		ug/L			10/06/16 05:15	1
Ethylene Dibromide	ND		1.0		ug/L			10/06/16 05:15	1
Hexachlorobutadiene	ND		0.40		ug/L			10/06/16 05:15	1
Isopropyl ether	ND		10		ug/L			10/06/16 05:15	1
Isopropylbenzene	ND		1.0		ug/L			10/06/16 05:15	1
Methyl tert-butyl ether	ND		1.0		ug/L			10/06/16 05:15	1
Methylene Chloride	ND		1.0		ug/L			10/06/16 05:15	1
m-Xylene & p-Xylene	ND		2.0		ug/L			10/06/16 05:15	1
Naphthalene	ND		5.0		ug/L			10/06/16 05:15	1
n-Butylbenzene	ND		1.0		ug/L			10/06/16 05:15	1
N-Propylbenzene	ND		1.0		ug/L			10/06/16 05:15	1
o-Xylene	ND		1.0		ug/L			10/06/16 05:15	1
sec-Butylbenzene	ND		1.0		ug/L			10/06/16 05:15	1
Styrene	ND		1.0		ug/L			10/06/16 05:15	1
Tert-amyl methyl ether	ND		5.0		ug/L			10/06/16 05:15	1
Tert-butyl ethyl ether	ND		5.0		ug/L			10/06/16 05:15	1
tert-Butylbenzene	ND		1.0		ug/L			10/06/16 05:15	1
Tetrachloroethene	ND		1.0		ug/L			10/06/16 05:15	1
Tetrahydrofuran	ND		10		ug/L			10/06/16 05:15	1
Toluene	ND		1.0		ug/L			10/06/16 05:15	1

TestAmerica Buffalo

Client Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-107013-1

Client Sample ID: REW-5-20161004

Lab Sample ID: 480-107013-8

Date Collected: 10/04/16 10:05

Matrix: Water

Date Received: 10/05/16 01:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	ND		1.0		ug/L			10/06/16 05:15	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			10/06/16 05:15	1
Trichloroethene	ND		1.0		ug/L			10/06/16 05:15	1
Trichlorofluoromethane	ND		1.0		ug/L			10/06/16 05:15	1
Vinyl chloride	ND		1.0		ug/L			10/06/16 05:15	1
Dibromomethane	ND		1.0		ug/L			10/06/16 05:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	89		70 - 130		10/06/16 05:15	1
1,2-Dichloroethane-d4 (Surr)	89		70 - 130		10/06/16 05:15	1
4-Bromofluorobenzene (Surr)	95		70 - 130		10/06/16 05:15	1

Method: 6010 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	47		0.050		mg/L		10/06/16 09:31	10/07/16 16:55	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3.9		0.50		mg/L			10/06/16 13:23	1
Sulfate	ND		2.0		mg/L			10/06/16 13:23	1
Ammonia	2.5		0.40		mg/L		10/05/16 13:21	10/05/16 15:39	2
Nitrate as N	ND		0.050		mg/L			10/05/16 16:57	1
TOC Result 1	ND		1.0		mg/L			10/06/16 12:11	1
TOC Result 2	ND		1.0		mg/L			10/06/16 12:11	1
Total Organic Carbon - Duplicates	ND		1.0		mg/L			10/06/16 12:11	1
Alkalinity, Total	100		5.0		mg/L			10/06/16 13:18	1
ortho-Phosphate	0.12		0.020		mg/L			10/05/16 14:30	1

Client Sample ID: DUP2-20161004

Lab Sample ID: 480-107013-9

Date Collected: 10/04/16 00:00

Matrix: Water

Date Received: 10/05/16 01:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			10/06/16 15:09	1
1,1,1-Trichloroethane	ND		1.0		ug/L			10/06/16 15:09	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			10/06/16 15:09	1
1,1,2-Trichloroethane	ND		1.0		ug/L			10/06/16 15:09	1
1,1-Dichloroethane	ND		1.0		ug/L			10/06/16 15:09	1
1,1-Dichloroethene	ND		1.0		ug/L			10/06/16 15:09	1
1,1-Dichloropropene	ND		1.0		ug/L			10/06/16 15:09	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			10/06/16 15:09	1
1,2,3-Trichloropropane	ND		1.0		ug/L			10/06/16 15:09	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			10/06/16 15:09	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			10/06/16 15:09	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			10/06/16 15:09	1
1,2-Dichlorobenzene	ND		1.0		ug/L			10/06/16 15:09	1
1,2-Dichloroethane	ND		1.0		ug/L			10/06/16 15:09	1
1,2-Dichloropropane	ND		1.0		ug/L			10/06/16 15:09	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			10/06/16 15:09	1

TestAmerica Buffalo

Client Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-107013-1

Client Sample ID: DUP2-20161004

Lab Sample ID: 480-107013-9

Date Collected: 10/04/16 00:00

Matrix: Water

Date Received: 10/05/16 01:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	ND		1.0		ug/L			10/06/16 15:09	1
1,3-Dichloropropane	ND		1.0		ug/L			10/06/16 15:09	1
1,4-Dichlorobenzene	ND		1.0		ug/L			10/06/16 15:09	1
1,4-Dioxane	ND	*	50		ug/L			10/06/16 15:09	1
2,2-Dichloropropane	ND		1.0		ug/L			10/06/16 15:09	1
2-Butanone (MEK)	37		10		ug/L			10/06/16 15:09	1
2-Chlorotoluene	ND		1.0		ug/L			10/06/16 15:09	1
2-Hexanone	ND		10		ug/L			10/06/16 15:09	1
4-Chlorotoluene	ND		1.0		ug/L			10/06/16 15:09	1
4-Isopropyltoluene	ND		1.0		ug/L			10/06/16 15:09	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			10/06/16 15:09	1
Acetone	ND		50		ug/L			10/06/16 15:09	1
Benzene	ND		1.0		ug/L			10/06/16 15:09	1
Bromobenzene	ND		1.0		ug/L			10/06/16 15:09	1
Bromoform	ND		1.0		ug/L			10/06/16 15:09	1
Bromomethane	ND		2.0		ug/L			10/06/16 15:09	1
Carbon disulfide	ND		10		ug/L			10/06/16 15:09	1
Carbon tetrachloride	ND		1.0		ug/L			10/06/16 15:09	1
Chlorobenzene	ND		1.0		ug/L			10/06/16 15:09	1
Chlorobromomethane	ND		1.0		ug/L			10/06/16 15:09	1
Chlorodibromomethane	ND		0.50		ug/L			10/06/16 15:09	1
Chloroethane	ND		2.0		ug/L			10/06/16 15:09	1
Chloroform	ND		1.0		ug/L			10/06/16 15:09	1
Chloromethane	ND		2.0		ug/L			10/06/16 15:09	1
cis-1,2-Dichloroethene	3.9		1.0		ug/L			10/06/16 15:09	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			10/06/16 15:09	1
Dichlorobromomethane	ND		0.50		ug/L			10/06/16 15:09	1
Dichlorodifluoromethane	ND		1.0		ug/L			10/06/16 15:09	1
Ethyl ether	ND		1.0		ug/L			10/06/16 15:09	1
Ethylbenzene	ND		1.0		ug/L			10/06/16 15:09	1
Ethylene Dibromide	ND		1.0		ug/L			10/06/16 15:09	1
Hexachlorobutadiene	ND		0.40		ug/L			10/06/16 15:09	1
Isopropyl ether	ND		10		ug/L			10/06/16 15:09	1
Isopropylbenzene	ND		1.0		ug/L			10/06/16 15:09	1
Methyl tert-butyl ether	ND		1.0		ug/L			10/06/16 15:09	1
Methylene Chloride	ND		1.0		ug/L			10/06/16 15:09	1
m-Xylene & p-Xylene	ND		2.0		ug/L			10/06/16 15:09	1
Naphthalene	ND		5.0		ug/L			10/06/16 15:09	1
n-Butylbenzene	ND		1.0		ug/L			10/06/16 15:09	1
N-Propylbenzene	ND		1.0		ug/L			10/06/16 15:09	1
o-Xylene	ND		1.0		ug/L			10/06/16 15:09	1
sec-Butylbenzene	ND		1.0		ug/L			10/06/16 15:09	1
Styrene	ND		1.0		ug/L			10/06/16 15:09	1
Tert-amyl methyl ether	ND		5.0		ug/L			10/06/16 15:09	1
Tert-butyl ethyl ether	ND		5.0		ug/L			10/06/16 15:09	1
tert-Butylbenzene	ND		1.0		ug/L			10/06/16 15:09	1
Tetrachloroethene	ND		1.0		ug/L			10/06/16 15:09	1
Tetrahydrofuran	ND		10		ug/L			10/06/16 15:09	1
Toluene	1.8		1.0		ug/L			10/06/16 15:09	1

TestAmerica Buffalo

Client Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-107013-1

Client Sample ID: DUP2-20161004

Lab Sample ID: 480-107013-9

Date Collected: 10/04/16 00:00

Matrix: Water

Date Received: 10/05/16 01:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	ND		1.0		ug/L			10/06/16 15:09	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			10/06/16 15:09	1
Trichloroethene	1.4		1.0		ug/L			10/06/16 15:09	1
Trichlorofluoromethane	ND		1.0		ug/L			10/06/16 15:09	1
Vinyl chloride	ND		1.0		ug/L			10/06/16 15:09	1
Dibromomethane	ND		1.0		ug/L			10/06/16 15:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	92		70 - 130		10/06/16 15:09	1
1,2-Dichloroethane-d4 (Surr)	86		70 - 130		10/06/16 15:09	1
4-Bromofluorobenzene (Surr)	99		70 - 130		10/06/16 15:09	1

Client Sample ID: TRIP BLANKS

Lab Sample ID: 480-107013-10

Date Collected: 10/04/16 00:00

Matrix: Water

Date Received: 10/05/16 01:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			10/06/16 06:03	1
1,1,1-Trichloroethane	ND		1.0		ug/L			10/06/16 06:03	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			10/06/16 06:03	1
1,1,2-Trichloroethane	ND		1.0		ug/L			10/06/16 06:03	1
1,1-Dichloroethane	ND		1.0		ug/L			10/06/16 06:03	1
1,1-Dichloroethene	ND		1.0		ug/L			10/06/16 06:03	1
1,1-Dichloropropene	ND		1.0		ug/L			10/06/16 06:03	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			10/06/16 06:03	1
1,2,3-Trichloropropane	ND		1.0		ug/L			10/06/16 06:03	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			10/06/16 06:03	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			10/06/16 06:03	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			10/06/16 06:03	1
1,2-Dichlorobenzene	ND		1.0		ug/L			10/06/16 06:03	1
1,2-Dichloroethane	ND		1.0		ug/L			10/06/16 06:03	1
1,2-Dichloropropane	ND		1.0		ug/L			10/06/16 06:03	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			10/06/16 06:03	1
1,3-Dichlorobenzene	ND		1.0		ug/L			10/06/16 06:03	1
1,3-Dichloropropane	ND		1.0		ug/L			10/06/16 06:03	1
1,4-Dichlorobenzene	ND		1.0		ug/L			10/06/16 06:03	1
1,4-Dioxane	ND		50		ug/L			10/06/16 06:03	1
2,2-Dichloropropane	ND		1.0		ug/L			10/06/16 06:03	1
2-Butanone (MEK)	ND		10		ug/L			10/06/16 06:03	1
2-Chlorotoluene	ND		1.0		ug/L			10/06/16 06:03	1
2-Hexanone	ND		10		ug/L			10/06/16 06:03	1
4-Chlorotoluene	ND		1.0		ug/L			10/06/16 06:03	1
4-Isopropyltoluene	ND		1.0		ug/L			10/06/16 06:03	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			10/06/16 06:03	1
Acetone	ND		50		ug/L			10/06/16 06:03	1
Benzene	ND		1.0		ug/L			10/06/16 06:03	1
Bromobenzene	ND		1.0		ug/L			10/06/16 06:03	1
Bromoform	ND		1.0		ug/L			10/06/16 06:03	1
Bromomethane	ND		2.0		ug/L			10/06/16 06:03	1

TestAmerica Buffalo

Client Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-107013-1

Client Sample ID: TRIP BLANKS

Lab Sample ID: 480-107013-10

Date Collected: 10/04/16 00:00

Matrix: Water

Date Received: 10/05/16 01:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	ND		10		ug/L			10/06/16 06:03	1
Carbon tetrachloride	ND		1.0		ug/L			10/06/16 06:03	1
Chlorobenzene	ND		1.0		ug/L			10/06/16 06:03	1
Chlorobromomethane	ND		1.0		ug/L			10/06/16 06:03	1
Chlorodibromomethane	ND		0.50		ug/L			10/06/16 06:03	1
Chloroethane	ND		2.0		ug/L			10/06/16 06:03	1
Chloroform	ND		1.0		ug/L			10/06/16 06:03	1
Chloromethane	ND		2.0		ug/L			10/06/16 06:03	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			10/06/16 06:03	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			10/06/16 06:03	1
Dichlorobromomethane	ND		0.50		ug/L			10/06/16 06:03	1
Dichlorodifluoromethane	ND		1.0		ug/L			10/06/16 06:03	1
Ethyl ether	ND		1.0		ug/L			10/06/16 06:03	1
Ethylbenzene	ND		1.0		ug/L			10/06/16 06:03	1
Ethylene Dibromide	ND		1.0		ug/L			10/06/16 06:03	1
Hexachlorobutadiene	ND		0.40		ug/L			10/06/16 06:03	1
Isopropyl ether	ND		10		ug/L			10/06/16 06:03	1
Isopropylbenzene	ND		1.0		ug/L			10/06/16 06:03	1
Methyl tert-butyl ether	ND		1.0		ug/L			10/06/16 06:03	1
Methylene Chloride	ND		1.0		ug/L			10/06/16 06:03	1
m-Xylene & p-Xylene	ND		2.0		ug/L			10/06/16 06:03	1
Naphthalene	ND		5.0		ug/L			10/06/16 06:03	1
n-Butylbenzene	ND		1.0		ug/L			10/06/16 06:03	1
N-Propylbenzene	ND		1.0		ug/L			10/06/16 06:03	1
o-Xylene	ND		1.0		ug/L			10/06/16 06:03	1
sec-Butylbenzene	ND		1.0		ug/L			10/06/16 06:03	1
Styrene	ND		1.0		ug/L			10/06/16 06:03	1
Tert-amyl methyl ether	ND		5.0		ug/L			10/06/16 06:03	1
Tert-butyl ethyl ether	ND		5.0		ug/L			10/06/16 06:03	1
tert-Butylbenzene	ND		1.0		ug/L			10/06/16 06:03	1
Tetrachloroethene	ND		1.0		ug/L			10/06/16 06:03	1
Tetrahydrofuran	ND		10		ug/L			10/06/16 06:03	1
Toluene	ND		1.0		ug/L			10/06/16 06:03	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			10/06/16 06:03	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			10/06/16 06:03	1
Trichloroethene	ND		1.0		ug/L			10/06/16 06:03	1
Trichlorofluoromethane	ND		1.0		ug/L			10/06/16 06:03	1
Vinyl chloride	ND		1.0		ug/L			10/06/16 06:03	1
Dibromomethane	ND		1.0		ug/L			10/06/16 06:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	91		70 - 130		10/06/16 06:03	1
1,2-Dichloroethane-d4 (Surr)	89		70 - 130		10/06/16 06:03	1
4-Bromofluorobenzene (Surr)	97		70 - 130		10/06/16 06:03	1

Surrogate Summary

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-107013-1

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		TOL (70-130)	12DCE (70-130)	BFB (70-130)
480-107013-1	MW-267S-20161004	91	90	96
480-107013-2	MW-267M-20161004	90	93	96
480-107013-3	MW-268S-20161004	91	87	96
480-107013-4	MW-268M-20161004	90	87	96
480-107013-5	MW-268D-20161004	88	97	95
480-107013-6	REW-1-20161004	89	90	97
480-107013-7	REW-4-20161004	90	91	98
480-107013-8	REW-5-20161004	89	89	95
480-107013-9	DUP2-20161004	92	86	99
480-107013-10	TRIP BLANKS	91	89	97
LCS 480-323990/5	Lab Control Sample	90	88	99
LCS 480-324093/5	Lab Control Sample	91	87	99
LCSD 480-323990/6	Lab Control Sample Dup	89	90	99
LCSD 480-324093/6	Lab Control Sample Dup	92	86	100
MB 480-323990/8	Method Blank	92	90	97
MB 480-324093/8	Method Blank	92	86	98

Surrogate Legend

TOL = Toluene-d8 (Surr)
12DCE = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)

Method: 522 - 1,4 Dioxane (GC/MS SIM)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)
		14DD8 (70-130)
480-107013-1	MW-267S-20161004	97
480-107013-2	MW-267M-20161004	94
480-107013-3	MW-268S-20161004	12 X
480-107013-4	MW-268M-20161004	90
480-107013-4 MS	MW-268M-20161004	94
480-107013-4 MSD	MW-268M-20161004	72
LCS 200-109914/2-A	Lab Control Sample	91
MB 200-109914/1-A	Method Blank	103

Surrogate Legend

14DD8 = 1,4-Dioxane-d8 (Surr)

QC Sample Results

Client: Innovative Engineering Solutions, Inc
 Project/Site: IDS Wayland

TestAmerica Job ID: 480-107013-1

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

Lab Sample ID: MB 480-323990/8

Matrix: Water

Analysis Batch: 323990

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			10/05/16 23:03	1
1,1,1-Trichloroethane	ND		1.0		ug/L			10/05/16 23:03	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			10/05/16 23:03	1
1,1,2-Trichloroethane	ND		1.0		ug/L			10/05/16 23:03	1
1,1-Dichloroethane	ND		1.0		ug/L			10/05/16 23:03	1
1,1-Dichloroethene	ND		1.0		ug/L			10/05/16 23:03	1
1,1-Dichloropropene	ND		1.0		ug/L			10/05/16 23:03	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			10/05/16 23:03	1
1,2,3-Trichloropropane	ND		1.0		ug/L			10/05/16 23:03	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			10/05/16 23:03	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			10/05/16 23:03	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			10/05/16 23:03	1
1,2-Dichlorobenzene	ND		1.0		ug/L			10/05/16 23:03	1
1,2-Dichloroethane	ND		1.0		ug/L			10/05/16 23:03	1
1,2-Dichloropropane	ND		1.0		ug/L			10/05/16 23:03	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			10/05/16 23:03	1
1,3-Dichlorobenzene	ND		1.0		ug/L			10/05/16 23:03	1
1,3-Dichloropropane	ND		1.0		ug/L			10/05/16 23:03	1
1,4-Dichlorobenzene	ND		1.0		ug/L			10/05/16 23:03	1
1,4-Dioxane	ND		50		ug/L			10/05/16 23:03	1
2,2-Dichloropropane	ND		1.0		ug/L			10/05/16 23:03	1
2-Butanone (MEK)	ND		10		ug/L			10/05/16 23:03	1
2-Chlorotoluene	ND		1.0		ug/L			10/05/16 23:03	1
2-Hexanone	ND		10		ug/L			10/05/16 23:03	1
4-Chlorotoluene	ND		1.0		ug/L			10/05/16 23:03	1
4-Isopropyltoluene	ND		1.0		ug/L			10/05/16 23:03	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			10/05/16 23:03	1
Acetone	ND		50		ug/L			10/05/16 23:03	1
Benzene	ND		1.0		ug/L			10/05/16 23:03	1
Bromobenzene	ND		1.0		ug/L			10/05/16 23:03	1
Bromoform	ND		1.0		ug/L			10/05/16 23:03	1
Bromomethane	ND		2.0		ug/L			10/05/16 23:03	1
Carbon disulfide	ND		10		ug/L			10/05/16 23:03	1
Carbon tetrachloride	ND		1.0		ug/L			10/05/16 23:03	1
Chlorobenzene	ND		1.0		ug/L			10/05/16 23:03	1
Chlorobromomethane	ND		1.0		ug/L			10/05/16 23:03	1
Chlorodibromomethane	ND		0.50		ug/L			10/05/16 23:03	1
Chloroethane	ND		2.0		ug/L			10/05/16 23:03	1
Chloroform	ND		1.0		ug/L			10/05/16 23:03	1
Chloromethane	ND		2.0		ug/L			10/05/16 23:03	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			10/05/16 23:03	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			10/05/16 23:03	1
Dichlorobromomethane	ND		0.50		ug/L			10/05/16 23:03	1
Dichlorodifluoromethane	ND		1.0		ug/L			10/05/16 23:03	1
Ethyl ether	ND		1.0		ug/L			10/05/16 23:03	1
Ethylbenzene	ND		1.0		ug/L			10/05/16 23:03	1
Ethylene Dibromide	ND		1.0		ug/L			10/05/16 23:03	1
Hexachlorobutadiene	ND		0.40		ug/L			10/05/16 23:03	1

TestAmerica Buffalo

QC Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-107013-1

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

Lab Sample ID: MB 480-323990/8
Matrix: Water
Analysis Batch: 323990

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropyl ether	ND		10		ug/L			10/05/16 23:03	1
Isopropylbenzene	ND		1.0		ug/L			10/05/16 23:03	1
Methyl tert-butyl ether	ND		1.0		ug/L			10/05/16 23:03	1
Methylene Chloride	ND		1.0		ug/L			10/05/16 23:03	1
m-Xylene & p-Xylene	ND		2.0		ug/L			10/05/16 23:03	1
Naphthalene	ND		5.0		ug/L			10/05/16 23:03	1
n-Butylbenzene	ND		1.0		ug/L			10/05/16 23:03	1
N-Propylbenzene	ND		1.0		ug/L			10/05/16 23:03	1
o-Xylene	ND		1.0		ug/L			10/05/16 23:03	1
sec-Butylbenzene	ND		1.0		ug/L			10/05/16 23:03	1
Styrene	ND		1.0		ug/L			10/05/16 23:03	1
Tert-amyl methyl ether	ND		5.0		ug/L			10/05/16 23:03	1
Tert-butyl ethyl ether	ND		5.0		ug/L			10/05/16 23:03	1
tert-Butylbenzene	ND		1.0		ug/L			10/05/16 23:03	1
Tetrachloroethene	ND		1.0		ug/L			10/05/16 23:03	1
Tetrahydrofuran	ND		10		ug/L			10/05/16 23:03	1
Toluene	ND		1.0		ug/L			10/05/16 23:03	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			10/05/16 23:03	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			10/05/16 23:03	1
Trichloroethene	ND		1.0		ug/L			10/05/16 23:03	1
Trichlorofluoromethane	ND		1.0		ug/L			10/05/16 23:03	1
Vinyl chloride	ND		1.0		ug/L			10/05/16 23:03	1
Dibromomethane	ND		1.0		ug/L			10/05/16 23:03	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	92		70 - 130		10/05/16 23:03	1
1,2-Dichloroethane-d4 (Surr)	90		70 - 130		10/05/16 23:03	1
4-Bromofluorobenzene (Surr)	97		70 - 130		10/05/16 23:03	1

Lab Sample ID: LCS 480-323990/5
Matrix: Water
Analysis Batch: 323990

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	25.0	23.0		ug/L		92	70 - 130
1,1,1-Trichloroethane	25.0	23.1		ug/L		92	70 - 130
1,1,2,2-Tetrachloroethane	25.0	21.9		ug/L		88	70 - 130
1,1,2-Trichloroethane	25.0	22.2		ug/L		89	70 - 130
1,1-Dichloroethane	25.0	23.4		ug/L		94	70 - 130
1,1-Dichloroethene	25.0	21.3		ug/L		85	70 - 130
1,1-Dichloropropene	25.0	22.6		ug/L		90	70 - 130
1,2,3-Trichlorobenzene	25.0	20.7		ug/L		83	70 - 130
1,2,3-Trichloropropane	25.0	20.0		ug/L		80	70 - 130
1,2,4-Trichlorobenzene	25.0	21.7		ug/L		87	70 - 130
1,2,4-Trimethylbenzene	25.0	23.6		ug/L		94	70 - 130
1,2-Dibromo-3-Chloropropane	25.0	19.0		ug/L		76	70 - 130
1,2-Dichlorobenzene	25.0	22.4		ug/L		90	70 - 130
1,2-Dichloroethane	25.0	22.2		ug/L		89	70 - 130

TestAmerica Buffalo

QC Sample Results

Client: Innovative Engineering Solutions, Inc
 Project/Site: IDS Wayland

TestAmerica Job ID: 480-107013-1

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

Lab Sample ID: LCS 480-323990/5

Matrix: Water

Analysis Batch: 323990

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichloropropane	25.0	23.3		ug/L		93	70 - 130
1,3,5-Trimethylbenzene	25.0	23.4		ug/L		93	70 - 130
1,3-Dichlorobenzene	25.0	23.2		ug/L		93	70 - 130
1,3-Dichloropropane	25.0	21.0		ug/L		84	70 - 130
1,4-Dichlorobenzene	25.0	23.5		ug/L		94	70 - 130
1,4-Dioxane	500	358		ug/L		72	70 - 130
2,2-Dichloropropane	25.0	23.5		ug/L		94	70 - 130
2-Butanone (MEK)	125	118		ug/L		95	70 - 130
2-Chlorotoluene	25.0	22.4		ug/L		90	70 - 130
2-Hexanone	125	112		ug/L		89	70 - 130
4-Chlorotoluene	25.0	24.5		ug/L		98	70 - 130
4-Isopropyltoluene	25.0	23.5		ug/L		94	70 - 130
4-Methyl-2-pentanone (MIBK)	125	101		ug/L		81	70 - 130
Acetone	125	136		ug/L		109	70 - 130
Benzene	25.0	22.9		ug/L		92	70 - 130
Bromobenzene	25.0	22.9		ug/L		92	70 - 130
Bromoform	25.0	22.5		ug/L		90	70 - 130
Bromomethane	25.0	23.9		ug/L		96	70 - 130
Carbon disulfide	25.0	21.3		ug/L		85	70 - 130
Carbon tetrachloride	25.0	23.4		ug/L		93	70 - 130
Chlorobenzene	25.0	22.6		ug/L		91	70 - 130
Chlorobromomethane	25.0	23.0		ug/L		92	70 - 130
Chlorodibromomethane	25.0	23.9		ug/L		96	70 - 130
Chloroethane	25.0	24.7		ug/L		99	70 - 130
Chloroform	25.0	22.4		ug/L		89	70 - 130
Chloromethane	25.0	22.9		ug/L		92	70 - 130
cis-1,2-Dichloroethene	25.0	22.8		ug/L		91	70 - 130
cis-1,3-Dichloropropene	25.0	24.4		ug/L		98	70 - 130
Dichlorobromomethane	25.0	24.2		ug/L		97	70 - 130
Dichlorodifluoromethane	25.0	22.7		ug/L		91	70 - 130
Ethyl ether	25.0	21.0		ug/L		84	70 - 130
Ethylbenzene	25.0	22.3		ug/L		89	70 - 130
Ethylene Dibromide	25.0	22.3		ug/L		89	70 - 130
Hexachlorobutadiene	25.0	23.5		ug/L		94	70 - 130
Isopropyl ether	25.0	22.8		ug/L		91	70 - 130
Isopropylbenzene	25.0	22.7		ug/L		91	70 - 130
Methyl tert-butyl ether	25.0	21.8		ug/L		87	70 - 130
Methylene Chloride	25.0	27.3		ug/L		109	70 - 130
m-Xylene & p-Xylene	25.0	22.3		ug/L		89	70 - 130
Naphthalene	25.0	20.1		ug/L		80	70 - 130
n-Butylbenzene	25.0	22.5		ug/L		90	70 - 130
N-Propylbenzene	25.0	22.8		ug/L		91	70 - 130
o-Xylene	25.0	23.1		ug/L		92	70 - 130
sec-Butylbenzene	25.0	23.1		ug/L		92	70 - 130
Styrene	25.0	23.2		ug/L		93	70 - 130
Tert-amyl methyl ether	25.0	22.5		ug/L		90	70 - 130
Tert-butyl ethyl ether	25.0	22.8		ug/L		91	70 - 130
tert-Butylbenzene	25.0	23.2		ug/L		93	70 - 130

TestAmerica Buffalo

QC Sample Results

Client: Innovative Engineering Solutions, Inc
 Project/Site: IDS Wayland

TestAmerica Job ID: 480-107013-1

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

Lab Sample ID: LCS 480-323990/5

Matrix: Water

Analysis Batch: 323990

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Tetrachloroethene	25.0	24.8		ug/L		99	70 - 130
Tetrahydrofuran	50.0	55.8		ug/L		112	70 - 130
Toluene	25.0	21.4		ug/L		86	70 - 130
trans-1,2-Dichloroethene	25.0	23.3		ug/L		93	70 - 130
trans-1,3-Dichloropropene	25.0	22.4		ug/L		89	70 - 130
Trichloroethene	25.0	23.8		ug/L		95	70 - 130
Trichlorofluoromethane	25.0	25.8		ug/L		103	70 - 130
Vinyl chloride	25.0	23.5		ug/L		94	70 - 130
Dibromomethane	25.0	22.6		ug/L		90	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Toluene-d8 (Surr)	90		70 - 130
1,2-Dichloroethane-d4 (Surr)	88		70 - 130
4-Bromofluorobenzene (Surr)	99		70 - 130

Lab Sample ID: LCSD 480-323990/6

Matrix: Water

Analysis Batch: 323990

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	25.0	23.5		ug/L		94	70 - 130	2	20
1,1,1-Trichloroethane	25.0	24.3		ug/L		97	70 - 130	5	20
1,1,1,2,2-Tetrachloroethane	25.0	21.6		ug/L		86	70 - 130	1	20
1,1,1,2-Trichloroethane	25.0	21.9		ug/L		88	70 - 130	1	20
1,1-Dichloroethane	25.0	24.3		ug/L		97	70 - 130	4	20
1,1-Dichloroethene	25.0	22.9		ug/L		92	70 - 130	7	20
1,1-Dichloropropene	25.0	23.0		ug/L		92	70 - 130	1	20
1,2,3-Trichlorobenzene	25.0	20.8		ug/L		83	70 - 130	1	20
1,2,3-Trichloropropane	25.0	20.1		ug/L		80	70 - 130	0	20
1,2,4-Trichlorobenzene	25.0	22.2		ug/L		89	70 - 130	3	20
1,2,4-Trimethylbenzene	25.0	24.0		ug/L		96	70 - 130	2	20
1,2-Dibromo-3-Chloropropane	25.0	20.8		ug/L		83	70 - 130	9	20
1,2-Dichlorobenzene	25.0	23.4		ug/L		94	70 - 130	4	20
1,2-Dichloroethane	25.0	21.9		ug/L		87	70 - 130	2	20
1,2-Dichloropropane	25.0	23.4		ug/L		94	70 - 130	1	20
1,3,5-Trimethylbenzene	25.0	24.1		ug/L		96	70 - 130	3	20
1,3-Dichlorobenzene	25.0	23.7		ug/L		95	70 - 130	2	20
1,3-Dichloropropane	25.0	20.8		ug/L		83	70 - 130	1	20
1,4-Dichlorobenzene	25.0	24.1		ug/L		96	70 - 130	3	20
1,4-Dioxane	500	398		ug/L		80	70 - 130	10	20
2,2-Dichloropropane	25.0	24.0		ug/L		96	70 - 130	2	20
2-Butanone (MEK)	125	111		ug/L		89	70 - 130	6	20
2-Chlorotoluene	25.0	23.6		ug/L		94	70 - 130	5	20
2-Hexanone	125	109		ug/L		87	70 - 130	3	20
4-Chlorotoluene	25.0	25.3		ug/L		101	70 - 130	3	20
4-Isopropyltoluene	25.0	24.3		ug/L		97	70 - 130	3	20
4-Methyl-2-pentanone (MIBK)	125	101		ug/L		80	70 - 130	0	20
Acetone	125	136		ug/L		109	70 - 130	0	20

TestAmerica Buffalo

QC Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-107013-1

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

Lab Sample ID: LCSD 480-323990/6

Matrix: Water

Analysis Batch: 323990

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	25.0	23.9		ug/L		96	70 - 130	4	20
Bromobenzene	25.0	23.1		ug/L		92	70 - 130	1	20
Bromoform	25.0	23.0		ug/L		92	70 - 130	2	20
Bromomethane	25.0	24.7		ug/L		99	70 - 130	3	20
Carbon disulfide	25.0	23.0		ug/L		92	70 - 130	8	20
Carbon tetrachloride	25.0	25.0		ug/L		100	70 - 130	7	20
Chlorobenzene	25.0	23.3		ug/L		93	70 - 130	3	20
Chlorobromomethane	25.0	23.2		ug/L		93	70 - 130	1	20
Chlorodibromomethane	25.0	24.2		ug/L		97	70 - 130	1	20
Chloroethane	25.0	25.1		ug/L		100	70 - 130	1	20
Chloroform	25.0	23.6		ug/L		94	70 - 130	5	20
Chloromethane	25.0	24.1		ug/L		96	70 - 130	5	20
cis-1,2-Dichloroethene	25.0	24.3		ug/L		97	70 - 130	6	20
cis-1,3-Dichloropropene	25.0	24.8		ug/L		99	70 - 130	2	20
Dichlorobromomethane	25.0	24.3		ug/L		97	70 - 130	1	20
Dichlorodifluoromethane	25.0	24.8		ug/L		99	70 - 130	9	20
Ethyl ether	25.0	21.5		ug/L		86	70 - 130	2	20
Ethylbenzene	25.0	23.2		ug/L		93	70 - 130	4	20
Ethylene Dibromide	25.0	21.9		ug/L		88	70 - 130	2	20
Hexachlorobutadiene	25.0	23.3		ug/L		93	70 - 130	1	20
Isopropyl ether	25.0	23.0		ug/L		92	70 - 130	1	20
Isopropylbenzene	25.0	23.5		ug/L		94	70 - 130	3	20
Methyl tert-butyl ether	25.0	22.0		ug/L		88	70 - 130	1	20
Methylene Chloride	25.0	26.8		ug/L		107	70 - 130	2	20
m-Xylene & p-Xylene	25.0	23.3		ug/L		93	70 - 130	5	20
Naphthalene	25.0	20.2		ug/L		81	70 - 130	1	20
n-Butylbenzene	25.0	23.5		ug/L		94	70 - 130	4	20
N-Propylbenzene	25.0	23.6		ug/L		94	70 - 130	3	20
o-Xylene	25.0	23.1		ug/L		92	70 - 130	0	20
sec-Butylbenzene	25.0	24.1		ug/L		96	70 - 130	4	20
Styrene	25.0	24.3		ug/L		97	70 - 130	5	20
Tert-amyl methyl ether	25.0	23.1		ug/L		93	70 - 130	3	20
Tert-butyl ethyl ether	25.0	23.0		ug/L		92	70 - 130	1	20
tert-Butylbenzene	25.0	24.5		ug/L		98	70 - 130	6	20
Tetrachloroethene	25.0	25.5		ug/L		102	70 - 130	3	20
Tetrahydrofuran	50.0	53.2		ug/L		106	70 - 130	5	20
Toluene	25.0	22.8		ug/L		91	70 - 130	6	20
trans-1,2-Dichloroethene	25.0	23.9		ug/L		96	70 - 130	3	20
trans-1,3-Dichloropropene	25.0	22.2		ug/L		89	70 - 130	1	20
Trichloroethene	25.0	24.6		ug/L		98	70 - 130	3	20
Trichlorofluoromethane	25.0	27.9		ug/L		112	70 - 130	8	20
Vinyl chloride	25.0	24.2		ug/L		97	70 - 130	3	20
Dibromomethane	25.0	23.2		ug/L		93	70 - 130	3	20

Surrogate	LCSD LCSD		Limits
	%Recovery	Qualifier	
Toluene-d8 (Surr)	89		70 - 130
1,2-Dichloroethane-d4 (Surr)	90		70 - 130
4-Bromofluorobenzene (Surr)	99		70 - 130

TestAmerica Buffalo

QC Sample Results

Client: Innovative Engineering Solutions, Inc
 Project/Site: IDS Wayland

TestAmerica Job ID: 480-107013-1

Lab Sample ID: MB 480-324093/8
 Matrix: Water
 Analysis Batch: 324093

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			10/06/16 11:56	1
1,1,1-Trichloroethane	ND		1.0		ug/L			10/06/16 11:56	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			10/06/16 11:56	1
1,1,2-Trichloroethane	ND		1.0		ug/L			10/06/16 11:56	1
1,1-Dichloroethane	ND		1.0		ug/L			10/06/16 11:56	1
1,1-Dichloroethene	ND		1.0		ug/L			10/06/16 11:56	1
1,1-Dichloropropene	ND		1.0		ug/L			10/06/16 11:56	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			10/06/16 11:56	1
1,2,3-Trichloropropane	ND		1.0		ug/L			10/06/16 11:56	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			10/06/16 11:56	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			10/06/16 11:56	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			10/06/16 11:56	1
1,2-Dichlorobenzene	ND		1.0		ug/L			10/06/16 11:56	1
1,2-Dichloroethane	ND		1.0		ug/L			10/06/16 11:56	1
1,2-Dichloropropane	ND		1.0		ug/L			10/06/16 11:56	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			10/06/16 11:56	1
1,3-Dichlorobenzene	ND		1.0		ug/L			10/06/16 11:56	1
1,3-Dichloropropane	ND		1.0		ug/L			10/06/16 11:56	1
1,4-Dichlorobenzene	ND		1.0		ug/L			10/06/16 11:56	1
1,4-Dioxane	ND		50		ug/L			10/06/16 11:56	1
2,2-Dichloropropane	ND		1.0		ug/L			10/06/16 11:56	1
2-Butanone (MEK)	ND		10		ug/L			10/06/16 11:56	1
2-Chlorotoluene	ND		1.0		ug/L			10/06/16 11:56	1
2-Hexanone	ND		10		ug/L			10/06/16 11:56	1
4-Chlorotoluene	ND		1.0		ug/L			10/06/16 11:56	1
4-Isopropyltoluene	ND		1.0		ug/L			10/06/16 11:56	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			10/06/16 11:56	1
Acetone	ND		50		ug/L			10/06/16 11:56	1
Benzene	ND		1.0		ug/L			10/06/16 11:56	1
Bromobenzene	ND		1.0		ug/L			10/06/16 11:56	1
Bromoform	ND		1.0		ug/L			10/06/16 11:56	1
Bromomethane	ND		2.0		ug/L			10/06/16 11:56	1
Carbon disulfide	ND		10		ug/L			10/06/16 11:56	1
Carbon tetrachloride	ND		1.0		ug/L			10/06/16 11:56	1
Chlorobenzene	ND		1.0		ug/L			10/06/16 11:56	1
Chlorobromomethane	ND		1.0		ug/L			10/06/16 11:56	1
Chlorodibromomethane	ND		0.50		ug/L			10/06/16 11:56	1
Chloroethane	ND		2.0		ug/L			10/06/16 11:56	1
Chloroform	ND		1.0		ug/L			10/06/16 11:56	1
Chloromethane	ND		2.0		ug/L			10/06/16 11:56	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			10/06/16 11:56	1
cis-1,3-Dichloropropane	ND		0.40		ug/L			10/06/16 11:56	1
Dichlorobromomethane	ND		0.50		ug/L			10/06/16 11:56	1
Dichlorodifluoromethane	ND		1.0		ug/L			10/06/16 11:56	1
Ethyl ether	ND		1.0		ug/L			10/06/16 11:56	1
Ethylbenzene	ND		1.0		ug/L			10/06/16 11:56	1
Ethylene Dibromide	ND		1.0		ug/L			10/06/16 11:56	1
Hexachlorobutadiene	ND		0.40		ug/L			10/06/16 11:56	1
Isopropyl ether	ND		10		ug/L			10/06/16 11:56	1
Isopropylbenzene	ND		1.0		ug/L			10/06/16 11:56	1

TestAmerica Buffalo

QC Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-107013-1

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

Lab Sample ID: MB 480-324093/8
Matrix: Water
Analysis Batch: 324093

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		1.0		ug/L			10/06/16 11:56	1
Methylene Chloride	ND		1.0		ug/L			10/06/16 11:56	1
m-Xylene & p-Xylene	ND		2.0		ug/L			10/06/16 11:56	1
Naphthalene	ND		5.0		ug/L			10/06/16 11:56	1
n-Butylbenzene	ND		1.0		ug/L			10/06/16 11:56	1
N-Propylbenzene	ND		1.0		ug/L			10/06/16 11:56	1
o-Xylene	ND		1.0		ug/L			10/06/16 11:56	1
sec-Butylbenzene	ND		1.0		ug/L			10/06/16 11:56	1
Styrene	ND		1.0		ug/L			10/06/16 11:56	1
Tert-amyl methyl ether	ND		5.0		ug/L			10/06/16 11:56	1
Tert-butyl ethyl ether	ND		5.0		ug/L			10/06/16 11:56	1
tert-Butylbenzene	ND		1.0		ug/L			10/06/16 11:56	1
Tetrachloroethene	ND		1.0		ug/L			10/06/16 11:56	1
Tetrahydrofuran	ND		10		ug/L			10/06/16 11:56	1
Toluene	ND		1.0		ug/L			10/06/16 11:56	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			10/06/16 11:56	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			10/06/16 11:56	1
Trichloroethene	ND		1.0		ug/L			10/06/16 11:56	1
Trichlorofluoromethane	ND		1.0		ug/L			10/06/16 11:56	1
Vinyl chloride	ND		1.0		ug/L			10/06/16 11:56	1
Dibromomethane	ND		1.0		ug/L			10/06/16 11:56	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	92		70 - 130		10/06/16 11:56	1
1,2-Dichloroethane-d4 (Surr)	86		70 - 130		10/06/16 11:56	1
4-Bromofluorobenzene (Surr)	98		70 - 130		10/06/16 11:56	1

Lab Sample ID: LCS 480-324093/5
Matrix: Water
Analysis Batch: 324093

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	25.0	24.8		ug/L		99	70 - 130
1,1,1-Trichloroethane	25.0	26.4		ug/L		105	70 - 130
1,1,1,2,2-Tetrachloroethane	25.0	21.7		ug/L		87	70 - 130
1,1,2-Trichloroethane	25.0	22.2		ug/L		89	70 - 130
1,1-Dichloroethane	25.0	26.2		ug/L		105	70 - 130
1,1-Dichloroethene	25.0	24.6		ug/L		98	70 - 130
1,1-Dichloropropene	25.0	25.3		ug/L		101	70 - 130
1,2,3-Trichlorobenzene	25.0	21.5		ug/L		86	70 - 130
1,2,3-Trichloropropane	25.0	21.3		ug/L		85	70 - 130
1,2,4-Trichlorobenzene	25.0	23.7		ug/L		95	70 - 130
1,2,4-Trimethylbenzene	25.0	24.9		ug/L		100	70 - 130
1,2-Dibromo-3-Chloropropane	25.0	20.0		ug/L		80	70 - 130
1,2-Dichlorobenzene	25.0	23.7		ug/L		95	70 - 130
1,2-Dichloroethane	25.0	23.1		ug/L		93	70 - 130
1,2-Dichloropropane	25.0	25.9		ug/L		103	70 - 130
1,3,5-Trimethylbenzene	25.0	25.4		ug/L		102	70 - 130

TestAmerica Buffalo

QC Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-107013-1

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

Lab Sample ID: LCS 480-324093/5

Matrix: Water

Analysis Batch: 324093

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,3-Dichlorobenzene	25.0	24.5		ug/L		98	70 - 130
1,3-Dichloropropane	25.0	21.7		ug/L		87	70 - 130
1,4-Dichlorobenzene	25.0	24.7		ug/L		99	70 - 130
1,4-Dioxane	500	338	*	ug/L		68	70 - 130
2,2-Dichloropropane	25.0	25.6		ug/L		102	70 - 130
2-Butanone (MEK)	125	114		ug/L		91	70 - 130
2-Chlorotoluene	25.0	24.1		ug/L		96	70 - 130
2-Hexanone	125	110		ug/L		88	70 - 130
4-Chlorotoluene	25.0	26.4		ug/L		106	70 - 130
4-Isopropyltoluene	25.0	25.5		ug/L		102	70 - 130
4-Methyl-2-pentanone (MIBK)	125	103		ug/L		82	70 - 130
Acetone	125	117		ug/L		93	70 - 130
Benzene	25.0	25.3		ug/L		101	70 - 130
Bromobenzene	25.0	24.8		ug/L		99	70 - 130
Bromoform	25.0	23.1		ug/L		92	70 - 130
Bromomethane	25.0	26.1		ug/L		104	70 - 130
Carbon disulfide	25.0	25.9		ug/L		104	70 - 130
Carbon tetrachloride	25.0	26.4		ug/L		106	70 - 130
Chlorobenzene	25.0	24.2		ug/L		97	70 - 130
Chlorobromomethane	25.0	25.0		ug/L		100	70 - 130
Chlorodibromomethane	25.0	24.7		ug/L		99	70 - 130
Chloroethane	25.0	27.8		ug/L		111	70 - 130
Chloroform	25.0	24.6		ug/L		98	70 - 130
Chloromethane	25.0	26.9		ug/L		108	70 - 130
cis-1,2-Dichloroethene	25.0	25.9		ug/L		103	70 - 130
cis-1,3-Dichloropropene	25.0	26.5		ug/L		106	70 - 130
Dichlorobromomethane	25.0	25.6		ug/L		102	70 - 130
Dichlorodifluoromethane	25.0	27.6		ug/L		110	70 - 130
Ethyl ether	25.0	23.9		ug/L		96	70 - 130
Ethylbenzene	25.0	24.0		ug/L		96	70 - 130
Ethylene Dibromide	25.0	23.7		ug/L		95	70 - 130
Hexachlorobutadiene	25.0	24.9		ug/L		100	70 - 130
Isopropyl ether	25.0	24.4		ug/L		98	70 - 130
Isopropylbenzene	25.0	24.8		ug/L		99	70 - 130
Methyl tert-butyl ether	25.0	23.3		ug/L		93	70 - 130
Methylene Chloride	25.0	27.4		ug/L		109	70 - 130
m-Xylene & p-Xylene	25.0	24.2		ug/L		97	70 - 130
Naphthalene	25.0	20.5		ug/L		82	70 - 130
n-Butylbenzene	25.0	24.5		ug/L		98	70 - 130
N-Propylbenzene	25.0	25.0		ug/L		100	70 - 130
o-Xylene	25.0	24.6		ug/L		98	70 - 130
sec-Butylbenzene	25.0	24.5		ug/L		98	70 - 130
Styrene	25.0	25.1		ug/L		100	70 - 130
Tert-amyl methyl ether	25.0	23.7		ug/L		95	70 - 130
Tert-butyl ethyl ether	25.0	24.0		ug/L		96	70 - 130
tert-Butylbenzene	25.0	24.7		ug/L		99	70 - 130
Tetrachloroethene	25.0	26.3		ug/L		105	70 - 130
Tetrahydrofuran	50.0	55.5		ug/L		111	70 - 130

TestAmerica Buffalo

QC Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-107013-1

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

Lab Sample ID: LCS 480-324093/5

Matrix: Water

Analysis Batch: 324093

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Toluene	25.0	23.7		ug/L		95	70 - 130
trans-1,2-Dichloroethene	25.0	26.2		ug/L		105	70 - 130
trans-1,3-Dichloropropene	25.0	23.6		ug/L		94	70 - 130
Trichloroethene	25.0	25.9		ug/L		104	70 - 130
Trichlorofluoromethane	25.0	29.1		ug/L		116	70 - 130
Vinyl chloride	25.0	26.9		ug/L		108	70 - 130
Dibromomethane	25.0	23.5		ug/L		94	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Toluene-d8 (Surr)	91		70 - 130
1,2-Dichloroethane-d4 (Surr)	87		70 - 130
4-Bromofluorobenzene (Surr)	99		70 - 130

Lab Sample ID: LCSD 480-324093/6

Matrix: Water

Analysis Batch: 324093

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	25.0	24.8		ug/L		99	70 - 130	0	20
1,1,1-Trichloroethane	25.0	25.5		ug/L		102	70 - 130	3	20
1,1,1,2,2-Tetrachloroethane	25.0	20.9		ug/L		84	70 - 130	4	20
1,1,2-Trichloroethane	25.0	22.8		ug/L		91	70 - 130	3	20
1,1-Dichloroethane	25.0	24.4		ug/L		98	70 - 130	7	20
1,1-Dichloroethene	25.0	24.2		ug/L		97	70 - 130	2	20
1,1-Dichloropropene	25.0	24.2		ug/L		97	70 - 130	4	20
1,2,3-Trichlorobenzene	25.0	21.8		ug/L		87	70 - 130	1	20
1,2,3-Trichloropropane	25.0	19.6		ug/L		78	70 - 130	8	20
1,2,4-Trichlorobenzene	25.0	22.9		ug/L		92	70 - 130	3	20
1,2,4-Trimethylbenzene	25.0	23.8		ug/L		95	70 - 130	5	20
1,2-Dibromo-3-Chloropropane	25.0	20.4		ug/L		82	70 - 130	2	20
1,2-Dichlorobenzene	25.0	22.8		ug/L		91	70 - 130	4	20
1,2-Dichloroethane	25.0	22.8		ug/L		91	70 - 130	2	20
1,2-Dichloropropane	25.0	24.2		ug/L		97	70 - 130	7	20
1,3,5-Trimethylbenzene	25.0	24.5		ug/L		98	70 - 130	4	20
1,3-Dichlorobenzene	25.0	23.5		ug/L		94	70 - 130	4	20
1,3-Dichloropropane	25.0	21.0		ug/L		84	70 - 130	3	20
1,4-Dichlorobenzene	25.0	23.7		ug/L		95	70 - 130	4	20
1,4-Dioxane	500	367		ug/L		73	70 - 130	8	20
2,2-Dichloropropane	25.0	24.7		ug/L		99	70 - 130	4	20
2-Butanone (MEK)	125	112		ug/L		90	70 - 130	1	20
2-Chlorotoluene	25.0	23.8		ug/L		95	70 - 130	1	20
2-Hexanone	125	108		ug/L		86	70 - 130	2	20
4-Chlorotoluene	25.0	25.3		ug/L		101	70 - 130	4	20
4-Isopropyltoluene	25.0	24.4		ug/L		97	70 - 130	4	20
4-Methyl-2-pentanone (MIBK)	125	103		ug/L		83	70 - 130	1	20
Acetone	125	114		ug/L		91	70 - 130	3	20
Benzene	25.0	24.3		ug/L		97	70 - 130	4	20
Bromobenzene	25.0	24.0		ug/L		96	70 - 130	3	20

TestAmerica Buffalo

QC Sample Results

Client: Innovative Engineering Solutions, Inc
 Project/Site: IDS Wayland

TestAmerica Job ID: 480-107013-1

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

Lab Sample ID: LCSD 480-324093/6

Matrix: Water

Analysis Batch: 324093

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Bromoform	25.0	22.9		ug/L		92	70 - 130	1	20
Bromomethane	25.0	25.1		ug/L		100	70 - 130	4	20
Carbon disulfide	25.0	25.0		ug/L		100	70 - 130	3	20
Carbon tetrachloride	25.0	25.3		ug/L		101	70 - 130	4	20
Chlorobenzene	25.0	23.6		ug/L		94	70 - 130	3	20
Chlorobromomethane	25.0	24.7		ug/L		99	70 - 130	1	20
Chlorodibromomethane	25.0	25.0		ug/L		100	70 - 130	1	20
Chloroethane	25.0	26.4		ug/L		106	70 - 130	5	20
Chloroform	25.0	23.9		ug/L		95	70 - 130	3	20
Chloromethane	25.0	25.0		ug/L		100	70 - 130	7	20
cis-1,2-Dichloroethene	25.0	25.0		ug/L		100	70 - 130	3	20
cis-1,3-Dichloropropene	25.0	25.8		ug/L		103	70 - 130	3	20
Dichlorobromomethane	25.0	25.4		ug/L		102	70 - 130	1	20
Dichlorodifluoromethane	25.0	26.0		ug/L		104	70 - 130	6	20
Ethyl ether	25.0	22.6		ug/L		90	70 - 130	6	20
Ethylbenzene	25.0	23.6		ug/L		94	70 - 130	2	20
Ethylene Dibromide	25.0	22.3		ug/L		89	70 - 130	6	20
Hexachlorobutadiene	25.0	24.6		ug/L		98	70 - 130	1	20
Isopropyl ether	25.0	23.8		ug/L		95	70 - 130	3	20
Isopropylbenzene	25.0	23.2		ug/L		93	70 - 130	7	20
Methyl tert-butyl ether	25.0	22.6		ug/L		91	70 - 130	3	20
Methylene Chloride	25.0	26.3		ug/L		105	70 - 130	4	20
m-Xylene & p-Xylene	25.0	24.0		ug/L		96	70 - 130	1	20
Naphthalene	25.0	20.5		ug/L		82	70 - 130	0	20
n-Butylbenzene	25.0	23.7		ug/L		95	70 - 130	3	20
N-Propylbenzene	25.0	23.9		ug/L		96	70 - 130	4	20
o-Xylene	25.0	23.8		ug/L		95	70 - 130	3	20
sec-Butylbenzene	25.0	23.6		ug/L		94	70 - 130	4	20
Styrene	25.0	24.8		ug/L		99	70 - 130	1	20
Tert-amyl methyl ether	25.0	23.4		ug/L		93	70 - 130	1	20
Tert-butyl ethyl ether	25.0	23.8		ug/L		95	70 - 130	1	20
tert-Butylbenzene	25.0	23.7		ug/L		95	70 - 130	4	20
Tetrachloroethene	25.0	25.9		ug/L		104	70 - 130	1	20
Tetrahydrofuran	50.0	56.5		ug/L		113	70 - 130	2	20
Toluene	25.0	23.1		ug/L		92	70 - 130	3	20
trans-1,2-Dichloroethene	25.0	24.9		ug/L		100	70 - 130	5	20
trans-1,3-Dichloropropene	25.0	22.9		ug/L		92	70 - 130	3	20
Trichloroethene	25.0	25.3		ug/L		101	70 - 130	3	20
Trichlorofluoromethane	25.0	27.6		ug/L		110	70 - 130	5	20
Vinyl chloride	25.0	25.4		ug/L		102	70 - 130	6	20
Dibromomethane	25.0	23.4		ug/L		93	70 - 130	1	20

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
Toluene-d8 (Surr)	92		70 - 130
1,2-Dichloroethane-d4 (Surr)	86		70 - 130
4-Bromofluorobenzene (Surr)	100		70 - 130

TestAmerica Buffalo

QC Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-107013-1

Method: 522 - 1,4 Dioxane (GC/MS SIM)

Lab Sample ID: MB 200-109914/1-A
Matrix: Water
Analysis Batch: 109928

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 109914

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20		ug/L		10/07/16 08:57	10/07/16 12:12	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	103		70 - 130				10/07/16 08:57	10/07/16 12:12	1

Lab Sample ID: LCS 200-109914/2-A
Matrix: Water
Analysis Batch: 109928

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 109914

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
1,4-Dioxane	2.00	1.79		ug/L		89	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1,4-Dioxane-d8 (Surr)	91		70 - 130				

Lab Sample ID: 480-107013-4 MS
Matrix: Water
Analysis Batch: 109981

Client Sample ID: MW-268M-20161004
Prep Type: Total/NA
Prep Batch: 109914

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
1,4-Dioxane	6.7	F1	2.00	9.03		ug/L		118	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
1,4-Dioxane-d8 (Surr)	94		70 - 130						

Lab Sample ID: 480-107013-4 MSD
Matrix: Water
Analysis Batch: 109928

Client Sample ID: MW-268M-20161004
Prep Type: Total/NA
Prep Batch: 109914

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
1,4-Dioxane	5.7	F1	2.00	6.80	F1	ug/L		55	70 - 130	4	30
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1,4-Dioxane-d8 (Surr)	72		70 - 130								

Method: 6010 - Metals (ICP)

Lab Sample ID: MB 480-324002/1-A
Matrix: Water
Analysis Batch: 324537

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 324002

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		0.050		mg/L		10/06/16 09:31	10/07/16 16:16	1

TestAmerica Buffalo

QC Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-107013-1

Method: 6010 - Metals (ICP) (Continued)

Lab Sample ID: LCS 480-324002/2-A
Matrix: Water
Analysis Batch: 324537

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 324002

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Iron	10.0	10.4		mg/L		104	80 - 120

Lab Sample ID: LCSD 480-324002/3-A
Matrix: Water
Analysis Batch: 324537

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 324002

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Iron	10.0	10.3		mg/L		103	80 - 120	1	20

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 480-324036/30
Matrix: Water
Analysis Batch: 324036

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		0.50		mg/L			10/06/16 10:56	1
Sulfate	ND		2.0		mg/L			10/06/16 10:56	1

Lab Sample ID: MB 480-324036/4
Matrix: Water
Analysis Batch: 324036

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		0.50		mg/L			10/06/16 07:25	1
Sulfate	ND		2.0		mg/L			10/06/16 07:25	1

Lab Sample ID: MB 480-324036/56
Matrix: Water
Analysis Batch: 324036

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		0.50		mg/L			10/06/16 14:28	1
Sulfate	ND		2.0		mg/L			10/06/16 14:28	1

Lab Sample ID: LCS 480-324036/29
Matrix: Water
Analysis Batch: 324036

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	50.0	49.0		mg/L		98	90 - 110
Sulfate	50.0	48.1		mg/L		96	90 - 110

Lab Sample ID: LCS 480-324036/3
Matrix: Water
Analysis Batch: 324036

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	50.0	48.3		mg/L		97	90 - 110

TestAmerica Buffalo

QC Sample Results

Client: Innovative Engineering Solutions, Inc
 Project/Site: IDS Wayland

TestAmerica Job ID: 480-107013-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 480-324036/3
Matrix: Water
Analysis Batch: 324036

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	50.0	47.6		mg/L		95	90 - 110

Lab Sample ID: LCS 480-324036/55
Matrix: Water
Analysis Batch: 324036

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	50.0	49.4		mg/L		99	90 - 110
Sulfate	50.0	48.5		mg/L		97	90 - 110

Lab Sample ID: MB 480-324714/4
Matrix: Water
Analysis Batch: 324714

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		0.50		mg/L			10/10/16 12:10	1
Sulfate	ND		2.0		mg/L			10/10/16 12:10	1

Lab Sample ID: LCS 480-324714/3
Matrix: Water
Analysis Batch: 324714

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	50.0	50.1		mg/L		100	90 - 110
Sulfate	50.0	50.3		mg/L		101	90 - 110

Lab Sample ID: 480-107013-4 MS
Matrix: Water
Analysis Batch: 324714

Client Sample ID: MW-268M-20161004
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	38	F1	2500	3880	F1	mg/L		154	81 - 120
Sulfate	ND	F1	2500	3770	F1	mg/L		151	80 - 120

Lab Sample ID: 480-107013-4 MSD
Matrix: Water
Analysis Batch: 324714

Client Sample ID: MW-268M-20161004
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	38	F1	2500	3690	F1	mg/L		146	81 - 120	5	20
Sulfate	ND	F1	2500	3690	F1	mg/L		147	80 - 120	2	20

Lab Sample ID: MB 480-324850/4
Matrix: Water
Analysis Batch: 324850

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		0.50		mg/L			10/11/16 10:32	1
Sulfate	ND		2.0		mg/L			10/11/16 10:32	1

TestAmerica Buffalo

QC Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-107013-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 480-324850/3
Matrix: Water
Analysis Batch: 324850

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	50.0	50.4		mg/L		101	90 - 110
Sulfate	50.0	50.1		mg/L		100	90 - 110

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 480-323953/2-A
Matrix: Water
Analysis Batch: 323984

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 323953

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.20		mg/L		10/05/16 13:21	10/05/16 15:17	1

Lab Sample ID: LCS 480-323953/1-A
Matrix: Water
Analysis Batch: 323984

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 323953

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia	1.00	0.977		mg/L		98	90 - 110

Method: 9060A - Organic Carbon, Total (TOC)

Lab Sample ID: MB 480-324190/27
Matrix: Water
Analysis Batch: 324190

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TOC Result 1	ND		1.0		mg/L			10/06/16 04:37	1
TOC Result 2	ND		1.0		mg/L			10/06/16 04:37	1
Total Organic Carbon - Duplicates	ND		1.0		mg/L			10/06/16 04:37	1

Lab Sample ID: LCS 480-324190/28
Matrix: Water
Analysis Batch: 324190

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
TOC Result 1	60.0	56.5		mg/L		94	90 - 110
TOC Result 2	60.0	57.5		mg/L		96	90 - 110
Total Organic Carbon - Duplicates	60.0	57.0		mg/L		95	90 - 110

Lab Sample ID: 480-107013-7 MS
Matrix: Water
Analysis Batch: 324190

Client Sample ID: REW-4-20161004
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
TOC Result 1	2.3		20.0	20.2		mg/L		90	54 - 131
TOC Result 2	2.4		20.0	20.7		mg/L		92	54 - 131
Total Organic Carbon - Duplicates	2.3		20.0	20.5		mg/L		91	54 - 131

TestAmerica Buffalo

QC Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-107013-1

Method: 9060A - Organic Carbon, Total (TOC) (Continued)

Lab Sample ID: 480-107013-6 DU

Matrix: Water

Analysis Batch: 324190

Client Sample ID: REW-1-20161004

Prep Type: Total/NA

Analyte	Sample	Sample	DU		Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
TOC Result 1	1.1		1.08		mg/L		0.9	20
TOC Result 2	1.2		1.24		mg/L		3	20
Total Organic Carbon - Duplicates	1.1		1.16		mg/L		1	20

Lab Sample ID: MB 480-324587/4

Matrix: Water

Analysis Batch: 324587

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
TOC Result 1	ND		1.0		mg/L			10/07/16 17:53	1
TOC Result 2	ND		1.0		mg/L			10/07/16 17:53	1
Total Organic Carbon - Duplicates	ND		1.0		mg/L			10/07/16 17:53	1

Lab Sample ID: MB 480-324587/52

Matrix: Water

Analysis Batch: 324587

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
TOC Result 1	ND		1.0		mg/L			10/08/16 16:20	1
TOC Result 2	ND		1.0		mg/L			10/08/16 16:20	1
Total Organic Carbon - Duplicates	ND		1.0		mg/L			10/08/16 16:20	1

Lab Sample ID: LCS 480-324587/5

Matrix: Water

Analysis Batch: 324587

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
TOC Result 2	60.0	60.9		mg/L		101	90 - 110
Total Organic Carbon - Duplicates	60.0	59.3		mg/L		99	90 - 110

Lab Sample ID: LCS 480-324587/53

Matrix: Water

Analysis Batch: 324587

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
TOC Result 2	60.0	59.2		mg/L		99	90 - 110
Total Organic Carbon - Duplicates	60.0	57.4		mg/L		96	90 - 110

Lab Sample ID: MB 480-325086/28

Matrix: Water

Analysis Batch: 325086

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
TOC Result 1	ND		1.0		mg/L			10/11/16 18:37	1
TOC Result 2	ND		1.0		mg/L			10/11/16 18:37	1

TestAmerica Buffalo

QC Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-107013-1

Method: 9060A - Organic Carbon, Total (TOC) (Continued)

Lab Sample ID: MB 480-325086/28
Matrix: Water
Analysis Batch: 325086

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Duplicates	ND		1.0		mg/L			10/11/16 18:37	1

Lab Sample ID: LCS 480-325086/29
Matrix: Water
Analysis Batch: 325086

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
TOC Result 1	60.0	61.0		mg/L		102	90 - 110
TOC Result 2	60.0	60.7		mg/L		101	90 - 110
Total Organic Carbon - Duplicates	60.0	60.8		mg/L		101	90 - 110

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 480-324328/30
Matrix: Water
Analysis Batch: 324328

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND		5.0		mg/L			10/06/16 15:01	1

Lab Sample ID: MB 480-324328/54
Matrix: Water
Analysis Batch: 324328

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND		5.0		mg/L			10/06/16 17:27	1

Lab Sample ID: MB 480-324328/7
Matrix: Water
Analysis Batch: 324328

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND		5.0		mg/L			10/06/16 12:36	1

Lab Sample ID: LCS 480-324328/31
Matrix: Water
Analysis Batch: 324328

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity, Total	100	98.6		mg/L		99	90 - 110

Lab Sample ID: LCS 480-324328/55
Matrix: Water
Analysis Batch: 324328

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity, Total	100	99.6		mg/L		100	90 - 110

TestAmerica Buffalo

QC Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-107013-1

Method: SM 2320B - Alkalinity (Continued)

Lab Sample ID: LCS 480-324328/8
Matrix: Water
Analysis Batch: 324328

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity, Total	100	99.7		mg/L		100	90 - 110

Lab Sample ID: MB 480-325246/3
Matrix: Water
Analysis Batch: 325246

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND		5.0		mg/L			10/12/16 14:55	1

Lab Sample ID: LCS 480-325246/4
Matrix: Water
Analysis Batch: 325246

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity, Total	100	100		mg/L		100	90 - 110

Lab Sample ID: 480-107013-4 MS
Matrix: Water
Analysis Batch: 325246

Client Sample ID: MW-268M-20161004
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity, Total	11000		1000	21300	4	mg/L		1000	60 - 140

Lab Sample ID: 480-107013-4 DU
Matrix: Water
Analysis Batch: 325246

Client Sample ID: MW-268M-20161004
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Alkalinity, Total	11000		11500		mg/L		2	20

Method: SM 4500 P E - Orthophosphate

Lab Sample ID: MB 480-323987/3
Matrix: Water
Analysis Batch: 323987

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
ortho-Phosphate	ND		0.020		mg/L			10/05/16 14:30	1

Lab Sample ID: LCS 480-323987/4
Matrix: Water
Analysis Batch: 323987

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
ortho-Phosphate	0.200	0.200		mg/L		100	90 - 110

TestAmerica Buffalo

QC Sample Results

Client: Innovative Engineering Solutions, Inc
 Project/Site: IDS Wayland

TestAmerica Job ID: 480-107013-1

Method: SM 4500 P E - Orthophosphate (Continued)

Lab Sample ID: 480-107013-6 MS
Matrix: Water
Analysis Batch: 323987

Client Sample ID: REW-1-20161004
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
ortho-Phosphate	0.19		1.00	1.08		mg/L		89	49 - 138

Lab Sample ID: 480-107013-6 MSD
Matrix: Water
Analysis Batch: 323987

Client Sample ID: REW-1-20161004
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
ortho-Phosphate	0.19		1.00	1.11		mg/L		92	49 - 138	3	20

Lab Sample ID: 480-107013-8 MS
Matrix: Water
Analysis Batch: 323987

Client Sample ID: REW-5-20161004
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
ortho-Phosphate	0.12		1.00	1.05		mg/L		93	49 - 138

Lab Sample ID: 480-107013-8 MSD
Matrix: Water
Analysis Batch: 323987

Client Sample ID: REW-5-20161004
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
ortho-Phosphate	0.12		1.00	1.01		mg/L		89	49 - 138	4	20

QC Association Summary

Client: Innovative Engineering Solutions, Inc
 Project/Site: IDS Wayland

TestAmerica Job ID: 480-107013-1

GC/MS VOA

Analysis Batch: 323990

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-107013-1	MW-267S-20161004	Total/NA	Water	8260C	
480-107013-2	MW-267M-20161004	Total/NA	Water	8260C	
480-107013-3	MW-268S-20161004	Total/NA	Water	8260C	
480-107013-4	MW-268M-20161004	Total/NA	Water	8260C	
480-107013-5	MW-268D-20161004	Total/NA	Water	8260C	
480-107013-6	REW-1-20161004	Total/NA	Water	8260C	
480-107013-8	REW-5-20161004	Total/NA	Water	8260C	
480-107013-10	TRIP BLANKS	Total/NA	Water	8260C	
MB 480-323990/8	Method Blank	Total/NA	Water	8260C	
LCS 480-323990/5	Lab Control Sample	Total/NA	Water	8260C	
LCSD 480-323990/6	Lab Control Sample Dup	Total/NA	Water	8260C	

Analysis Batch: 324093

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-107013-7	REW-4-20161004	Total/NA	Water	8260C	
480-107013-9	DUP2-20161004	Total/NA	Water	8260C	
MB 480-324093/8	Method Blank	Total/NA	Water	8260C	
LCS 480-324093/5	Lab Control Sample	Total/NA	Water	8260C	
LCSD 480-324093/6	Lab Control Sample Dup	Total/NA	Water	8260C	

GC/MS Semi VOA

Prep Batch: 109914

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-107013-1	MW-267S-20161004	Total/NA	Water	3535A	
480-107013-2	MW-267M-20161004	Total/NA	Water	3535A	
480-107013-3	MW-268S-20161004	Total/NA	Water	3535A	
480-107013-4	MW-268M-20161004	Total/NA	Water	3535A	
MB 200-109914/1-A	Method Blank	Total/NA	Water	3535A	
LCS 200-109914/2-A	Lab Control Sample	Total/NA	Water	3535A	
480-107013-4 MS	MW-268M-20161004	Total/NA	Water	3535A	
480-107013-4 MSD	MW-268M-20161004	Total/NA	Water	3535A	

Analysis Batch: 109928

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-107013-3	MW-268S-20161004	Total/NA	Water	522	109914
MB 200-109914/1-A	Method Blank	Total/NA	Water	522	109914
LCS 200-109914/2-A	Lab Control Sample	Total/NA	Water	522	109914
480-107013-4 MSD	MW-268M-20161004	Total/NA	Water	522	109914

Analysis Batch: 109981

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-107013-1	MW-267S-20161004	Total/NA	Water	522	109914
480-107013-2	MW-267M-20161004	Total/NA	Water	522	109914
480-107013-4	MW-268M-20161004	Total/NA	Water	522	109914
480-107013-4 MS	MW-268M-20161004	Total/NA	Water	522	109914

QC Association Summary

Client: Innovative Engineering Solutions, Inc
 Project/Site: IDS Wayland

TestAmerica Job ID: 480-107013-1

Metals

Prep Batch: 324002

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-107013-1	MW-267S-20161004	Total/NA	Water	3005A	
480-107013-3	MW-268S-20161004	Total/NA	Water	3005A	
480-107013-4	MW-268M-20161004	Total/NA	Water	3005A	
480-107013-6	REW-1-20161004	Total/NA	Water	3005A	
480-107013-7	REW-4-20161004	Total/NA	Water	3005A	
480-107013-8	REW-5-20161004	Total/NA	Water	3005A	
MB 480-324002/1-A	Method Blank	Total/NA	Water	3005A	
LCS 480-324002/2-A	Lab Control Sample	Total/NA	Water	3005A	
LCSD 480-324002/3-A	Lab Control Sample Dup	Total/NA	Water	3005A	

Analysis Batch: 324537

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-107013-1	MW-267S-20161004	Total/NA	Water	6010	324002
480-107013-3	MW-268S-20161004	Total/NA	Water	6010	324002
480-107013-4	MW-268M-20161004	Total/NA	Water	6010	324002
480-107013-6	REW-1-20161004	Total/NA	Water	6010	324002
480-107013-7	REW-4-20161004	Total/NA	Water	6010	324002
480-107013-8	REW-5-20161004	Total/NA	Water	6010	324002
MB 480-324002/1-A	Method Blank	Total/NA	Water	6010	324002
LCS 480-324002/2-A	Lab Control Sample	Total/NA	Water	6010	324002
LCSD 480-324002/3-A	Lab Control Sample Dup	Total/NA	Water	6010	324002

General Chemistry

Prep Batch: 323953

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-107013-1	MW-267S-20161004	Total/NA	Water	Distill/Ammonia	
480-107013-3	MW-268S-20161004	Total/NA	Water	Distill/Ammonia	
480-107013-4	MW-268M-20161004	Total/NA	Water	Distill/Ammonia	
480-107013-6	REW-1-20161004	Total/NA	Water	Distill/Ammonia	
480-107013-7	REW-4-20161004	Total/NA	Water	Distill/Ammonia	
480-107013-8	REW-5-20161004	Total/NA	Water	Distill/Ammonia	
MB 480-323953/2-A	Method Blank	Total/NA	Water	Distill/Ammonia	
LCS 480-323953/1-A	Lab Control Sample	Total/NA	Water	Distill/Ammonia	

Analysis Batch: 323984

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-107013-1	MW-267S-20161004	Total/NA	Water	350.1	323953
480-107013-3	MW-268S-20161004	Total/NA	Water	350.1	323953
480-107013-4	MW-268M-20161004	Total/NA	Water	350.1	323953
480-107013-6	REW-1-20161004	Total/NA	Water	350.1	323953
480-107013-7	REW-4-20161004	Total/NA	Water	350.1	323953
480-107013-8	REW-5-20161004	Total/NA	Water	350.1	323953
MB 480-323953/2-A	Method Blank	Total/NA	Water	350.1	323953
LCS 480-323953/1-A	Lab Control Sample	Total/NA	Water	350.1	323953

Analysis Batch: 323987

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-107013-1	MW-267S-20161004	Total/NA	Water	SM 4500 P E	
480-107013-3	MW-268S-20161004	Total/NA	Water	SM 4500 P E	

TestAmerica Buffalo

QC Association Summary

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-107013-1

General Chemistry (Continued)

Analysis Batch: 323987 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-107013-4	MW-268M-20161004	Total/NA	Water	SM 4500 P E	
480-107013-6	REW-1-20161004	Total/NA	Water	SM 4500 P E	
480-107013-7	REW-4-20161004	Total/NA	Water	SM 4500 P E	
480-107013-8	REW-5-20161004	Total/NA	Water	SM 4500 P E	
MB 480-323987/3	Method Blank	Total/NA	Water	SM 4500 P E	
LCS 480-323987/4	Lab Control Sample	Total/NA	Water	SM 4500 P E	
480-107013-6 MS	REW-1-20161004	Total/NA	Water	SM 4500 P E	
480-107013-6 MSD	REW-1-20161004	Total/NA	Water	SM 4500 P E	
480-107013-8 MS	REW-5-20161004	Total/NA	Water	SM 4500 P E	
480-107013-8 MSD	REW-5-20161004	Total/NA	Water	SM 4500 P E	

Analysis Batch: 324035

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-107013-1	MW-267S-20161004	Total/NA	Water	353.2	
480-107013-3	MW-268S-20161004	Total/NA	Water	353.2	
480-107013-4	MW-268M-20161004	Total/NA	Water	353.2	
480-107013-6	REW-1-20161004	Total/NA	Water	353.2	
480-107013-7	REW-4-20161004	Total/NA	Water	353.2	
480-107013-8	REW-5-20161004	Total/NA	Water	353.2	

Analysis Batch: 324036

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-107013-1	MW-267S-20161004	Total/NA	Water	300.0	
480-107013-6	REW-1-20161004	Total/NA	Water	300.0	
480-107013-7	REW-4-20161004	Total/NA	Water	300.0	
480-107013-8	REW-5-20161004	Total/NA	Water	300.0	
MB 480-324036/30	Method Blank	Total/NA	Water	300.0	
MB 480-324036/4	Method Blank	Total/NA	Water	300.0	
MB 480-324036/56	Method Blank	Total/NA	Water	300.0	
LCS 480-324036/29	Lab Control Sample	Total/NA	Water	300.0	
LCS 480-324036/3	Lab Control Sample	Total/NA	Water	300.0	
LCS 480-324036/55	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 324190

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-107013-6	REW-1-20161004	Total/NA	Water	9060A	
480-107013-7	REW-4-20161004	Total/NA	Water	9060A	
480-107013-8	REW-5-20161004	Total/NA	Water	9060A	
MB 480-324190/27	Method Blank	Total/NA	Water	9060A	
LCS 480-324190/28	Lab Control Sample	Total/NA	Water	9060A	
480-107013-7 MS	REW-4-20161004	Total/NA	Water	9060A	
480-107013-6 DU	REW-1-20161004	Total/NA	Water	9060A	

Analysis Batch: 324328

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-107013-1	MW-267S-20161004	Total/NA	Water	SM 2320B	
480-107013-6	REW-1-20161004	Total/NA	Water	SM 2320B	
480-107013-7	REW-4-20161004	Total/NA	Water	SM 2320B	
480-107013-8	REW-5-20161004	Total/NA	Water	SM 2320B	
MB 480-324328/30	Method Blank	Total/NA	Water	SM 2320B	
MB 480-324328/54	Method Blank	Total/NA	Water	SM 2320B	

TestAmerica Buffalo

QC Association Summary

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-107013-1

General Chemistry (Continued)

Analysis Batch: 324328 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-324328/7	Method Blank	Total/NA	Water	SM 2320B	
LCS 480-324328/31	Lab Control Sample	Total/NA	Water	SM 2320B	
LCS 480-324328/55	Lab Control Sample	Total/NA	Water	SM 2320B	
LCS 480-324328/8	Lab Control Sample	Total/NA	Water	SM 2320B	

Analysis Batch: 324587

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-107013-3	MW-268S-20161004	Total/NA	Water	9060A	
480-107013-4	MW-268M-20161004	Total/NA	Water	9060A	
MB 480-324587/4	Method Blank	Total/NA	Water	9060A	
MB 480-324587/52	Method Blank	Total/NA	Water	9060A	
LCS 480-324587/5	Lab Control Sample	Total/NA	Water	9060A	
LCS 480-324587/53	Lab Control Sample	Total/NA	Water	9060A	

Analysis Batch: 324714

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-107013-3	MW-268S-20161004	Total/NA	Water	300.0	
480-107013-4	MW-268M-20161004	Total/NA	Water	300.0	
MB 480-324714/4	Method Blank	Total/NA	Water	300.0	
LCS 480-324714/3	Lab Control Sample	Total/NA	Water	300.0	
480-107013-4 MS	MW-268M-20161004	Total/NA	Water	300.0	
480-107013-4 MSD	MW-268M-20161004	Total/NA	Water	300.0	

Analysis Batch: 324850

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-107013-3	MW-268S-20161004	Total/NA	Water	300.0	
MB 480-324850/4	Method Blank	Total/NA	Water	300.0	
LCS 480-324850/3	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 325086

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-107013-1	MW-267S-20161004	Total/NA	Water	9060A	
MB 480-325086/28	Method Blank	Total/NA	Water	9060A	
LCS 480-325086/29	Lab Control Sample	Total/NA	Water	9060A	

Analysis Batch: 325246

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-107013-3	MW-268S-20161004	Total/NA	Water	SM 2320B	
480-107013-4	MW-268M-20161004	Total/NA	Water	SM 2320B	
MB 480-325246/3	Method Blank	Total/NA	Water	SM 2320B	
LCS 480-325246/4	Lab Control Sample	Total/NA	Water	SM 2320B	
480-107013-4 MS	MW-268M-20161004	Total/NA	Water	SM 2320B	
480-107013-4 DU	MW-268M-20161004	Total/NA	Water	SM 2320B	

Lab Chronicle

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-107013-1

Client Sample ID: MW-267S-20161004

Lab Sample ID: 480-107013-1

Date Collected: 10/04/16 13:30

Matrix: Water

Date Received: 10/05/16 01:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		4	323990	10/06/16 02:25	JWG	TAL BUF
Total/NA	Prep	3535A			109914	10/07/16 08:57	ERJ	TAL BUR
Total/NA	Analysis	522		1	109981	10/10/16 11:07	NJS	TAL BUR
Total/NA	Prep	3005A			324002	10/06/16 09:31	MVZ	TAL BUF
Total/NA	Analysis	6010		1	324537	10/07/16 16:26	TRB	TAL BUF
Total/NA	Analysis	300.0		10	324036	10/06/16 12:42	CAV	TAL BUF
Total/NA	Prep	Distill/Ammonia			323953	10/05/16 13:21	KRT	TAL BUF
Total/NA	Analysis	350.1		1	323984	10/05/16 15:26	KRT	TAL BUF
Total/NA	Analysis	353.2		1	324035	10/05/16 16:50	ELR	TAL BUF
Total/NA	Analysis	9060A		40	325086	10/12/16 00:13	EKB	TAL BUF
Total/NA	Analysis	SM 2320B		1	324328	10/06/16 18:25	KMF	TAL BUF
Total/NA	Analysis	SM 4500 P E		1	323987	10/05/16 14:30	MDL	TAL BUF

Client Sample ID: MW-267M-20161004

Lab Sample ID: 480-107013-2

Date Collected: 10/04/16 14:10

Matrix: Water

Date Received: 10/05/16 01:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	323990	10/06/16 02:50	JWG	TAL BUF
Total/NA	Prep	3535A			109914	10/07/16 08:57	ERJ	TAL BUR
Total/NA	Analysis	522		1	109981	10/10/16 11:26	NJS	TAL BUR

Client Sample ID: MW-268S-20161004

Lab Sample ID: 480-107013-3

Date Collected: 10/04/16 11:35

Matrix: Water

Date Received: 10/05/16 01:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		50	323990	10/06/16 03:14	JWG	TAL BUF
Total/NA	Prep	3535A			109914	10/07/16 08:57	ERJ	TAL BUR
Total/NA	Analysis	522		1	109928	10/07/16 15:59	P1M	TAL BUR
Total/NA	Prep	3005A			324002	10/06/16 09:31	MVZ	TAL BUF
Total/NA	Analysis	6010		1	324537	10/07/16 16:30	TRB	TAL BUF
Total/NA	Analysis	300.0		50	324714	10/10/16 12:50	CAV	TAL BUF
Total/NA	Analysis	300.0		5	324850	10/11/16 10:57	CAV	TAL BUF
Total/NA	Prep	Distill/Ammonia			323953	10/05/16 13:21	KRT	TAL BUF
Total/NA	Analysis	350.1		1	323984	10/05/16 15:27	KRT	TAL BUF
Total/NA	Analysis	353.2		1	324035	10/05/16 16:52	ELR	TAL BUF
Total/NA	Analysis	9060A		1000	324587	10/07/16 23:31	EKB	TAL BUF
Total/NA	Analysis	SM 2320B		1	325246	10/12/16 14:55	KMF	TAL BUF
Total/NA	Analysis	SM 4500 P E		1	323987	10/05/16 14:30	MDL	TAL BUF

TestAmerica Buffalo

Lab Chronicle

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-107013-1

Client Sample ID: MW-268M-20161004

Lab Sample ID: 480-107013-4

Date Collected: 10/04/16 12:20

Matrix: Water

Date Received: 10/05/16 01:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		20	323990	10/06/16 03:39	JWG	TAL BUF
Total/NA	Prep	3535A			109914	10/07/16 08:57	ERJ	TAL BUR
Total/NA	Analysis	522		1	109981	10/10/16 11:44	NJS	TAL BUR
Total/NA	Prep	3005A			324002	10/06/16 09:31	MVZ	TAL BUF
Total/NA	Analysis	6010		1	324537	10/07/16 16:33	TRB	TAL BUF
Total/NA	Analysis	300.0		50	324714	10/10/16 12:59	CAV	TAL BUF
Total/NA	Prep	Distill/Ammonia			323953	10/05/16 13:21	KRT	TAL BUF
Total/NA	Analysis	350.1		1	323984	10/05/16 15:28	KRT	TAL BUF
Total/NA	Analysis	353.2		1	324035	10/05/16 16:53	ELR	TAL BUF
Total/NA	Analysis	9060A		500	324587	10/07/16 23:59	EKB	TAL BUF
Total/NA	Analysis	SM 2320B		1	325246	10/12/16 14:55	KMF	TAL BUF
Total/NA	Analysis	SM 4500 P E		1	323987	10/05/16 14:30	MDL	TAL BUF

Client Sample ID: MW-268D-20161004

Lab Sample ID: 480-107013-5

Date Collected: 10/04/16 13:00

Matrix: Water

Date Received: 10/05/16 01:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		5	323990	10/06/16 04:03	JWG	TAL BUF

Client Sample ID: REW-1-20161004

Lab Sample ID: 480-107013-6

Date Collected: 10/04/16 08:35

Matrix: Water

Date Received: 10/05/16 01:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	323990	10/06/16 04:27	JWG	TAL BUF
Total/NA	Prep	3005A			324002	10/06/16 09:31	MVZ	TAL BUF
Total/NA	Analysis	6010		1	324537	10/07/16 16:37	TRB	TAL BUF
Total/NA	Analysis	300.0		5	324036	10/06/16 13:06	CAV	TAL BUF
Total/NA	Prep	Distill/Ammonia			323953	10/05/16 13:21	KRT	TAL BUF
Total/NA	Analysis	350.1		1	323984	10/05/16 15:29	KRT	TAL BUF
Total/NA	Analysis	353.2		1	324035	10/05/16 16:54	ELR	TAL BUF
Total/NA	Analysis	9060A		1	324190	10/06/16 10:17	EKB	TAL BUF
Total/NA	Analysis	SM 2320B		1	324328	10/06/16 18:32	KMF	TAL BUF
Total/NA	Analysis	SM 4500 P E		1	323987	10/05/16 14:30	MDL	TAL BUF

Client Sample ID: REW-4-20161004

Lab Sample ID: 480-107013-7

Date Collected: 10/04/16 09:20

Matrix: Water

Date Received: 10/05/16 01:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	324093	10/06/16 14:45	RRS	TAL BUF

TestAmerica Buffalo

Lab Chronicle

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-107013-1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3005A			324002	10/06/16 09:31	MVZ	TAL BUF
Total/NA	Analysis	6010		1	324537	10/07/16 16:51	TRB	TAL BUF
Total/NA	Analysis	300.0		5	324036	10/06/16 13:15	CAV	TAL BUF
Total/NA	Prep	Distill/Ammonia			323953	10/05/16 13:21	KRT	TAL BUF
Total/NA	Analysis	350.1		5	323984	10/05/16 15:38	KRT	TAL BUF
Total/NA	Analysis	353.2		1	324035	10/05/16 16:55	ELR	TAL BUF
Total/NA	Analysis	9060A		1	324190	10/06/16 11:13	EKB	TAL BUF
Total/NA	Analysis	SM 2320B		1	324328	10/06/16 18:39	KMF	TAL BUF
Total/NA	Analysis	SM 4500 P E		1	323987	10/05/16 14:30	MDL	TAL BUF

Client Sample ID: REW-5-20161004

Lab Sample ID: 480-107013-8

Date Collected: 10/04/16 10:05

Matrix: Water

Date Received: 10/05/16 01:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	323990	10/06/16 05:15	JWG	TAL BUF
Total/NA	Prep	3005A			324002	10/06/16 09:31	MVZ	TAL BUF
Total/NA	Analysis	6010		1	324537	10/07/16 16:55	TRB	TAL BUF
Total/NA	Analysis	300.0		1	324036	10/06/16 13:23	CAV	TAL BUF
Total/NA	Prep	Distill/Ammonia			323953	10/05/16 13:21	KRT	TAL BUF
Total/NA	Analysis	350.1		2	323984	10/05/16 15:39	KRT	TAL BUF
Total/NA	Analysis	353.2		1	324035	10/05/16 16:57	ELR	TAL BUF
Total/NA	Analysis	9060A		1	324190	10/06/16 12:11	EKB	TAL BUF
Total/NA	Analysis	SM 2320B		1	324328	10/06/16 13:18	KMF	TAL BUF
Total/NA	Analysis	SM 4500 P E		1	323987	10/05/16 14:30	MDL	TAL BUF

Client Sample ID: DUP2-20161004

Lab Sample ID: 480-107013-9

Date Collected: 10/04/16 00:00

Matrix: Water

Date Received: 10/05/16 01:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	324093	10/06/16 15:09	RRS	TAL BUF

Client Sample ID: TRIP BLANKS

Lab Sample ID: 480-107013-10

Date Collected: 10/04/16 00:00

Matrix: Water

Date Received: 10/05/16 01:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	323990	10/06/16 06:03	JWG	TAL BUF

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

TAL BUR = TestAmerica Burlington, 30 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

Certification Summary

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-107013-1

Laboratory: TestAmerica Buffalo

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Arkansas DEQ	State Program	6	88-0686	07-06-17
California	State Program	9	1169CA	09-30-17
Connecticut	State Program	1	PH-0568	09-30-18
Florida	NELAP	4	E87672	06-30-17
Georgia	State Program	4	N/A	03-31-17
Georgia	State Program	4	956	03-31-17
Illinois	NELAP	5	200003	09-30-16 *
Iowa	State Program	7	374	03-01-17
Kansas	NELAP	7	E-10187	10-31-16
Kentucky (DW)	State Program	4	90029	12-31-16
Kentucky (UST)	State Program	4	30	03-31-17
Kentucky (WW)	State Program	4	90029	12-31-16
Louisiana	NELAP	6	02031	06-30-17
Maine	State Program	1	NY00044	12-04-16
Maryland	State Program	3	294	03-31-17
Massachusetts	State Program	1	M-NY044	06-30-17
Michigan	State Program	5	9937	03-31-17
Minnesota	NELAP	5	036-999-337	12-31-16
New Hampshire	NELAP Primary AB	1	2973	09-11-17
New Hampshire	NELAP Secondary AB	1	2337	11-17-16
New Jersey	NELAP	2	NY455	06-30-17
New York	NELAP	2	10026	03-31-17
North Dakota	State Program	8	R-176	03-31-17
Oklahoma	State Program	6	9421	08-31-17
Oregon	NELAP	10	NY200003	06-09-17
Pennsylvania	NELAP	3	68-00281	07-31-17
Rhode Island	State Program	1	LAO00328	12-30-16
Tennessee	State Program	4	TN02970	03-31-17
Texas	NELAP	6	T104704412-15-6	07-31-17
USDA	Federal		P330-11-00386	11-26-17
Virginia	NELAP	3	460185	09-14-17
Washington	State Program	10	C784	02-10-17
West Virginia DEP	State Program	3	252	09-30-16 *
Wisconsin	State Program	5	998310390	08-31-17

Laboratory: TestAmerica Burlington

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-0751	09-30-17
DE Haz. Subst. Cleanup Act (HSCA)	State Program	3	NA	02-02-17
Florida	NELAP	4	E87467	06-30-17
L-A-B	DoD ELAP		L2336	02-26-17
Maine	State Program	1	VT00008	04-17-17
Minnesota	NELAP	5	050-999-436	12-31-16
New Hampshire	NELAP	1	2006	12-18-16
New Jersey	NELAP	2	VT972	06-30-17
New York	NELAP	2	10391	04-01-17
Pennsylvania	NELAP	3	68-00489	04-30-17
Rhode Island	State Program	1	LAO00298	12-30-16

* Certification renewal pending - certification considered valid.

Certification Summary

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-107013-1

Laboratory: TestAmerica Burlington (Continued)

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

Authority	Program	EPA Region	Certification ID	Expiration Date
US Fish & Wildlife	Federal		LE-058448-0	10-31-16
USDA	Federal		P330-11-00093	10-28-16
Vermont	State Program	1	VT-4000	12-31-16
Virginia	NELAP	3	460209	12-14-16

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

Method Summary

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-107013-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds (GC/MS)	MA DEP	TAL BUF
522	1,4 Dioxane (GC/MS SIM)	EPA	TAL BUR
6010	Metals (ICP)	SW846	TAL BUF
300.0	Anions, Ion Chromatography	MCAWW	TAL BUF
350.1	Nitrogen, Ammonia	MCAWW	TAL BUF
353.2	Nitrate	EPA	TAL BUF
9060A	Organic Carbon, Total (TOC)	SW846	TAL BUF
SM 2320B	Alkalinity	SM	TAL BUF
SM 4500 P E	Orthophosphate	SM	TAL BUF

Protocol References:

EPA = US Environmental Protection Agency

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.

SM = "Standard Methods For The Examination Of Water And Wastewater",

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

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

TAL BUR = TestAmerica Burlington, 30 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

Sample Summary

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-107013-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-107013-1	MW-267S-20161004	Water	10/04/16 13:30	10/05/16 01:15
480-107013-2	MW-267M-20161004	Water	10/04/16 14:10	10/05/16 01:15
480-107013-3	MW-268S-20161004	Water	10/04/16 11:35	10/05/16 01:15
480-107013-4	MW-268M-20161004	Water	10/04/16 12:20	10/05/16 01:15
480-107013-5	MW-268D-20161004	Water	10/04/16 13:00	10/05/16 01:15
480-107013-6	REW-1-20161004	Water	10/04/16 08:35	10/05/16 01:15
480-107013-7	REW-4-20161004	Water	10/04/16 09:20	10/05/16 01:15
480-107013-8	REW-5-20161004	Water	10/04/16 10:05	10/05/16 01:15
480-107013-9	DUP2-20161004	Water	10/04/16 00:00	10/05/16 01:15
480-107013-10	TRIP BLANKS	Water	10/04/16 00:00	10/05/16 01:15



Login Sample Receipt Checklist

Client: Innovative Engineering Solutions, Inc

Job Number: 480-107013-1

Login Number: 107013

List Number: 1

Creator: Williams, Christopher S

List Source: TestAmerica Buffalo

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
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 (Excluding tests with immediate HTs)..	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	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	IESI
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

Login Sample Receipt Checklist

Client: Innovative Engineering Solutions, Inc

Job Number: 480-107013-1

Login Number: 107013

List Number: 2

Creator: Lavigne, Scott M

List Source: TestAmerica Burlington

List Creation: 10/05/16 12:35 PM

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	True	Seal present with no number.
Sample custody seals, if present, are 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	4.4°C,6.0°C,4.8°C,3.8°C,2.8°C
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 containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	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.	N/A	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica Westfield
 501 Southampton Road
 Westfield MA 01085
 Phone: (413) 572-4000 Fax: (303) 467-7247

TestAmerica Boston
 240 Bear Hill Road - Suite 104
 Waltham MA 02451
 Phone: (781) 466-6900 Fax: (781) 466-6901

360325-Boston

Chain of Custody Record

TestAmerica
 THE LEADER IN ENVIRONMENTAL TESTING

Client Information:		Lab COC Remark: 37052	
Client Contact: Indira Nishi Pringle		Page: 1 of 1	
Company: Imperial Engineering Solutions Inc		Job #:	
Address: 25 Seary St		Preservation Codes: 480-107013 COC	
City: Woburn MA		A - Hydrochloric Acid B - Sodium Hydroxide C - Zinc Acetate D - Nitric Acid E - Sodium Bisulfite F - Methanol H - Ascorbic Acid J - Deionized Water M - Hexane N - No Preservative P - Sodium Sulfate Q - Sodium Sulfite R - Sodium Thiosulfate S - Sulfuric Acid Z - other (specify)	
State and Zip: MA 02071		Regulatory Programs: MCP <input type="checkbox"/> GW1/S1 <input type="checkbox"/> RCP <input type="checkbox"/> CT RSR <input type="checkbox"/> DEP Form <input type="checkbox"/> EDD Required <input type="checkbox"/> eDEP Filing <input type="checkbox"/> NPDES <input type="checkbox"/>	
Client's Phone: 508-667-0033		SUBCONTRACT POLICY: advance to permit TestAmerica to use certified instructions to the contrary, or subcontract labs, without specify which sub-contract any additional notification labs are or are not to be used, you agree in to fulfill your work order.	
Client's Contact Email: v.pringle@imperialeng.com		Total Number of Containers (enter total for each line)	
Client's Project Name/Number: Northwood - Woburn MA-008		<input type="checkbox"/> 1 <input type="checkbox"/> 5 <input type="checkbox"/> 11 <input type="checkbox"/> 11 <input type="checkbox"/> 3 <input type="checkbox"/> 9 <input type="checkbox"/> 9 <input type="checkbox"/> 9 <input type="checkbox"/> 3 <input type="checkbox"/> 2	
Sample Collection Site Name & Location: Woburn MA		Special Instructions & Notes:	
Sample Identification			
Sample Collection Date (MM/DD/YY)	Sample Collection Time (24 Hour Clock)	Sample Type: C=Comp G=Grab	Matrix Type **
10/14/12	1330	C	W
10/14/12	1410	C	W
10/14/12	1135	C	W
10/14/12	1220	C	W
10/14/12	1300	C	W
10/14/12	0835	C	W
10/14/12	0920	C	W
10/14/12	1005	C	W
10/14/12	-	C	W
10/14/12	-	C	W
Possible Hazard Identification (please check off each that may apply): <input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological			
Sample Disposal Requirements (A fee may be assessed if samples are retained longer than 1 month): <input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months			
NOTE!! ALL SAMPLES MUST BE TRANSPORTED IN A COOLER, ON ICE !!			
Relinquished by: [Signature]	Date/Time: 10/14/12 1430	Company: TEST	Company: TEST
Relinquished by: [Signature]	Date/Time: 10-14-12 1100	Company: TEST	Company: TEST
Relinquished by: [Signature]	Date/Time: 10-14-12 1100	Company: TEST	Company: TEST
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No			
Custody Seal No.: 1.6, 1.8 767			

Client Information:
 Client Contact: Wendy Sorensen
 Company: Wendy Sorensen
 Address: 508-404-3196
 City: Waltham MA
 State and Zip: MA 02071
 Client's Phone: 508-669-0933
 Client's Contact Email: Wendy.Sorensen@TestAmerica.com
 Client's Project Name/Number: RA-008
 Sample Collection Site Name & Location: Waltham MA

Analysis Requested
 Lab COC Barcode Label: 37052
 Page: 1 of 1
 Job #: 1
 Lab PM: Wendy Sorensen
 E-Mail: Wendy.Sorensen@TestAmerica.com
 Sample Collector's Name (Please Print Neatly): Wendy Sorensen
 Sample Collector's Photo: [Handwritten Signature]
 Due Date Requested: 10/11/16
 Turnaround Time (TAT) Requested (business days): 5 bus
 Quote # or Project #: RA-008
 PO #: RA-008
 WO #: RA-008
 PWS ID #: RA-008

Sample Identification	Sample Collection Date (MM/DD/YY)	Sample Collection Time (24 Hour Clock)	Sample Type: C=Comp G=Grab	Matrix Type **	Analysis Requested											Total Number of Containers (enter total for each line)	S	
					1	2	3	4	5	6	7	8	9	10	11			12
MW-2673-20161004	10/14/16	1330	C	3	X	X	X	X	X	X	X	X	X	X	X	X	11	
MW-2674-20161004	10/14/16	1410	C	3	X	X	X	X	X	X	X	X	X	X	X	X	5	
MW-2675-20161004	10/14/16	1135	C	3	X	X	X	X	X	X	X	X	X	X	X	X	11	
MW-2681-20161004	10/14/16	1220	C	3	X	X	X	X	X	X	X	X	X	X	X	X	11	
MW-2685-20161004	10/14/16	1300	C	3	X	X	X	X	X	X	X	X	X	X	X	X	3	
REW-1-20161004	10/14/16	0835	C	3	X	X	X	X	X	X	X	X	X	X	X	X	3	
REW-4-20161004	10/14/16	0920	C	3	X	X	X	X	X	X	X	X	X	X	X	X	3	
REW-5-20161004	10/14/16	1005	C	3	X	X	X	X	X	X	X	X	X	X	X	X	3	
DUP-1-20161004	10/14/16	-	C	3	X	X	X	X	X	X	X	X	X	X	X	X	3	
DUP-2-20161004	10/14/16	-	C	3	X	X	X	X	X	X	X	X	X	X	X	X	3	

Sample Disposal Requirements (A fee may be assessed)
 Return To Client Disposal By Lab Archive For _____ Months
NOTE!! ALL SAMPLES MUST BE TRANSPORTED IN A COOLER, ON ICE !!
 Received by: [Signature] Date/Time: 10-14-16 1430 Company: TestAmerica
 Received by: [Signature] Date/Time: 10/15/16 1030 Company: TestAmerica
 Received by: [Signature] Date/Time: 10/15/16 1030 Company: TestAmerica
 Cooler Temperature(s) °C and Other Remarks: _____

Possible Hazard Identification (please check off each that may apply):
 Non-Hazard Flammable Skin Irritant Poison B Unknown Radiological
**** Matrix Types:** A=Air S=Solid/Soil W=Water O=Oil X=Waste (non-water) Z=Other: _____
 Relinquished by: [Signature] Date/Time: 10/14/16 1430 Company: TestAmerica
 Relinquished by: [Signature] Date/Time: 10/14/16 1430 Company: TestAmerica
 Relinquished by: [Signature] Date/Time: 10/14/16 1430 Company: TestAmerica
 Custody Seals Intact: Yes No Custody Seal No.: _____



ORIGIN ID:BXCA (781) 466-6900
PAUL HOBART
TESTAMERICA
240 BEAR HILL ROAD
SUITE 104
WALTHAM, MA 02451
UNITED STATES US

SHIP DATE: 04OCT16
ACTWGT: 45.1 LB
CAD: 590687/CAFE2912

BILL RECIPIENT

TO **SAMPLE RECEIVING**
TESTAMERICA BURLINGTON
30 COMMUNITY DRIVE
SUITE 11
SOUTH BURLINGTON VT 05403

(802) 660-1990

REF:

INU:

PO:

DEPT:



FedEx
Express



J1513150813011V

ORIGIN ID:BXCA (781) 466-6900
PAUL HOBART
TESTAMERICA
240 BEAR HILL ROAD
SUITE 104
WALTHAM, MA 02451
UNITED STATES US

SHIP DATE: 04OCT16
ACTWGT: 57.1 LB
CAD: 590687/CAFE2912

BILL RECIPIENT

TO **SAMPLE RECEIVING**
TESTAMERICA BURLINGTON
30 COMMUNITY DRIVE
SUITE 11
SOUTH BURLINGTON VT 05403

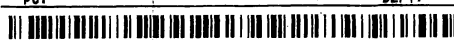
(802) 660-1990

REF:

INU:

PO:

DEPT:



FedEx
Express



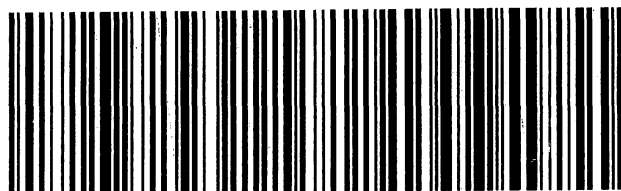
J1513150813011V

1 of 7
TRK# 0201 4258 8390 8086
MASTER

WED - 05 OCT 3:00P
STANDARD OVERNIGHT

NC BTVA

05403
VT-US BTV



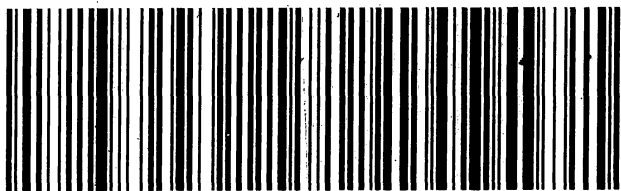
Part # 156148V-434 RIT2 02/17

2 of 7
MPS# 0263 4258 8390 8097
Mstr# 4258 8390 8086

WED - 05 OCT 3:00P
STANDARD OVERNIGHT

NC BTVA

05403
VT-US BTV



Part # 156148V-434 RIT2 02/17

SHIP DATE: 04OCT16
ACTWGT: 61.0 LB
CAD: 590687/CAFE2912

BILL RECIPIENT

ORIGIN ID:BXCA (781) 466-6900
PAUL HOBART
TESTAMERICA
240 BEAR HILL ROAD
SUITE 104
WALTHAM, MA 02451
UNITED STATES US

TO **SAMPLE RECEIVING**
TESTAMERICA BURLINGTON
30 COMMUNITY DRIVE
SUITE 11
SOUTH BURLINGTON VT 05403

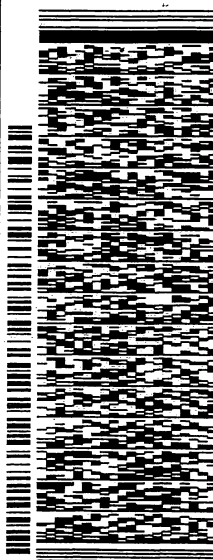
(802) 660-1990

REF:

INU:

PO:

DEPT:



FedEx
Express

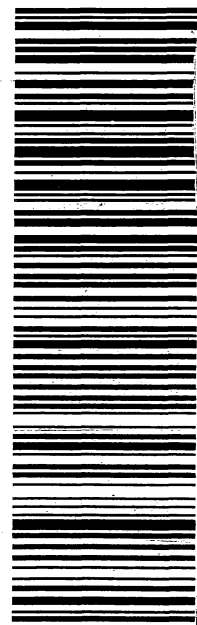


J1513150813011V

WED - 05 OCT 3:00P
STANDARD OVERNIGHT

4 of 7
MPS# 0263 4258 8390 8112
Mstr# 4258 8390 8086
NC BTVA

05403
VT-US BTV



538CL/52E/3298

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15

ORIGIN ID:BXCA (781) 466-6900
 PAUL HOBART
 TESTAMERICA
 240 BEAR HILL ROAD
 SUITE 104
 WALTHAM, MA 02451
 UNITED STATES US

SHIP DATE: 04OCT16
 ACTWGT: 54.5 LB
 CAD: 590687/CAFE2912

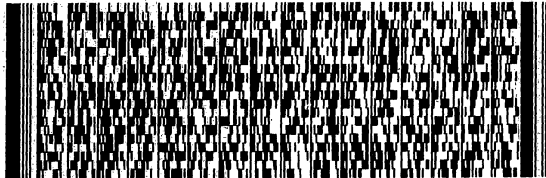
BILL RECIPIENT

TO **SAMPLE RECEIVING**
TESTAMERICA BURLINGTON
30 COMMUNITY DRIVE
SUITE 11
SOUTH BURLINGTON VT 05403

(802) 880-1990
 TNU:
 PO:

REF:

DEPT:



538C1/E52E/299

ORIGIN ID:BXCA (781) 466-6900
 PAUL HOBART
 TESTAMERICA
 240 BEAR HILL ROAD
 SUITE 104
 WALTHAM, MA 02451
 UNITED STATES US

SHIP DATE: 04OCT16
 ACTWGT: 55.8 LB
 CAD: 590687/CAFE2912

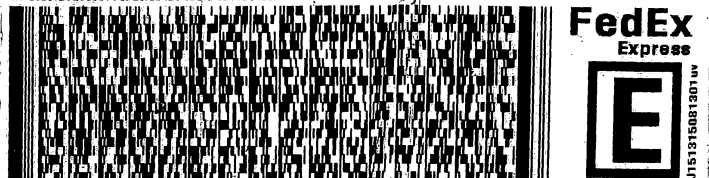
BILL RECIPIENT

TO **SAMPLE RECEIVING**
TESTAMERICA BURLINGTON
30 COMMUNITY DRIVE
SUITE 11
SOUTH BURLINGTON VT 05403

(802) 880-1990
 TNU:
 PO:

REF:

DEPT:



538C1/E52E/299

6 of 7

MPS# 4258 8390 8134
 0263

Mstr# 4258 8390 8086

0201

NC BTVA

05403
 VT-US BTV

WED - 05 OCT 3:00P
STANDARD OVERNIGHT



Part # 156148V-434 RIT2 02/17

7 of 7

MPS# 4258 8390 8145
 0263

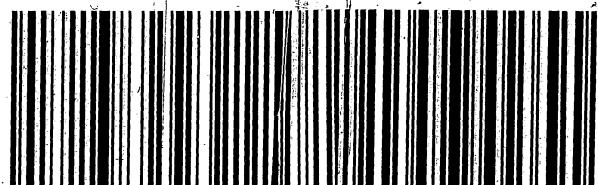
Mstr# 4258 8390 8086

0201

NC BTVA

05403
 VT-US BTV

WED - 05 OCT 3:00P
STANDARD OVERNIGHT



Part # 156148V-434 RIT2 02/17



ANALYTICAL REPORT

Lab Number:	L1631730
Client:	Innovative Engineering Solutions, Inc. 25 Spring Street Walpole, MA 02081
ATTN:	Vicki Pariyar
Phone:	(508) 668-0033
Project Name:	RAYTHEON-WAYLAND
Project Number:	RA-008
Report Date:	10/13/16

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: NY (11627), CT (PH-0141), NH (2206), NJ NELAP (MA015), RI (LAO00299), ME (MA00030), PA (68-02089), VA (460194), LA NELAP (03090), FL (E87814), TX (T104704419), WA (C954), USFWS (Permit #LE2069641), USDA (Permit #P330-11-00109), US Army Corps of Engineers.

320 Forbes Boulevard, Mansfield, MA 02048-1806
508-822-9300 (Fax) 508-822-3288 800-624-9220 - www.alphalab.com



Project Name: RAYTHEON-WAYLAND

Project Number: RA-008

Lab Number: L1631730

Report Date: 10/13/16

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1631730-01	MW-261S-20161003	WATER	WAYLAND, MA	10/03/16 08:15	10/05/16
L1631730-02	MW-265M-20161003	WATER	WAYLAND, MA	10/03/16 12:05	10/05/16
L1631730-03	MW-267S-20161004	WATER	WAYLAND, MA	10/04/16 13:30	10/05/16
L1631730-04	MW-268S-20161004	WATER	WAYLAND, MA	10/04/16 11:35	10/05/16
L1631730-05	MW-268M-20161004	WATER	WAYLAND, MA	10/04/16 12:20	10/05/16
L1631730-06	MW-552-20161003	WATER	WAYLAND, MA	10/03/16 08:55	10/05/16
L1631730-07	MW-553-20161003	WATER	WAYLAND, MA	10/03/16 09:50	10/05/16
L1631730-08	MW-560-20161005	WATER	WAYLAND, MA	10/05/16 13:00	10/05/16
L1631730-09	MW-561-20161005	WATER	WAYLAND, MA	10/05/16 12:00	10/05/16
L1631730-10	MW-562-20161003	WATER	WAYLAND, MA	10/03/16 10:45	10/05/16
L1631730-11	MW-563-20161005	WATER	WAYLAND, MA	10/05/16 08:35	10/05/16
L1631730-12	REW-1-20161004	WATER	WAYLAND, MA	10/04/16 08:35	10/05/16
L1631730-13	REW-4-20161004	WATER	WAYLAND, MA	10/04/16 09:20	10/05/16
L1631730-14	REW-5-20161004	WATER	WAYLAND, MA	10/04/16 10:05	10/05/16
L1631730-15	REW-7-20161005	WATER	WAYLAND, MA	10/05/16 11:20	10/05/16
L1631730-16	REW-8-20161005	WATER	WAYLAND, MA	10/05/16 10:25	10/05/16
L1631730-17	REW-9-20161005	WATER	WAYLAND, MA	10/05/16 09:30	10/05/16
L1631730-18	REW-10-20161005	WATER	WAYLAND, MA	10/05/16 08:55	10/05/16
L1631730-19	REW-11-20161005	WATER	WAYLAND, MA	10/05/16 12:20	10/05/16
L1631730-20	REW-12-20161005	WATER	WAYLAND, MA	10/05/16 13:10	10/05/16

Project Name: RAYTHEON-WAYLAND
Project Number: RA-008

Lab Number: L1631730
Report Date: 10/13/16

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 NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. 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: RAYTHEON-WAYLAND
Project Number: RA-008

Lab Number: L1631730
Report Date: 10/13/16

Case Narrative (continued)

Dissolved Gases

L1631730-1 through -20: The samples were re-analyzed on dilution in order to quantify the results within the calibration range. The results should be considered estimated, and are qualified with an E flag, for any compounds that exceeded the calibration range in the initial analysis. The re-analysis was performed only for the compound that exceeded the calibration range.

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:



Elizabeth Porta

Title: Technical Director/Representative

Date: 10/13/16

ORGANICS

VOLATILES

Project Name: RAYTHEON-WAYLAND
Project Number: RA-008

Lab Number: L1631730
Report Date: 10/13/16

SAMPLE RESULTS

Lab ID: L1631730-01
 Client ID: MW-261S-20161003
 Sample Location: WAYLAND, MA
 Matrix: Water
 Analytical Method: 117,-
 Analytical Date: 10/10/16 12:19
 Analyst: LB

Date Collected: 10/03/16 08:15
 Date Received: 10/05/16
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Dissolved Gases by GC - Mansfield Lab							
Methane	19400	E	ug/l	0.500	--	1	A
Ethene	5.37		ug/l	0.500	--	1	A
Ethane	23.4		ug/l	0.500	--	1	A

Project Name: RAYTHEON-WAYLAND**Lab Number:** L1631730**Project Number:** RA-008**Report Date:** 10/13/16**SAMPLE RESULTS**

Lab ID: L1631730-01 D

Date Collected: 10/03/16 08:15

Client ID: MW-261S-20161003

Date Received: 10/05/16

Sample Location: WAYLAND, MA

Field Prep: Not Specified

Matrix: Water

Analytical Method: 117,-

Analytical Date: 10/10/16 18:42

Analyst: LB

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Dissolved Gases by GC - Mansfield Lab							
Methane	16900		ug/l	2.50	--	5	A

Project Name: RAYTHEON-WAYLAND
Project Number: RA-008

Lab Number: L1631730
Report Date: 10/13/16

SAMPLE RESULTS

Lab ID: L1631730-02
 Client ID: MW-265M-20161003
 Sample Location: WAYLAND, MA
 Matrix: Water
 Analytical Method: 117,-
 Analytical Date: 10/10/16 12:33
 Analyst: LB

Date Collected: 10/03/16 12:05
 Date Received: 10/05/16
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Dissolved Gases by GC - Mansfield Lab							
Methane	11500	E	ug/l	0.500	--	1	A
Ethene	0.670		ug/l	0.500	--	1	A
Ethane	0.874		ug/l	0.500	--	1	A

Project Name: RAYTHEON-WAYLAND**Lab Number:** L1631730**Project Number:** RA-008**Report Date:** 10/13/16**SAMPLE RESULTS**

Lab ID: L1631730-02 D

Date Collected: 10/03/16 12:05

Client ID: MW-265M-20161003

Date Received: 10/05/16

Sample Location: WAYLAND, MA

Field Prep: Not Specified

Matrix: Water

Analytical Method: 117,-

Analytical Date: 10/10/16 17:41

Analyst: LB

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Dissolved Gases by GC - Mansfield Lab							
Methane	9770		ug/l	1.00	--	2	A

Project Name: RAYTHEON-WAYLAND
Project Number: RA-008

Lab Number: L1631730
Report Date: 10/13/16

SAMPLE RESULTS

Lab ID: L1631730-03
 Client ID: MW-267S-20161004
 Sample Location: WAYLAND, MA
 Matrix: Water
 Analytical Method: 117,-
 Analytical Date: 10/10/16 12:48
 Analyst: LB

Date Collected: 10/04/16 13:30
 Date Received: 10/05/16
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Dissolved Gases by GC - Mansfield Lab							
Methane	16700	E	ug/l	0.500	--	1	A
Ethene	1.52		ug/l	0.500	--	1	A
Ethane	0.659		ug/l	0.500	--	1	A

Project Name: RAYTHEON-WAYLAND
Project Number: RA-008

Lab Number: L1631730
Report Date: 10/13/16

SAMPLE RESULTS

Lab ID: L1631730-03 D
 Client ID: MW-267S-20161004
 Sample Location: WAYLAND, MA
 Matrix: Water
 Analytical Method: 117,-
 Analytical Date: 10/10/16 18:56
 Analyst: LB

Date Collected: 10/04/16 13:30
 Date Received: 10/05/16
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Dissolved Gases by GC - Mansfield Lab							
Methane	15000		ug/l	2.50	--	5	A

Project Name: RAYTHEON-WAYLAND
Project Number: RA-008

Lab Number: L1631730
Report Date: 10/13/16

SAMPLE RESULTS

Lab ID: L1631730-04
 Client ID: MW-268S-20161004
 Sample Location: WAYLAND, MA
 Matrix: Water
 Analytical Method: 117,-
 Analytical Date: 10/10/16 13:32
 Analyst: LB

Date Collected: 10/04/16 11:35
 Date Received: 10/05/16
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Dissolved Gases by GC - Mansfield Lab							
Methane	12000	E	ug/l	0.500	--	1	A
Ethene	1.13		ug/l	0.500	--	1	A
Ethane	2.51		ug/l	0.500	--	1	A

Project Name: RAYTHEON-WAYLAND
Project Number: RA-008

Lab Number: L1631730
Report Date: 10/13/16

SAMPLE RESULTS

Lab ID: L1631730-04 D
 Client ID: MW-268S-20161004
 Sample Location: WAYLAND, MA
 Matrix: Water
 Analytical Method: 117,-
 Analytical Date: 10/10/16 17:56
 Analyst: LB

Date Collected: 10/04/16 11:35
 Date Received: 10/05/16
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Dissolved Gases by GC - Mansfield Lab							
Methane	12400		ug/l	1.00	--	2	A

Project Name: RAYTHEON-WAYLAND
Project Number: RA-008

Lab Number: L1631730
Report Date: 10/13/16

SAMPLE RESULTS

Lab ID: L1631730-05
 Client ID: MW-268M-20161004
 Sample Location: WAYLAND, MA
 Matrix: Water
 Analytical Method: 117,-
 Analytical Date: 10/10/16 13:46
 Analyst: LB

Date Collected: 10/04/16 12:20
 Date Received: 10/05/16
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Dissolved Gases by GC - Mansfield Lab							
Methane	24500	E	ug/l	0.500	--	1	A
Ethene	6.71		ug/l	0.500	--	1	A
Ethane	8.54		ug/l	0.500	--	1	A

Project Name: RAYTHEON-WAYLAND
Project Number: RA-008

Lab Number: L1631730
Report Date: 10/13/16

SAMPLE RESULTS

Lab ID: L1631730-05 D
 Client ID: MW-268M-20161004
 Sample Location: WAYLAND, MA
 Matrix: Water
 Analytical Method: 117,-
 Analytical Date: 10/10/16 19:11
 Analyst: LB

Date Collected: 10/04/16 12:20
 Date Received: 10/05/16
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Dissolved Gases by GC - Mansfield Lab							
Methane	19100		ug/l	2.50	--	5	A

Project Name: RAYTHEON-WAYLAND
Project Number: RA-008

Lab Number: L1631730
Report Date: 10/13/16

SAMPLE RESULTS

Lab ID: L1631730-06
 Client ID: MW-552-20161003
 Sample Location: WAYLAND, MA
 Matrix: Water
 Analytical Method: 117,-
 Analytical Date: 10/10/16 14:01
 Analyst: LB

Date Collected: 10/03/16 08:55
 Date Received: 10/05/16
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Dissolved Gases by GC - Mansfield Lab							
Methane	20300	E	ug/l	0.500	--	1	A
Ethene	5.71		ug/l	0.500	--	1	A
Ethane	34.6		ug/l	0.500	--	1	A

Project Name: RAYTHEON-WAYLAND
Project Number: RA-008

Lab Number: L1631730
Report Date: 10/13/16

SAMPLE RESULTS

Lab ID: L1631730-06 D
 Client ID: MW-552-20161003
 Sample Location: WAYLAND, MA
 Matrix: Water
 Analytical Method: 117,-
 Analytical Date: 10/10/16 19:25
 Analyst: LB

Date Collected: 10/03/16 08:55
 Date Received: 10/05/16
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Dissolved Gases by GC - Mansfield Lab							
Methane	17400		ug/l	2.50	--	5	A

Project Name: RAYTHEON-WAYLAND
Project Number: RA-008

Lab Number: L1631730
Report Date: 10/13/16

SAMPLE RESULTS

Lab ID: L1631730-07
 Client ID: MW-553-20161003
 Sample Location: WAYLAND, MA
 Matrix: Water
 Analytical Method: 117,-
 Analytical Date: 10/10/16 14:16
 Analyst: LB

Date Collected: 10/03/16 09:50
 Date Received: 10/05/16
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Dissolved Gases by GC - Mansfield Lab							
Methane	15700	E	ug/l	0.500	--	1	A
Ethene	6.04		ug/l	0.500	--	1	A
Ethane	2.82		ug/l	0.500	--	1	A

Project Name: RAYTHEON-WAYLAND
Project Number: RA-008

Lab Number: L1631730
Report Date: 10/13/16

SAMPLE RESULTS

Lab ID: L1631730-07 D
 Client ID: MW-553-20161003
 Sample Location: WAYLAND, MA
 Matrix: Water
 Analytical Method: 117,-
 Analytical Date: 10/10/16 18:10
 Analyst: LB

Date Collected: 10/03/16 09:50
 Date Received: 10/05/16
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Dissolved Gases by GC - Mansfield Lab							
Methane	13800		ug/l	1.00	--	2	A

Project Name: RAYTHEON-WAYLAND
Project Number: RA-008

Lab Number: L1631730
Report Date: 10/13/16

SAMPLE RESULTS

Lab ID: L1631730-08
 Client ID: MW-560-20161005
 Sample Location: WAYLAND, MA
 Matrix: Water
 Analytical Method: 117,-
 Analytical Date: 10/10/16 14:30
 Analyst: LB

Date Collected: 10/05/16 13:00
 Date Received: 10/05/16
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Dissolved Gases by GC - Mansfield Lab							
Methane	13300	E	ug/l	0.500	--	1	A
Ethene	ND		ug/l	0.500	--	1	A
Ethane	1.24		ug/l	0.500	--	1	A

Project Name: RAYTHEON-WAYLAND
Project Number: RA-008

Lab Number: L1631730
Report Date: 10/13/16

SAMPLE RESULTS

Lab ID: L1631730-08 D
 Client ID: MW-560-20161005
 Sample Location: WAYLAND, MA
 Matrix: Water
 Analytical Method: 117,-
 Analytical Date: 10/10/16 18:25
 Analyst: LB

Date Collected: 10/05/16 13:00
 Date Received: 10/05/16
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Dissolved Gases by GC - Mansfield Lab							
Methane	11800		ug/l	1.00	--	2	A

Project Name: RAYTHEON-WAYLAND
Project Number: RA-008

Lab Number: L1631730
Report Date: 10/13/16

SAMPLE RESULTS

Lab ID: L1631730-09
 Client ID: MW-561-20161005
 Sample Location: WAYLAND, MA
 Matrix: Water
 Analytical Method: 117,-
 Analytical Date: 10/10/16 14:45
 Analyst: LB

Date Collected: 10/05/16 12:00
 Date Received: 10/05/16
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Dissolved Gases by GC - Mansfield Lab							
Methane	29600	E	ug/l	0.500	--	1	A
Ethene	ND		ug/l	0.500	--	1	A
Ethane	27.8		ug/l	0.500	--	1	A

Project Name: RAYTHEON-WAYLAND
Project Number: RA-008

Lab Number: L1631730
Report Date: 10/13/16

SAMPLE RESULTS

Lab ID: L1631730-09 D
 Client ID: MW-561-20161005
 Sample Location: WAYLAND, MA
 Matrix: Water
 Analytical Method: 117,-
 Analytical Date: 10/10/16 19:40
 Analyst: LB

Date Collected: 10/05/16 12:00
 Date Received: 10/05/16
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Dissolved Gases by GC - Mansfield Lab							
Methane	24400		ug/l	2.50	--	5	A

Project Name: RAYTHEON-WAYLAND
Project Number: RA-008

Lab Number: L1631730
Report Date: 10/13/16

SAMPLE RESULTS

Lab ID: L1631730-10
 Client ID: MW-562-20161003
 Sample Location: WAYLAND, MA
 Matrix: Water
 Analytical Method: 117,-
 Analytical Date: 10/10/16 14:59
 Analyst: LB

Date Collected: 10/03/16 10:45
 Date Received: 10/05/16
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Dissolved Gases by GC - Mansfield Lab							
Methane	19100	E	ug/l	0.500	--	1	A
Ethene	ND		ug/l	0.500	--	1	A
Ethane	2.37		ug/l	0.500	--	1	A

Project Name: RAYTHEON-WAYLAND
Project Number: RA-008

Lab Number: L1631730
Report Date: 10/13/16

SAMPLE RESULTS

Lab ID: L1631730-10 D
 Client ID: MW-562-20161003
 Sample Location: WAYLAND, MA
 Matrix: Water
 Analytical Method: 117,-
 Analytical Date: 10/10/16 19:54
 Analyst: LB

Date Collected: 10/03/16 10:45
 Date Received: 10/05/16
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Dissolved Gases by GC - Mansfield Lab							
Methane	15900		ug/l	2.50	--	5	A

Project Name: RAYTHEON-WAYLAND
Project Number: RA-008

Lab Number: L1631730
Report Date: 10/13/16

SAMPLE RESULTS

Lab ID: L1631730-11
 Client ID: MW-563-20161005
 Sample Location: WAYLAND, MA
 Matrix: Water
 Analytical Method: 117,-
 Analytical Date: 10/11/16 14:06
 Analyst: MR

Date Collected: 10/05/16 08:35
 Date Received: 10/05/16
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Dissolved Gases by GC - Mansfield Lab							
Methane	28500	E	ug/l	0.500	--	1	A
Ethene	ND		ug/l	0.500	--	1	A
Ethane	7.64		ug/l	0.500	--	1	A

Project Name: RAYTHEON-WAYLAND
Project Number: RA-008

Lab Number: L1631730
Report Date: 10/13/16

SAMPLE RESULTS

Lab ID: L1631730-11 D
 Client ID: MW-563-20161005
 Sample Location: WAYLAND, MA
 Matrix: Water
 Analytical Method: 117,-
 Analytical Date: 10/11/16 18:14
 Analyst: MR

Date Collected: 10/05/16 08:35
 Date Received: 10/05/16
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Dissolved Gases by GC - Mansfield Lab							
Methane	24900		ug/l	2.50	--	5	A

Project Name: RAYTHEON-WAYLAND
Project Number: RA-008

Lab Number: L1631730
Report Date: 10/13/16

SAMPLE RESULTS

Lab ID: L1631730-12
 Client ID: REW-1-20161004
 Sample Location: WAYLAND, MA
 Matrix: Water
 Analytical Method: 117,-
 Analytical Date: 10/11/16 14:20
 Analyst: MR

Date Collected: 10/04/16 08:35
 Date Received: 10/05/16
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Dissolved Gases by GC - Mansfield Lab							
Methane	23400	E	ug/l	0.500	--	1	A
Ethene	ND		ug/l	0.500	--	1	A
Ethane	3.37		ug/l	0.500	--	1	A

Project Name: RAYTHEON-WAYLAND**Lab Number:** L1631730**Project Number:** RA-008**Report Date:** 10/13/16**SAMPLE RESULTS**

Lab ID: L1631730-12 D

Date Collected: 10/04/16 08:35

Client ID: REW-1-20161004

Date Received: 10/05/16

Sample Location: WAYLAND, MA

Field Prep: Not Specified

Matrix: Water

Analytical Method: 117,-

Analytical Date: 10/11/16 18:28

Analyst: MR

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Dissolved Gases by GC - Mansfield Lab							
Methane	18100		ug/l	2.50	--	5	A

Project Name: RAYTHEON-WAYLAND
Project Number: RA-008

Lab Number: L1631730
Report Date: 10/13/16

SAMPLE RESULTS

Lab ID: L1631730-13
 Client ID: REW-4-20161004
 Sample Location: WAYLAND, MA
 Matrix: Water
 Analytical Method: 117,-
 Analytical Date: 10/11/16 14:35
 Analyst: MR

Date Collected: 10/04/16 09:20
 Date Received: 10/05/16
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Dissolved Gases by GC - Mansfield Lab							
Methane	19500	E	ug/l	0.500	--	1	A
Ethene	ND		ug/l	0.500	--	1	A
Ethane	9.00		ug/l	0.500	--	1	A

Project Name: RAYTHEON-WAYLAND**Lab Number:** L1631730**Project Number:** RA-008**Report Date:** 10/13/16**SAMPLE RESULTS**

Lab ID: L1631730-13 D

Date Collected: 10/04/16 09:20

Client ID: REW-4-20161004

Date Received: 10/05/16

Sample Location: WAYLAND, MA

Field Prep: Not Specified

Matrix: Water

Analytical Method: 117,-

Analytical Date: 10/11/16 18:43

Analyst: MR

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Dissolved Gases by GC - Mansfield Lab							
Methane	19400		ug/l	2.50	--	5	A

Project Name: RAYTHEON-WAYLAND
Project Number: RA-008

Lab Number: L1631730
Report Date: 10/13/16

SAMPLE RESULTS

Lab ID: L1631730-14
 Client ID: REW-5-20161004
 Sample Location: WAYLAND, MA
 Matrix: Water
 Analytical Method: 117,-
 Analytical Date: 10/11/16 14:52
 Analyst: MR

Date Collected: 10/04/16 10:05
 Date Received: 10/05/16
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Dissolved Gases by GC - Mansfield Lab							
Methane	19100	E	ug/l	0.500	--	1	A
Ethene	ND		ug/l	0.500	--	1	A
Ethane	2.25		ug/l	0.500	--	1	A

Project Name: RAYTHEON-WAYLAND
Project Number: RA-008

Lab Number: L1631730
Report Date: 10/13/16

SAMPLE RESULTS

Lab ID: L1631730-14 D
 Client ID: REW-5-20161004
 Sample Location: WAYLAND, MA
 Matrix: Water
 Analytical Method: 117,-
 Analytical Date: 10/11/16 18:57
 Analyst: MR

Date Collected: 10/04/16 10:05
 Date Received: 10/05/16
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Dissolved Gases by GC - Mansfield Lab							
Methane	18100		ug/l	2.50	--	5	A

Project Name: RAYTHEON-WAYLAND
Project Number: RA-008

Lab Number: L1631730
Report Date: 10/13/16

SAMPLE RESULTS

Lab ID: L1631730-15
 Client ID: REW-7-20161005
 Sample Location: WAYLAND, MA
 Matrix: Water
 Analytical Method: 117,-
 Analytical Date: 10/11/16 15:10
 Analyst: MR

Date Collected: 10/05/16 11:20
 Date Received: 10/05/16
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Dissolved Gases by GC - Mansfield Lab							
Methane	18500	E	ug/l	0.500	--	1	A
Ethene	5.39		ug/l	0.500	--	1	A
Ethane	9.98		ug/l	0.500	--	1	A

Project Name: RAYTHEON-WAYLAND
Project Number: RA-008

Lab Number: L1631730
Report Date: 10/13/16

SAMPLE RESULTS

Lab ID: L1631730-15 D
 Client ID: REW-7-20161005
 Sample Location: WAYLAND, MA
 Matrix: Water
 Analytical Method: 117,-
 Analytical Date: 10/11/16 19:11
 Analyst: MR

Date Collected: 10/05/16 11:20
 Date Received: 10/05/16
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Dissolved Gases by GC - Mansfield Lab							
Methane	18300		ug/l	2.50	--	5	A

Project Name: RAYTHEON-WAYLAND
Project Number: RA-008

Lab Number: L1631730
Report Date: 10/13/16

SAMPLE RESULTS

Lab ID: L1631730-16
 Client ID: REW-8-20161005
 Sample Location: WAYLAND, MA
 Matrix: Water
 Analytical Method: 117,-
 Analytical Date: 10/11/16 15:24
 Analyst: MR

Date Collected: 10/05/16 10:25
 Date Received: 10/05/16
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Dissolved Gases by GC - Mansfield Lab							
Methane	21200	E	ug/l	0.500	--	1	A
Ethene	ND		ug/l	0.500	--	1	A
Ethane	2.21		ug/l	0.500	--	1	A

Project Name: RAYTHEON-WAYLAND**Lab Number:** L1631730**Project Number:** RA-008**Report Date:** 10/13/16**SAMPLE RESULTS**

Lab ID: L1631730-16 D
Client ID: REW-8-20161005
Sample Location: WAYLAND, MA
Matrix: Water
Analytical Method: 117,-
Analytical Date: 10/11/16 19:26
Analyst: MR

Date Collected: 10/05/16 10:25
Date Received: 10/05/16
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Dissolved Gases by GC - Mansfield Lab							
Methane	16900		ug/l	2.50	--	5	A

Project Name: RAYTHEON-WAYLAND
Project Number: RA-008

Lab Number: L1631730
Report Date: 10/13/16

SAMPLE RESULTS

Lab ID: L1631730-17
 Client ID: REW-9-20161005
 Sample Location: WAYLAND, MA
 Matrix: Water
 Analytical Method: 117,-
 Analytical Date: 10/11/16 15:39
 Analyst: MR

Date Collected: 10/05/16 09:30
 Date Received: 10/05/16
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Dissolved Gases by GC - Mansfield Lab							
Methane	33000	E	ug/l	0.500	--	1	A
Ethene	2.34		ug/l	0.500	--	1	A
Ethane	2.63		ug/l	0.500	--	1	A

Project Name: RAYTHEON-WAYLAND
Project Number: RA-008

Lab Number: L1631730
Report Date: 10/13/16

SAMPLE RESULTS

Lab ID: L1631730-17 D
 Client ID: REW-9-20161005
 Sample Location: WAYLAND, MA
 Matrix: Water
 Analytical Method: 117,-
 Analytical Date: 10/11/16 20:12
 Analyst: MR

Date Collected: 10/05/16 09:30
 Date Received: 10/05/16
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Dissolved Gases by GC - Mansfield Lab							
Methane	29600		ug/l	5.00	--	10	A

Project Name: RAYTHEON-WAYLAND
Project Number: RA-008

Lab Number: L1631730
Report Date: 10/13/16

SAMPLE RESULTS

Lab ID: L1631730-18
 Client ID: REW-10-20161005
 Sample Location: WAYLAND, MA
 Matrix: Water
 Analytical Method: 117,-
 Analytical Date: 10/11/16 15:53
 Analyst: MR

Date Collected: 10/05/16 08:55
 Date Received: 10/05/16
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Dissolved Gases by GC - Mansfield Lab							
Methane	15500	E	ug/l	0.500	--	1	A
Ethene	ND		ug/l	0.500	--	1	A
Ethane	1.74		ug/l	0.500	--	1	A

Project Name: RAYTHEON-WAYLAND
Project Number: RA-008

Lab Number: L1631730
Report Date: 10/13/16

SAMPLE RESULTS

Lab ID: L1631730-18 D
 Client ID: REW-10-20161005
 Sample Location: WAYLAND, MA
 Matrix: Water
 Analytical Method: 117,-
 Analytical Date: 10/11/16 19:40
 Analyst: MR

Date Collected: 10/05/16 08:55
 Date Received: 10/05/16
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Dissolved Gases by GC - Mansfield Lab							
Methane	13100		ug/l	2.50	--	5	A

Project Name: RAYTHEON-WAYLAND
Project Number: RA-008

Lab Number: L1631730
Report Date: 10/13/16

SAMPLE RESULTS

Lab ID: L1631730-19
 Client ID: REW-11-20161005
 Sample Location: WAYLAND, MA
 Matrix: Water
 Analytical Method: 117,-
 Analytical Date: 10/11/16 16:08
 Analyst: MR

Date Collected: 10/05/16 12:20
 Date Received: 10/05/16
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Dissolved Gases by GC - Mansfield Lab							
Methane	22800	E	ug/l	0.500	--	1	A
Ethene	6.68		ug/l	0.500	--	1	A
Ethane	10.1		ug/l	0.500	--	1	A

Project Name: RAYTHEON-WAYLAND
Project Number: RA-008

Lab Number: L1631730
Report Date: 10/13/16

SAMPLE RESULTS

Lab ID: L1631730-19 D
 Client ID: REW-11-20161005
 Sample Location: WAYLAND, MA
 Matrix: Water
 Analytical Method: 117,-
 Analytical Date: 10/11/16 19:55
 Analyst: MR

Date Collected: 10/05/16 12:20
 Date Received: 10/05/16
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Dissolved Gases by GC - Mansfield Lab							
Methane	19900		ug/l	2.50	--	5	A

Project Name: RAYTHEON-WAYLAND
Project Number: RA-008

Lab Number: L1631730
Report Date: 10/13/16

SAMPLE RESULTS

Lab ID: L1631730-20
 Client ID: REW-12-20161005
 Sample Location: WAYLAND, MA
 Matrix: Water
 Analytical Method: 117,-
 Analytical Date: 10/11/16 16:22
 Analyst: MR

Date Collected: 10/05/16 13:10
 Date Received: 10/05/16
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Dissolved Gases by GC - Mansfield Lab							
Methane	33000	E	ug/l	0.500	--	1	A
Ethene	16.8		ug/l	0.500	--	1	A
Ethane	17.4		ug/l	0.500	--	1	A

Project Name: RAYTHEON-WAYLAND
Project Number: RA-008

Lab Number: L1631730
Report Date: 10/13/16

SAMPLE RESULTS

Lab ID: L1631730-20 D
 Client ID: REW-12-20161005
 Sample Location: WAYLAND, MA
 Matrix: Water
 Analytical Method: 117,-
 Analytical Date: 10/11/16 20:26
 Analyst: MR

Date Collected: 10/05/16 13:10
 Date Received: 10/05/16
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Dissolved Gases by GC - Mansfield Lab							
Methane	26200		ug/l	5.00	--	10	A

Project Name: RAYTHEON-WAYLAND

Lab Number: L1631730

Project Number: RA-008

Report Date: 10/13/16

Method Blank Analysis
Batch Quality Control

Analytical Method: 117,-
 Analytical Date: 10/10/16 11:50
 Analyst: LB

Parameter	Result	Qualifier	Units	RL	MDL
Dissolved Gases by GC - Mansfield Lab for sample(s): 01-10 Batch: WG940544-3					
Methane	ND		ug/l	0.500	-- A
Ethene	ND		ug/l	0.500	-- A
Ethane	ND		ug/l	0.500	-- A

Project Name: RAYTHEON-WAYLAND

Lab Number: L1631730

Project Number: RA-008

Report Date: 10/13/16

Method Blank Analysis
Batch Quality Control

Analytical Method: 117,-

Analytical Date: 10/11/16 12:50

Analyst: MR

Parameter	Result	Qualifier	Units	RL	MDL
Dissolved Gases by GC - Mansfield Lab for sample(s): 11-20 Batch: WG941006-3					
Methane	ND		ug/l	0.500	-- A
Ethene	ND		ug/l	0.500	-- A
Ethane	ND		ug/l	0.500	-- A

Lab Control Sample Analysis

Batch Quality Control

Project Name: RAYTHEON-WAYLAND

Project Number: RA-008

Lab Number: L1631730

Report Date: 10/13/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Dissolved Gases by GC - Mansfield Lab Associated sample(s): 01-10 Batch: WG940544-2									
Methane	111		-		80-120	-		25	A
Ethene	111		-		80-120	-		25	A
Ethane	113		-		80-120	-		25	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: RAYTHEON-WAYLAND

Lab Number: L1631730

Project Number: RA-008

Report Date: 10/13/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Dissolved Gases by GC - Mansfield Lab Associated sample(s): 11-20 Batch: WG941006-2									
Methane	109		-		80-120	-		25	A
Ethene	106		-		80-120	-		25	A
Ethane	107		-		80-120	-		25	A

Project Name: RAYTHEON-WAYLAND

Lab Number: L1631730

Project Number: RA-008

Report Date: 10/13/16

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(*)
L1631730-01A	20ml Vial HCl preserved	A	N/A	3.2	Y	Absent	DISSGAS(14)
L1631730-01B	20ml Vial HCl preserved	A	N/A	3.2	Y	Absent	DISSGAS(14)
L1631730-02A	20ml Vial HCl preserved	A	N/A	3.2	Y	Absent	DISSGAS(14)
L1631730-02B	20ml Vial HCl preserved	A	N/A	3.2	Y	Absent	DISSGAS(14)
L1631730-03A	20ml Vial HCl preserved	A	N/A	3.2	Y	Absent	DISSGAS(14)
L1631730-03B	20ml Vial HCl preserved	A	N/A	3.2	Y	Absent	DISSGAS(14)
L1631730-04A	20ml Vial HCl preserved	A	N/A	3.2	Y	Absent	DISSGAS(14)
L1631730-04B	20ml Vial HCl preserved	A	N/A	3.2	Y	Absent	DISSGAS(14)
L1631730-05A	20ml Vial HCl preserved	A	N/A	3.2	Y	Absent	DISSGAS(14)
L1631730-05B	20ml Vial HCl preserved	A	N/A	3.2	Y	Absent	DISSGAS(14)
L1631730-06A	20ml Vial HCl preserved	A	N/A	3.2	Y	Absent	DISSGAS(14)
L1631730-06B	20ml Vial HCl preserved	A	N/A	3.2	Y	Absent	DISSGAS(14)
L1631730-07A	20ml Vial HCl preserved	A	N/A	3.2	Y	Absent	DISSGAS(14)
L1631730-07B	20ml Vial HCl preserved	A	N/A	3.2	Y	Absent	DISSGAS(14)
L1631730-08A	20ml Vial HCl preserved	A	N/A	3.2	Y	Absent	DISSGAS(14)
L1631730-08B	20ml Vial HCl preserved	A	N/A	3.2	Y	Absent	DISSGAS(14)
L1631730-09A	20ml Vial HCl preserved	A	N/A	3.2	Y	Absent	DISSGAS(14)
L1631730-09B	20ml Vial HCl preserved	A	N/A	3.2	Y	Absent	DISSGAS(14)
L1631730-10A	20ml Vial HCl preserved	A	N/A	3.2	Y	Absent	DISSGAS(14)
L1631730-10B	20ml Vial HCl preserved	A	N/A	3.2	Y	Absent	DISSGAS(14)
L1631730-11A	20ml Vial HCl preserved	A	N/A	3.2	Y	Absent	DISSGAS(14)
L1631730-11B	20ml Vial HCl preserved	A	N/A	3.2	Y	Absent	DISSGAS(14)
L1631730-12A	20ml Vial HCl preserved	A	N/A	3.2	Y	Absent	DISSGAS(14)
L1631730-12B	20ml Vial HCl preserved	A	N/A	3.2	Y	Absent	DISSGAS(14)
L1631730-13A	20ml Vial HCl preserved	A	N/A	3.2	Y	Absent	DISSGAS(14)
L1631730-13B	20ml Vial HCl preserved	A	N/A	3.2	Y	Absent	DISSGAS(14)
L1631730-14A	20ml Vial HCl preserved	A	N/A	3.2	Y	Absent	DISSGAS(14)
L1631730-14B	20ml Vial HCl preserved	A	N/A	3.2	Y	Absent	DISSGAS(14)
L1631730-15A	20ml Vial HCl preserved	A	N/A	3.2	Y	Absent	DISSGAS(14)

*Values in parentheses indicate holding time in days



Project Name: RAYTHEON-WAYLAND**Project Number:** RA-008**Lab Number:** L1631730**Report Date:** 10/13/16**Container Information**

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1631730-15B	20ml Vial HCl preserved	A	N/A	3.2	Y	Absent	DISSGAS(14)
L1631730-16A	20ml Vial HCl preserved	A	N/A	3.2	Y	Absent	DISSGAS(14)
L1631730-16B	20ml Vial HCl preserved	A	N/A	3.2	Y	Absent	DISSGAS(14)
L1631730-17A	20ml Vial HCl preserved	A	N/A	3.2	Y	Absent	DISSGAS(14)
L1631730-17B	20ml Vial HCl preserved	A	N/A	3.2	Y	Absent	DISSGAS(14)
L1631730-18A	20ml Vial HCl preserved	A	N/A	3.2	Y	Absent	DISSGAS(14)
L1631730-18B	20ml Vial HCl preserved	A	N/A	3.2	Y	Absent	DISSGAS(14)
L1631730-19A	20ml Vial HCl preserved	A	N/A	3.2	Y	Absent	DISSGAS(14)
L1631730-19B	20ml Vial HCl preserved	A	N/A	3.2	Y	Absent	DISSGAS(14)
L1631730-20A	20ml Vial HCl preserved	A	N/A	3.2	Y	Absent	DISSGAS(14)
L1631730-20B	20ml Vial HCl preserved	A	N/A	3.2	Y	Absent	DISSGAS(14)

*Values in parentheses indicate holding time in days

Project Name: RAYTHEON-WAYLAND
Project Number: RA-008

Lab Number: L1631730
Report Date: 10/13/16

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.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
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

Report Format: Data Usability Report



Project Name: RAYTHEON-WAYLAND
Project Number: RA-008

Lab Number: L1631730
Report Date: 10/13/16

Data Qualifiers

- reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- 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: RAYTHEON-WAYLAND
Project Number: RA-008

Lab Number: L1631730
Report Date: 10/13/16

REFERENCES

- 117 Technical Guidance for the Natural Attenuation Indicators: Methane, Ethane, and Ethene, EPA-NE, Revision 1, February 21, 2002 and Sample Preparation & Calculations for Dissolved Gas Analysis in Water Samples using a GC Headspace Equilibration Technique, EPA RSKSOP-175, Revision 2, May 2004.

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 624: m/p-xylene, o-xylene

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

EPA 8270D: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.

EPA 300: DW: Bromide

EPA 6860: NPW and SCM: Perchlorate

EPA 9010: NPW and SCM: Amenable Cyanide Distillation

EPA 9012B: NPW: Total Cyanide

EPA 9050A: NPW: Specific Conductance

SM3500: NPW: Ferrous Iron

SM4500: NPW: Amenable Cyanide, Dissolved Oxygen; SCM: Total Phosphorus, TKN, NO₂, NO₃.

SM5310C: DW: Dissolved Organic Carbon

Mansfield Facility

SM 2540D: TSS

EPA 3005A NPW

EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.

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.

Biological Tissue Matrix: **EPA 3050B**

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water

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; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.

Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D.**

Non-Potable Water

SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH, EPA 350.1: Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **SM4500NO3-F, EPA 353.2:** Nitrate-N, **EPA 351.1, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, 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.**

Mansfield Facility:

Drinking Water

EPA 200.7: Ba, Be, Cd, Cr, Cu, Ni, Na, Ca. **EPA 200.8:** Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Ni, Se, TL. **EPA 245.1 Hg.**

Non-Potable Water

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

EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn.

EPA 245.1 Hg.

SM2340B

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



CHAIN OF CUSTODY

PAGE 2 OF 2

8 Walkup Drive
Westboro, MA 01581
Tel: 508-898-9220

320 Forbes Blvd
Mansfield, MA 02048
Tel: 508-822-9300

Date Rec'd in Lab: 10/5/10

ALPHA Job #: L1631730

Project Information

Project Name: *Roylton - Wayland*

Project Location: *Wayland MA*

Project #: *RA-008*

Project Manager: *Vicki Parinen*

ALPHA Quote #:

Report Information - Data Deliverables

ADEX EMAIL

Billing Information

Same as Client info PO #: *RA-008*

Client Information

Client: *Innovative Engineering Solutions Inc.*

Address: *25 Spring St
Walpole MA 02081*

Phone: *508-668-0033*

Email: *v.parinen@IESIonline.com*

Additional Project Information:

Turn-Around Time

Standard RUSH (only confirmed if pre-approved)

Date Due:

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		SAMPLE INFO	
VOC: <input type="checkbox"/> 8260 <input type="checkbox"/> 624 <input type="checkbox"/> 5242	SVOC: <input type="checkbox"/> ABN <input type="checkbox"/> PAH	Filtration	<input type="checkbox"/> Field <input type="checkbox"/> Lab to do
METALS: <input type="checkbox"/> MCP 13 <input type="checkbox"/> MCP 14 <input type="checkbox"/> RCP 15	METALS: <input type="checkbox"/> RCRA5 <input type="checkbox"/> RCRA8 <input type="checkbox"/> PPT3	Preservation	<input type="checkbox"/> Lab to do
EPH: <input type="checkbox"/> Ranges & Targets <input type="checkbox"/> Ranges Only	VPH: <input type="checkbox"/> Ranges & Targets <input type="checkbox"/> Ranges Only		
PCB <input type="checkbox"/> PEST	TPH: <input type="checkbox"/> Quant Only <input type="checkbox"/> Fingerprint		

Disputed Cases (methane, ethane, propane)

TOTAL # BOTTLES

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler Initials	ANALYSIS	SVOC	METALS	METALS	EPH	VPH	PCB	TPH	SAMPLE INFO	Sample Comments	TOTAL # BOTTLES
		Date	Time													
31730.11	MW-563-20161005	10/5/10	1355	GW	JH											20
.12	REW-1-20161004	10/4/10	0835	GW	JG											20
.13	REW-4-20161004	10/4/10	0920	GW	JG											20
.14	REW-5-20161004	10/4/10	1005	GW	JG											20
.15	REW-7-20161005	10/5/10	1120	GW	JG											20
.16	REW-8-20161005	10/5/10	1025	GW	JG											20
.17	REW-9-20161005	10/5/10	0930	GW	JG											20
.18	REW-10-20161005	10/5/10	0855	GW	JG											20
.19	REW-11-20161005	10/5/10	1220	GW	JG											20
.20	REW-12-20161005	10/5/10	1310	GW	JG											20

- Container Type**
P= Plastic
A= Amber glass
V= Vial
G= Glass
B= Bacteria cup
C= Cube
O= Other
E= Encore
D= BOD Bottle
- Preservative**
A= None
B= HCl
C= HNO₃
D= H₂SO₄
E= NaOH
F= MeOH
G= NaHSO₄
H= Na₂S₂O₃
I= Ascorbic Acid
J= NH₄Cl
K= Zn Acetate
O= Other

Container Type	V																
Preservative	B																

Relinquished By:	Date/Time	Received By:	Date/Time
<i>[Signature]</i>	10/5/10 1615	<i>[Signature]</i>	10/5/10 1615

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

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Buffalo

10 Hazelwood Drive

Amherst, NY 14228-2298

Tel: (716)691-2600

TestAmerica Job ID: 480-107127-1

Client Project/Site: IDS Wayland

For:

Innovative Engineering Solutions, Inc

25 Spring Street

Walpole, Massachusetts 02081

Attn: Vicki Pariyar



Authorized for release by:

10/14/2016 10:43:27 AM

Denise Giglia, Project Management Assistant II

denise.giglia@testamericainc.com

Designee for

Becky Mason, Project Manager II

(413)572-4000

becky.mason@testamericainc.com

LINKS

Review your project
results through

TotalAccess

Have a Question?



Visit us at:

www.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.

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15



Table of Contents

Cover Page	1
Table of Contents	2
Definitions/Glossary	3
Case Narrative	4
Detection Summary	7
Client Sample Results	11
Surrogate Summary	40
QC Sample Results	41
QC Association Summary	63
Lab Chronicle	68
Certification Summary	73
Method Summary	75
Sample Summary	76
Receipt Checklists	77
Chain of Custody	79

Definitions/Glossary

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-107127-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-107127-1

Job ID: 480-107127-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative 480-107127-1

Receipt

The samples were received on 10/6/2016 1:45 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 1.1° C and 1.6° C.

GC/MS VOA

Method 8260C: With the exception of diluted samples, per question G on the MassDEP Analytical Protocol Certification Form, TestAmerica's routine reporting limits do not achieve the CAM reporting limits specified in this CAM protocol for 1,2-dibromo-3-chloropropane, Carbon Disulfide, Isopropyl Ether, Naphthalene, tert-Amyl Methyl Ether and Tetrahydrofuran.

Method 8260C: The following sample was diluted to bring the concentration of target analytes within the calibration range: REW-12-20161005 (480-107127-7). Elevated reporting limits (RLs) are provided.

Method 8260C: The continuing calibration verification (CCV) associated with batch 480-324456 recovered outside MCP control limits but <40% for Tetrahydrofuran, Naphthalene . MCP protocol allows for 20% of the target compounds to be outside the 20% difference but not over 40% difference. The following samples are impacted: MW-560-20161005 (480-107127-13) and MW-563-20161005 (480-107127-15).

Method 8260C: The laboratory control sample (LCS) for batch 480-324456 recovered outside control limits but were greater than 10% for the following analytes: 1,4-Dioxane . MCP protocol allows for 10% of the target compounds to be outside of the limits provided the recoveries are over 10%. The following samples are impacted: MW-560-20161005 (480-107127-13) and MW-563-20161005 (480-107127-15).

Method 8260C: The laboratory control sample (LCS) for batch 480-324621 recovered outside control limits but were greater than 10% for the following analytes: 1,4-Dioxane . MCP protocol allows for 10% of the target compounds to be outside of the limits provided the recoveries are over 10%. The following sample is impacted: MW-561-20161005 (480-107127-14).

Method 8260C: The continuing calibration verification (CCV) associated with batch 480-324621 recovered outside MCP control limits but <40% for 1,4-Dioxane. MCP protocol allows for 20% of the target compounds to be outside the 20% difference but not over 40% difference. The following sample is impacted: MW-561-20161005 (480-107127-14).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

HPLC/IC

Method 300.0: The following samples were diluted due to the nature of the sample matrix: REW-7-20161005 (480-107127-2), REW-8-20161005 (480-107127-3), REW-9-20161005 (480-107127-4), REW-10-20161005 (480-107127-5), REW-11-20161005 (480-107127-6), REW-12-20161005 (480-107127-7), MW-560-20161005 (480-107127-13), MW-561-20161005 (480-107127-14) and MW-563-20161005 (480-107127-15). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals

Method 6010: At the request of the client, an abbreviated/modified MCP compound list was reported for this job.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry

Method 9040C, SM 4500 H+ B: This analysis is normally performed in the field and has a method-defined holding time of 15 minutes. The following samples has been qualified with the "HF" flag to indicate analysis was performed in the laboratory outside the 15 minute timeframe: REW-7-20161005 (480-107127-2), REW-8-20161005 (480-107127-3), REW-9-20161005 (480-107127-4), REW-10-20161005

Case Narrative

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-107127-1

Job ID: 480-107127-1 (Continued)

Laboratory: TestAmerica Buffalo (Continued)

(480-107127-5), REW-11-20161005 (480-107127-6), REW-12-20161005 (480-107127-7), MW-560-20161005 (480-107127-13), MW-561-20161005 (480-107127-14) and MW-563-20161005 (480-107127-15).

Method Distill/Ammonia: Due to the matrix, the initial volume(s) used for the following samples deviated from the standard procedure: REW-8-20161005 (480-107127-3) and (480-107127-A-3 DU). The reporting limits (RLs) have been adjusted proportionately.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15

MassDEP Analytical Protocol Certification Form

Laboratory Name: **TestAmerica Buffalo** Project #: **480-107127**

Project Location: **IDS Wayland** RTN:

This form provides certifications for the following data set: list Laboratory Sample ID Number(s):
480-107127 [1-15]

Matrices: Groundwater/Surface Water Soil/Sediment Drinking Water Air Other:

CAM Protocols (check all that apply below):

8260 VOC CAM II A <input checked="" type="checkbox"/>	7470/7471 Hg CAM III B <input type="checkbox"/>	Mass DEP VPH CAM IV A <input type="checkbox"/>	8081 Pesticides CAM V B <input type="checkbox"/>	7196 Hex Cr CAM VI B <input type="checkbox"/>	Mass DEP APH CAM IX A <input type="checkbox"/>
8270 SVOC CAM II B <input type="checkbox"/>	7010 Metals CAM III C <input type="checkbox"/>	Mass DEP EPH CAM IV B <input type="checkbox"/>	8151 Herbicides CAM V C <input type="checkbox"/>	8330 Explosives CAM VIII A <input type="checkbox"/>	TO-15 VOC CAM IX B <input type="checkbox"/>
6010 Metals CAM III A <input checked="" type="checkbox"/>	6020 Metals CAM III D <input type="checkbox"/>	8082 PCB CAM V A <input type="checkbox"/>	9014 Total Cyanide/PAC CAM VI A <input type="checkbox"/>	6860 Perchlorate CAM VIII B <input type="checkbox"/>	

Affirmative Responses to Questions A through F are 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 time.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
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?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
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"?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
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). b. APH and TO-15 Methods only: Was the complete analyte list reported for each method?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No
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)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

Responses to Questions G, H and I below are required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No ¹
----------	---	--

Data User Note: 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

H	Were all QC performance standards specified in the CAM protocol(s) achieved?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No ¹
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s) ?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No ¹

¹ All negative responses must be addressed in an attached laboratory narrative.

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, is accurate and complete.

Signature: Denise L. Giglia Position: Project Manager Assistant II
 Printed Name: Denise L. Giglia Date: 10/14/16 10:31

Detection Summary

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-107127-1

Client Sample ID: MW-269Ma-20161005

Lab Sample ID: 480-107127-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	2.5		1.0		ug/L	1		8260C	Total/NA
Trichloroethene	1.3		1.0		ug/L	1		8260C	Total/NA
1,4-Dioxane	1.1		0.20		ug/L	1		522	Total/NA

Client Sample ID: REW-7-20161005

Lab Sample ID: 480-107127-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	38		10		ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	9.7		1.0		ug/L	1		8260C	Total/NA
Toluene	58		1.0		ug/L	1		8260C	Total/NA
Vinyl chloride	8.6		1.0		ug/L	1		8260C	Total/NA
Iron	61		0.050		mg/L	1		6010	Total/NA
Chloride	23		2.5		mg/L	5		300.0	Total/NA
TOC Result 1	26		1.0		mg/L	1		9060A	Total/NA
TOC Result 2	28		1.0		mg/L	1		9060A	Total/NA
Total Organic Carbon - Duplicates	27		1.0		mg/L	1		9060A	Total/NA
Alkalinity, Total	260		5.0		mg/L	1		SM 2320B	Total/NA
Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
pH	6.7	HF	0.1		SU	1		9040C	Total/NA

Client Sample ID: REW-8-20161005

Lab Sample ID: 480-107127-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Toluene	9.4		1.0		ug/L	1		8260C	Total/NA
Iron	49		0.050		mg/L	1		6010	Total/NA
Chloride	35		2.5		mg/L	5		300.0	Total/NA
Ammonia	6.7		1.0		mg/L	1		350.1	Total/NA
TOC Result 1	13		1.0		mg/L	1		9060A	Total/NA
TOC Result 2	14		1.0		mg/L	1		9060A	Total/NA
Total Organic Carbon - Duplicates	13		1.0		mg/L	1		9060A	Total/NA
Alkalinity, Total	260		5.0		mg/L	1		SM 2320B	Total/NA
ortho-Phosphate	0.21		0.020		mg/L	1		SM 4500 P E	Total/NA
Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
pH	6.8	HF	0.1		SU	1		9040C	Total/NA

Client Sample ID: REW-9-20161005

Lab Sample ID: 480-107127-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	140		10		ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	24		1.0		ug/L	1		8260C	Total/NA
Ethylbenzene	1.1		1.0		ug/L	1		8260C	Total/NA
m-Xylene & p-Xylene	3.9		2.0		ug/L	1		8260C	Total/NA
Toluene	48		1.0		ug/L	1		8260C	Total/NA
Vinyl chloride	13		1.0		ug/L	1		8260C	Total/NA
Iron	100		0.050		mg/L	1		6010	Total/NA
Chloride	28		2.5		mg/L	5		300.0	Total/NA
Sulfate	8.6		2.0		mg/L	1		300.0	Total/NA
Ammonia	0.20		0.20		mg/L	1		350.1	Total/NA
TOC Result 1	250		5.0		mg/L	5		9060A	Total/NA
TOC Result 2	250		5.0		mg/L	5		9060A	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

Detection Summary

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-107127-1

Client Sample ID: REW-9-20161005 (Continued)

Lab Sample ID: 480-107127-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Organic Carbon - Duplicates	250		5.0		mg/L	5		9060A	Total/NA
Alkalinity, Total	380		5.0		mg/L	1		SM 2320B	Total/NA
ortho-Phosphate	0.077		0.020		mg/L	1		SM 4500 P E	Total/NA
Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
pH	6.4	HF	0.1		SU	1		9040C	Total/NA

Client Sample ID: REW-10-20161005

Lab Sample ID: 480-107127-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	2.3		0.050		mg/L	1		6010	Total/NA
Chloride	68		1.0		mg/L	2		300.0	Total/NA
Sulfate	26		4.0		mg/L	2		300.0	Total/NA
Ammonia	0.22		0.20		mg/L	1		350.1	Total/NA
TOC Result 2	1.1		1.0		mg/L	1		9060A	Total/NA
Alkalinity, Total	81		5.0		mg/L	1		SM 2320B	Total/NA
ortho-Phosphate	0.029		0.020		mg/L	1		SM 4500 P E	Total/NA
Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
pH	7.1	HF	0.1		SU	1		9040C	Total/NA

Client Sample ID: REW-11-20161005

Lab Sample ID: 480-107127-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	30		10		ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	20		1.0		ug/L	1		8260C	Total/NA
Toluene	34		1.0		ug/L	1		8260C	Total/NA
Trichloroethene	3.4		1.0		ug/L	1		8260C	Total/NA
Vinyl chloride	9.7		1.0		ug/L	1		8260C	Total/NA
Iron	43		0.050		mg/L	1		6010	Total/NA
Chloride	50		2.5		mg/L	5		300.0	Total/NA
Sulfate	19		10		mg/L	5		300.0	Total/NA
Ammonia	0.79		0.20		mg/L	1		350.1	Total/NA
TOC Result 1	78		1.0		mg/L	1		9060A	Total/NA
TOC Result 2	83		1.0		mg/L	1		9060A	Total/NA
Total Organic Carbon - Duplicates	80		1.0		mg/L	1		9060A	Total/NA
Alkalinity, Total	160		5.0		mg/L	1		SM 2320B	Total/NA
ortho-Phosphate	0.027		0.020		mg/L	1		SM 4500 P E	Total/NA
Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
pH	6.6	HF	0.1		SU	1		9040C	Total/NA

Client Sample ID: REW-12-20161005

Lab Sample ID: 480-107127-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	2.2		2.0		ug/L	2		8260C	Total/NA
2-Butanone (MEK)	66		20		ug/L	2		8260C	Total/NA
cis-1,2-Dichloroethene	130		2.0		ug/L	2		8260C	Total/NA
Toluene	72		2.0		ug/L	2		8260C	Total/NA
Trichloroethene	29		2.0		ug/L	2		8260C	Total/NA
Vinyl chloride	53		2.0		ug/L	2		8260C	Total/NA
Iron	81		0.050		mg/L	1		6010	Total/NA
Chloride	36		2.5		mg/L	5		300.0	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

Detection Summary

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-107127-1

Client Sample ID: REW-12-20161005 (Continued)

Lab Sample ID: 480-107127-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate	21		10		mg/L	5		300.0	Total/NA
Ammonia	0.27		0.20		mg/L	1		350.1	Total/NA
TOC Result 1	94		1.0		mg/L	1		9060A	Total/NA
TOC Result 2	99		1.0		mg/L	1		9060A	Total/NA
Total Organic Carbon - Duplicates	97		1.0		mg/L	1		9060A	Total/NA
Alkalinity, Total	200		5.0		mg/L	1		SM 2320B	Total/NA
ortho-Phosphate	0.026		0.020		mg/L	1		SM 4500 P E	Total/NA
Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
pH	6.5	HF	0.1		SU	1		9040C	Total/NA

Client Sample ID: DUP3-20161005

Lab Sample ID: 480-107127-8

No Detections.

Client Sample ID: TRIP BLANKS

Lab Sample ID: 480-107127-9

No Detections.

Client Sample ID: MW-266Ma-20161005

Lab Sample ID: 480-107127-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	4.1		1.0		ug/L	1		8260C	Total/NA
m-Xylene & p-Xylene	2.1		2.0		ug/L	1		8260C	Total/NA
Toluene	55		1.0		ug/L	1		8260C	Total/NA
Vinyl chloride	4.5		1.0		ug/L	1		8260C	Total/NA
1,4-Dioxane	1.5		0.20		ug/L	1		522	Total/NA

Client Sample ID: MW-266Mb-20161005

Lab Sample ID: 480-107127-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dichlorobenzene	1.0		1.0		ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	5.3		1.0		ug/L	1		8260C	Total/NA
Toluene	3.9		1.0		ug/L	1		8260C	Total/NA
trans-1,2-Dichloroethene	1.6		1.0		ug/L	1		8260C	Total/NA
Trichloroethene	2.9		1.0		ug/L	1		8260C	Total/NA
Vinyl chloride	23		1.0		ug/L	1		8260C	Total/NA

Client Sample ID: MW-560-20161005

Lab Sample ID: 480-107127-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	22		10		ug/L	1		8260C	Total/NA
m-Xylene & p-Xylene	2.7		2.0		ug/L	1		8260C	Total/NA
Toluene	11		1.0		ug/L	1		8260C	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

Detection Summary

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-107127-1

Client Sample ID: MW-560-20161005 (Continued)

Lab Sample ID: 480-107127-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vinyl chloride	1.2		1.0		ug/L	1		8260C	Total/NA
Iron	110		0.050		mg/L	1		6010	Total/NA
Chloride	34		2.5		mg/L	5		300.0	Total/NA
TOC Result 1	5.3		1.0		mg/L	1		9060A	Total/NA
TOC Result 2	6.3		1.0		mg/L	1		9060A	Total/NA
Total Organic Carbon - Duplicates	5.8		1.0		mg/L	1		9060A	Total/NA
Alkalinity, Total	520		5.0		mg/L	1		SM 2320B	Total/NA
Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
pH	6.9	HF	0.1		SU	1		9040C	Total/NA

Client Sample ID: MW-561-20161005

Lab Sample ID: 480-107127-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
m-Xylene & p-Xylene	2.5		2.0		ug/L	1		8260C	Total/NA
Iron	110		0.050		mg/L	1		6010	Total/NA
Chloride	43		2.5		mg/L	5		300.0	Total/NA
Ammonia	3.9		1.0		mg/L	5		350.1	Total/NA
TOC Result 1	8.1		1.0		mg/L	1		9060A	Total/NA
TOC Result 2	9.1		1.0		mg/L	1		9060A	Total/NA
Total Organic Carbon - Duplicates	8.6		1.0		mg/L	1		9060A	Total/NA
Alkalinity, Total	370		5.0		mg/L	1		SM 2320B	Total/NA
Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
pH	6.7	HF	0.1		SU	1		9040C	Total/NA

Client Sample ID: MW-563-20161005

Lab Sample ID: 480-107127-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	58		0.050		mg/L	1		6010	Total/NA
Chloride	42		2.5		mg/L	5		300.0	Total/NA
Ammonia	1.3		0.20		mg/L	1		350.1	Total/NA
TOC Result 1	1.6		1.0		mg/L	1		9060A	Total/NA
TOC Result 2	1.7		1.0		mg/L	1		9060A	Total/NA
Total Organic Carbon - Duplicates	1.6		1.0		mg/L	1		9060A	Total/NA
Alkalinity, Total	230		5.0		mg/L	1		SM 2320B	Total/NA
Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
pH	6.6	HF	0.1		SU	1		9040C	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

Client Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-107127-1

Client Sample ID: MW-269Ma-20161005

Lab Sample ID: 480-107127-1

Date Collected: 10/05/16 08:15

Matrix: Water

Date Received: 10/06/16 01:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			10/07/16 14:36	1
1,1,1-Trichloroethane	ND		1.0		ug/L			10/07/16 14:36	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			10/07/16 14:36	1
1,1,2-Trichloroethane	ND		1.0		ug/L			10/07/16 14:36	1
1,1-Dichloroethane	ND		1.0		ug/L			10/07/16 14:36	1
1,1-Dichloroethene	ND		1.0		ug/L			10/07/16 14:36	1
1,1-Dichloropropene	ND		1.0		ug/L			10/07/16 14:36	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			10/07/16 14:36	1
1,2,3-Trichloropropane	ND		1.0		ug/L			10/07/16 14:36	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			10/07/16 14:36	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			10/07/16 14:36	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			10/07/16 14:36	1
1,2-Dichlorobenzene	ND		1.0		ug/L			10/07/16 14:36	1
1,2-Dichloroethane	ND		1.0		ug/L			10/07/16 14:36	1
1,2-Dichloropropane	ND		1.0		ug/L			10/07/16 14:36	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			10/07/16 14:36	1
1,3-Dichlorobenzene	ND		1.0		ug/L			10/07/16 14:36	1
1,3-Dichloropropane	ND		1.0		ug/L			10/07/16 14:36	1
1,4-Dichlorobenzene	ND		1.0		ug/L			10/07/16 14:36	1
1,4-Dioxane	ND		50		ug/L			10/07/16 14:36	1
2,2-Dichloropropane	ND		1.0		ug/L			10/07/16 14:36	1
2-Butanone (MEK)	ND		10		ug/L			10/07/16 14:36	1
2-Chlorotoluene	ND		1.0		ug/L			10/07/16 14:36	1
2-Hexanone	ND		10		ug/L			10/07/16 14:36	1
4-Chlorotoluene	ND		1.0		ug/L			10/07/16 14:36	1
4-Isopropyltoluene	ND		1.0		ug/L			10/07/16 14:36	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			10/07/16 14:36	1
Acetone	ND		50		ug/L			10/07/16 14:36	1
Benzene	ND		1.0		ug/L			10/07/16 14:36	1
Bromobenzene	ND		1.0		ug/L			10/07/16 14:36	1
Bromoform	ND		1.0		ug/L			10/07/16 14:36	1
Bromomethane	ND		2.0		ug/L			10/07/16 14:36	1
Carbon disulfide	ND		10		ug/L			10/07/16 14:36	1
Carbon tetrachloride	ND		1.0		ug/L			10/07/16 14:36	1
Chlorobenzene	ND		1.0		ug/L			10/07/16 14:36	1
Chlorobromomethane	ND		1.0		ug/L			10/07/16 14:36	1
Chlorodibromomethane	ND		0.50		ug/L			10/07/16 14:36	1
Chloroethane	ND		2.0		ug/L			10/07/16 14:36	1
Chloroform	ND		1.0		ug/L			10/07/16 14:36	1
Chloromethane	ND		2.0		ug/L			10/07/16 14:36	1
cis-1,2-Dichloroethene	2.5		1.0		ug/L			10/07/16 14:36	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			10/07/16 14:36	1
Dichlorobromomethane	ND		0.50		ug/L			10/07/16 14:36	1
Dichlorodifluoromethane	ND		1.0		ug/L			10/07/16 14:36	1
Ethyl ether	ND		1.0		ug/L			10/07/16 14:36	1
Ethylbenzene	ND		1.0		ug/L			10/07/16 14:36	1
Ethylene Dibromide	ND		1.0		ug/L			10/07/16 14:36	1
Hexachlorobutadiene	ND		0.40		ug/L			10/07/16 14:36	1
Isopropyl ether	ND		10		ug/L			10/07/16 14:36	1

TestAmerica Buffalo

Client Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-107127-1

Client Sample ID: MW-269Ma-20161005

Lab Sample ID: 480-107127-1

Date Collected: 10/05/16 08:15

Matrix: Water

Date Received: 10/06/16 01:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	ND		1.0		ug/L			10/07/16 14:36	1
Methyl tert-butyl ether	ND		1.0		ug/L			10/07/16 14:36	1
Methylene Chloride	ND		1.0		ug/L			10/07/16 14:36	1
m-Xylene & p-Xylene	ND		2.0		ug/L			10/07/16 14:36	1
Naphthalene	ND		5.0		ug/L			10/07/16 14:36	1
n-Butylbenzene	ND		1.0		ug/L			10/07/16 14:36	1
N-Propylbenzene	ND		1.0		ug/L			10/07/16 14:36	1
o-Xylene	ND		1.0		ug/L			10/07/16 14:36	1
sec-Butylbenzene	ND		1.0		ug/L			10/07/16 14:36	1
Styrene	ND		1.0		ug/L			10/07/16 14:36	1
Tert-amyl methyl ether	ND		5.0		ug/L			10/07/16 14:36	1
Tert-butyl ethyl ether	ND		5.0		ug/L			10/07/16 14:36	1
tert-Butylbenzene	ND		1.0		ug/L			10/07/16 14:36	1
Tetrachloroethene	ND		1.0		ug/L			10/07/16 14:36	1
Tetrahydrofuran	ND		10		ug/L			10/07/16 14:36	1
Toluene	ND		1.0		ug/L			10/07/16 14:36	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			10/07/16 14:36	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			10/07/16 14:36	1
Trichloroethene	1.3		1.0		ug/L			10/07/16 14:36	1
Trichlorofluoromethane	ND		1.0		ug/L			10/07/16 14:36	1
Vinyl chloride	ND		1.0		ug/L			10/07/16 14:36	1
Dibromomethane	ND		1.0		ug/L			10/07/16 14:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>Toluene-d8 (Surr)</i>	89		70 - 130		10/07/16 14:36	1
<i>1,2-Dichloroethane-d4 (Surr)</i>	85		70 - 130		10/07/16 14:36	1
<i>4-Bromofluorobenzene (Surr)</i>	97		70 - 130		10/07/16 14:36	1

Method: 522 - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	1.1		0.20		ug/L		10/12/16 19:30	10/13/16 14:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>1,4-Dioxane-d8 (Surr)</i>	73		70 - 130	10/12/16 19:30	10/13/16 14:34	1

Client Sample ID: REW-7-20161005

Lab Sample ID: 480-107127-2

Date Collected: 10/05/16 11:20

Matrix: Water

Date Received: 10/06/16 01:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			10/07/16 15:00	1
1,1,1-Trichloroethane	ND		1.0		ug/L			10/07/16 15:00	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			10/07/16 15:00	1
1,1,2-Trichloroethane	ND		1.0		ug/L			10/07/16 15:00	1
1,1-Dichloroethane	ND		1.0		ug/L			10/07/16 15:00	1
1,1-Dichloroethene	ND		1.0		ug/L			10/07/16 15:00	1
1,1-Dichloropropene	ND		1.0		ug/L			10/07/16 15:00	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			10/07/16 15:00	1
1,2,3-Trichloropropane	ND		1.0		ug/L			10/07/16 15:00	1

TestAmerica Buffalo

Client Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-107127-1

Client Sample ID: REW-7-20161005

Lab Sample ID: 480-107127-2

Date Collected: 10/05/16 11:20

Matrix: Water

Date Received: 10/06/16 01:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		1.0		ug/L			10/07/16 15:00	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			10/07/16 15:00	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			10/07/16 15:00	1
1,2-Dichlorobenzene	ND		1.0		ug/L			10/07/16 15:00	1
1,2-Dichloroethane	ND		1.0		ug/L			10/07/16 15:00	1
1,2-Dichloropropane	ND		1.0		ug/L			10/07/16 15:00	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			10/07/16 15:00	1
1,3-Dichlorobenzene	ND		1.0		ug/L			10/07/16 15:00	1
1,3-Dichloropropane	ND		1.0		ug/L			10/07/16 15:00	1
1,4-Dichlorobenzene	ND		1.0		ug/L			10/07/16 15:00	1
1,4-Dioxane	ND		50		ug/L			10/07/16 15:00	1
2,2-Dichloropropane	ND		1.0		ug/L			10/07/16 15:00	1
2-Butanone (MEK)	38		10		ug/L			10/07/16 15:00	1
2-Chlorotoluene	ND		1.0		ug/L			10/07/16 15:00	1
2-Hexanone	ND		10		ug/L			10/07/16 15:00	1
4-Chlorotoluene	ND		1.0		ug/L			10/07/16 15:00	1
4-Isopropyltoluene	ND		1.0		ug/L			10/07/16 15:00	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			10/07/16 15:00	1
Acetone	ND		50		ug/L			10/07/16 15:00	1
Benzene	ND		1.0		ug/L			10/07/16 15:00	1
Bromobenzene	ND		1.0		ug/L			10/07/16 15:00	1
Bromoform	ND		1.0		ug/L			10/07/16 15:00	1
Bromomethane	ND		2.0		ug/L			10/07/16 15:00	1
Carbon disulfide	ND		10		ug/L			10/07/16 15:00	1
Carbon tetrachloride	ND		1.0		ug/L			10/07/16 15:00	1
Chlorobenzene	ND		1.0		ug/L			10/07/16 15:00	1
Chlorobromomethane	ND		1.0		ug/L			10/07/16 15:00	1
Chlorodibromomethane	ND		0.50		ug/L			10/07/16 15:00	1
Chloroethane	ND		2.0		ug/L			10/07/16 15:00	1
Chloroform	ND		1.0		ug/L			10/07/16 15:00	1
Chloromethane	ND		2.0		ug/L			10/07/16 15:00	1
cis-1,2-Dichloroethene	9.7		1.0		ug/L			10/07/16 15:00	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			10/07/16 15:00	1
Dichlorobromomethane	ND		0.50		ug/L			10/07/16 15:00	1
Dichlorodifluoromethane	ND		1.0		ug/L			10/07/16 15:00	1
Ethyl ether	ND		1.0		ug/L			10/07/16 15:00	1
Ethylbenzene	ND		1.0		ug/L			10/07/16 15:00	1
Ethylene Dibromide	ND		1.0		ug/L			10/07/16 15:00	1
Hexachlorobutadiene	ND		0.40		ug/L			10/07/16 15:00	1
Isopropyl ether	ND		10		ug/L			10/07/16 15:00	1
Isopropylbenzene	ND		1.0		ug/L			10/07/16 15:00	1
Methyl tert-butyl ether	ND		1.0		ug/L			10/07/16 15:00	1
Methylene Chloride	ND		1.0		ug/L			10/07/16 15:00	1
m-Xylene & p-Xylene	ND		2.0		ug/L			10/07/16 15:00	1
Naphthalene	ND		5.0		ug/L			10/07/16 15:00	1
n-Butylbenzene	ND		1.0		ug/L			10/07/16 15:00	1
N-Propylbenzene	ND		1.0		ug/L			10/07/16 15:00	1
o-Xylene	ND		1.0		ug/L			10/07/16 15:00	1
sec-Butylbenzene	ND		1.0		ug/L			10/07/16 15:00	1

TestAmerica Buffalo

Client Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-107127-1

Client Sample ID: REW-7-20161005

Lab Sample ID: 480-107127-2

Date Collected: 10/05/16 11:20

Matrix: Water

Date Received: 10/06/16 01:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	ND		1.0		ug/L			10/07/16 15:00	1
Tert-amyl methyl ether	ND		5.0		ug/L			10/07/16 15:00	1
Tert-butyl ethyl ether	ND		5.0		ug/L			10/07/16 15:00	1
tert-Butylbenzene	ND		1.0		ug/L			10/07/16 15:00	1
Tetrachloroethene	ND		1.0		ug/L			10/07/16 15:00	1
Tetrahydrofuran	ND		10		ug/L			10/07/16 15:00	1
Toluene	58		1.0		ug/L			10/07/16 15:00	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			10/07/16 15:00	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			10/07/16 15:00	1
Trichloroethene	ND		1.0		ug/L			10/07/16 15:00	1
Trichlorofluoromethane	ND		1.0		ug/L			10/07/16 15:00	1
Vinyl chloride	8.6		1.0		ug/L			10/07/16 15:00	1
Dibromomethane	ND		1.0		ug/L			10/07/16 15:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	88		70 - 130					10/07/16 15:00	1
1,2-Dichloroethane-d4 (Surr)	88		70 - 130					10/07/16 15:00	1
4-Bromofluorobenzene (Surr)	98		70 - 130					10/07/16 15:00	1

Method: 6010 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	61		0.050		mg/L		10/07/16 09:30	10/08/16 11:43	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	23		2.5		mg/L			10/07/16 08:48	5
Sulfate	ND		2.0		mg/L			10/10/16 13:56	1
Ammonia	ND		0.20		mg/L		10/09/16 13:43	10/09/16 14:15	1
Nitrate as N	ND		0.050		mg/L			10/06/16 14:28	1
TOC Result 1	26		1.0		mg/L			10/07/16 20:42	1
TOC Result 2	28		1.0		mg/L			10/07/16 20:42	1
Total Organic Carbon - Duplicates	27		1.0		mg/L			10/07/16 20:42	1
Alkalinity, Total	260		5.0		mg/L			10/06/16 18:45	1
ortho-Phosphate	ND		0.020		mg/L			10/06/16 14:30	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.7	HF	0.1		SU			10/06/16 18:36	1

Client Sample ID: REW-8-20161005

Lab Sample ID: 480-107127-3

Date Collected: 10/05/16 10:25

Matrix: Water

Date Received: 10/06/16 01:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			10/07/16 15:24	1
1,1,1-Trichloroethane	ND		1.0		ug/L			10/07/16 15:24	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			10/07/16 15:24	1
1,1,2-Trichloroethane	ND		1.0		ug/L			10/07/16 15:24	1
1,1-Dichloroethane	ND		1.0		ug/L			10/07/16 15:24	1
1,1-Dichloroethene	ND		1.0		ug/L			10/07/16 15:24	1
1,1-Dichloropropene	ND		1.0		ug/L			10/07/16 15:24	1

TestAmerica Buffalo

Client Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-107127-1

Client Sample ID: REW-8-20161005

Lab Sample ID: 480-107127-3

Date Collected: 10/05/16 10:25

Matrix: Water

Date Received: 10/06/16 01:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	ND		1.0		ug/L			10/07/16 15:24	1
1,2,3-Trichloropropane	ND		1.0		ug/L			10/07/16 15:24	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			10/07/16 15:24	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			10/07/16 15:24	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			10/07/16 15:24	1
1,2-Dichlorobenzene	ND		1.0		ug/L			10/07/16 15:24	1
1,2-Dichloroethane	ND		1.0		ug/L			10/07/16 15:24	1
1,2-Dichloropropane	ND		1.0		ug/L			10/07/16 15:24	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			10/07/16 15:24	1
1,3-Dichlorobenzene	ND		1.0		ug/L			10/07/16 15:24	1
1,3-Dichloropropane	ND		1.0		ug/L			10/07/16 15:24	1
1,4-Dichlorobenzene	ND		1.0		ug/L			10/07/16 15:24	1
1,4-Dioxane	ND		50		ug/L			10/07/16 15:24	1
2,2-Dichloropropane	ND		1.0		ug/L			10/07/16 15:24	1
2-Butanone (MEK)	ND		10		ug/L			10/07/16 15:24	1
2-Chlorotoluene	ND		1.0		ug/L			10/07/16 15:24	1
2-Hexanone	ND		10		ug/L			10/07/16 15:24	1
4-Chlorotoluene	ND		1.0		ug/L			10/07/16 15:24	1
4-Isopropyltoluene	ND		1.0		ug/L			10/07/16 15:24	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			10/07/16 15:24	1
Acetone	ND		50		ug/L			10/07/16 15:24	1
Benzene	ND		1.0		ug/L			10/07/16 15:24	1
Bromobenzene	ND		1.0		ug/L			10/07/16 15:24	1
Bromoform	ND		1.0		ug/L			10/07/16 15:24	1
Bromomethane	ND		2.0		ug/L			10/07/16 15:24	1
Carbon disulfide	ND		10		ug/L			10/07/16 15:24	1
Carbon tetrachloride	ND		1.0		ug/L			10/07/16 15:24	1
Chlorobenzene	ND		1.0		ug/L			10/07/16 15:24	1
Chlorobromomethane	ND		1.0		ug/L			10/07/16 15:24	1
Chlorodibromomethane	ND		0.50		ug/L			10/07/16 15:24	1
Chloroethane	ND		2.0		ug/L			10/07/16 15:24	1
Chloroform	ND		1.0		ug/L			10/07/16 15:24	1
Chloromethane	ND		2.0		ug/L			10/07/16 15:24	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			10/07/16 15:24	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			10/07/16 15:24	1
Dichlorobromomethane	ND		0.50		ug/L			10/07/16 15:24	1
Dichlorodifluoromethane	ND		1.0		ug/L			10/07/16 15:24	1
Ethyl ether	ND		1.0		ug/L			10/07/16 15:24	1
Ethylbenzene	ND		1.0		ug/L			10/07/16 15:24	1
Ethylene Dibromide	ND		1.0		ug/L			10/07/16 15:24	1
Hexachlorobutadiene	ND		0.40		ug/L			10/07/16 15:24	1
Isopropyl ether	ND		10		ug/L			10/07/16 15:24	1
Isopropylbenzene	ND		1.0		ug/L			10/07/16 15:24	1
Methyl tert-butyl ether	ND		1.0		ug/L			10/07/16 15:24	1
Methylene Chloride	ND		1.0		ug/L			10/07/16 15:24	1
m-Xylene & p-Xylene	ND		2.0		ug/L			10/07/16 15:24	1
Naphthalene	ND		5.0		ug/L			10/07/16 15:24	1
n-Butylbenzene	ND		1.0		ug/L			10/07/16 15:24	1
N-Propylbenzene	ND		1.0		ug/L			10/07/16 15:24	1

TestAmerica Buffalo

Client Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-107127-1

Client Sample ID: REW-8-20161005

Lab Sample ID: 480-107127-3

Date Collected: 10/05/16 10:25

Matrix: Water

Date Received: 10/06/16 01:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	ND		1.0		ug/L			10/07/16 15:24	1
sec-Butylbenzene	ND		1.0		ug/L			10/07/16 15:24	1
Styrene	ND		1.0		ug/L			10/07/16 15:24	1
Tert-amyl methyl ether	ND		5.0		ug/L			10/07/16 15:24	1
Tert-butyl ethyl ether	ND		5.0		ug/L			10/07/16 15:24	1
tert-Butylbenzene	ND		1.0		ug/L			10/07/16 15:24	1
Tetrachloroethene	ND		1.0		ug/L			10/07/16 15:24	1
Tetrahydrofuran	ND		10		ug/L			10/07/16 15:24	1
Toluene	9.4		1.0		ug/L			10/07/16 15:24	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			10/07/16 15:24	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			10/07/16 15:24	1
Trichloroethene	ND		1.0		ug/L			10/07/16 15:24	1
Trichlorofluoromethane	ND		1.0		ug/L			10/07/16 15:24	1
Vinyl chloride	ND		1.0		ug/L			10/07/16 15:24	1
Dibromomethane	ND		1.0		ug/L			10/07/16 15:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	90		70 - 130		10/07/16 15:24	1
1,2-Dichloroethane-d4 (Surr)	83		70 - 130		10/07/16 15:24	1
4-Bromofluorobenzene (Surr)	97		70 - 130		10/07/16 15:24	1

Method: 6010 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	49		0.050		mg/L		10/07/16 09:30	10/08/16 11:46	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	35		2.5		mg/L			10/07/16 08:56	5
Sulfate	ND		2.0		mg/L			10/10/16 14:04	1
Ammonia	6.7		1.0		mg/L		10/09/16 13:43	10/09/16 14:16	1
Nitrate as N	ND		0.050		mg/L			10/06/16 14:29	1
TOC Result 1	13		1.0		mg/L			10/07/16 21:38	1
TOC Result 2	14		1.0		mg/L			10/07/16 21:38	1
Total Organic Carbon - Duplicates	13		1.0		mg/L			10/07/16 21:38	1
Alkalinity, Total	260		5.0		mg/L			10/06/16 19:05	1
ortho-Phosphate	0.21		0.020		mg/L			10/06/16 14:30	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.8	HF	0.1		SU			10/06/16 18:41	1

Client Sample ID: REW-9-20161005

Lab Sample ID: 480-107127-4

Date Collected: 10/05/16 09:30

Matrix: Water

Date Received: 10/06/16 01:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			10/07/16 15:48	1
1,1,1-Trichloroethane	ND		1.0		ug/L			10/07/16 15:48	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			10/07/16 15:48	1
1,1,2-Trichloroethane	ND		1.0		ug/L			10/07/16 15:48	1
1,1-Dichloroethane	ND		1.0		ug/L			10/07/16 15:48	1

TestAmerica Buffalo

Client Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-107127-1

Client Sample ID: REW-9-20161005

Lab Sample ID: 480-107127-4

Date Collected: 10/05/16 09:30

Matrix: Water

Date Received: 10/06/16 01:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		1.0		ug/L			10/07/16 15:48	1
1,1-Dichloropropene	ND		1.0		ug/L			10/07/16 15:48	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			10/07/16 15:48	1
1,2,3-Trichloropropane	ND		1.0		ug/L			10/07/16 15:48	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			10/07/16 15:48	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			10/07/16 15:48	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			10/07/16 15:48	1
1,2-Dichlorobenzene	ND		1.0		ug/L			10/07/16 15:48	1
1,2-Dichloroethane	ND		1.0		ug/L			10/07/16 15:48	1
1,2-Dichloropropane	ND		1.0		ug/L			10/07/16 15:48	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			10/07/16 15:48	1
1,3-Dichlorobenzene	ND		1.0		ug/L			10/07/16 15:48	1
1,3-Dichloropropane	ND		1.0		ug/L			10/07/16 15:48	1
1,4-Dichlorobenzene	ND		1.0		ug/L			10/07/16 15:48	1
1,4-Dioxane	ND		50		ug/L			10/07/16 15:48	1
2,2-Dichloropropane	ND		1.0		ug/L			10/07/16 15:48	1
2-Butanone (MEK)	140		10		ug/L			10/07/16 15:48	1
2-Chlorotoluene	ND		1.0		ug/L			10/07/16 15:48	1
2-Hexanone	ND		10		ug/L			10/07/16 15:48	1
4-Chlorotoluene	ND		1.0		ug/L			10/07/16 15:48	1
4-Isopropyltoluene	ND		1.0		ug/L			10/07/16 15:48	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			10/07/16 15:48	1
Acetone	ND		50		ug/L			10/07/16 15:48	1
Benzene	ND		1.0		ug/L			10/07/16 15:48	1
Bromobenzene	ND		1.0		ug/L			10/07/16 15:48	1
Bromoform	ND		1.0		ug/L			10/07/16 15:48	1
Bromomethane	ND		2.0		ug/L			10/07/16 15:48	1
Carbon disulfide	ND		10		ug/L			10/07/16 15:48	1
Carbon tetrachloride	ND		1.0		ug/L			10/07/16 15:48	1
Chlorobenzene	ND		1.0		ug/L			10/07/16 15:48	1
Chlorobromomethane	ND		1.0		ug/L			10/07/16 15:48	1
Chlorodibromomethane	ND		0.50		ug/L			10/07/16 15:48	1
Chloroethane	ND		2.0		ug/L			10/07/16 15:48	1
Chloroform	ND		1.0		ug/L			10/07/16 15:48	1
Chloromethane	ND		2.0		ug/L			10/07/16 15:48	1
cis-1,2-Dichloroethene	24		1.0		ug/L			10/07/16 15:48	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			10/07/16 15:48	1
Dichlorobromomethane	ND		0.50		ug/L			10/07/16 15:48	1
Dichlorodifluoromethane	ND		1.0		ug/L			10/07/16 15:48	1
Ethyl ether	ND		1.0		ug/L			10/07/16 15:48	1
Ethylbenzene	1.1		1.0		ug/L			10/07/16 15:48	1
Ethylene Dibromide	ND		1.0		ug/L			10/07/16 15:48	1
Hexachlorobutadiene	ND		0.40		ug/L			10/07/16 15:48	1
Isopropyl ether	ND		10		ug/L			10/07/16 15:48	1
Isopropylbenzene	ND		1.0		ug/L			10/07/16 15:48	1
Methyl tert-butyl ether	ND		1.0		ug/L			10/07/16 15:48	1
Methylene Chloride	ND		1.0		ug/L			10/07/16 15:48	1
m-Xylene & p-Xylene	3.9		2.0		ug/L			10/07/16 15:48	1
Naphthalene	ND		5.0		ug/L			10/07/16 15:48	1

TestAmerica Buffalo

Client Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-107127-1

Client Sample ID: REW-9-20161005

Lab Sample ID: 480-107127-4

Date Collected: 10/05/16 09:30

Matrix: Water

Date Received: 10/06/16 01:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
n-Butylbenzene	ND		1.0		ug/L			10/07/16 15:48	1
N-Propylbenzene	ND		1.0		ug/L			10/07/16 15:48	1
o-Xylene	ND		1.0		ug/L			10/07/16 15:48	1
sec-Butylbenzene	ND		1.0		ug/L			10/07/16 15:48	1
Styrene	ND		1.0		ug/L			10/07/16 15:48	1
Tert-amyl methyl ether	ND		5.0		ug/L			10/07/16 15:48	1
Tert-butyl ethyl ether	ND		5.0		ug/L			10/07/16 15:48	1
tert-Butylbenzene	ND		1.0		ug/L			10/07/16 15:48	1
Tetrachloroethene	ND		1.0		ug/L			10/07/16 15:48	1
Tetrahydrofuran	ND		10		ug/L			10/07/16 15:48	1
Toluene	48		1.0		ug/L			10/07/16 15:48	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			10/07/16 15:48	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			10/07/16 15:48	1
Trichloroethene	ND		1.0		ug/L			10/07/16 15:48	1
Trichlorofluoromethane	ND		1.0		ug/L			10/07/16 15:48	1
Vinyl chloride	13		1.0		ug/L			10/07/16 15:48	1
Dibromomethane	ND		1.0		ug/L			10/07/16 15:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	88		70 - 130		10/07/16 15:48	1
1,2-Dichloroethane-d4 (Surr)	85		70 - 130		10/07/16 15:48	1
4-Bromofluorobenzene (Surr)	98		70 - 130		10/07/16 15:48	1

Method: 6010 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	100		0.050		mg/L		10/07/16 09:30	10/08/16 12:00	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	28		2.5		mg/L			10/07/16 09:04	5
Sulfate	8.6		2.0		mg/L			10/11/16 11:13	1
Ammonia	0.20		0.20		mg/L		10/09/16 13:43	10/09/16 14:18	1
Nitrate as N	ND		0.050		mg/L			10/06/16 14:31	1
TOC Result 1	250		5.0		mg/L			10/12/16 00:41	5
TOC Result 2	250		5.0		mg/L			10/12/16 00:41	5
Total Organic Carbon - Duplicates	250		5.0		mg/L			10/12/16 00:41	5
Alkalinity, Total	380		5.0		mg/L			10/06/16 19:12	1
ortho-Phosphate	0.077		0.020		mg/L			10/06/16 14:30	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.4	HF	0.1		SU			10/06/16 18:46	1

Client Sample ID: REW-10-20161005

Lab Sample ID: 480-107127-5

Date Collected: 10/05/16 08:55

Matrix: Water

Date Received: 10/06/16 01:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			10/07/16 16:12	1
1,1,1-Trichloroethane	ND		1.0		ug/L			10/07/16 16:12	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			10/07/16 16:12	1

TestAmerica Buffalo

Client Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-107127-1

Client Sample ID: REW-10-20161005

Lab Sample ID: 480-107127-5

Date Collected: 10/05/16 08:55

Matrix: Water

Date Received: 10/06/16 01:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	ND		1.0		ug/L			10/07/16 16:12	1
1,1-Dichloroethane	ND		1.0		ug/L			10/07/16 16:12	1
1,1-Dichloroethene	ND		1.0		ug/L			10/07/16 16:12	1
1,1-Dichloropropene	ND		1.0		ug/L			10/07/16 16:12	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			10/07/16 16:12	1
1,2,3-Trichloropropane	ND		1.0		ug/L			10/07/16 16:12	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			10/07/16 16:12	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			10/07/16 16:12	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			10/07/16 16:12	1
1,2-Dichlorobenzene	ND		1.0		ug/L			10/07/16 16:12	1
1,2-Dichloroethane	ND		1.0		ug/L			10/07/16 16:12	1
1,2-Dichloropropane	ND		1.0		ug/L			10/07/16 16:12	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			10/07/16 16:12	1
1,3-Dichlorobenzene	ND		1.0		ug/L			10/07/16 16:12	1
1,3-Dichloropropane	ND		1.0		ug/L			10/07/16 16:12	1
1,4-Dichlorobenzene	ND		1.0		ug/L			10/07/16 16:12	1
1,4-Dioxane	ND		50		ug/L			10/07/16 16:12	1
2,2-Dichloropropane	ND		1.0		ug/L			10/07/16 16:12	1
2-Butanone (MEK)	ND		10		ug/L			10/07/16 16:12	1
2-Chlorotoluene	ND		1.0		ug/L			10/07/16 16:12	1
2-Hexanone	ND		10		ug/L			10/07/16 16:12	1
4-Chlorotoluene	ND		1.0		ug/L			10/07/16 16:12	1
4-Isopropyltoluene	ND		1.0		ug/L			10/07/16 16:12	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			10/07/16 16:12	1
Acetone	ND		50		ug/L			10/07/16 16:12	1
Benzene	ND		1.0		ug/L			10/07/16 16:12	1
Bromobenzene	ND		1.0		ug/L			10/07/16 16:12	1
Bromoform	ND		1.0		ug/L			10/07/16 16:12	1
Bromomethane	ND		2.0		ug/L			10/07/16 16:12	1
Carbon disulfide	ND		10		ug/L			10/07/16 16:12	1
Carbon tetrachloride	ND		1.0		ug/L			10/07/16 16:12	1
Chlorobenzene	ND		1.0		ug/L			10/07/16 16:12	1
Chlorobromomethane	ND		1.0		ug/L			10/07/16 16:12	1
Chlorodibromomethane	ND		0.50		ug/L			10/07/16 16:12	1
Chloroethane	ND		2.0		ug/L			10/07/16 16:12	1
Chloroform	ND		1.0		ug/L			10/07/16 16:12	1
Chloromethane	ND		2.0		ug/L			10/07/16 16:12	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			10/07/16 16:12	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			10/07/16 16:12	1
Dichlorobromomethane	ND		0.50		ug/L			10/07/16 16:12	1
Dichlorodifluoromethane	ND		1.0		ug/L			10/07/16 16:12	1
Ethyl ether	ND		1.0		ug/L			10/07/16 16:12	1
Ethylbenzene	ND		1.0		ug/L			10/07/16 16:12	1
Ethylene Dibromide	ND		1.0		ug/L			10/07/16 16:12	1
Hexachlorobutadiene	ND		0.40		ug/L			10/07/16 16:12	1
Isopropyl ether	ND		10		ug/L			10/07/16 16:12	1
Isopropylbenzene	ND		1.0		ug/L			10/07/16 16:12	1
Methyl tert-butyl ether	ND		1.0		ug/L			10/07/16 16:12	1
Methylene Chloride	ND		1.0		ug/L			10/07/16 16:12	1

TestAmerica Buffalo

Client Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-107127-1

Client Sample ID: REW-10-20161005

Lab Sample ID: 480-107127-5

Date Collected: 10/05/16 08:55

Matrix: Water

Date Received: 10/06/16 01:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	ND		2.0		ug/L			10/07/16 16:12	1
Naphthalene	ND		5.0		ug/L			10/07/16 16:12	1
n-Butylbenzene	ND		1.0		ug/L			10/07/16 16:12	1
N-Propylbenzene	ND		1.0		ug/L			10/07/16 16:12	1
o-Xylene	ND		1.0		ug/L			10/07/16 16:12	1
sec-Butylbenzene	ND		1.0		ug/L			10/07/16 16:12	1
Styrene	ND		1.0		ug/L			10/07/16 16:12	1
Tert-amyl methyl ether	ND		5.0		ug/L			10/07/16 16:12	1
Tert-butyl ethyl ether	ND		5.0		ug/L			10/07/16 16:12	1
tert-Butylbenzene	ND		1.0		ug/L			10/07/16 16:12	1
Tetrachloroethene	ND		1.0		ug/L			10/07/16 16:12	1
Tetrahydrofuran	ND		10		ug/L			10/07/16 16:12	1
Toluene	ND		1.0		ug/L			10/07/16 16:12	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			10/07/16 16:12	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			10/07/16 16:12	1
Trichloroethene	ND		1.0		ug/L			10/07/16 16:12	1
Trichlorofluoromethane	ND		1.0		ug/L			10/07/16 16:12	1
Vinyl chloride	ND		1.0		ug/L			10/07/16 16:12	1
Dibromomethane	ND		1.0		ug/L			10/07/16 16:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	89		70 - 130		10/07/16 16:12	1
1,2-Dichloroethane-d4 (Surr)	87		70 - 130		10/07/16 16:12	1
4-Bromofluorobenzene (Surr)	98		70 - 130		10/07/16 16:12	1

Method: 6010 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	2.3		0.050		mg/L		10/07/16 09:30	10/08/16 12:04	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	68		1.0		mg/L			10/07/16 09:12	2
Sulfate	26		4.0		mg/L			10/07/16 09:12	2
Ammonia	0.22		0.20		mg/L		10/09/16 13:43	10/09/16 14:21	1
Nitrate as N	ND		0.050		mg/L			10/06/16 14:32	1
TOC Result 1	ND		1.0		mg/L			10/08/16 01:22	1
TOC Result 2	1.1		1.0		mg/L			10/08/16 01:22	1
Total Organic Carbon - Duplicates	ND		1.0		mg/L			10/08/16 01:22	1
Alkalinity, Total	81		5.0		mg/L			10/06/16 19:18	1
ortho-Phosphate	0.029		0.020		mg/L			10/06/16 14:30	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.1	HF	0.1		SU			10/06/16 18:48	1

Client Sample ID: REW-11-20161005

Lab Sample ID: 480-107127-6

Date Collected: 10/05/16 12:20

Matrix: Water

Date Received: 10/06/16 01:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			10/07/16 16:36	1

TestAmerica Buffalo

Client Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-107127-1

Client Sample ID: REW-11-20161005

Lab Sample ID: 480-107127-6

Date Collected: 10/05/16 12:20

Matrix: Water

Date Received: 10/06/16 01:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0		ug/L			10/07/16 16:36	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			10/07/16 16:36	1
1,1,2-Trichloroethane	ND		1.0		ug/L			10/07/16 16:36	1
1,1-Dichloroethane	ND		1.0		ug/L			10/07/16 16:36	1
1,1-Dichloroethene	ND		1.0		ug/L			10/07/16 16:36	1
1,1-Dichloropropene	ND		1.0		ug/L			10/07/16 16:36	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			10/07/16 16:36	1
1,2,3-Trichloropropane	ND		1.0		ug/L			10/07/16 16:36	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			10/07/16 16:36	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			10/07/16 16:36	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			10/07/16 16:36	1
1,2-Dichlorobenzene	ND		1.0		ug/L			10/07/16 16:36	1
1,2-Dichloroethane	ND		1.0		ug/L			10/07/16 16:36	1
1,2-Dichloropropane	ND		1.0		ug/L			10/07/16 16:36	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			10/07/16 16:36	1
1,3-Dichlorobenzene	ND		1.0		ug/L			10/07/16 16:36	1
1,3-Dichloropropane	ND		1.0		ug/L			10/07/16 16:36	1
1,4-Dichlorobenzene	ND		1.0		ug/L			10/07/16 16:36	1
1,4-Dioxane	ND		50		ug/L			10/07/16 16:36	1
2,2-Dichloropropane	ND		1.0		ug/L			10/07/16 16:36	1
2-Butanone (MEK)	30		10		ug/L			10/07/16 16:36	1
2-Chlorotoluene	ND		1.0		ug/L			10/07/16 16:36	1
2-Hexanone	ND		10		ug/L			10/07/16 16:36	1
4-Chlorotoluene	ND		1.0		ug/L			10/07/16 16:36	1
4-Isopropyltoluene	ND		1.0		ug/L			10/07/16 16:36	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			10/07/16 16:36	1
Acetone	ND		50		ug/L			10/07/16 16:36	1
Benzene	ND		1.0		ug/L			10/07/16 16:36	1
Bromobenzene	ND		1.0		ug/L			10/07/16 16:36	1
Bromoform	ND		1.0		ug/L			10/07/16 16:36	1
Bromomethane	ND		2.0		ug/L			10/07/16 16:36	1
Carbon disulfide	ND		10		ug/L			10/07/16 16:36	1
Carbon tetrachloride	ND		1.0		ug/L			10/07/16 16:36	1
Chlorobenzene	ND		1.0		ug/L			10/07/16 16:36	1
Chlorobromomethane	ND		1.0		ug/L			10/07/16 16:36	1
Chlorodibromomethane	ND		0.50		ug/L			10/07/16 16:36	1
Chloroethane	ND		2.0		ug/L			10/07/16 16:36	1
Chloroform	ND		1.0		ug/L			10/07/16 16:36	1
Chloromethane	ND		2.0		ug/L			10/07/16 16:36	1
cis-1,2-Dichloroethene	20		1.0		ug/L			10/07/16 16:36	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			10/07/16 16:36	1
Dichlorobromomethane	ND		0.50		ug/L			10/07/16 16:36	1
Dichlorodifluoromethane	ND		1.0		ug/L			10/07/16 16:36	1
Ethyl ether	ND		1.0		ug/L			10/07/16 16:36	1
Ethylbenzene	ND		1.0		ug/L			10/07/16 16:36	1
Ethylene Dibromide	ND		1.0		ug/L			10/07/16 16:36	1
Hexachlorobutadiene	ND		0.40		ug/L			10/07/16 16:36	1
Isopropyl ether	ND		10		ug/L			10/07/16 16:36	1
Isopropylbenzene	ND		1.0		ug/L			10/07/16 16:36	1

TestAmerica Buffalo

Client Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-107127-1

Client Sample ID: REW-11-20161005

Lab Sample ID: 480-107127-6

Date Collected: 10/05/16 12:20

Matrix: Water

Date Received: 10/06/16 01:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		1.0		ug/L			10/07/16 16:36	1
Methylene Chloride	ND		1.0		ug/L			10/07/16 16:36	1
m-Xylene & p-Xylene	ND		2.0		ug/L			10/07/16 16:36	1
Naphthalene	ND		5.0		ug/L			10/07/16 16:36	1
n-Butylbenzene	ND		1.0		ug/L			10/07/16 16:36	1
N-Propylbenzene	ND		1.0		ug/L			10/07/16 16:36	1
o-Xylene	ND		1.0		ug/L			10/07/16 16:36	1
sec-Butylbenzene	ND		1.0		ug/L			10/07/16 16:36	1
Styrene	ND		1.0		ug/L			10/07/16 16:36	1
Tert-amyl methyl ether	ND		5.0		ug/L			10/07/16 16:36	1
Tert-butyl ethyl ether	ND		5.0		ug/L			10/07/16 16:36	1
tert-Butylbenzene	ND		1.0		ug/L			10/07/16 16:36	1
Tetrachloroethene	ND		1.0		ug/L			10/07/16 16:36	1
Tetrahydrofuran	ND		10		ug/L			10/07/16 16:36	1
Toluene	34		1.0		ug/L			10/07/16 16:36	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			10/07/16 16:36	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			10/07/16 16:36	1
Trichloroethene	3.4		1.0		ug/L			10/07/16 16:36	1
Trichlorofluoromethane	ND		1.0		ug/L			10/07/16 16:36	1
Vinyl chloride	9.7		1.0		ug/L			10/07/16 16:36	1
Dibromomethane	ND		1.0		ug/L			10/07/16 16:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	87		70 - 130		10/07/16 16:36	1
1,2-Dichloroethane-d4 (Surr)	86		70 - 130		10/07/16 16:36	1
4-Bromofluorobenzene (Surr)	95		70 - 130		10/07/16 16:36	1

Method: 6010 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	43		0.050		mg/L		10/07/16 09:30	10/08/16 12:07	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	50		2.5		mg/L			10/07/16 10:09	5
Sulfate	19		10		mg/L			10/07/16 10:09	5
Ammonia	0.79		0.20		mg/L		10/09/16 13:43	10/09/16 14:22	1
Nitrate as N	ND		0.050		mg/L			10/06/16 14:33	1
TOC Result 1	78		1.0		mg/L			10/08/16 02:19	1
TOC Result 2	83		1.0		mg/L			10/08/16 02:19	1
Total Organic Carbon - Duplicates	80		1.0		mg/L			10/08/16 02:19	1
Alkalinity, Total	160		5.0		mg/L			10/06/16 19:23	1
ortho-Phosphate	0.027		0.020		mg/L			10/06/16 14:30	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.6	HF	0.1		SU			10/06/16 18:51	1

TestAmerica Buffalo

Client Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-107127-1

Client Sample ID: REW-12-20161005

Lab Sample ID: 480-107127-7

Date Collected: 10/05/16 13:10

Matrix: Water

Date Received: 10/06/16 01:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		2.0		ug/L			10/07/16 17:00	2
1,1,1-Trichloroethane	ND		2.0		ug/L			10/07/16 17:00	2
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			10/07/16 17:00	2
1,1,2-Trichloroethane	ND		2.0		ug/L			10/07/16 17:00	2
1,1-Dichloroethane	2.2		2.0		ug/L			10/07/16 17:00	2
1,1-Dichloroethene	ND		2.0		ug/L			10/07/16 17:00	2
1,1-Dichloropropene	ND		2.0		ug/L			10/07/16 17:00	2
1,2,3-Trichlorobenzene	ND		2.0		ug/L			10/07/16 17:00	2
1,2,3-Trichloropropane	ND		2.0		ug/L			10/07/16 17:00	2
1,2,4-Trichlorobenzene	ND		2.0		ug/L			10/07/16 17:00	2
1,2,4-Trimethylbenzene	ND		2.0		ug/L			10/07/16 17:00	2
1,2-Dibromo-3-Chloropropane	ND		10		ug/L			10/07/16 17:00	2
1,2-Dichlorobenzene	ND		2.0		ug/L			10/07/16 17:00	2
1,2-Dichloroethane	ND		2.0		ug/L			10/07/16 17:00	2
1,2-Dichloropropane	ND		2.0		ug/L			10/07/16 17:00	2
1,3,5-Trimethylbenzene	ND		2.0		ug/L			10/07/16 17:00	2
1,3-Dichlorobenzene	ND		2.0		ug/L			10/07/16 17:00	2
1,3-Dichloropropane	ND		2.0		ug/L			10/07/16 17:00	2
1,4-Dichlorobenzene	ND		2.0		ug/L			10/07/16 17:00	2
1,4-Dioxane	ND		100		ug/L			10/07/16 17:00	2
2,2-Dichloropropane	ND		2.0		ug/L			10/07/16 17:00	2
2-Butanone (MEK)	66		20		ug/L			10/07/16 17:00	2
2-Chlorotoluene	ND		2.0		ug/L			10/07/16 17:00	2
2-Hexanone	ND		20		ug/L			10/07/16 17:00	2
4-Chlorotoluene	ND		2.0		ug/L			10/07/16 17:00	2
4-Isopropyltoluene	ND		2.0		ug/L			10/07/16 17:00	2
4-Methyl-2-pentanone (MIBK)	ND		20		ug/L			10/07/16 17:00	2
Acetone	ND		100		ug/L			10/07/16 17:00	2
Benzene	ND		2.0		ug/L			10/07/16 17:00	2
Bromobenzene	ND		2.0		ug/L			10/07/16 17:00	2
Bromoform	ND		2.0		ug/L			10/07/16 17:00	2
Bromomethane	ND		4.0		ug/L			10/07/16 17:00	2
Carbon disulfide	ND		20		ug/L			10/07/16 17:00	2
Carbon tetrachloride	ND		2.0		ug/L			10/07/16 17:00	2
Chlorobenzene	ND		2.0		ug/L			10/07/16 17:00	2
Chlorobromomethane	ND		2.0		ug/L			10/07/16 17:00	2
Chlorodibromomethane	ND		1.0		ug/L			10/07/16 17:00	2
Chloroethane	ND		4.0		ug/L			10/07/16 17:00	2
Chloroform	ND		2.0		ug/L			10/07/16 17:00	2
Chloromethane	ND		4.0		ug/L			10/07/16 17:00	2
cis-1,2-Dichloroethene	130		2.0		ug/L			10/07/16 17:00	2
cis-1,3-Dichloropropene	ND		0.80		ug/L			10/07/16 17:00	2
Dichlorobromomethane	ND		1.0		ug/L			10/07/16 17:00	2
Dichlorodifluoromethane	ND		2.0		ug/L			10/07/16 17:00	2
Ethyl ether	ND		2.0		ug/L			10/07/16 17:00	2
Ethylbenzene	ND		2.0		ug/L			10/07/16 17:00	2
Ethylene Dibromide	ND		2.0		ug/L			10/07/16 17:00	2
Hexachlorobutadiene	ND		0.80		ug/L			10/07/16 17:00	2
Isopropyl ether	ND		20		ug/L			10/07/16 17:00	2

TestAmerica Buffalo

Client Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-107127-1

Client Sample ID: REW-12-20161005

Lab Sample ID: 480-107127-7

Date Collected: 10/05/16 13:10

Matrix: Water

Date Received: 10/06/16 01:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	ND		2.0		ug/L			10/07/16 17:00	2
Methyl tert-butyl ether	ND		2.0		ug/L			10/07/16 17:00	2
Methylene Chloride	ND		2.0		ug/L			10/07/16 17:00	2
m-Xylene & p-Xylene	ND		4.0		ug/L			10/07/16 17:00	2
Naphthalene	ND		10		ug/L			10/07/16 17:00	2
n-Butylbenzene	ND		2.0		ug/L			10/07/16 17:00	2
N-Propylbenzene	ND		2.0		ug/L			10/07/16 17:00	2
o-Xylene	ND		2.0		ug/L			10/07/16 17:00	2
sec-Butylbenzene	ND		2.0		ug/L			10/07/16 17:00	2
Styrene	ND		2.0		ug/L			10/07/16 17:00	2
Tert-amyl methyl ether	ND		10		ug/L			10/07/16 17:00	2
Tert-butyl ethyl ether	ND		10		ug/L			10/07/16 17:00	2
tert-Butylbenzene	ND		2.0		ug/L			10/07/16 17:00	2
Tetrachloroethene	ND		2.0		ug/L			10/07/16 17:00	2
Tetrahydrofuran	ND		20		ug/L			10/07/16 17:00	2
Toluene	72		2.0		ug/L			10/07/16 17:00	2
trans-1,2-Dichloroethene	ND		2.0		ug/L			10/07/16 17:00	2
trans-1,3-Dichloropropene	ND		0.80		ug/L			10/07/16 17:00	2
Trichloroethene	29		2.0		ug/L			10/07/16 17:00	2
Trichlorofluoromethane	ND		2.0		ug/L			10/07/16 17:00	2
Vinyl chloride	53		2.0		ug/L			10/07/16 17:00	2
Dibromomethane	ND		2.0		ug/L			10/07/16 17:00	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	90		70 - 130		10/07/16 17:00	2
1,2-Dichloroethane-d4 (Surr)	93		70 - 130		10/07/16 17:00	2
4-Bromofluorobenzene (Surr)	100		70 - 130		10/07/16 17:00	2

Method: 6010 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	81		0.050		mg/L		10/07/16 09:30	10/08/16 12:11	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	36		2.5		mg/L			10/07/16 10:17	5
Sulfate	21		10		mg/L			10/07/16 10:17	5
Ammonia	0.27		0.20		mg/L		10/09/16 13:43	10/09/16 14:23	1
Nitrate as N	ND		0.050		mg/L			10/06/16 14:37	1
TOC Result 1	94		1.0		mg/L			10/08/16 02:47	1
TOC Result 2	99		1.0		mg/L			10/08/16 02:47	1
Total Organic Carbon - Duplicates	97		1.0		mg/L			10/08/16 02:47	1
Alkalinity, Total	200		5.0		mg/L			10/06/16 19:30	1
ortho-Phosphate	0.026		0.020		mg/L			10/06/16 14:30	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.5	HF	0.1		SU			10/06/16 18:54	1

TestAmerica Buffalo

Client Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-107127-1

Client Sample ID: DUP3-20161005

Lab Sample ID: 480-107127-8

Date Collected: 10/05/16 00:00

Matrix: Water

Date Received: 10/06/16 01:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			10/07/16 17:24	1
1,1,1-Trichloroethane	ND		1.0		ug/L			10/07/16 17:24	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			10/07/16 17:24	1
1,1,2-Trichloroethane	ND		1.0		ug/L			10/07/16 17:24	1
1,1-Dichloroethane	ND		1.0		ug/L			10/07/16 17:24	1
1,1-Dichloroethene	ND		1.0		ug/L			10/07/16 17:24	1
1,1-Dichloropropene	ND		1.0		ug/L			10/07/16 17:24	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			10/07/16 17:24	1
1,2,3-Trichloropropane	ND		1.0		ug/L			10/07/16 17:24	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			10/07/16 17:24	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			10/07/16 17:24	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			10/07/16 17:24	1
1,2-Dichlorobenzene	ND		1.0		ug/L			10/07/16 17:24	1
1,2-Dichloroethane	ND		1.0		ug/L			10/07/16 17:24	1
1,2-Dichloropropane	ND		1.0		ug/L			10/07/16 17:24	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			10/07/16 17:24	1
1,3-Dichlorobenzene	ND		1.0		ug/L			10/07/16 17:24	1
1,3-Dichloropropane	ND		1.0		ug/L			10/07/16 17:24	1
1,4-Dichlorobenzene	ND		1.0		ug/L			10/07/16 17:24	1
1,4-Dioxane	ND		50		ug/L			10/07/16 17:24	1
2,2-Dichloropropane	ND		1.0		ug/L			10/07/16 17:24	1
2-Butanone (MEK)	ND		10		ug/L			10/07/16 17:24	1
2-Chlorotoluene	ND		1.0		ug/L			10/07/16 17:24	1
2-Hexanone	ND		10		ug/L			10/07/16 17:24	1
4-Chlorotoluene	ND		1.0		ug/L			10/07/16 17:24	1
4-Isopropyltoluene	ND		1.0		ug/L			10/07/16 17:24	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			10/07/16 17:24	1
Acetone	ND		50		ug/L			10/07/16 17:24	1
Benzene	ND		1.0		ug/L			10/07/16 17:24	1
Bromobenzene	ND		1.0		ug/L			10/07/16 17:24	1
Bromoform	ND		1.0		ug/L			10/07/16 17:24	1
Bromomethane	ND		2.0		ug/L			10/07/16 17:24	1
Carbon disulfide	ND		10		ug/L			10/07/16 17:24	1
Carbon tetrachloride	ND		1.0		ug/L			10/07/16 17:24	1
Chlorobenzene	ND		1.0		ug/L			10/07/16 17:24	1
Chlorobromomethane	ND		1.0		ug/L			10/07/16 17:24	1
Chlorodibromomethane	ND		0.50		ug/L			10/07/16 17:24	1
Chloroethane	ND		2.0		ug/L			10/07/16 17:24	1
Chloroform	ND		1.0		ug/L			10/07/16 17:24	1
Chloromethane	ND		2.0		ug/L			10/07/16 17:24	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			10/07/16 17:24	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			10/07/16 17:24	1
Dichlorobromomethane	ND		0.50		ug/L			10/07/16 17:24	1
Dichlorodifluoromethane	ND		1.0		ug/L			10/07/16 17:24	1
Ethyl ether	ND		1.0		ug/L			10/07/16 17:24	1
Ethylbenzene	ND		1.0		ug/L			10/07/16 17:24	1
Ethylene Dibromide	ND		1.0		ug/L			10/07/16 17:24	1
Hexachlorobutadiene	ND		0.40		ug/L			10/07/16 17:24	1
Isopropyl ether	ND		10		ug/L			10/07/16 17:24	1

TestAmerica Buffalo

Client Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-107127-1

Client Sample ID: DUP3-20161005

Lab Sample ID: 480-107127-8

Date Collected: 10/05/16 00:00

Matrix: Water

Date Received: 10/06/16 01:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	ND		1.0		ug/L			10/07/16 17:24	1
Methyl tert-butyl ether	ND		1.0		ug/L			10/07/16 17:24	1
Methylene Chloride	ND		1.0		ug/L			10/07/16 17:24	1
m-Xylene & p-Xylene	ND		2.0		ug/L			10/07/16 17:24	1
Naphthalene	ND		5.0		ug/L			10/07/16 17:24	1
n-Butylbenzene	ND		1.0		ug/L			10/07/16 17:24	1
N-Propylbenzene	ND		1.0		ug/L			10/07/16 17:24	1
o-Xylene	ND		1.0		ug/L			10/07/16 17:24	1
sec-Butylbenzene	ND		1.0		ug/L			10/07/16 17:24	1
Styrene	ND		1.0		ug/L			10/07/16 17:24	1
Tert-amyl methyl ether	ND		5.0		ug/L			10/07/16 17:24	1
Tert-butyl ethyl ether	ND		5.0		ug/L			10/07/16 17:24	1
tert-Butylbenzene	ND		1.0		ug/L			10/07/16 17:24	1
Tetrachloroethene	ND		1.0		ug/L			10/07/16 17:24	1
Tetrahydrofuran	ND		10		ug/L			10/07/16 17:24	1
Toluene	ND		1.0		ug/L			10/07/16 17:24	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			10/07/16 17:24	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			10/07/16 17:24	1
Trichloroethene	ND		1.0		ug/L			10/07/16 17:24	1
Trichlorofluoromethane	ND		1.0		ug/L			10/07/16 17:24	1
Vinyl chloride	ND		1.0		ug/L			10/07/16 17:24	1
Dibromomethane	ND		1.0		ug/L			10/07/16 17:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	88		70 - 130		10/07/16 17:24	1
1,2-Dichloroethane-d4 (Surr)	92		70 - 130		10/07/16 17:24	1
4-Bromofluorobenzene (Surr)	97		70 - 130		10/07/16 17:24	1

Client Sample ID: TRIP BLANKS

Lab Sample ID: 480-107127-9

Date Collected: 10/05/16 00:00

Matrix: Water

Date Received: 10/06/16 01:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			10/07/16 17:47	1
1,1,1-Trichloroethane	ND		1.0		ug/L			10/07/16 17:47	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			10/07/16 17:47	1
1,1,2-Trichloroethane	ND		1.0		ug/L			10/07/16 17:47	1
1,1-Dichloroethane	ND		1.0		ug/L			10/07/16 17:47	1
1,1-Dichloroethene	ND		1.0		ug/L			10/07/16 17:47	1
1,1-Dichloropropene	ND		1.0		ug/L			10/07/16 17:47	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			10/07/16 17:47	1
1,2,3-Trichloropropane	ND		1.0		ug/L			10/07/16 17:47	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			10/07/16 17:47	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			10/07/16 17:47	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			10/07/16 17:47	1
1,2-Dichlorobenzene	ND		1.0		ug/L			10/07/16 17:47	1
1,2-Dichloroethane	ND		1.0		ug/L			10/07/16 17:47	1
1,2-Dichloropropane	ND		1.0		ug/L			10/07/16 17:47	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			10/07/16 17:47	1

TestAmerica Buffalo

Client Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-107127-1

Client Sample ID: TRIP BLANKS

Lab Sample ID: 480-107127-9

Date Collected: 10/05/16 00:00

Matrix: Water

Date Received: 10/06/16 01:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	ND		1.0		ug/L			10/07/16 17:47	1
1,3-Dichloropropane	ND		1.0		ug/L			10/07/16 17:47	1
1,4-Dichlorobenzene	ND		1.0		ug/L			10/07/16 17:47	1
1,4-Dioxane	ND		50		ug/L			10/07/16 17:47	1
2,2-Dichloropropane	ND		1.0		ug/L			10/07/16 17:47	1
2-Butanone (MEK)	ND		10		ug/L			10/07/16 17:47	1
2-Chlorotoluene	ND		1.0		ug/L			10/07/16 17:47	1
2-Hexanone	ND		10		ug/L			10/07/16 17:47	1
4-Chlorotoluene	ND		1.0		ug/L			10/07/16 17:47	1
4-Isopropyltoluene	ND		1.0		ug/L			10/07/16 17:47	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			10/07/16 17:47	1
Acetone	ND		50		ug/L			10/07/16 17:47	1
Benzene	ND		1.0		ug/L			10/07/16 17:47	1
Bromobenzene	ND		1.0		ug/L			10/07/16 17:47	1
Bromoform	ND		1.0		ug/L			10/07/16 17:47	1
Bromomethane	ND		2.0		ug/L			10/07/16 17:47	1
Carbon disulfide	ND		10		ug/L			10/07/16 17:47	1
Carbon tetrachloride	ND		1.0		ug/L			10/07/16 17:47	1
Chlorobenzene	ND		1.0		ug/L			10/07/16 17:47	1
Chlorobromomethane	ND		1.0		ug/L			10/07/16 17:47	1
Chlorodibromomethane	ND		0.50		ug/L			10/07/16 17:47	1
Chloroethane	ND		2.0		ug/L			10/07/16 17:47	1
Chloroform	ND		1.0		ug/L			10/07/16 17:47	1
Chloromethane	ND		2.0		ug/L			10/07/16 17:47	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			10/07/16 17:47	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			10/07/16 17:47	1
Dichlorobromomethane	ND		0.50		ug/L			10/07/16 17:47	1
Dichlorodifluoromethane	ND		1.0		ug/L			10/07/16 17:47	1
Ethyl ether	ND		1.0		ug/L			10/07/16 17:47	1
Ethylbenzene	ND		1.0		ug/L			10/07/16 17:47	1
Ethylene Dibromide	ND		1.0		ug/L			10/07/16 17:47	1
Hexachlorobutadiene	ND		0.40		ug/L			10/07/16 17:47	1
Isopropyl ether	ND		10		ug/L			10/07/16 17:47	1
Isopropylbenzene	ND		1.0		ug/L			10/07/16 17:47	1
Methyl tert-butyl ether	ND		1.0		ug/L			10/07/16 17:47	1
Methylene Chloride	ND		1.0		ug/L			10/07/16 17:47	1
m-Xylene & p-Xylene	ND		2.0		ug/L			10/07/16 17:47	1
Naphthalene	ND		5.0		ug/L			10/07/16 17:47	1
n-Butylbenzene	ND		1.0		ug/L			10/07/16 17:47	1
N-Propylbenzene	ND		1.0		ug/L			10/07/16 17:47	1
o-Xylene	ND		1.0		ug/L			10/07/16 17:47	1
sec-Butylbenzene	ND		1.0		ug/L			10/07/16 17:47	1
Styrene	ND		1.0		ug/L			10/07/16 17:47	1
Tert-amyl methyl ether	ND		5.0		ug/L			10/07/16 17:47	1
Tert-butyl ethyl ether	ND		5.0		ug/L			10/07/16 17:47	1
tert-Butylbenzene	ND		1.0		ug/L			10/07/16 17:47	1
Tetrachloroethene	ND		1.0		ug/L			10/07/16 17:47	1
Tetrahydrofuran	ND		10		ug/L			10/07/16 17:47	1
Toluene	ND		1.0		ug/L			10/07/16 17:47	1

TestAmerica Buffalo

Client Sample Results

Client: Innovative Engineering Solutions, Inc
 Project/Site: IDS Wayland

TestAmerica Job ID: 480-107127-1

Client Sample ID: TRIP BLANKS

Lab Sample ID: 480-107127-9

Date Collected: 10/05/16 00:00

Matrix: Water

Date Received: 10/06/16 01:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	ND		1.0		ug/L			10/07/16 17:47	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			10/07/16 17:47	1
Trichloroethene	ND		1.0		ug/L			10/07/16 17:47	1
Trichlorofluoromethane	ND		1.0		ug/L			10/07/16 17:47	1
Vinyl chloride	ND		1.0		ug/L			10/07/16 17:47	1
Dibromomethane	ND		1.0		ug/L			10/07/16 17:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	90		70 - 130		10/07/16 17:47	1
1,2-Dichloroethane-d4 (Surr)	90		70 - 130		10/07/16 17:47	1
4-Bromofluorobenzene (Surr)	98		70 - 130		10/07/16 17:47	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15

Client Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-107127-1



- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15

Client Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-107127-1

Client Sample ID: MW-266Ma-20161005

Lab Sample ID: 480-107127-11

Date Collected: 10/05/16 10:25

Matrix: Water

Date Received: 10/06/16 01:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			10/07/16 18:35	1
1,1,1-Trichloroethane	ND		1.0		ug/L			10/07/16 18:35	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			10/07/16 18:35	1
1,1,2-Trichloroethane	ND		1.0		ug/L			10/07/16 18:35	1
1,1-Dichloroethane	ND		1.0		ug/L			10/07/16 18:35	1
1,1-Dichloroethene	ND		1.0		ug/L			10/07/16 18:35	1
1,1-Dichloropropene	ND		1.0		ug/L			10/07/16 18:35	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			10/07/16 18:35	1
1,2,3-Trichloropropane	ND		1.0		ug/L			10/07/16 18:35	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			10/07/16 18:35	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			10/07/16 18:35	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			10/07/16 18:35	1
1,2-Dichlorobenzene	ND		1.0		ug/L			10/07/16 18:35	1
1,2-Dichloroethane	ND		1.0		ug/L			10/07/16 18:35	1
1,2-Dichloropropane	ND		1.0		ug/L			10/07/16 18:35	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			10/07/16 18:35	1
1,3-Dichlorobenzene	ND		1.0		ug/L			10/07/16 18:35	1
1,3-Dichloropropane	ND		1.0		ug/L			10/07/16 18:35	1
1,4-Dichlorobenzene	ND		1.0		ug/L			10/07/16 18:35	1
1,4-Dioxane	ND		50		ug/L			10/07/16 18:35	1
2,2-Dichloropropane	ND		1.0		ug/L			10/07/16 18:35	1
2-Butanone (MEK)	ND		10		ug/L			10/07/16 18:35	1
2-Chlorotoluene	ND		1.0		ug/L			10/07/16 18:35	1
2-Hexanone	ND		10		ug/L			10/07/16 18:35	1
4-Chlorotoluene	ND		1.0		ug/L			10/07/16 18:35	1
4-Isopropyltoluene	ND		1.0		ug/L			10/07/16 18:35	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			10/07/16 18:35	1
Acetone	ND		50		ug/L			10/07/16 18:35	1
Benzene	ND		1.0		ug/L			10/07/16 18:35	1
Bromobenzene	ND		1.0		ug/L			10/07/16 18:35	1
Bromoform	ND		1.0		ug/L			10/07/16 18:35	1
Bromomethane	ND		2.0		ug/L			10/07/16 18:35	1
Carbon disulfide	ND		10		ug/L			10/07/16 18:35	1
Carbon tetrachloride	ND		1.0		ug/L			10/07/16 18:35	1
Chlorobenzene	ND		1.0		ug/L			10/07/16 18:35	1
Chlorobromomethane	ND		1.0		ug/L			10/07/16 18:35	1
Chlorodibromomethane	ND		0.50		ug/L			10/07/16 18:35	1
Chloroethane	ND		2.0		ug/L			10/07/16 18:35	1
Chloroform	ND		1.0		ug/L			10/07/16 18:35	1
Chloromethane	ND		2.0		ug/L			10/07/16 18:35	1
cis-1,2-Dichloroethene	4.1		1.0		ug/L			10/07/16 18:35	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			10/07/16 18:35	1
Dichlorobromomethane	ND		0.50		ug/L			10/07/16 18:35	1
Dichlorodifluoromethane	ND		1.0		ug/L			10/07/16 18:35	1
Ethyl ether	ND		1.0		ug/L			10/07/16 18:35	1
Ethylbenzene	ND		1.0		ug/L			10/07/16 18:35	1
Ethylene Dibromide	ND		1.0		ug/L			10/07/16 18:35	1
Hexachlorobutadiene	ND		0.40		ug/L			10/07/16 18:35	1
Isopropyl ether	ND		10		ug/L			10/07/16 18:35	1

TestAmerica Buffalo

Client Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-107127-1

Client Sample ID: MW-266Ma-20161005

Lab Sample ID: 480-107127-11

Date Collected: 10/05/16 10:25

Matrix: Water

Date Received: 10/06/16 01:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	ND		1.0		ug/L			10/07/16 18:35	1
Methyl tert-butyl ether	ND		1.0		ug/L			10/07/16 18:35	1
Methylene Chloride	ND		1.0		ug/L			10/07/16 18:35	1
m-Xylene & p-Xylene	2.1		2.0		ug/L			10/07/16 18:35	1
Naphthalene	ND		5.0		ug/L			10/07/16 18:35	1
n-Butylbenzene	ND		1.0		ug/L			10/07/16 18:35	1
N-Propylbenzene	ND		1.0		ug/L			10/07/16 18:35	1
o-Xylene	ND		1.0		ug/L			10/07/16 18:35	1
sec-Butylbenzene	ND		1.0		ug/L			10/07/16 18:35	1
Styrene	ND		1.0		ug/L			10/07/16 18:35	1
Tert-amyl methyl ether	ND		5.0		ug/L			10/07/16 18:35	1
Tert-butyl ethyl ether	ND		5.0		ug/L			10/07/16 18:35	1
tert-Butylbenzene	ND		1.0		ug/L			10/07/16 18:35	1
Tetrachloroethene	ND		1.0		ug/L			10/07/16 18:35	1
Tetrahydrofuran	ND		10		ug/L			10/07/16 18:35	1
Toluene	55		1.0		ug/L			10/07/16 18:35	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			10/07/16 18:35	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			10/07/16 18:35	1
Trichloroethene	ND		1.0		ug/L			10/07/16 18:35	1
Trichlorofluoromethane	ND		1.0		ug/L			10/07/16 18:35	1
Vinyl chloride	4.5		1.0		ug/L			10/07/16 18:35	1
Dibromomethane	ND		1.0		ug/L			10/07/16 18:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>Toluene-d8 (Surr)</i>	89		70 - 130		10/07/16 18:35	1
<i>1,2-Dichloroethane-d4 (Surr)</i>	91		70 - 130		10/07/16 18:35	1
<i>4-Bromofluorobenzene (Surr)</i>	98		70 - 130		10/07/16 18:35	1

Method: 522 - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	1.5		0.20		ug/L		10/12/16 19:30	10/13/16 14:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>1,4-Dioxane-d8 (Surr)</i>	82		70 - 130	10/12/16 19:30	10/13/16 14:52	1

Client Sample ID: MW-266Mb-20161005

Lab Sample ID: 480-107127-12

Date Collected: 10/05/16 09:40

Matrix: Water

Date Received: 10/06/16 01:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			10/07/16 18:59	1
1,1,1-Trichloroethane	ND		1.0		ug/L			10/07/16 18:59	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			10/07/16 18:59	1
1,1,2-Trichloroethane	ND		1.0		ug/L			10/07/16 18:59	1
1,1-Dichloroethane	ND		1.0		ug/L			10/07/16 18:59	1
1,1-Dichloroethene	ND		1.0		ug/L			10/07/16 18:59	1
1,1-Dichloropropene	ND		1.0		ug/L			10/07/16 18:59	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			10/07/16 18:59	1
1,2,3-Trichloropropane	ND		1.0		ug/L			10/07/16 18:59	1

TestAmerica Buffalo

Client Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-107127-1

Client Sample ID: MW-266Mb-20161005

Lab Sample ID: 480-107127-12

Date Collected: 10/05/16 09:40

Matrix: Water

Date Received: 10/06/16 01:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		1.0		ug/L			10/07/16 18:59	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			10/07/16 18:59	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			10/07/16 18:59	1
1,2-Dichlorobenzene	ND		1.0		ug/L			10/07/16 18:59	1
1,2-Dichloroethane	ND		1.0		ug/L			10/07/16 18:59	1
1,2-Dichloropropane	ND		1.0		ug/L			10/07/16 18:59	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			10/07/16 18:59	1
1,3-Dichlorobenzene	ND		1.0		ug/L			10/07/16 18:59	1
1,3-Dichloropropane	ND		1.0		ug/L			10/07/16 18:59	1
1,4-Dichlorobenzene	1.0		1.0		ug/L			10/07/16 18:59	1
1,4-Dioxane	ND		50		ug/L			10/07/16 18:59	1
2,2-Dichloropropane	ND		1.0		ug/L			10/07/16 18:59	1
2-Butanone (MEK)	ND		10		ug/L			10/07/16 18:59	1
2-Chlorotoluene	ND		1.0		ug/L			10/07/16 18:59	1
2-Hexanone	ND		10		ug/L			10/07/16 18:59	1
4-Chlorotoluene	ND		1.0		ug/L			10/07/16 18:59	1
4-Isopropyltoluene	ND		1.0		ug/L			10/07/16 18:59	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			10/07/16 18:59	1
Acetone	ND		50		ug/L			10/07/16 18:59	1
Benzene	ND		1.0		ug/L			10/07/16 18:59	1
Bromobenzene	ND		1.0		ug/L			10/07/16 18:59	1
Bromoform	ND		1.0		ug/L			10/07/16 18:59	1
Bromomethane	ND		2.0		ug/L			10/07/16 18:59	1
Carbon disulfide	ND		10		ug/L			10/07/16 18:59	1
Carbon tetrachloride	ND		1.0		ug/L			10/07/16 18:59	1
Chlorobenzene	ND		1.0		ug/L			10/07/16 18:59	1
Chlorobromomethane	ND		1.0		ug/L			10/07/16 18:59	1
Chlorodibromomethane	ND		0.50		ug/L			10/07/16 18:59	1
Chloroethane	ND		2.0		ug/L			10/07/16 18:59	1
Chloroform	ND		1.0		ug/L			10/07/16 18:59	1
Chloromethane	ND		2.0		ug/L			10/07/16 18:59	1
cis-1,2-Dichloroethene	5.3		1.0		ug/L			10/07/16 18:59	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			10/07/16 18:59	1
Dichlorobromomethane	ND		0.50		ug/L			10/07/16 18:59	1
Dichlorodifluoromethane	ND		1.0		ug/L			10/07/16 18:59	1
Ethyl ether	ND		1.0		ug/L			10/07/16 18:59	1
Ethylbenzene	ND		1.0		ug/L			10/07/16 18:59	1
Ethylene Dibromide	ND		1.0		ug/L			10/07/16 18:59	1
Hexachlorobutadiene	ND		0.40		ug/L			10/07/16 18:59	1
Isopropyl ether	ND		10		ug/L			10/07/16 18:59	1
Isopropylbenzene	ND		1.0		ug/L			10/07/16 18:59	1
Methyl tert-butyl ether	ND		1.0		ug/L			10/07/16 18:59	1
Methylene Chloride	ND		1.0		ug/L			10/07/16 18:59	1
m-Xylene & p-Xylene	ND		2.0		ug/L			10/07/16 18:59	1
Naphthalene	ND		5.0		ug/L			10/07/16 18:59	1
n-Butylbenzene	ND		1.0		ug/L			10/07/16 18:59	1
N-Propylbenzene	ND		1.0		ug/L			10/07/16 18:59	1
o-Xylene	ND		1.0		ug/L			10/07/16 18:59	1
sec-Butylbenzene	ND		1.0		ug/L			10/07/16 18:59	1

TestAmerica Buffalo

Client Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-107127-1

Client Sample ID: MW-266Mb-20161005

Lab Sample ID: 480-107127-12

Date Collected: 10/05/16 09:40

Matrix: Water

Date Received: 10/06/16 01:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	ND		1.0		ug/L			10/07/16 18:59	1
Tert-amyl methyl ether	ND		5.0		ug/L			10/07/16 18:59	1
Tert-butyl ethyl ether	ND		5.0		ug/L			10/07/16 18:59	1
tert-Butylbenzene	ND		1.0		ug/L			10/07/16 18:59	1
Tetrachloroethene	ND		1.0		ug/L			10/07/16 18:59	1
Tetrahydrofuran	ND		10		ug/L			10/07/16 18:59	1
Toluene	3.9		1.0		ug/L			10/07/16 18:59	1
trans-1,2-Dichloroethene	1.6		1.0		ug/L			10/07/16 18:59	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			10/07/16 18:59	1
Trichloroethene	2.9		1.0		ug/L			10/07/16 18:59	1
Trichlorofluoromethane	ND		1.0		ug/L			10/07/16 18:59	1
Vinyl chloride	23		1.0		ug/L			10/07/16 18:59	1
Dibromomethane	ND		1.0		ug/L			10/07/16 18:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>Toluene-d8 (Surr)</i>	87		70 - 130					10/07/16 18:59	1
<i>1,2-Dichloroethane-d4 (Surr)</i>	88		70 - 130					10/07/16 18:59	1
<i>4-Bromofluorobenzene (Surr)</i>	96		70 - 130					10/07/16 18:59	1

Client Sample ID: MW-560-20161005

Lab Sample ID: 480-107127-13

Date Collected: 10/05/16 13:00

Matrix: Water

Date Received: 10/06/16 01:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			10/08/16 02:01	1
1,1,1-Trichloroethane	ND		1.0		ug/L			10/08/16 02:01	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			10/08/16 02:01	1
1,1,2-Trichloroethane	ND		1.0		ug/L			10/08/16 02:01	1
1,1-Dichloroethane	ND		1.0		ug/L			10/08/16 02:01	1
1,1-Dichloroethene	ND		1.0		ug/L			10/08/16 02:01	1
1,1-Dichloropropene	ND		1.0		ug/L			10/08/16 02:01	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			10/08/16 02:01	1
1,2,3-Trichloropropane	ND		1.0		ug/L			10/08/16 02:01	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			10/08/16 02:01	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			10/08/16 02:01	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			10/08/16 02:01	1
1,2-Dichlorobenzene	ND		1.0		ug/L			10/08/16 02:01	1
1,2-Dichloroethane	ND		1.0		ug/L			10/08/16 02:01	1
1,2-Dichloropropane	ND		1.0		ug/L			10/08/16 02:01	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			10/08/16 02:01	1
1,3-Dichlorobenzene	ND		1.0		ug/L			10/08/16 02:01	1
1,3-Dichloropropane	ND		1.0		ug/L			10/08/16 02:01	1
1,4-Dichlorobenzene	ND		1.0		ug/L			10/08/16 02:01	1
1,4-Dioxane	ND *		50		ug/L			10/08/16 02:01	1
2,2-Dichloropropane	ND		1.0		ug/L			10/08/16 02:01	1
2-Butanone (MEK)	22		10		ug/L			10/08/16 02:01	1
2-Chlorotoluene	ND		1.0		ug/L			10/08/16 02:01	1
2-Hexanone	ND		10		ug/L			10/08/16 02:01	1
4-Chlorotoluene	ND		1.0		ug/L			10/08/16 02:01	1

TestAmerica Buffalo

Client Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-107127-1

Client Sample ID: MW-560-20161005

Lab Sample ID: 480-107127-13

Date Collected: 10/05/16 13:00

Matrix: Water

Date Received: 10/06/16 01:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Isopropyltoluene	ND		1.0		ug/L			10/08/16 02:01	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			10/08/16 02:01	1
Acetone	ND		50		ug/L			10/08/16 02:01	1
Benzene	ND		1.0		ug/L			10/08/16 02:01	1
Bromobenzene	ND		1.0		ug/L			10/08/16 02:01	1
Bromoform	ND		1.0		ug/L			10/08/16 02:01	1
Bromomethane	ND		2.0		ug/L			10/08/16 02:01	1
Carbon disulfide	ND		10		ug/L			10/08/16 02:01	1
Carbon tetrachloride	ND		1.0		ug/L			10/08/16 02:01	1
Chlorobenzene	ND		1.0		ug/L			10/08/16 02:01	1
Chlorobromomethane	ND		1.0		ug/L			10/08/16 02:01	1
Chlorodibromomethane	ND		0.50		ug/L			10/08/16 02:01	1
Chloroethane	ND		2.0		ug/L			10/08/16 02:01	1
Chloroform	ND		1.0		ug/L			10/08/16 02:01	1
Chloromethane	ND		2.0		ug/L			10/08/16 02:01	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			10/08/16 02:01	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			10/08/16 02:01	1
Dichlorobromomethane	ND		0.50		ug/L			10/08/16 02:01	1
Dichlorodifluoromethane	ND		1.0		ug/L			10/08/16 02:01	1
Ethyl ether	ND		1.0		ug/L			10/08/16 02:01	1
Ethylbenzene	ND		1.0		ug/L			10/08/16 02:01	1
Ethylene Dibromide	ND		1.0		ug/L			10/08/16 02:01	1
Hexachlorobutadiene	ND		0.40		ug/L			10/08/16 02:01	1
Isopropyl ether	ND		10		ug/L			10/08/16 02:01	1
Isopropylbenzene	ND		1.0		ug/L			10/08/16 02:01	1
Methyl tert-butyl ether	ND		1.0		ug/L			10/08/16 02:01	1
Methylene Chloride	ND		1.0		ug/L			10/08/16 02:01	1
m-Xylene & p-Xylene	2.7		2.0		ug/L			10/08/16 02:01	1
Naphthalene	ND		5.0		ug/L			10/08/16 02:01	1
n-Butylbenzene	ND		1.0		ug/L			10/08/16 02:01	1
N-Propylbenzene	ND		1.0		ug/L			10/08/16 02:01	1
o-Xylene	ND		1.0		ug/L			10/08/16 02:01	1
sec-Butylbenzene	ND		1.0		ug/L			10/08/16 02:01	1
Styrene	ND		1.0		ug/L			10/08/16 02:01	1
Tert-amyl methyl ether	ND		5.0		ug/L			10/08/16 02:01	1
Tert-butyl ethyl ether	ND		5.0		ug/L			10/08/16 02:01	1
tert-Butylbenzene	ND		1.0		ug/L			10/08/16 02:01	1
Tetrachloroethene	ND		1.0		ug/L			10/08/16 02:01	1
Tetrahydrofuran	ND		10		ug/L			10/08/16 02:01	1
Toluene	11		1.0		ug/L			10/08/16 02:01	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			10/08/16 02:01	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			10/08/16 02:01	1
Trichloroethene	ND		1.0		ug/L			10/08/16 02:01	1
Trichlorofluoromethane	ND		1.0		ug/L			10/08/16 02:01	1
Vinyl chloride	1.2		1.0		ug/L			10/08/16 02:01	1
Dibromomethane	ND		1.0		ug/L			10/08/16 02:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	91		70 - 130		10/08/16 02:01	1
1,2-Dichloroethane-d4 (Surr)	88		70 - 130		10/08/16 02:01	1

TestAmerica Buffalo

Client Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-107127-1

Client Sample ID: MW-560-20161005

Lab Sample ID: 480-107127-13

Date Collected: 10/05/16 13:00

Matrix: Water

Date Received: 10/06/16 01:45

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130		10/08/16 02:01	1

Method: 6010 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	110		0.050		mg/L		10/07/16 09:30	10/08/16 12:14	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	34		2.5		mg/L			10/07/16 10:25	5
Sulfate	ND		2.0		mg/L			10/10/16 14:12	1
Ammonia	ND		0.20		mg/L		10/09/16 13:43	10/09/16 14:24	1
Nitrate as N	ND		0.050		mg/L			10/06/16 14:38	1
TOC Result 1	5.3		1.0		mg/L			10/08/16 03:43	1
TOC Result 2	6.3		1.0		mg/L			10/08/16 03:43	1
Total Organic Carbon - Duplicates	5.8		1.0		mg/L			10/08/16 03:43	1
Alkalinity, Total	520		5.0		mg/L			10/06/16 19:38	1
ortho-Phosphate	ND		0.020		mg/L			10/06/16 14:30	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.9	HF	0.1		SU			10/06/16 18:57	1

Client Sample ID: MW-561-20161005

Lab Sample ID: 480-107127-14

Date Collected: 10/05/16 12:00

Matrix: Water

Date Received: 10/06/16 01:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			10/10/16 00:47	1
1,1,1-Trichloroethane	ND		1.0		ug/L			10/10/16 00:47	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			10/10/16 00:47	1
1,1,2-Trichloroethane	ND		1.0		ug/L			10/10/16 00:47	1
1,1-Dichloroethane	ND		1.0		ug/L			10/10/16 00:47	1
1,1-Dichloroethene	ND		1.0		ug/L			10/10/16 00:47	1
1,1-Dichloropropene	ND		1.0		ug/L			10/10/16 00:47	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			10/10/16 00:47	1
1,2,3-Trichloropropane	ND		1.0		ug/L			10/10/16 00:47	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			10/10/16 00:47	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			10/10/16 00:47	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			10/10/16 00:47	1
1,2-Dichlorobenzene	ND		1.0		ug/L			10/10/16 00:47	1
1,2-Dichloroethane	ND		1.0		ug/L			10/10/16 00:47	1
1,2-Dichloropropane	ND		1.0		ug/L			10/10/16 00:47	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			10/10/16 00:47	1
1,3-Dichlorobenzene	ND		1.0		ug/L			10/10/16 00:47	1
1,3-Dichloropropane	ND		1.0		ug/L			10/10/16 00:47	1
1,4-Dichlorobenzene	ND		1.0		ug/L			10/10/16 00:47	1
1,4-Dioxane	ND *		50		ug/L			10/10/16 00:47	1
2,2-Dichloropropane	ND		1.0		ug/L			10/10/16 00:47	1
2-Butanone (MEK)	ND		10		ug/L			10/10/16 00:47	1
2-Chlorotoluene	ND		1.0		ug/L			10/10/16 00:47	1

TestAmerica Buffalo

Client Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-107127-1

Client Sample ID: MW-561-20161005

Lab Sample ID: 480-107127-14

Date Collected: 10/05/16 12:00

Matrix: Water

Date Received: 10/06/16 01:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND		10		ug/L			10/10/16 00:47	1
4-Chlorotoluene	ND		1.0		ug/L			10/10/16 00:47	1
4-Isopropyltoluene	ND		1.0		ug/L			10/10/16 00:47	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			10/10/16 00:47	1
Acetone	ND		50		ug/L			10/10/16 00:47	1
Benzene	ND		1.0		ug/L			10/10/16 00:47	1
Bromobenzene	ND		1.0		ug/L			10/10/16 00:47	1
Bromoform	ND		1.0		ug/L			10/10/16 00:47	1
Bromomethane	ND		2.0		ug/L			10/10/16 00:47	1
Carbon disulfide	ND		10		ug/L			10/10/16 00:47	1
Carbon tetrachloride	ND		1.0		ug/L			10/10/16 00:47	1
Chlorobenzene	ND		1.0		ug/L			10/10/16 00:47	1
Chlorobromomethane	ND		1.0		ug/L			10/10/16 00:47	1
Chlorodibromomethane	ND		0.50		ug/L			10/10/16 00:47	1
Chloroethane	ND		2.0		ug/L			10/10/16 00:47	1
Chloroform	ND		1.0		ug/L			10/10/16 00:47	1
Chloromethane	ND		2.0		ug/L			10/10/16 00:47	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			10/10/16 00:47	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			10/10/16 00:47	1
Dichlorobromomethane	ND		0.50		ug/L			10/10/16 00:47	1
Dichlorodifluoromethane	ND		1.0		ug/L			10/10/16 00:47	1
Ethyl ether	ND		1.0		ug/L			10/10/16 00:47	1
Ethylbenzene	ND		1.0		ug/L			10/10/16 00:47	1
Ethylene Dibromide	ND		1.0		ug/L			10/10/16 00:47	1
Hexachlorobutadiene	ND		0.40		ug/L			10/10/16 00:47	1
Isopropyl ether	ND		10		ug/L			10/10/16 00:47	1
Isopropylbenzene	ND		1.0		ug/L			10/10/16 00:47	1
Methyl tert-butyl ether	ND		1.0		ug/L			10/10/16 00:47	1
Methylene Chloride	ND		1.0		ug/L			10/10/16 00:47	1
m-Xylene & p-Xylene	2.5		2.0		ug/L			10/10/16 00:47	1
Naphthalene	ND		5.0		ug/L			10/10/16 00:47	1
n-Butylbenzene	ND		1.0		ug/L			10/10/16 00:47	1
N-Propylbenzene	ND		1.0		ug/L			10/10/16 00:47	1
o-Xylene	ND		1.0		ug/L			10/10/16 00:47	1
sec-Butylbenzene	ND		1.0		ug/L			10/10/16 00:47	1
Styrene	ND		1.0		ug/L			10/10/16 00:47	1
Tert-amyl methyl ether	ND		5.0		ug/L			10/10/16 00:47	1
Tert-butyl ethyl ether	ND		5.0		ug/L			10/10/16 00:47	1
tert-Butylbenzene	ND		1.0		ug/L			10/10/16 00:47	1
Tetrachloroethene	ND		1.0		ug/L			10/10/16 00:47	1
Tetrahydrofuran	ND		10		ug/L			10/10/16 00:47	1
Toluene	ND		1.0		ug/L			10/10/16 00:47	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			10/10/16 00:47	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			10/10/16 00:47	1
Trichloroethene	ND		1.0		ug/L			10/10/16 00:47	1
Trichlorofluoromethane	ND		1.0		ug/L			10/10/16 00:47	1
Vinyl chloride	ND		1.0		ug/L			10/10/16 00:47	1
Dibromomethane	ND		1.0		ug/L			10/10/16 00:47	1

TestAmerica Buffalo

Client Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-107127-1

Client Sample ID: MW-561-20161005

Lab Sample ID: 480-107127-14

Date Collected: 10/05/16 12:00

Matrix: Water

Date Received: 10/06/16 01:45

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	86		70 - 130		10/10/16 00:47	1
1,2-Dichloroethane-d4 (Surr)	83		70 - 130		10/10/16 00:47	1
4-Bromofluorobenzene (Surr)	98		70 - 130		10/10/16 00:47	1

Method: 6010 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	110		0.050		mg/L		10/07/16 09:30	10/08/16 12:18	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	43		2.5		mg/L			10/07/16 10:33	5
Sulfate	ND		2.0		mg/L			10/10/16 14:20	1
Ammonia	3.9		1.0		mg/L		10/09/16 13:43	10/09/16 14:33	5
Nitrate as N	ND		0.050		mg/L			10/06/16 14:40	1
TOC Result 1	8.1		1.0		mg/L			10/08/16 06:03	1
TOC Result 2	9.1		1.0		mg/L			10/08/16 06:03	1
Total Organic Carbon - Duplicates	8.6		1.0		mg/L			10/08/16 06:03	1
Alkalinity, Total	370		5.0		mg/L			10/06/16 19:46	1
ortho-Phosphate	ND		0.020		mg/L			10/06/16 14:30	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.7	HF	0.1		SU			10/06/16 18:59	1

Client Sample ID: MW-563-20161005

Lab Sample ID: 480-107127-15

Date Collected: 10/05/16 13:55

Matrix: Water

Date Received: 10/06/16 01:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			10/08/16 02:49	1
1,1,1-Trichloroethane	ND		1.0		ug/L			10/08/16 02:49	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			10/08/16 02:49	1
1,1,2-Trichloroethane	ND		1.0		ug/L			10/08/16 02:49	1
1,1-Dichloroethane	ND		1.0		ug/L			10/08/16 02:49	1
1,1-Dichloroethene	ND		1.0		ug/L			10/08/16 02:49	1
1,1-Dichloropropene	ND		1.0		ug/L			10/08/16 02:49	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			10/08/16 02:49	1
1,2,3-Trichloropropane	ND		1.0		ug/L			10/08/16 02:49	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			10/08/16 02:49	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			10/08/16 02:49	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			10/08/16 02:49	1
1,2-Dichlorobenzene	ND		1.0		ug/L			10/08/16 02:49	1
1,2-Dichloroethane	ND		1.0		ug/L			10/08/16 02:49	1
1,2-Dichloropropane	ND		1.0		ug/L			10/08/16 02:49	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			10/08/16 02:49	1
1,3-Dichlorobenzene	ND		1.0		ug/L			10/08/16 02:49	1
1,3-Dichloropropane	ND		1.0		ug/L			10/08/16 02:49	1
1,4-Dichlorobenzene	ND		1.0		ug/L			10/08/16 02:49	1
1,4-Dioxane	ND *		50		ug/L			10/08/16 02:49	1
2,2-Dichloropropane	ND		1.0		ug/L			10/08/16 02:49	1
2-Butanone (MEK)	ND		10		ug/L			10/08/16 02:49	1

TestAmerica Buffalo

Client Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-107127-1

Client Sample ID: MW-563-20161005

Lab Sample ID: 480-107127-15

Date Collected: 10/05/16 13:55

Matrix: Water

Date Received: 10/06/16 01:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chlorotoluene	ND		1.0		ug/L			10/08/16 02:49	1
2-Hexanone	ND		10		ug/L			10/08/16 02:49	1
4-Chlorotoluene	ND		1.0		ug/L			10/08/16 02:49	1
4-Isopropyltoluene	ND		1.0		ug/L			10/08/16 02:49	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			10/08/16 02:49	1
Acetone	ND		50		ug/L			10/08/16 02:49	1
Benzene	ND		1.0		ug/L			10/08/16 02:49	1
Bromobenzene	ND		1.0		ug/L			10/08/16 02:49	1
Bromoform	ND		1.0		ug/L			10/08/16 02:49	1
Bromomethane	ND		2.0		ug/L			10/08/16 02:49	1
Carbon disulfide	ND		10		ug/L			10/08/16 02:49	1
Carbon tetrachloride	ND		1.0		ug/L			10/08/16 02:49	1
Chlorobenzene	ND		1.0		ug/L			10/08/16 02:49	1
Chlorobromomethane	ND		1.0		ug/L			10/08/16 02:49	1
Chlorodibromomethane	ND		0.50		ug/L			10/08/16 02:49	1
Chloroethane	ND		2.0		ug/L			10/08/16 02:49	1
Chloroform	ND		1.0		ug/L			10/08/16 02:49	1
Chloromethane	ND		2.0		ug/L			10/08/16 02:49	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			10/08/16 02:49	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			10/08/16 02:49	1
Dichlorobromomethane	ND		0.50		ug/L			10/08/16 02:49	1
Dichlorodifluoromethane	ND		1.0		ug/L			10/08/16 02:49	1
Ethyl ether	ND		1.0		ug/L			10/08/16 02:49	1
Ethylbenzene	ND		1.0		ug/L			10/08/16 02:49	1
Ethylene Dibromide	ND		1.0		ug/L			10/08/16 02:49	1
Hexachlorobutadiene	ND		0.40		ug/L			10/08/16 02:49	1
Isopropyl ether	ND		10		ug/L			10/08/16 02:49	1
Isopropylbenzene	ND		1.0		ug/L			10/08/16 02:49	1
Methyl tert-butyl ether	ND		1.0		ug/L			10/08/16 02:49	1
Methylene Chloride	ND		1.0		ug/L			10/08/16 02:49	1
m-Xylene & p-Xylene	ND		2.0		ug/L			10/08/16 02:49	1
Naphthalene	ND		5.0		ug/L			10/08/16 02:49	1
n-Butylbenzene	ND		1.0		ug/L			10/08/16 02:49	1
N-Propylbenzene	ND		1.0		ug/L			10/08/16 02:49	1
o-Xylene	ND		1.0		ug/L			10/08/16 02:49	1
sec-Butylbenzene	ND		1.0		ug/L			10/08/16 02:49	1
Styrene	ND		1.0		ug/L			10/08/16 02:49	1
Tert-amyl methyl ether	ND		5.0		ug/L			10/08/16 02:49	1
Tert-butyl ethyl ether	ND		5.0		ug/L			10/08/16 02:49	1
tert-Butylbenzene	ND		1.0		ug/L			10/08/16 02:49	1
Tetrachloroethene	ND		1.0		ug/L			10/08/16 02:49	1
Tetrahydrofuran	ND		10		ug/L			10/08/16 02:49	1
Toluene	ND		1.0		ug/L			10/08/16 02:49	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			10/08/16 02:49	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			10/08/16 02:49	1
Trichloroethene	ND		1.0		ug/L			10/08/16 02:49	1
Trichlorofluoromethane	ND		1.0		ug/L			10/08/16 02:49	1
Vinyl chloride	ND		1.0		ug/L			10/08/16 02:49	1
Dibromomethane	ND		1.0		ug/L			10/08/16 02:49	1

TestAmerica Buffalo

Client Sample Results

Client: Innovative Engineering Solutions, Inc
 Project/Site: IDS Wayland

TestAmerica Job ID: 480-107127-1

Client Sample ID: MW-563-20161005

Lab Sample ID: 480-107127-15

Date Collected: 10/05/16 13:55

Matrix: Water

Date Received: 10/06/16 01:45

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	87		70 - 130		10/08/16 02:49	1
1,2-Dichloroethane-d4 (Surr)	89		70 - 130		10/08/16 02:49	1
4-Bromofluorobenzene (Surr)	98		70 - 130		10/08/16 02:49	1

Method: 6010 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	58		0.050		mg/L		10/07/16 09:30	10/08/16 12:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	42		2.5		mg/L			10/07/16 10:42	5
Sulfate	ND		2.0		mg/L			10/10/16 14:28	1
Ammonia	1.3		0.20		mg/L		10/09/16 13:43	10/09/16 14:25	1
Nitrate as N	ND		0.050		mg/L			10/06/16 14:41	1
TOC Result 1	1.6		1.0		mg/L			10/12/16 01:09	1
TOC Result 2	1.7		1.0		mg/L			10/12/16 01:09	1
Total Organic Carbon - Duplicates	1.6		1.0		mg/L			10/12/16 01:09	1
Alkalinity, Total	230		5.0		mg/L			10/06/16 19:52	1
ortho-Phosphate	ND		0.020		mg/L			10/06/16 14:30	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.6	HF	0.1		SU			10/06/16 19:02	1

Surrogate Summary

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-107127-1

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		TOL (70-130)	12DCE (70-130)	BFB (70-130)
480-107127-1	MW-269Ma-20161005	89	85	97
480-107127-2	REW-7-20161005	88	88	98
480-107127-3	REW-8-20161005	90	83	97
480-107127-4	REW-9-20161005	88	85	98
480-107127-5	REW-10-20161005	89	87	98
480-107127-6	REW-11-20161005	87	86	95
480-107127-7	REW-12-20161005	90	93	100
480-107127-8	DUP3-20161005	88	92	97
480-107127-9	TRIP BLANKS	90	90	98
480-107127-10	MW-264M-20161005	88	88	100
480-107127-11	MW-266Ma-20161005	89	91	98
480-107127-12	MW-266Mb-20161005	87	88	96
480-107127-13	MW-560-20161005	91	88	100
480-107127-14	MW-561-20161005	86	83	98
480-107127-15	MW-563-20161005	87	89	98
LCS 480-324317/6	Lab Control Sample	87	82	100
LCS 480-324456/5	Lab Control Sample	88	82	100
LCS 480-324621/5	Lab Control Sample	86	79	103
LCSD 480-324317/7	Lab Control Sample Dup	89	81	101
LCSD 480-324456/6	Lab Control Sample Dup	87	82	97
LCSD 480-324621/6	Lab Control Sample Dup	84	83	99
MB 480-324317/9	Method Blank	91	90	98
MB 480-324456/8	Method Blank	88	86	96
MB 480-324621/8	Method Blank	88	84	98

Surrogate Legend

TOL = Toluene-d8 (Surr)
12DCE = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)

Method: 522 - 1,4 Dioxane (GC/MS SIM)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)
		14DD8 (70-130)
480-107127-1	MW-269Ma-20161005	73
480-107127-11	MW-266Ma-20161005	82
LCS 200-110109/2-A	Lab Control Sample	78
MB 200-110109/1-A	Method Blank	71

Surrogate Legend

14DD8 = 1,4-Dioxane-d8 (Surr)

QC Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-107127-1

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

Lab Sample ID: MB 480-324317/9

Matrix: Water

Analysis Batch: 324317

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			10/07/16 12:14	1
1,1,1-Trichloroethane	ND		1.0		ug/L			10/07/16 12:14	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			10/07/16 12:14	1
1,1,2-Trichloroethane	ND		1.0		ug/L			10/07/16 12:14	1
1,1-Dichloroethane	ND		1.0		ug/L			10/07/16 12:14	1
1,1-Dichloroethene	ND		1.0		ug/L			10/07/16 12:14	1
1,1-Dichloropropene	ND		1.0		ug/L			10/07/16 12:14	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			10/07/16 12:14	1
1,2,3-Trichloropropane	ND		1.0		ug/L			10/07/16 12:14	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			10/07/16 12:14	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			10/07/16 12:14	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			10/07/16 12:14	1
1,2-Dichlorobenzene	ND		1.0		ug/L			10/07/16 12:14	1
1,2-Dichloroethane	ND		1.0		ug/L			10/07/16 12:14	1
1,2-Dichloropropane	ND		1.0		ug/L			10/07/16 12:14	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			10/07/16 12:14	1
1,3-Dichlorobenzene	ND		1.0		ug/L			10/07/16 12:14	1
1,3-Dichloropropane	ND		1.0		ug/L			10/07/16 12:14	1
1,4-Dichlorobenzene	ND		1.0		ug/L			10/07/16 12:14	1
1,4-Dioxane	ND		50		ug/L			10/07/16 12:14	1
2,2-Dichloropropane	ND		1.0		ug/L			10/07/16 12:14	1
2-Butanone (MEK)	ND		10		ug/L			10/07/16 12:14	1
2-Chlorotoluene	ND		1.0		ug/L			10/07/16 12:14	1
2-Hexanone	ND		10		ug/L			10/07/16 12:14	1
4-Chlorotoluene	ND		1.0		ug/L			10/07/16 12:14	1
4-Isopropyltoluene	ND		1.0		ug/L			10/07/16 12:14	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			10/07/16 12:14	1
Acetone	ND		50		ug/L			10/07/16 12:14	1
Benzene	ND		1.0		ug/L			10/07/16 12:14	1
Bromobenzene	ND		1.0		ug/L			10/07/16 12:14	1
Bromoform	ND		1.0		ug/L			10/07/16 12:14	1
Bromomethane	ND		2.0		ug/L			10/07/16 12:14	1
Carbon disulfide	ND		10		ug/L			10/07/16 12:14	1
Carbon tetrachloride	ND		1.0		ug/L			10/07/16 12:14	1
Chlorobenzene	ND		1.0		ug/L			10/07/16 12:14	1
Chlorobromomethane	ND		1.0		ug/L			10/07/16 12:14	1
Chlorodibromomethane	ND		0.50		ug/L			10/07/16 12:14	1
Chloroethane	ND		2.0		ug/L			10/07/16 12:14	1
Chloroform	ND		1.0		ug/L			10/07/16 12:14	1
Chloromethane	ND		2.0		ug/L			10/07/16 12:14	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			10/07/16 12:14	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			10/07/16 12:14	1
Dichlorobromomethane	ND		0.50		ug/L			10/07/16 12:14	1
Dichlorodifluoromethane	ND		1.0		ug/L			10/07/16 12:14	1
Ethyl ether	ND		1.0		ug/L			10/07/16 12:14	1
Ethylbenzene	ND		1.0		ug/L			10/07/16 12:14	1
Ethylene Dibromide	ND		1.0		ug/L			10/07/16 12:14	1
Hexachlorobutadiene	ND		0.40		ug/L			10/07/16 12:14	1

TestAmerica Buffalo

QC Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-107127-1

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

Lab Sample ID: MB 480-324317/9
Matrix: Water
Analysis Batch: 324317

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropyl ether	ND		10		ug/L			10/07/16 12:14	1
Isopropylbenzene	ND		1.0		ug/L			10/07/16 12:14	1
Methyl tert-butyl ether	ND		1.0		ug/L			10/07/16 12:14	1
Methylene Chloride	ND		1.0		ug/L			10/07/16 12:14	1
m-Xylene & p-Xylene	ND		2.0		ug/L			10/07/16 12:14	1
Naphthalene	ND		5.0		ug/L			10/07/16 12:14	1
n-Butylbenzene	ND		1.0		ug/L			10/07/16 12:14	1
N-Propylbenzene	ND		1.0		ug/L			10/07/16 12:14	1
o-Xylene	ND		1.0		ug/L			10/07/16 12:14	1
sec-Butylbenzene	ND		1.0		ug/L			10/07/16 12:14	1
Styrene	ND		1.0		ug/L			10/07/16 12:14	1
Tert-amyl methyl ether	ND		5.0		ug/L			10/07/16 12:14	1
Tert-butyl ethyl ether	ND		5.0		ug/L			10/07/16 12:14	1
tert-Butylbenzene	ND		1.0		ug/L			10/07/16 12:14	1
Tetrachloroethene	ND		1.0		ug/L			10/07/16 12:14	1
Tetrahydrofuran	ND		10		ug/L			10/07/16 12:14	1
Toluene	ND		1.0		ug/L			10/07/16 12:14	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			10/07/16 12:14	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			10/07/16 12:14	1
Trichloroethene	ND		1.0		ug/L			10/07/16 12:14	1
Trichlorofluoromethane	ND		1.0		ug/L			10/07/16 12:14	1
Vinyl chloride	ND		1.0		ug/L			10/07/16 12:14	1
Dibromomethane	ND		1.0		ug/L			10/07/16 12:14	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	91		70 - 130		10/07/16 12:14	1
1,2-Dichloroethane-d4 (Surr)	90		70 - 130		10/07/16 12:14	1
4-Bromofluorobenzene (Surr)	98		70 - 130		10/07/16 12:14	1

Lab Sample ID: LCS 480-324317/6
Matrix: Water
Analysis Batch: 324317

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	25.0	24.1		ug/L		96	70 - 130
1,1,1-Trichloroethane	25.0	25.5		ug/L		102	70 - 130
1,1,2,2-Tetrachloroethane	25.0	21.5		ug/L		86	70 - 130
1,1,2-Trichloroethane	25.0	22.4		ug/L		90	70 - 130
1,1-Dichloroethane	25.0	24.8		ug/L		99	70 - 130
1,1-Dichloroethene	25.0	24.5		ug/L		98	70 - 130
1,1-Dichloropropene	25.0	24.3		ug/L		97	70 - 130
1,2,3-Trichlorobenzene	25.0	21.3		ug/L		85	70 - 130
1,2,3-Trichloropropane	25.0	19.9		ug/L		80	70 - 130
1,2,4-Trichlorobenzene	25.0	22.9		ug/L		92	70 - 130
1,2,4-Trimethylbenzene	25.0	23.9		ug/L		96	70 - 130
1,2-Dibromo-3-Chloropropane	25.0	21.1		ug/L		84	70 - 130
1,2-Dichlorobenzene	25.0	22.8		ug/L		91	70 - 130
1,2-Dichloroethane	25.0	22.1		ug/L		89	70 - 130

TestAmerica Buffalo

QC Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-107127-1

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

Lab Sample ID: LCS 480-324317/6

Matrix: Water

Analysis Batch: 324317

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichloropropane	25.0	23.9		ug/L		96	70 - 130
1,3,5-Trimethylbenzene	25.0	24.6		ug/L		98	70 - 130
1,3-Dichlorobenzene	25.0	24.0		ug/L		96	70 - 130
1,3-Dichloropropane	25.0	20.6		ug/L		82	70 - 130
1,4-Dichlorobenzene	25.0	23.8		ug/L		95	70 - 130
1,4-Dioxane	500	363		ug/L		73	70 - 130
2,2-Dichloropropane	25.0	24.3		ug/L		97	70 - 130
2-Butanone (MEK)	125	104		ug/L		84	70 - 130
2-Chlorotoluene	25.0	23.6		ug/L		95	70 - 130
2-Hexanone	125	105		ug/L		84	70 - 130
4-Chlorotoluene	25.0	25.7		ug/L		103	70 - 130
4-Isopropyltoluene	25.0	25.4		ug/L		102	70 - 130
4-Methyl-2-pentanone (MIBK)	125	99.2		ug/L		79	70 - 130
Acetone	125	109		ug/L		88	70 - 130
Benzene	25.0	24.0		ug/L		96	70 - 130
Bromobenzene	25.0	23.5		ug/L		94	70 - 130
Bromoform	25.0	22.9		ug/L		91	70 - 130
Bromomethane	25.0	24.2		ug/L		97	70 - 130
Carbon disulfide	25.0	24.8		ug/L		99	70 - 130
Carbon tetrachloride	25.0	25.1		ug/L		101	70 - 130
Chlorobenzene	25.0	23.8		ug/L		95	70 - 130
Chlorobromomethane	25.0	24.4		ug/L		98	70 - 130
Chlorodibromomethane	25.0	24.4		ug/L		97	70 - 130
Chloroethane	25.0	26.5		ug/L		106	70 - 130
Chloroform	25.0	23.5		ug/L		94	70 - 130
Chloromethane	25.0	24.7		ug/L		99	70 - 130
cis-1,2-Dichloroethene	25.0	24.9		ug/L		99	70 - 130
cis-1,3-Dichloropropene	25.0	24.7		ug/L		99	70 - 130
Dichlorobromomethane	25.0	24.3		ug/L		97	70 - 130
Dichlorodifluoromethane	25.0	25.4		ug/L		101	70 - 130
Ethyl ether	25.0	21.8		ug/L		87	70 - 130
Ethylbenzene	25.0	23.7		ug/L		95	70 - 130
Ethylene Dibromide	25.0	21.8		ug/L		87	70 - 130
Hexachlorobutadiene	25.0	24.5		ug/L		98	70 - 130
Isopropyl ether	25.0	23.4		ug/L		93	70 - 130
Isopropylbenzene	25.0	23.7		ug/L		95	70 - 130
Methyl tert-butyl ether	25.0	21.7		ug/L		87	70 - 130
Methylene Chloride	25.0	26.8		ug/L		107	70 - 130
m-Xylene & p-Xylene	25.0	23.3		ug/L		93	70 - 130
Naphthalene	25.0	20.1		ug/L		80	70 - 130
n-Butylbenzene	25.0	24.5		ug/L		98	70 - 130
N-Propylbenzene	25.0	24.1		ug/L		97	70 - 130
o-Xylene	25.0	24.0		ug/L		96	70 - 130
sec-Butylbenzene	25.0	24.1		ug/L		96	70 - 130
Styrene	25.0	24.9		ug/L		100	70 - 130
Tert-amyl methyl ether	25.0	22.8		ug/L		91	70 - 130
Tert-butyl ethyl ether	25.0	23.0		ug/L		92	70 - 130
tert-Butylbenzene	25.0	24.7		ug/L		99	70 - 130

TestAmerica Buffalo

QC Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-107127-1

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

Lab Sample ID: LCS 480-324317/6

Matrix: Water

Analysis Batch: 324317

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Tetrachloroethene	25.0	26.1		ug/L		105	70 - 130
Tetrahydrofuran	50.0	54.5		ug/L		109	70 - 130
Toluene	25.0	23.2		ug/L		93	70 - 130
trans-1,2-Dichloroethene	25.0	25.1		ug/L		100	70 - 130
trans-1,3-Dichloropropene	25.0	22.4		ug/L		90	70 - 130
Trichloroethene	25.0	24.8		ug/L		99	70 - 130
Trichlorofluoromethane	25.0	28.6		ug/L		114	70 - 130
Vinyl chloride	25.0	25.4		ug/L		101	70 - 130
Dibromomethane	25.0	23.4		ug/L		93	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Toluene-d8 (Surr)	87		70 - 130
1,2-Dichloroethane-d4 (Surr)	82		70 - 130
4-Bromofluorobenzene (Surr)	100		70 - 130

Lab Sample ID: LCSD 480-324317/7

Matrix: Water

Analysis Batch: 324317

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	25.0	25.1		ug/L		100	70 - 130	4	20
1,1,1-Trichloroethane	25.0	24.1		ug/L		97	70 - 130	5	20
1,1,1,2,2-Tetrachloroethane	25.0	22.0		ug/L		88	70 - 130	2	20
1,1,1,2-Trichloroethane	25.0	22.4		ug/L		90	70 - 130	0	20
1,1-Dichloroethane	25.0	23.3		ug/L		93	70 - 130	6	20
1,1-Dichloroethene	25.0	22.6		ug/L		90	70 - 130	8	20
1,1-Dichloropropene	25.0	22.8		ug/L		91	70 - 130	6	20
1,2,3-Trichlorobenzene	25.0	22.1		ug/L		88	70 - 130	3	20
1,2,3-Trichloropropane	25.0	21.1		ug/L		85	70 - 130	6	20
1,2,4-Trichlorobenzene	25.0	23.1		ug/L		92	70 - 130	1	20
1,2,4-Trimethylbenzene	25.0	24.7		ug/L		99	70 - 130	3	20
1,2-Dibromo-3-Chloropropane	25.0	21.6		ug/L		87	70 - 130	2	20
1,2-Dichlorobenzene	25.0	24.1		ug/L		96	70 - 130	5	20
1,2-Dichloroethane	25.0	22.0		ug/L		88	70 - 130	1	20
1,2-Dichloropropane	25.0	23.1		ug/L		92	70 - 130	3	20
1,3,5-Trimethylbenzene	25.0	24.3		ug/L		97	70 - 130	1	20
1,3-Dichlorobenzene	25.0	24.1		ug/L		96	70 - 130	0	20
1,3-Dichloropropane	25.0	21.2		ug/L		85	70 - 130	3	20
1,4-Dichlorobenzene	25.0	24.5		ug/L		98	70 - 130	3	20
1,4-Dioxane	500	379		ug/L		76	70 - 130	4	20
2,2-Dichloropropane	25.0	23.7		ug/L		95	70 - 130	3	20
2-Butanone (MEK)	125	106		ug/L		85	70 - 130	1	20
2-Chlorotoluene	25.0	24.1		ug/L		96	70 - 130	2	20
2-Hexanone	125	105		ug/L		84	70 - 130	1	20
4-Chlorotoluene	25.0	26.3		ug/L		105	70 - 130	2	20
4-Isopropyltoluene	25.0	25.1		ug/L		100	70 - 130	1	20
4-Methyl-2-pentanone (MIBK)	125	102		ug/L		82	70 - 130	3	20
Acetone	125	108		ug/L		87	70 - 130	1	20

TestAmerica Buffalo

QC Sample Results

Client: Innovative Engineering Solutions, Inc
 Project/Site: IDS Wayland

TestAmerica Job ID: 480-107127-1

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

Lab Sample ID: LCSD 480-324317/7

Client Sample ID: Lab Control Sample Dup

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 324317

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	25.0	23.4		ug/L		94	70 - 130	3	20
Bromobenzene	25.0	24.0		ug/L		96	70 - 130	2	20
Bromoform	25.0	24.3		ug/L		97	70 - 130	6	20
Bromomethane	25.0	23.5		ug/L		94	70 - 130	3	20
Carbon disulfide	25.0	23.3		ug/L		93	70 - 130	6	20
Carbon tetrachloride	25.0	24.3		ug/L		97	70 - 130	4	20
Chlorobenzene	25.0	23.9		ug/L		96	70 - 130	0	20
Chlorobromomethane	25.0	23.7		ug/L		95	70 - 130	3	20
Chlorodibromomethane	25.0	25.1		ug/L		100	70 - 130	3	20
Chloroethane	25.0	25.3		ug/L		101	70 - 130	5	20
Chloroform	25.0	22.6		ug/L		91	70 - 130	4	20
Chloromethane	25.0	23.7		ug/L		95	70 - 130	4	20
cis-1,2-Dichloroethene	25.0	23.3		ug/L		93	70 - 130	7	20
cis-1,3-Dichloropropene	25.0	24.5		ug/L		98	70 - 130	1	20
Dichlorobromomethane	25.0	24.2		ug/L		97	70 - 130	1	20
Dichlorodifluoromethane	25.0	23.6		ug/L		95	70 - 130	7	20
Ethyl ether	25.0	21.7		ug/L		87	70 - 130	1	20
Ethylbenzene	25.0	23.2		ug/L		93	70 - 130	2	20
Ethylene Dibromide	25.0	22.5		ug/L		90	70 - 130	3	20
Hexachlorobutadiene	25.0	24.9		ug/L		100	70 - 130	2	20
Isopropyl ether	25.0	22.5		ug/L		90	70 - 130	4	20
Isopropylbenzene	25.0	24.0		ug/L		96	70 - 130	1	20
Methyl tert-butyl ether	25.0	21.3		ug/L		85	70 - 130	2	20
Methylene Chloride	25.0	25.2		ug/L		101	70 - 130	6	20
m-Xylene & p-Xylene	25.0	23.3		ug/L		93	70 - 130	0	20
Naphthalene	25.0	21.1		ug/L		84	70 - 130	5	20
n-Butylbenzene	25.0	24.3		ug/L		97	70 - 130	1	20
N-Propylbenzene	25.0	23.9		ug/L		95	70 - 130	1	20
o-Xylene	25.0	23.8		ug/L		95	70 - 130	1	20
sec-Butylbenzene	25.0	24.4		ug/L		98	70 - 130	1	20
Styrene	25.0	24.5		ug/L		98	70 - 130	2	20
Tert-amyl methyl ether	25.0	22.2		ug/L		89	70 - 130	3	20
Tert-butyl ethyl ether	25.0	22.8		ug/L		91	70 - 130	1	20
tert-Butylbenzene	25.0	24.6		ug/L		98	70 - 130	1	20
Tetrachloroethene	25.0	26.1		ug/L		104	70 - 130	0	20
Tetrahydrofuran	50.0	53.0		ug/L		106	70 - 130	3	20
Toluene	25.0	23.7		ug/L		95	70 - 130	2	20
trans-1,2-Dichloroethene	25.0	24.3		ug/L		97	70 - 130	3	20
trans-1,3-Dichloropropene	25.0	23.1		ug/L		92	70 - 130	3	20
Trichloroethene	25.0	23.6		ug/L		94	70 - 130	5	20
Trichlorofluoromethane	25.0	26.9		ug/L		108	70 - 130	6	20
Vinyl chloride	25.0	24.0		ug/L		96	70 - 130	5	20
Dibromomethane	25.0	23.3		ug/L		93	70 - 130	0	20

Surrogate	LCSD LCSD		Limits
	%Recovery	Qualifier	
Toluene-d8 (Surr)	89		70 - 130
1,2-Dichloroethane-d4 (Surr)	81		70 - 130
4-Bromofluorobenzene (Surr)	101		70 - 130

TestAmerica Buffalo

QC Sample Results

Client: Innovative Engineering Solutions, Inc
 Project/Site: IDS Wayland

TestAmerica Job ID: 480-107127-1

Lab Sample ID: MB 480-324456/8
Matrix: Water
Analysis Batch: 324456

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			10/07/16 22:17	1
1,1,1-Trichloroethane	ND		1.0		ug/L			10/07/16 22:17	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			10/07/16 22:17	1
1,1,2-Trichloroethane	ND		1.0		ug/L			10/07/16 22:17	1
1,1-Dichloroethane	ND		1.0		ug/L			10/07/16 22:17	1
1,1-Dichloroethene	ND		1.0		ug/L			10/07/16 22:17	1
1,1-Dichloropropene	ND		1.0		ug/L			10/07/16 22:17	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			10/07/16 22:17	1
1,2,3-Trichloropropane	ND		1.0		ug/L			10/07/16 22:17	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			10/07/16 22:17	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			10/07/16 22:17	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			10/07/16 22:17	1
1,2-Dichlorobenzene	ND		1.0		ug/L			10/07/16 22:17	1
1,2-Dichloroethane	ND		1.0		ug/L			10/07/16 22:17	1
1,2-Dichloropropane	ND		1.0		ug/L			10/07/16 22:17	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			10/07/16 22:17	1
1,3-Dichlorobenzene	ND		1.0		ug/L			10/07/16 22:17	1
1,3-Dichloropropane	ND		1.0		ug/L			10/07/16 22:17	1
1,4-Dichlorobenzene	ND		1.0		ug/L			10/07/16 22:17	1
1,4-Dioxane	ND		50		ug/L			10/07/16 22:17	1
2,2-Dichloropropane	ND		1.0		ug/L			10/07/16 22:17	1
2-Butanone (MEK)	ND		10		ug/L			10/07/16 22:17	1
2-Chlorotoluene	ND		1.0		ug/L			10/07/16 22:17	1
2-Hexanone	ND		10		ug/L			10/07/16 22:17	1
4-Chlorotoluene	ND		1.0		ug/L			10/07/16 22:17	1
4-Isopropyltoluene	ND		1.0		ug/L			10/07/16 22:17	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			10/07/16 22:17	1
Acetone	ND		50		ug/L			10/07/16 22:17	1
Benzene	ND		1.0		ug/L			10/07/16 22:17	1
Bromobenzene	ND		1.0		ug/L			10/07/16 22:17	1
Bromoform	ND		1.0		ug/L			10/07/16 22:17	1
Bromomethane	ND		2.0		ug/L			10/07/16 22:17	1
Carbon disulfide	ND		10		ug/L			10/07/16 22:17	1
Carbon tetrachloride	ND		1.0		ug/L			10/07/16 22:17	1
Chlorobenzene	ND		1.0		ug/L			10/07/16 22:17	1
Chlorobromomethane	ND		1.0		ug/L			10/07/16 22:17	1
Chlorodibromomethane	ND		0.50		ug/L			10/07/16 22:17	1
Chloroethane	ND		2.0		ug/L			10/07/16 22:17	1
Chloroform	ND		1.0		ug/L			10/07/16 22:17	1
Chloromethane	ND		2.0		ug/L			10/07/16 22:17	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			10/07/16 22:17	1
cis-1,3-Dichloropropane	ND		0.40		ug/L			10/07/16 22:17	1
Dichlorobromomethane	ND		0.50		ug/L			10/07/16 22:17	1
Dichlorodifluoromethane	ND		1.0		ug/L			10/07/16 22:17	1
Ethyl ether	ND		1.0		ug/L			10/07/16 22:17	1
Ethylbenzene	ND		1.0		ug/L			10/07/16 22:17	1
Ethylene Dibromide	ND		1.0		ug/L			10/07/16 22:17	1
Hexachlorobutadiene	ND		0.40		ug/L			10/07/16 22:17	1
Isopropyl ether	ND		10		ug/L			10/07/16 22:17	1
Isopropylbenzene	ND		1.0		ug/L			10/07/16 22:17	1

TestAmerica Buffalo

QC Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-107127-1

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

Lab Sample ID: MB 480-324456/8
Matrix: Water
Analysis Batch: 324456

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		1.0		ug/L			10/07/16 22:17	1
Methylene Chloride	ND		1.0		ug/L			10/07/16 22:17	1
m-Xylene & p-Xylene	ND		2.0		ug/L			10/07/16 22:17	1
Naphthalene	ND		5.0		ug/L			10/07/16 22:17	1
n-Butylbenzene	ND		1.0		ug/L			10/07/16 22:17	1
N-Propylbenzene	ND		1.0		ug/L			10/07/16 22:17	1
o-Xylene	ND		1.0		ug/L			10/07/16 22:17	1
sec-Butylbenzene	ND		1.0		ug/L			10/07/16 22:17	1
Styrene	ND		1.0		ug/L			10/07/16 22:17	1
Tert-amyl methyl ether	ND		5.0		ug/L			10/07/16 22:17	1
Tert-butyl ethyl ether	ND		5.0		ug/L			10/07/16 22:17	1
tert-Butylbenzene	ND		1.0		ug/L			10/07/16 22:17	1
Tetrachloroethene	ND		1.0		ug/L			10/07/16 22:17	1
Tetrahydrofuran	ND		10		ug/L			10/07/16 22:17	1
Toluene	ND		1.0		ug/L			10/07/16 22:17	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			10/07/16 22:17	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			10/07/16 22:17	1
Trichloroethene	ND		1.0		ug/L			10/07/16 22:17	1
Trichlorofluoromethane	ND		1.0		ug/L			10/07/16 22:17	1
Vinyl chloride	ND		1.0		ug/L			10/07/16 22:17	1
Dibromomethane	ND		1.0		ug/L			10/07/16 22:17	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	88		70 - 130		10/07/16 22:17	1
1,2-Dichloroethane-d4 (Surr)	86		70 - 130		10/07/16 22:17	1
4-Bromofluorobenzene (Surr)	96		70 - 130		10/07/16 22:17	1

Lab Sample ID: LCS 480-324456/5
Matrix: Water
Analysis Batch: 324456

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	25.0	23.1		ug/L		92	70 - 130
1,1,1-Trichloroethane	25.0	24.0		ug/L		96	70 - 130
1,1,1,2,2-Tetrachloroethane	25.0	20.8		ug/L		83	70 - 130
1,1,2-Trichloroethane	25.0	21.6		ug/L		86	70 - 130
1,1-Dichloroethane	25.0	24.3		ug/L		97	70 - 130
1,1-Dichloroethene	25.0	24.3		ug/L		97	70 - 130
1,1-Dichloropropene	25.0	22.7		ug/L		91	70 - 130
1,2,3-Trichlorobenzene	25.0	20.4		ug/L		82	70 - 130
1,2,3-Trichloropropane	25.0	19.5		ug/L		78	70 - 130
1,2,4-Trichlorobenzene	25.0	21.5		ug/L		86	70 - 130
1,2,4-Trimethylbenzene	25.0	23.0		ug/L		92	70 - 130
1,2-Dibromo-3-Chloropropane	25.0	19.1		ug/L		76	70 - 130
1,2-Dichlorobenzene	25.0	22.5		ug/L		90	70 - 130
1,2-Dichloroethane	25.0	22.0		ug/L		88	70 - 130
1,2-Dichloropropane	25.0	23.0		ug/L		92	70 - 130
1,3,5-Trimethylbenzene	25.0	23.4		ug/L		94	70 - 130

TestAmerica Buffalo

QC Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-107127-1

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

Lab Sample ID: LCS 480-324456/5

Matrix: Water

Analysis Batch: 324456

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,3-Dichlorobenzene	25.0	22.9		ug/L		91	70 - 130
1,3-Dichloropropane	25.0	20.6		ug/L		82	70 - 130
1,4-Dichlorobenzene	25.0	23.2		ug/L		93	70 - 130
1,4-Dioxane	500	326	*	ug/L		65	70 - 130
2,2-Dichloropropane	25.0	23.3		ug/L		93	70 - 130
2-Butanone (MEK)	125	107		ug/L		86	70 - 130
2-Chlorotoluene	25.0	22.7		ug/L		91	70 - 130
2-Hexanone	125	101		ug/L		80	70 - 130
4-Chlorotoluene	25.0	24.6		ug/L		98	70 - 130
4-Isopropyltoluene	25.0	23.5		ug/L		94	70 - 130
4-Methyl-2-pentanone (MIBK)	125	96.2		ug/L		77	70 - 130
Acetone	125	121		ug/L		97	70 - 130
Benzene	25.0	23.2		ug/L		93	70 - 130
Bromobenzene	25.0	23.3		ug/L		93	70 - 130
Bromoform	25.0	22.1		ug/L		88	70 - 130
Bromomethane	25.0	25.5		ug/L		102	70 - 130
Carbon disulfide	25.0	23.6		ug/L		94	70 - 130
Carbon tetrachloride	25.0	24.3		ug/L		97	70 - 130
Chlorobenzene	25.0	22.5		ug/L		90	70 - 130
Chlorobromomethane	25.0	24.8		ug/L		99	70 - 130
Chlorodibromomethane	25.0	23.2		ug/L		93	70 - 130
Chloroethane	25.0	27.5		ug/L		110	70 - 130
Chloroform	25.0	23.3		ug/L		93	70 - 130
Chloromethane	25.0	26.1		ug/L		104	70 - 130
cis-1,2-Dichloroethene	25.0	24.3		ug/L		97	70 - 130
cis-1,3-Dichloropropene	25.0	24.1		ug/L		96	70 - 130
Dichlorobromomethane	25.0	23.7		ug/L		95	70 - 130
Dichlorodifluoromethane	25.0	26.4		ug/L		106	70 - 130
Ethyl ether	25.0	21.0		ug/L		84	70 - 130
Ethylbenzene	25.0	22.1		ug/L		89	70 - 130
Ethylene Dibromide	25.0	21.2		ug/L		85	70 - 130
Hexachlorobutadiene	25.0	23.2		ug/L		93	70 - 130
Isopropyl ether	25.0	23.2		ug/L		93	70 - 130
Isopropylbenzene	25.0	22.6		ug/L		90	70 - 130
Methyl tert-butyl ether	25.0	21.8		ug/L		87	70 - 130
Methylene Chloride	25.0	25.8		ug/L		103	70 - 130
m-Xylene & p-Xylene	25.0	22.2		ug/L		89	70 - 130
Naphthalene	25.0	19.4		ug/L		77	70 - 130
n-Butylbenzene	25.0	22.9		ug/L		92	70 - 130
N-Propylbenzene	25.0	22.6		ug/L		90	70 - 130
o-Xylene	25.0	22.6		ug/L		90	70 - 130
sec-Butylbenzene	25.0	22.8		ug/L		91	70 - 130
Styrene	25.0	23.7		ug/L		95	70 - 130
Tert-amyl methyl ether	25.0	22.6		ug/L		91	70 - 130
Tert-butyl ethyl ether	25.0	22.8		ug/L		91	70 - 130
tert-Butylbenzene	25.0	22.7		ug/L		91	70 - 130
Tetrachloroethene	25.0	24.8		ug/L		99	70 - 130
Tetrahydrofuran	50.0	53.3		ug/L		107	70 - 130

TestAmerica Buffalo

QC Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-107127-1

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

Lab Sample ID: LCS 480-324456/5

Matrix: Water

Analysis Batch: 324456

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Toluene	25.0	21.8		ug/L		87	70 - 130
trans-1,2-Dichloroethene	25.0	23.5		ug/L		94	70 - 130
trans-1,3-Dichloropropene	25.0	21.7		ug/L		87	70 - 130
Trichloroethene	25.0	23.8		ug/L		95	70 - 130
Trichlorofluoromethane	25.0	29.8		ug/L		119	70 - 130
Vinyl chloride	25.0	25.9		ug/L		104	70 - 130
Dibromomethane	25.0	22.8		ug/L		91	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Toluene-d8 (Surr)	88		70 - 130
1,2-Dichloroethane-d4 (Surr)	82		70 - 130
4-Bromofluorobenzene (Surr)	100		70 - 130

Lab Sample ID: LCSD 480-324456/6

Matrix: Water

Analysis Batch: 324456

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	25.0	22.9		ug/L		92	70 - 130	1	20
1,1,1-Trichloroethane	25.0	24.0		ug/L		96	70 - 130	0	20
1,1,1,2,2-Tetrachloroethane	25.0	20.9		ug/L		84	70 - 130	1	20
1,1,1,2-Trichloroethane	25.0	21.0		ug/L		84	70 - 130	3	20
1,1-Dichloroethane	25.0	23.7		ug/L		95	70 - 130	2	20
1,1-Dichloroethene	25.0	23.3		ug/L		93	70 - 130	4	20
1,1-Dichloropropene	25.0	23.4		ug/L		94	70 - 130	3	20
1,2,3-Trichlorobenzene	25.0	21.1		ug/L		84	70 - 130	3	20
1,2,3-Trichloropropane	25.0	19.4		ug/L		78	70 - 130	0	20
1,2,4-Trichlorobenzene	25.0	21.7		ug/L		87	70 - 130	1	20
1,2,4-Trimethylbenzene	25.0	23.7		ug/L		95	70 - 130	3	20
1,2-Dibromo-3-Chloropropane	25.0	20.3		ug/L		81	70 - 130	6	20
1,2-Dichlorobenzene	25.0	23.0		ug/L		92	70 - 130	2	20
1,2-Dichloroethane	25.0	21.7		ug/L		87	70 - 130	1	20
1,2-Dichloropropane	25.0	22.9		ug/L		92	70 - 130	0	20
1,3,5-Trimethylbenzene	25.0	23.9		ug/L		96	70 - 130	2	20
1,3-Dichlorobenzene	25.0	23.5		ug/L		94	70 - 130	3	20
1,3-Dichloropropane	25.0	20.1		ug/L		80	70 - 130	3	20
1,4-Dichlorobenzene	25.0	23.4		ug/L		94	70 - 130	1	20
1,4-Dioxane	500	386		ug/L		77	70 - 130	17	20
2,2-Dichloropropane	25.0	23.5		ug/L		94	70 - 130	1	20
2-Butanone (MEK)	125	117		ug/L		94	70 - 130	9	20
2-Chlorotoluene	25.0	23.6		ug/L		94	70 - 130	4	20
2-Hexanone	125	102		ug/L		81	70 - 130	1	20
4-Chlorotoluene	25.0	25.0		ug/L		100	70 - 130	2	20
4-Isopropyltoluene	25.0	24.5		ug/L		98	70 - 130	4	20
4-Methyl-2-pentanone (MIBK)	125	95.9		ug/L		77	70 - 130	0	20
Acetone	125	116		ug/L		93	70 - 130	4	20
Benzene	25.0	23.2		ug/L		93	70 - 130	0	20
Bromobenzene	25.0	22.8		ug/L		91	70 - 130	2	20

TestAmerica Buffalo

QC Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-107127-1

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

Lab Sample ID: LCSD 480-324456/6

Matrix: Water

Analysis Batch: 324456

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Bromoform	25.0	21.7		ug/L		87	70 - 130	2	20
Bromomethane	25.0	26.6		ug/L		107	70 - 130	4	20
Carbon disulfide	25.0	24.2		ug/L		97	70 - 130	2	20
Carbon tetrachloride	25.0	24.9		ug/L		99	70 - 130	2	20
Chlorobenzene	25.0	23.1		ug/L		93	70 - 130	3	20
Chlorobromomethane	25.0	24.1		ug/L		97	70 - 130	3	20
Chlorodibromomethane	25.0	23.1		ug/L		92	70 - 130	0	20
Chloroethane	25.0	27.2		ug/L		109	70 - 130	1	20
Chloroform	25.0	22.7		ug/L		91	70 - 130	2	20
Chloromethane	25.0	25.7		ug/L		103	70 - 130	2	20
cis-1,2-Dichloroethene	25.0	23.4		ug/L		93	70 - 130	4	20
cis-1,3-Dichloropropene	25.0	23.5		ug/L		94	70 - 130	2	20
Dichlorobromomethane	25.0	23.6		ug/L		94	70 - 130	0	20
Dichlorodifluoromethane	25.0	26.5		ug/L		106	70 - 130	0	20
Ethyl ether	25.0	21.2		ug/L		85	70 - 130	1	20
Ethylbenzene	25.0	22.8		ug/L		91	70 - 130	3	20
Ethylene Dibromide	25.0	21.3		ug/L		85	70 - 130	1	20
Hexachlorobutadiene	25.0	24.2		ug/L		97	70 - 130	4	20
Isopropyl ether	25.0	22.4		ug/L		90	70 - 130	4	20
Isopropylbenzene	25.0	23.2		ug/L		93	70 - 130	3	20
Methyl tert-butyl ether	25.0	20.6		ug/L		82	70 - 130	6	20
Methylene Chloride	25.0	25.1		ug/L		101	70 - 130	3	20
m-Xylene & p-Xylene	25.0	23.6		ug/L		94	70 - 130	6	20
Naphthalene	25.0	19.9		ug/L		80	70 - 130	3	20
n-Butylbenzene	25.0	23.4		ug/L		94	70 - 130	2	20
N-Propylbenzene	25.0	23.4		ug/L		94	70 - 130	4	20
o-Xylene	25.0	23.5		ug/L		94	70 - 130	4	20
sec-Butylbenzene	25.0	23.9		ug/L		95	70 - 130	4	20
Styrene	25.0	23.7		ug/L		95	70 - 130	0	20
Tert-amyl methyl ether	25.0	21.9		ug/L		87	70 - 130	3	20
Tert-butyl ethyl ether	25.0	22.6		ug/L		90	70 - 130	1	20
tert-Butylbenzene	25.0	23.9		ug/L		96	70 - 130	5	20
Tetrachloroethene	25.0	25.4		ug/L		101	70 - 130	2	20
Tetrahydrofuran	50.0	52.2		ug/L		104	70 - 130	2	20
Toluene	25.0	22.4		ug/L		90	70 - 130	3	20
trans-1,2-Dichloroethene	25.0	23.5		ug/L		94	70 - 130	0	20
trans-1,3-Dichloropropene	25.0	21.2		ug/L		85	70 - 130	3	20
Trichloroethene	25.0	24.3		ug/L		97	70 - 130	2	20
Trichlorofluoromethane	25.0	30.0		ug/L		120	70 - 130	1	20
Vinyl chloride	25.0	26.7		ug/L		107	70 - 130	3	20
Dibromomethane	25.0	22.4		ug/L		89	70 - 130	2	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Toluene-d8 (Surr)	87		70 - 130
1,2-Dichloroethane-d4 (Surr)	82		70 - 130
4-Bromofluorobenzene (Surr)	97		70 - 130

TestAmerica Buffalo

QC Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-107127-1

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

Lab Sample ID: MB 480-324621/8

Matrix: Water

Analysis Batch: 324621

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			10/10/16 00:22	1
1,1,1-Trichloroethane	ND		1.0		ug/L			10/10/16 00:22	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			10/10/16 00:22	1
1,1,2-Trichloroethane	ND		1.0		ug/L			10/10/16 00:22	1
1,1-Dichloroethane	ND		1.0		ug/L			10/10/16 00:22	1
1,1-Dichloroethene	ND		1.0		ug/L			10/10/16 00:22	1
1,1-Dichloropropene	ND		1.0		ug/L			10/10/16 00:22	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			10/10/16 00:22	1
1,2,3-Trichloropropane	ND		1.0		ug/L			10/10/16 00:22	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			10/10/16 00:22	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			10/10/16 00:22	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			10/10/16 00:22	1
1,2-Dichlorobenzene	ND		1.0		ug/L			10/10/16 00:22	1
1,2-Dichloroethane	ND		1.0		ug/L			10/10/16 00:22	1
1,2-Dichloropropane	ND		1.0		ug/L			10/10/16 00:22	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			10/10/16 00:22	1
1,3-Dichlorobenzene	ND		1.0		ug/L			10/10/16 00:22	1
1,3-Dichloropropane	ND		1.0		ug/L			10/10/16 00:22	1
1,4-Dichlorobenzene	ND		1.0		ug/L			10/10/16 00:22	1
1,4-Dioxane	ND		50		ug/L			10/10/16 00:22	1
2,2-Dichloropropane	ND		1.0		ug/L			10/10/16 00:22	1
2-Butanone (MEK)	ND		10		ug/L			10/10/16 00:22	1
2-Chlorotoluene	ND		1.0		ug/L			10/10/16 00:22	1
2-Hexanone	ND		10		ug/L			10/10/16 00:22	1
4-Chlorotoluene	ND		1.0		ug/L			10/10/16 00:22	1
4-Isopropyltoluene	ND		1.0		ug/L			10/10/16 00:22	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			10/10/16 00:22	1
Acetone	ND		50		ug/L			10/10/16 00:22	1
Benzene	ND		1.0		ug/L			10/10/16 00:22	1
Bromobenzene	ND		1.0		ug/L			10/10/16 00:22	1
Bromoform	ND		1.0		ug/L			10/10/16 00:22	1
Bromomethane	ND		2.0		ug/L			10/10/16 00:22	1
Carbon disulfide	ND		10		ug/L			10/10/16 00:22	1
Carbon tetrachloride	ND		1.0		ug/L			10/10/16 00:22	1
Chlorobenzene	ND		1.0		ug/L			10/10/16 00:22	1
Chlorobromomethane	ND		1.0		ug/L			10/10/16 00:22	1
Chlorodibromomethane	ND		0.50		ug/L			10/10/16 00:22	1
Chloroethane	ND		2.0		ug/L			10/10/16 00:22	1
Chloroform	ND		1.0		ug/L			10/10/16 00:22	1
Chloromethane	ND		2.0		ug/L			10/10/16 00:22	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			10/10/16 00:22	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			10/10/16 00:22	1
Dichlorobromomethane	ND		0.50		ug/L			10/10/16 00:22	1
Dichlorodifluoromethane	ND		1.0		ug/L			10/10/16 00:22	1
Ethyl ether	ND		1.0		ug/L			10/10/16 00:22	1
Ethylbenzene	ND		1.0		ug/L			10/10/16 00:22	1
Ethylene Dibromide	ND		1.0		ug/L			10/10/16 00:22	1
Hexachlorobutadiene	ND		0.40		ug/L			10/10/16 00:22	1

TestAmerica Buffalo

QC Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-107127-1

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

Lab Sample ID: MB 480-324621/8
Matrix: Water
Analysis Batch: 324621

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropyl ether	ND		10		ug/L			10/10/16 00:22	1
Isopropylbenzene	ND		1.0		ug/L			10/10/16 00:22	1
Methyl tert-butyl ether	ND		1.0		ug/L			10/10/16 00:22	1
Methylene Chloride	ND		1.0		ug/L			10/10/16 00:22	1
m-Xylene & p-Xylene	ND		2.0		ug/L			10/10/16 00:22	1
Naphthalene	ND		5.0		ug/L			10/10/16 00:22	1
n-Butylbenzene	ND		1.0		ug/L			10/10/16 00:22	1
N-Propylbenzene	ND		1.0		ug/L			10/10/16 00:22	1
o-Xylene	ND		1.0		ug/L			10/10/16 00:22	1
sec-Butylbenzene	ND		1.0		ug/L			10/10/16 00:22	1
Styrene	ND		1.0		ug/L			10/10/16 00:22	1
Tert-amyl methyl ether	ND		5.0		ug/L			10/10/16 00:22	1
Tert-butyl ethyl ether	ND		5.0		ug/L			10/10/16 00:22	1
tert-Butylbenzene	ND		1.0		ug/L			10/10/16 00:22	1
Tetrachloroethene	ND		1.0		ug/L			10/10/16 00:22	1
Tetrahydrofuran	ND		10		ug/L			10/10/16 00:22	1
Toluene	ND		1.0		ug/L			10/10/16 00:22	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			10/10/16 00:22	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			10/10/16 00:22	1
Trichloroethene	ND		1.0		ug/L			10/10/16 00:22	1
Trichlorofluoromethane	ND		1.0		ug/L			10/10/16 00:22	1
Vinyl chloride	ND		1.0		ug/L			10/10/16 00:22	1
Dibromomethane	ND		1.0		ug/L			10/10/16 00:22	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	88		70 - 130		10/10/16 00:22	1
1,2-Dichloroethane-d4 (Surr)	84		70 - 130		10/10/16 00:22	1
4-Bromofluorobenzene (Surr)	98		70 - 130		10/10/16 00:22	1

Lab Sample ID: LCS 480-324621/5
Matrix: Water
Analysis Batch: 324621

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	25.0	24.9		ug/L		100	70 - 130
1,1,1-Trichloroethane	25.0	24.9		ug/L		100	70 - 130
1,1,2,2-Tetrachloroethane	25.0	21.5		ug/L		86	70 - 130
1,1,2-Trichloroethane	25.0	22.2		ug/L		89	70 - 130
1,1-Dichloroethane	25.0	24.7		ug/L		99	70 - 130
1,1-Dichloroethene	25.0	23.6		ug/L		95	70 - 130
1,1-Dichloropropene	25.0	23.9		ug/L		96	70 - 130
1,2,3-Trichlorobenzene	25.0	21.5		ug/L		86	70 - 130
1,2,3-Trichloropropane	25.0	19.8		ug/L		79	70 - 130
1,2,4-Trichlorobenzene	25.0	22.7		ug/L		91	70 - 130
1,2,4-Trimethylbenzene	25.0	23.9		ug/L		96	70 - 130
1,2-Dibromo-3-Chloropropane	25.0	18.7		ug/L		75	70 - 130
1,2-Dichlorobenzene	25.0	23.0		ug/L		92	70 - 130
1,2-Dichloroethane	25.0	22.1		ug/L		88	70 - 130

TestAmerica Buffalo

QC Sample Results

Client: Innovative Engineering Solutions, Inc
 Project/Site: IDS Wayland

TestAmerica Job ID: 480-107127-1

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

Lab Sample ID: LCS 480-324621/5

Matrix: Water

Analysis Batch: 324621

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichloropropane	25.0	24.4		ug/L		98	70 - 130
1,3,5-Trimethylbenzene	25.0	24.5		ug/L		98	70 - 130
1,3-Dichlorobenzene	25.0	23.9		ug/L		96	70 - 130
1,3-Dichloropropane	25.0	21.0		ug/L		84	70 - 130
1,4-Dichlorobenzene	25.0	24.5		ug/L		98	70 - 130
1,4-Dioxane	500	326 *		ug/L		65	70 - 130
2,2-Dichloropropane	25.0	23.5		ug/L		94	70 - 130
2-Butanone (MEK)	125	110		ug/L		88	70 - 130
2-Chlorotoluene	25.0	23.5		ug/L		94	70 - 130
2-Hexanone	125	105		ug/L		84	70 - 130
4-Chlorotoluene	25.0	25.0		ug/L		100	70 - 130
4-Isopropyltoluene	25.0	24.3		ug/L		97	70 - 130
4-Methyl-2-pentanone (MIBK)	125	96.9		ug/L		78	70 - 130
Acetone	125	126		ug/L		101	70 - 130
Benzene	25.0	24.1		ug/L		97	70 - 130
Bromobenzene	25.0	23.5		ug/L		94	70 - 130
Bromoform	25.0	23.9		ug/L		96	70 - 130
Bromomethane	25.0	25.5		ug/L		102	70 - 130
Carbon disulfide	25.0	23.8		ug/L		95	70 - 130
Carbon tetrachloride	25.0	25.5		ug/L		102	70 - 130
Chlorobenzene	25.0	23.7		ug/L		95	70 - 130
Chlorobromomethane	25.0	24.4		ug/L		98	70 - 130
Chlorodibromomethane	25.0	24.8		ug/L		99	70 - 130
Chloroethane	25.0	25.4		ug/L		102	70 - 130
Chloroform	25.0	23.8		ug/L		95	70 - 130
Chloromethane	25.0	24.6		ug/L		98	70 - 130
cis-1,2-Dichloroethene	25.0	24.9		ug/L		100	70 - 130
cis-1,3-Dichloropropene	25.0	25.1		ug/L		100	70 - 130
Dichlorobromomethane	25.0	24.7		ug/L		99	70 - 130
Dichlorodifluoromethane	25.0	23.2		ug/L		93	70 - 130
Ethyl ether	25.0	22.3		ug/L		89	70 - 130
Ethylbenzene	25.0	23.4		ug/L		94	70 - 130
Ethylene Dibromide	25.0	22.3		ug/L		89	70 - 130
Hexachlorobutadiene	25.0	24.8		ug/L		99	70 - 130
Isopropyl ether	25.0	22.9		ug/L		92	70 - 130
Isopropylbenzene	25.0	23.6		ug/L		94	70 - 130
Methyl tert-butyl ether	25.0	22.0		ug/L		88	70 - 130
Methylene Chloride	25.0	25.2		ug/L		101	70 - 130
m-Xylene & p-Xylene	25.0	23.6		ug/L		94	70 - 130
Naphthalene	25.0	19.8		ug/L		79	70 - 130
n-Butylbenzene	25.0	23.2		ug/L		93	70 - 130
N-Propylbenzene	25.0	23.6		ug/L		94	70 - 130
o-Xylene	25.0	23.7		ug/L		95	70 - 130
sec-Butylbenzene	25.0	23.6		ug/L		94	70 - 130
Styrene	25.0	24.2		ug/L		97	70 - 130
Tert-amyl methyl ether	25.0	22.5		ug/L		90	70 - 130
Tert-butyl ethyl ether	25.0	22.4		ug/L		89	70 - 130
tert-Butylbenzene	25.0	24.4		ug/L		98	70 - 130

TestAmerica Buffalo

QC Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-107127-1

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

Lab Sample ID: LCS 480-324621/5

Matrix: Water

Analysis Batch: 324621

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Tetrachloroethene	25.0	26.7		ug/L		107	70 - 130
Tetrahydrofuran	50.0	54.6		ug/L		109	70 - 130
Toluene	25.0	22.6		ug/L		91	70 - 130
trans-1,2-Dichloroethene	25.0	24.6		ug/L		98	70 - 130
trans-1,3-Dichloropropene	25.0	22.8		ug/L		91	70 - 130
Trichloroethene	25.0	24.9		ug/L		99	70 - 130
Trichlorofluoromethane	25.0	28.0		ug/L		112	70 - 130
Vinyl chloride	25.0	24.9		ug/L		100	70 - 130
Dibromomethane	25.0	23.4		ug/L		93	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Toluene-d8 (Surr)	86		70 - 130
1,2-Dichloroethane-d4 (Surr)	79		70 - 130
4-Bromofluorobenzene (Surr)	103		70 - 130

Lab Sample ID: LCSD 480-324621/6

Matrix: Water

Analysis Batch: 324621

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	25.0	24.0		ug/L		96	70 - 130	4	20
1,1,1-Trichloroethane	25.0	24.5		ug/L		98	70 - 130	2	20
1,1,1,2,2-Tetrachloroethane	25.0	22.5		ug/L		90	70 - 130	5	20
1,1,1,2-Trichloroethane	25.0	21.9		ug/L		88	70 - 130	1	20
1,1-Dichloroethane	25.0	24.2		ug/L		97	70 - 130	2	20
1,1-Dichloroethene	25.0	23.2		ug/L		93	70 - 130	2	20
1,1-Dichloropropene	25.0	22.9		ug/L		92	70 - 130	4	20
1,2,3-Trichlorobenzene	25.0	21.8		ug/L		87	70 - 130	1	20
1,2,3-Trichloropropane	25.0	21.3		ug/L		85	70 - 130	7	20
1,2,4-Trichlorobenzene	25.0	22.0		ug/L		88	70 - 130	3	20
1,2,4-Trimethylbenzene	25.0	23.8		ug/L		95	70 - 130	1	20
1,2-Dibromo-3-Chloropropane	25.0	21.5		ug/L		86	70 - 130	14	20
1,2-Dichlorobenzene	25.0	23.2		ug/L		93	70 - 130	1	20
1,2-Dichloroethane	25.0	22.5		ug/L		90	70 - 130	2	20
1,2-Dichloropropane	25.0	23.7		ug/L		95	70 - 130	3	20
1,3,5-Trimethylbenzene	25.0	23.8		ug/L		95	70 - 130	3	20
1,3-Dichlorobenzene	25.0	24.0		ug/L		96	70 - 130	1	20
1,3-Dichloropropane	25.0	20.8		ug/L		83	70 - 130	1	20
1,4-Dichlorobenzene	25.0	23.9		ug/L		96	70 - 130	2	20
1,4-Dioxane	500	349		ug/L		70	70 - 130	7	20
2,2-Dichloropropane	25.0	22.7		ug/L		91	70 - 130	3	20
2-Butanone (MEK)	125	105		ug/L		84	70 - 130	4	20
2-Chlorotoluene	25.0	23.0		ug/L		92	70 - 130	2	20
2-Hexanone	125	105		ug/L		84	70 - 130	0	20
4-Chlorotoluene	25.0	24.8		ug/L		99	70 - 130	1	20
4-Isopropyltoluene	25.0	24.1		ug/L		96	70 - 130	1	20
4-Methyl-2-pentanone (MIBK)	125	96.6		ug/L		77	70 - 130	0	20
Acetone	125	127		ug/L		101	70 - 130	0	20

TestAmerica Buffalo

QC Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-107127-1

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

Lab Sample ID: LCSD 480-324621/6

Matrix: Water

Analysis Batch: 324621

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	25.0	23.8		ug/L		95	70 - 130	1	20
Bromobenzene	25.0	23.6		ug/L		94	70 - 130	0	20
Bromoform	25.0	23.5		ug/L		94	70 - 130	2	20
Bromomethane	25.0	25.2		ug/L		101	70 - 130	1	20
Carbon disulfide	25.0	23.3		ug/L		93	70 - 130	2	20
Carbon tetrachloride	25.0	24.3		ug/L		97	70 - 130	5	20
Chlorobenzene	25.0	23.0		ug/L		92	70 - 130	3	20
Chlorobromomethane	25.0	24.8		ug/L		99	70 - 130	1	20
Chlorodibromomethane	25.0	24.0		ug/L		96	70 - 130	3	20
Chloroethane	25.0	26.4		ug/L		106	70 - 130	4	20
Chloroform	25.0	23.3		ug/L		93	70 - 130	2	20
Chloromethane	25.0	23.9		ug/L		95	70 - 130	3	20
cis-1,2-Dichloroethene	25.0	24.4		ug/L		98	70 - 130	2	20
cis-1,3-Dichloropropene	25.0	25.1		ug/L		100	70 - 130	0	20
Dichlorobromomethane	25.0	24.6		ug/L		99	70 - 130	0	20
Dichlorodifluoromethane	25.0	21.8		ug/L		87	70 - 130	6	20
Ethyl ether	25.0	22.1		ug/L		89	70 - 130	1	20
Ethylbenzene	25.0	22.4		ug/L		90	70 - 130	4	20
Ethylene Dibromide	25.0	22.0		ug/L		88	70 - 130	1	20
Hexachlorobutadiene	25.0	24.0		ug/L		96	70 - 130	4	20
Isopropyl ether	25.0	22.9		ug/L		92	70 - 130	0	20
Isopropylbenzene	25.0	23.0		ug/L		92	70 - 130	2	20
Methyl tert-butyl ether	25.0	22.5		ug/L		90	70 - 130	2	20
Methylene Chloride	25.0	25.7		ug/L		103	70 - 130	2	20
m-Xylene & p-Xylene	25.0	22.6		ug/L		90	70 - 130	4	20
Naphthalene	25.0	20.1		ug/L		80	70 - 130	1	20
n-Butylbenzene	25.0	22.7		ug/L		91	70 - 130	2	20
N-Propylbenzene	25.0	23.0		ug/L		92	70 - 130	3	20
o-Xylene	25.0	22.8		ug/L		91	70 - 130	4	20
sec-Butylbenzene	25.0	23.0		ug/L		92	70 - 130	3	20
Styrene	25.0	24.0		ug/L		96	70 - 130	1	20
Tert-amyl methyl ether	25.0	22.5		ug/L		90	70 - 130	0	20
Tert-butyl ethyl ether	25.0	23.4		ug/L		94	70 - 130	5	20
tert-Butylbenzene	25.0	23.4		ug/L		94	70 - 130	4	20
Tetrachloroethene	25.0	24.8		ug/L		99	70 - 130	7	20
Tetrahydrofuran	50.0	52.2		ug/L		104	70 - 130	4	20
Toluene	25.0	21.8		ug/L		87	70 - 130	4	20
trans-1,2-Dichloroethene	25.0	24.3		ug/L		97	70 - 130	1	20
trans-1,3-Dichloropropene	25.0	22.1		ug/L		88	70 - 130	3	20
Trichloroethene	25.0	24.8		ug/L		99	70 - 130	0	20
Trichlorofluoromethane	25.0	27.8		ug/L		111	70 - 130	1	20
Vinyl chloride	25.0	23.6		ug/L		94	70 - 130	6	20
Dibromomethane	25.0	22.7		ug/L		91	70 - 130	3	20

Surrogate	LCSD LCSD		Limits
	%Recovery	Qualifier	
Toluene-d8 (Surr)	84		70 - 130
1,2-Dichloroethane-d4 (Surr)	83		70 - 130
4-Bromofluorobenzene (Surr)	99		70 - 130

TestAmerica Buffalo

QC Sample Results

Client: Innovative Engineering Solutions, Inc
 Project/Site: IDS Wayland

TestAmerica Job ID: 480-107127-1

Method: 522 - 1,4 Dioxane (GC/MS SIM)

Lab Sample ID: MB 200-110109/1-A
Matrix: Water
Analysis Batch: 110131

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 110109

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20		ug/L		10/12/16 19:30	10/13/16 12:03	1
Surrogate	%Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	71		70 - 130				10/12/16 19:30	10/13/16 12:03	1

Lab Sample ID: LCS 200-110109/2-A
Matrix: Water
Analysis Batch: 110131

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 110109

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits		
1,4-Dioxane	0.200	0.149	J	ug/L		75	70 - 130		
Surrogate	LCS %Recovery	LCS Qualifier	Limits						
1,4-Dioxane-d8 (Surr)	78		70 - 130						

Method: 6010 - Metals (ICP)

Lab Sample ID: MB 480-324299/1-A
Matrix: Water
Analysis Batch: 324706

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 324299

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		0.050		mg/L		10/07/16 09:30	10/08/16 10:36	1

Lab Sample ID: LCS 480-324299/2-A
Matrix: Water
Analysis Batch: 324706

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 324299

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits		
Iron	10.0	10.6		mg/L		106	80 - 120		

Lab Sample ID: LCSD 480-324299/3-A
Matrix: Water
Analysis Batch: 324706

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 324299

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	Limits	RPD	RPD Limit
Iron	10.0	10.6		mg/L		106	80 - 120	1	20

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 480-324265/30
Matrix: Water
Analysis Batch: 324265

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		0.50		mg/L			10/07/16 10:01	1
Sulfate	ND		2.0		mg/L			10/07/16 10:01	1

TestAmerica Buffalo

QC Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-107127-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 480-324265/4
Matrix: Water
Analysis Batch: 324265

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		0.50		mg/L			10/07/16 06:29	1
Sulfate	ND		2.0		mg/L			10/07/16 06:29	1

Lab Sample ID: LCS 480-324265/29
Matrix: Water
Analysis Batch: 324265

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	50.0	49.2		mg/L		98	90 - 110
Sulfate	50.0	49.2		mg/L		98	90 - 110

Lab Sample ID: LCS 480-324265/3
Matrix: Water
Analysis Batch: 324265

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	50.0	48.5		mg/L		97	90 - 110
Sulfate	50.0	48.6		mg/L		97	90 - 110

Lab Sample ID: 480-107127-5 MS
Matrix: Water
Analysis Batch: 324265

Client Sample ID: REW-10-20161005
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	68		100	162		mg/L		94	81 - 120
Sulfate	26		100	121		mg/L		96	80 - 120

Lab Sample ID: MB 480-324714/30
Matrix: Water
Analysis Batch: 324714

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		0.50		mg/L			10/10/16 15:41	1
Sulfate	ND		2.0		mg/L			10/10/16 15:41	1

Lab Sample ID: MB 480-324714/4
Matrix: Water
Analysis Batch: 324714

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		0.50		mg/L			10/10/16 12:10	1
Sulfate	ND		2.0		mg/L			10/10/16 12:10	1

Lab Sample ID: LCS 480-324714/29
Matrix: Water
Analysis Batch: 324714

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	50.0	50.4		mg/L		101	90 - 110

TestAmerica Buffalo

QC Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-107127-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 480-324714/29
Matrix: Water
Analysis Batch: 324714

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	50.0	49.6		mg/L		99	90 - 110

Lab Sample ID: LCS 480-324714/3
Matrix: Water
Analysis Batch: 324714

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	50.0	50.1		mg/L		100	90 - 110
Sulfate	50.0	50.3		mg/L		101	90 - 110

Lab Sample ID: MB 480-324850/4
Matrix: Water
Analysis Batch: 324850

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		0.50		mg/L			10/11/16 10:32	1
Sulfate	ND		2.0		mg/L			10/11/16 10:32	1

Lab Sample ID: LCS 480-324850/3
Matrix: Water
Analysis Batch: 324850

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	50.0	50.4		mg/L		101	90 - 110
Sulfate	50.0	50.1		mg/L		100	90 - 110

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 480-324600/2-A
Matrix: Water
Analysis Batch: 324604

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 324600

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.20		mg/L		10/09/16 13:43	10/09/16 14:12	1

Lab Sample ID: LCS 480-324600/1-A
Matrix: Water
Analysis Batch: 324604

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 324600

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia	1.00	1.00		mg/L		100	90 - 110

Lab Sample ID: 480-107127-4 MS
Matrix: Water
Analysis Batch: 324604

Client Sample ID: REW-9-20161005
Prep Type: Total/NA
Prep Batch: 324600

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia	0.20		0.500	0.669		mg/L		94	90 - 110

TestAmerica Buffalo

QC Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-107127-1

Method: 350.1 - Nitrogen, Ammonia (Continued)

Lab Sample ID: 480-107127-3 DU
Matrix: Water
Analysis Batch: 324604

Client Sample ID: REW-8-20161005
Prep Type: Total/NA
Prep Batch: 324600

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Ammonia	6.7		7.25		mg/L		8	20

Method: 9040C - pH

Lab Sample ID: 480-107127-3 DU
Matrix: Water
Analysis Batch: 324329

Client Sample ID: REW-8-20161005
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
pH	6.8	HF	6.9		SU		0.1	5

Method: 9060A - Organic Carbon, Total (TOC)

Lab Sample ID: MB 480-324587/28
Matrix: Water
Analysis Batch: 324587

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TOC Result 1	ND		1.0		mg/L			10/08/16 05:08	1
TOC Result 2	ND		1.0		mg/L			10/08/16 05:08	1
Total Organic Carbon - Duplicates	ND		1.0		mg/L			10/08/16 05:08	1

Lab Sample ID: MB 480-324587/4
Matrix: Water
Analysis Batch: 324587

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TOC Result 1	ND		1.0		mg/L			10/07/16 17:53	1
TOC Result 2	ND		1.0		mg/L			10/07/16 17:53	1
Total Organic Carbon - Duplicates	ND		1.0		mg/L			10/07/16 17:53	1

Lab Sample ID: MB 480-324587/52
Matrix: Water
Analysis Batch: 324587

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TOC Result 1	ND		1.0		mg/L			10/08/16 16:20	1
TOC Result 2	ND		1.0		mg/L			10/08/16 16:20	1
Total Organic Carbon - Duplicates	ND		1.0		mg/L			10/08/16 16:20	1

Lab Sample ID: LCS 480-324587/29
Matrix: Water
Analysis Batch: 324587

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
TOC Result 1	60.0	55.5		mg/L		93	90 - 110
TOC Result 2	60.0	58.8		mg/L		98	90 - 110
Total Organic Carbon - Duplicates	60.0	57.1		mg/L		95	90 - 110

TestAmerica Buffalo

QC Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-107127-1

Lab Sample ID: LCS 480-324587/5
Matrix: Water
Analysis Batch: 324587

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
TOC Result 1	60.0	57.8		mg/L		96	90 - 110
TOC Result 2	60.0	60.9		mg/L		101	90 - 110
Total Organic Carbon - Duplicates	60.0	59.3		mg/L		99	90 - 110

Lab Sample ID: LCS 480-324587/53
Matrix: Water
Analysis Batch: 324587

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
TOC Result 1	60.0	55.6		mg/L		93	90 - 110
TOC Result 2	60.0	59.2		mg/L		99	90 - 110
Total Organic Carbon - Duplicates	60.0	57.4		mg/L		96	90 - 110

Lab Sample ID: 480-107127-2 MS
Matrix: Water
Analysis Batch: 324587

Client Sample ID: REW-7-20161005
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
TOC Result 1	26		20.0	44.8		mg/L		95	54 - 131
TOC Result 2	28		20.0	48.1		mg/L		99	54 - 131
Total Organic Carbon - Duplicates	27		20.0	46.4		mg/L		97	54 - 131

Lab Sample ID: 480-107127-14 MS
Matrix: Water
Analysis Batch: 324587

Client Sample ID: MW-561-20161005
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
TOC Result 1	8.1		20.0	28.4		mg/L		102	54 - 131
TOC Result 2	9.1		20.0	30.3		mg/L		106	54 - 131
Total Organic Carbon - Duplicates	8.6		20.0	29.4		mg/L		104	54 - 131

Lab Sample ID: 480-107127-3 DU
Matrix: Water
Analysis Batch: 324587

Client Sample ID: REW-8-20161005
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
TOC Result 1	13			13.1		mg/L		4	20
TOC Result 2	14			14.3		mg/L		3	20
Total Organic Carbon - Duplicates	13			13.7		mg/L		3	20

Lab Sample ID: 480-107127-5 DU
Matrix: Water
Analysis Batch: 324587

Client Sample ID: REW-10-20161005
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
TOC Result 1	ND			ND		mg/L		NC	20
TOC Result 2	1.1			ND		mg/L		NC	20

TestAmerica Buffalo

QC Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-107127-1

Method: 9060A - Organic Carbon, Total (TOC) (Continued)

Lab Sample ID: 480-107127-5 DU
Matrix: Water
Analysis Batch: 324587

Client Sample ID: REW-10-20161005
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Total Organic Carbon - Duplicates	ND		ND		mg/L		NC	20

Lab Sample ID: MB 480-325086/28
Matrix: Water
Analysis Batch: 325086

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TOC Result 1	ND		1.0		mg/L			10/11/16 18:37	1
TOC Result 2	ND		1.0		mg/L			10/11/16 18:37	1
Total Organic Carbon - Duplicates	ND		1.0		mg/L			10/11/16 18:37	1

Lab Sample ID: LCS 480-325086/29
Matrix: Water
Analysis Batch: 325086

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
TOC Result 1	60.0	61.0		mg/L		102	90 - 110
TOC Result 2	60.0	60.7		mg/L		101	90 - 110
Total Organic Carbon - Duplicates	60.0	60.8		mg/L		101	90 - 110

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 480-324328/30
Matrix: Water
Analysis Batch: 324328

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND		5.0		mg/L			10/06/16 15:01	1

Lab Sample ID: MB 480-324328/54
Matrix: Water
Analysis Batch: 324328

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND		5.0		mg/L			10/06/16 17:27	1

Lab Sample ID: LCS 480-324328/31
Matrix: Water
Analysis Batch: 324328

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity, Total	100	98.6		mg/L		99	90 - 110

TestAmerica Buffalo

QC Sample Results

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-107127-1

Method: SM 2320B - Alkalinity (Continued)

Lab Sample ID: LCS 480-324328/55
Matrix: Water
Analysis Batch: 324328

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity, Total	100	99.6		mg/L		100	90 - 110

Method: SM 4500 P E - Orthophosphate

Lab Sample ID: MB 480-324228/3
Matrix: Water
Analysis Batch: 324228

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
ortho-Phosphate	ND		0.020		mg/L			10/06/16 14:30	1

Lab Sample ID: LCS 480-324228/4
Matrix: Water
Analysis Batch: 324228

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
ortho-Phosphate	0.200	0.218		mg/L		109	90 - 110

Lab Sample ID: 480-107127-5 MS
Matrix: Water
Analysis Batch: 324228

Client Sample ID: REW-10-20161005
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
ortho-Phosphate	0.029		1.00	1.04		mg/L		101	49 - 138

Lab Sample ID: 480-107127-5 MSD
Matrix: Water
Analysis Batch: 324228

Client Sample ID: REW-10-20161005
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
ortho-Phosphate	0.029		1.00	1.04		mg/L		101	49 - 138	0	20

QC Association Summary

Client: Innovative Engineering Solutions, Inc
 Project/Site: IDS Wayland

TestAmerica Job ID: 480-107127-1

GC/MS VOA

Analysis Batch: 324317

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-107127-1	MW-269Ma-20161005	Total/NA	Water	8260C	
480-107127-2	REW-7-20161005	Total/NA	Water	8260C	
480-107127-3	REW-8-20161005	Total/NA	Water	8260C	
480-107127-4	REW-9-20161005	Total/NA	Water	8260C	
480-107127-5	REW-10-20161005	Total/NA	Water	8260C	
480-107127-6	REW-11-20161005	Total/NA	Water	8260C	
480-107127-7	REW-12-20161005	Total/NA	Water	8260C	
480-107127-8	DUP3-20161005	Total/NA	Water	8260C	
480-107127-9	TRIP BLANKS	Total/NA	Water	8260C	
480-107127-10	MW-264M-20161005	Total/NA	Water	8260C	
480-107127-11	MW-266Ma-20161005	Total/NA	Water	8260C	
480-107127-12	MW-266Mb-20161005	Total/NA	Water	8260C	
MB 480-324317/9	Method Blank	Total/NA	Water	8260C	
LCS 480-324317/6	Lab Control Sample	Total/NA	Water	8260C	
LCSD 480-324317/7	Lab Control Sample Dup	Total/NA	Water	8260C	

Analysis Batch: 324456

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-107127-13	MW-560-20161005	Total/NA	Water	8260C	
480-107127-15	MW-563-20161005	Total/NA	Water	8260C	
MB 480-324456/8	Method Blank	Total/NA	Water	8260C	
LCS 480-324456/5	Lab Control Sample	Total/NA	Water	8260C	
LCSD 480-324456/6	Lab Control Sample Dup	Total/NA	Water	8260C	

Analysis Batch: 324621

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-107127-14	MW-561-20161005	Total/NA	Water	8260C	
MB 480-324621/8	Method Blank	Total/NA	Water	8260C	
LCS 480-324621/5	Lab Control Sample	Total/NA	Water	8260C	
LCSD 480-324621/6	Lab Control Sample Dup	Total/NA	Water	8260C	

GC/MS Semi VOA

Prep Batch: 110109

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-107127-1	MW-269Ma-20161005	Total/NA	Water	3535A	
480-107127-11	MW-266Ma-20161005	Total/NA	Water	3535A	
MB 200-110109/1-A	Method Blank	Total/NA	Water	3535A	
LCS 200-110109/2-A	Lab Control Sample	Total/NA	Water	3535A	

Analysis Batch: 110131

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-107127-1	MW-269Ma-20161005	Total/NA	Water	522	110109
480-107127-11	MW-266Ma-20161005	Total/NA	Water	522	110109
MB 200-110109/1-A	Method Blank	Total/NA	Water	522	110109
LCS 200-110109/2-A	Lab Control Sample	Total/NA	Water	522	110109

TestAmerica Buffalo

QC Association Summary

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-107127-1

Metals

Prep Batch: 324299

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-107127-2	REW-7-20161005	Total/NA	Water	3005A	
480-107127-3	REW-8-20161005	Total/NA	Water	3005A	
480-107127-4	REW-9-20161005	Total/NA	Water	3005A	
480-107127-5	REW-10-20161005	Total/NA	Water	3005A	
480-107127-6	REW-11-20161005	Total/NA	Water	3005A	
480-107127-7	REW-12-20161005	Total/NA	Water	3005A	
480-107127-13	MW-560-20161005	Total/NA	Water	3005A	
480-107127-14	MW-561-20161005	Total/NA	Water	3005A	
480-107127-15	MW-563-20161005	Total/NA	Water	3005A	
MB 480-324299/1-A	Method Blank	Total/NA	Water	3005A	
LCS 480-324299/2-A	Lab Control Sample	Total/NA	Water	3005A	
LCSD 480-324299/3-A	Lab Control Sample Dup	Total/NA	Water	3005A	

Analysis Batch: 324706

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-107127-2	REW-7-20161005	Total/NA	Water	6010	324299
480-107127-3	REW-8-20161005	Total/NA	Water	6010	324299
480-107127-4	REW-9-20161005	Total/NA	Water	6010	324299
480-107127-5	REW-10-20161005	Total/NA	Water	6010	324299
480-107127-6	REW-11-20161005	Total/NA	Water	6010	324299
480-107127-7	REW-12-20161005	Total/NA	Water	6010	324299
480-107127-13	MW-560-20161005	Total/NA	Water	6010	324299
480-107127-14	MW-561-20161005	Total/NA	Water	6010	324299
480-107127-15	MW-563-20161005	Total/NA	Water	6010	324299
MB 480-324299/1-A	Method Blank	Total/NA	Water	6010	324299
LCS 480-324299/2-A	Lab Control Sample	Total/NA	Water	6010	324299
LCSD 480-324299/3-A	Lab Control Sample Dup	Total/NA	Water	6010	324299

General Chemistry

Analysis Batch: 324228

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-107127-2	REW-7-20161005	Total/NA	Water	SM 4500 P E	
480-107127-3	REW-8-20161005	Total/NA	Water	SM 4500 P E	
480-107127-4	REW-9-20161005	Total/NA	Water	SM 4500 P E	
480-107127-5	REW-10-20161005	Total/NA	Water	SM 4500 P E	
480-107127-6	REW-11-20161005	Total/NA	Water	SM 4500 P E	
480-107127-7	REW-12-20161005	Total/NA	Water	SM 4500 P E	
480-107127-13	MW-560-20161005	Total/NA	Water	SM 4500 P E	
480-107127-14	MW-561-20161005	Total/NA	Water	SM 4500 P E	
480-107127-15	MW-563-20161005	Total/NA	Water	SM 4500 P E	
MB 480-324228/3	Method Blank	Total/NA	Water	SM 4500 P E	
LCS 480-324228/4	Lab Control Sample	Total/NA	Water	SM 4500 P E	
480-107127-5 MS	REW-10-20161005	Total/NA	Water	SM 4500 P E	
480-107127-5 MSD	REW-10-20161005	Total/NA	Water	SM 4500 P E	

Analysis Batch: 324264

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-107127-2	REW-7-20161005	Total/NA	Water	353.2	
480-107127-3	REW-8-20161005	Total/NA	Water	353.2	

TestAmerica Buffalo

QC Association Summary

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-107127-1

General Chemistry (Continued)

Analysis Batch: 324264 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-107127-4	REW-9-20161005	Total/NA	Water	353.2	
480-107127-5	REW-10-20161005	Total/NA	Water	353.2	
480-107127-6	REW-11-20161005	Total/NA	Water	353.2	
480-107127-7	REW-12-20161005	Total/NA	Water	353.2	
480-107127-13	MW-560-20161005	Total/NA	Water	353.2	
480-107127-14	MW-561-20161005	Total/NA	Water	353.2	
480-107127-15	MW-563-20161005	Total/NA	Water	353.2	

Analysis Batch: 324265

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-107127-2	REW-7-20161005	Total/NA	Water	300.0	
480-107127-3	REW-8-20161005	Total/NA	Water	300.0	
480-107127-4	REW-9-20161005	Total/NA	Water	300.0	
480-107127-5	REW-10-20161005	Total/NA	Water	300.0	
480-107127-6	REW-11-20161005	Total/NA	Water	300.0	
480-107127-7	REW-12-20161005	Total/NA	Water	300.0	
480-107127-13	MW-560-20161005	Total/NA	Water	300.0	
480-107127-14	MW-561-20161005	Total/NA	Water	300.0	
480-107127-15	MW-563-20161005	Total/NA	Water	300.0	
MB 480-324265/30	Method Blank	Total/NA	Water	300.0	
MB 480-324265/4	Method Blank	Total/NA	Water	300.0	
LCS 480-324265/29	Lab Control Sample	Total/NA	Water	300.0	
LCS 480-324265/3	Lab Control Sample	Total/NA	Water	300.0	
480-107127-5 MS	REW-10-20161005	Total/NA	Water	300.0	

Analysis Batch: 324328

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-107127-2	REW-7-20161005	Total/NA	Water	SM 2320B	
480-107127-3	REW-8-20161005	Total/NA	Water	SM 2320B	
480-107127-4	REW-9-20161005	Total/NA	Water	SM 2320B	
480-107127-5	REW-10-20161005	Total/NA	Water	SM 2320B	
480-107127-6	REW-11-20161005	Total/NA	Water	SM 2320B	
480-107127-7	REW-12-20161005	Total/NA	Water	SM 2320B	
480-107127-13	MW-560-20161005	Total/NA	Water	SM 2320B	
480-107127-14	MW-561-20161005	Total/NA	Water	SM 2320B	
480-107127-15	MW-563-20161005	Total/NA	Water	SM 2320B	
MB 480-324328/30	Method Blank	Total/NA	Water	SM 2320B	
MB 480-324328/54	Method Blank	Total/NA	Water	SM 2320B	
LCS 480-324328/31	Lab Control Sample	Total/NA	Water	SM 2320B	
LCS 480-324328/55	Lab Control Sample	Total/NA	Water	SM 2320B	

Analysis Batch: 324329

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-107127-2	REW-7-20161005	Total/NA	Water	9040C	
480-107127-3	REW-8-20161005	Total/NA	Water	9040C	
480-107127-4	REW-9-20161005	Total/NA	Water	9040C	
480-107127-5	REW-10-20161005	Total/NA	Water	9040C	
480-107127-6	REW-11-20161005	Total/NA	Water	9040C	
480-107127-7	REW-12-20161005	Total/NA	Water	9040C	
480-107127-13	MW-560-20161005	Total/NA	Water	9040C	
480-107127-14	MW-561-20161005	Total/NA	Water	9040C	

TestAmerica Buffalo

QC Association Summary

Client: Innovative Engineering Solutions, Inc
 Project/Site: IDS Wayland

TestAmerica Job ID: 480-107127-1

General Chemistry (Continued)

Analysis Batch: 324329 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-107127-15	MW-563-20161005	Total/NA	Water	9040C	
LCS 480-324329/1	Lab Control Sample	Total/NA	Water	9040C	
LCS 480-324329/23	Lab Control Sample	Total/NA	Water	9040C	
480-107127-3 DU	REW-8-20161005	Total/NA	Water	9040C	

Analysis Batch: 324587

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-107127-2	REW-7-20161005	Total/NA	Water	9060A	
480-107127-3	REW-8-20161005	Total/NA	Water	9060A	
480-107127-5	REW-10-20161005	Total/NA	Water	9060A	
480-107127-6	REW-11-20161005	Total/NA	Water	9060A	
480-107127-7	REW-12-20161005	Total/NA	Water	9060A	
480-107127-13	MW-560-20161005	Total/NA	Water	9060A	
480-107127-14	MW-561-20161005	Total/NA	Water	9060A	
MB 480-324587/28	Method Blank	Total/NA	Water	9060A	
MB 480-324587/4	Method Blank	Total/NA	Water	9060A	
MB 480-324587/52	Method Blank	Total/NA	Water	9060A	
LCS 480-324587/29	Lab Control Sample	Total/NA	Water	9060A	
LCS 480-324587/5	Lab Control Sample	Total/NA	Water	9060A	
LCS 480-324587/53	Lab Control Sample	Total/NA	Water	9060A	
480-107127-2 MS	REW-7-20161005	Total/NA	Water	9060A	
480-107127-14 MS	MW-561-20161005	Total/NA	Water	9060A	
480-107127-3 DU	REW-8-20161005	Total/NA	Water	9060A	
480-107127-5 DU	REW-10-20161005	Total/NA	Water	9060A	

Prep Batch: 324600

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-107127-2	REW-7-20161005	Total/NA	Water	Distill/Ammonia	
480-107127-3	REW-8-20161005	Total/NA	Water	Distill/Ammonia	
480-107127-4	REW-9-20161005	Total/NA	Water	Distill/Ammonia	
480-107127-5	REW-10-20161005	Total/NA	Water	Distill/Ammonia	
480-107127-6	REW-11-20161005	Total/NA	Water	Distill/Ammonia	
480-107127-7	REW-12-20161005	Total/NA	Water	Distill/Ammonia	
480-107127-13	MW-560-20161005	Total/NA	Water	Distill/Ammonia	
480-107127-14	MW-561-20161005	Total/NA	Water	Distill/Ammonia	
480-107127-15	MW-563-20161005	Total/NA	Water	Distill/Ammonia	
MB 480-324600/2-A	Method Blank	Total/NA	Water	Distill/Ammonia	
LCS 480-324600/1-A	Lab Control Sample	Total/NA	Water	Distill/Ammonia	
480-107127-4 MS	REW-9-20161005	Total/NA	Water	Distill/Ammonia	
480-107127-3 DU	REW-8-20161005	Total/NA	Water	Distill/Ammonia	

Analysis Batch: 324604

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-107127-2	REW-7-20161005	Total/NA	Water	350.1	324600
480-107127-3	REW-8-20161005	Total/NA	Water	350.1	324600
480-107127-4	REW-9-20161005	Total/NA	Water	350.1	324600
480-107127-5	REW-10-20161005	Total/NA	Water	350.1	324600
480-107127-6	REW-11-20161005	Total/NA	Water	350.1	324600
480-107127-7	REW-12-20161005	Total/NA	Water	350.1	324600
480-107127-13	MW-560-20161005	Total/NA	Water	350.1	324600
480-107127-14	MW-561-20161005	Total/NA	Water	350.1	324600

TestAmerica Buffalo

QC Association Summary

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-107127-1

General Chemistry (Continued)

Analysis Batch: 324604 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-107127-15	MW-563-20161005	Total/NA	Water	350.1	324600
MB 480-324600/2-A	Method Blank	Total/NA	Water	350.1	324600
LCS 480-324600/1-A	Lab Control Sample	Total/NA	Water	350.1	324600
480-107127-4 MS	REW-9-20161005	Total/NA	Water	350.1	324600
480-107127-3 DU	REW-8-20161005	Total/NA	Water	350.1	324600

Analysis Batch: 324714

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-107127-2	REW-7-20161005	Total/NA	Water	300.0	
480-107127-3	REW-8-20161005	Total/NA	Water	300.0	
480-107127-13	MW-560-20161005	Total/NA	Water	300.0	
480-107127-14	MW-561-20161005	Total/NA	Water	300.0	
480-107127-15	MW-563-20161005	Total/NA	Water	300.0	
MB 480-324714/30	Method Blank	Total/NA	Water	300.0	
MB 480-324714/4	Method Blank	Total/NA	Water	300.0	
LCS 480-324714/29	Lab Control Sample	Total/NA	Water	300.0	
LCS 480-324714/3	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 324850

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-107127-4	REW-9-20161005	Total/NA	Water	300.0	
MB 480-324850/4	Method Blank	Total/NA	Water	300.0	
LCS 480-324850/3	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 325086

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-107127-4	REW-9-20161005	Total/NA	Water	9060A	
480-107127-15	MW-563-20161005	Total/NA	Water	9060A	
MB 480-325086/28	Method Blank	Total/NA	Water	9060A	
LCS 480-325086/29	Lab Control Sample	Total/NA	Water	9060A	

Lab Chronicle

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-107127-1

Client Sample ID: MW-269Ma-20161005

Lab Sample ID: 480-107127-1

Date Collected: 10/05/16 08:15

Matrix: Water

Date Received: 10/06/16 01:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	324317	10/07/16 14:36	RRS	TAL BUF
Total/NA	Prep	3535A			110109	10/12/16 19:30	BDL	TAL BUR
Total/NA	Analysis	522		1	110131	10/13/16 14:34	TPB	TAL BUR

Client Sample ID: REW-7-20161005

Lab Sample ID: 480-107127-2

Date Collected: 10/05/16 11:20

Matrix: Water

Date Received: 10/06/16 01:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	324317	10/07/16 15:00	RRS	TAL BUF
Total/NA	Prep	3005A			324299	10/07/16 09:30	MVZ	TAL BUF
Total/NA	Analysis	6010		1	324706	10/08/16 11:43	TRB	TAL BUF
Total/NA	Analysis	300.0		5	324265	10/07/16 08:48	CAV	TAL BUF
Total/NA	Analysis	300.0		1	324714	10/10/16 13:56	CAV	TAL BUF
Total/NA	Prep	Distill/Ammonia			324600	10/09/16 13:43	CEA	TAL BUF
Total/NA	Analysis	350.1		1	324604	10/09/16 14:15	CEA	TAL BUF
Total/NA	Analysis	353.2		1	324264	10/06/16 14:28	ELR	TAL BUF
Total/NA	Analysis	9040C		1	324329	10/06/16 18:36	KMF	TAL BUF
Total/NA	Analysis	9060A		1	324587	10/07/16 20:42	EKB	TAL BUF
Total/NA	Analysis	SM 2320B		1	324328	10/06/16 18:45	KMF	TAL BUF
Total/NA	Analysis	SM 4500 P E		1	324228	10/06/16 14:30	LED	TAL BUF

Client Sample ID: REW-8-20161005

Lab Sample ID: 480-107127-3

Date Collected: 10/05/16 10:25

Matrix: Water

Date Received: 10/06/16 01:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	324317	10/07/16 15:24	RRS	TAL BUF
Total/NA	Prep	3005A			324299	10/07/16 09:30	MVZ	TAL BUF
Total/NA	Analysis	6010		1	324706	10/08/16 11:46	TRB	TAL BUF
Total/NA	Analysis	300.0		5	324265	10/07/16 08:56	CAV	TAL BUF
Total/NA	Analysis	300.0		1	324714	10/10/16 14:04	CAV	TAL BUF
Total/NA	Prep	Distill/Ammonia			324600	10/09/16 13:43	CEA	TAL BUF
Total/NA	Analysis	350.1		1	324604	10/09/16 14:16	CEA	TAL BUF
Total/NA	Analysis	353.2		1	324264	10/06/16 14:29	ELR	TAL BUF
Total/NA	Analysis	9040C		1	324329	10/06/16 18:41	KMF	TAL BUF
Total/NA	Analysis	9060A		1	324587	10/07/16 21:38	EKB	TAL BUF
Total/NA	Analysis	SM 2320B		1	324328	10/06/16 19:05	KMF	TAL BUF
Total/NA	Analysis	SM 4500 P E		1	324228	10/06/16 14:30	LED	TAL BUF

TestAmerica Buffalo

Lab Chronicle

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-107127-1

Client Sample ID: REW-9-20161005

Lab Sample ID: 480-107127-4

Date Collected: 10/05/16 09:30

Matrix: Water

Date Received: 10/06/16 01:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	324317	10/07/16 15:48	RRS	TAL BUF
Total/NA	Prep	3005A			324299	10/07/16 09:30	MVZ	TAL BUF
Total/NA	Analysis	6010		1	324706	10/08/16 12:00	TRB	TAL BUF
Total/NA	Analysis	300.0		5	324265	10/07/16 09:04	CAV	TAL BUF
Total/NA	Analysis	300.0		1	324850	10/11/16 11:13	CAV	TAL BUF
Total/NA	Prep	Distill/Ammonia			324600	10/09/16 13:43	CEA	TAL BUF
Total/NA	Analysis	350.1		1	324604	10/09/16 14:18	CEA	TAL BUF
Total/NA	Analysis	353.2		1	324264	10/06/16 14:31	ELR	TAL BUF
Total/NA	Analysis	9040C		1	324329	10/06/16 18:46	KMF	TAL BUF
Total/NA	Analysis	9060A		5	325086	10/12/16 00:41	EKB	TAL BUF
Total/NA	Analysis	SM 2320B		1	324328	10/06/16 19:12	KMF	TAL BUF
Total/NA	Analysis	SM 4500 P E		1	324228	10/06/16 14:30	LED	TAL BUF

Client Sample ID: REW-10-20161005

Lab Sample ID: 480-107127-5

Date Collected: 10/05/16 08:55

Matrix: Water

Date Received: 10/06/16 01:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	324317	10/07/16 16:12	RRS	TAL BUF
Total/NA	Prep	3005A			324299	10/07/16 09:30	MVZ	TAL BUF
Total/NA	Analysis	6010		1	324706	10/08/16 12:04	TRB	TAL BUF
Total/NA	Analysis	300.0		2	324265	10/07/16 09:12	CAV	TAL BUF
Total/NA	Prep	Distill/Ammonia			324600	10/09/16 13:43	CEA	TAL BUF
Total/NA	Analysis	350.1		1	324604	10/09/16 14:21	CEA	TAL BUF
Total/NA	Analysis	353.2		1	324264	10/06/16 14:32	ELR	TAL BUF
Total/NA	Analysis	9040C		1	324329	10/06/16 18:48	KMF	TAL BUF
Total/NA	Analysis	9060A		1	324587	10/08/16 01:22	EKB	TAL BUF
Total/NA	Analysis	SM 2320B		1	324328	10/06/16 19:18	KMF	TAL BUF
Total/NA	Analysis	SM 4500 P E		1	324228	10/06/16 14:30	LED	TAL BUF

Client Sample ID: REW-11-20161005

Lab Sample ID: 480-107127-6

Date Collected: 10/05/16 12:20

Matrix: Water

Date Received: 10/06/16 01:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	324317	10/07/16 16:36	RRS	TAL BUF
Total/NA	Prep	3005A			324299	10/07/16 09:30	MVZ	TAL BUF
Total/NA	Analysis	6010		1	324706	10/08/16 12:07	TRB	TAL BUF
Total/NA	Analysis	300.0		5	324265	10/07/16 10:09	CAV	TAL BUF
Total/NA	Prep	Distill/Ammonia			324600	10/09/16 13:43	CEA	TAL BUF
Total/NA	Analysis	350.1		1	324604	10/09/16 14:22	CEA	TAL BUF

TestAmerica Buffalo

Lab Chronicle

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-107127-1

Client Sample ID: REW-11-20161005

Lab Sample ID: 480-107127-6

Date Collected: 10/05/16 12:20

Matrix: Water

Date Received: 10/06/16 01:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	353.2		1	324264	10/06/16 14:33	ELR	TAL BUF
Total/NA	Analysis	9040C		1	324329	10/06/16 18:51	KMF	TAL BUF
Total/NA	Analysis	9060A		1	324587	10/08/16 02:19	EKB	TAL BUF
Total/NA	Analysis	SM 2320B		1	324328	10/06/16 19:23	KMF	TAL BUF
Total/NA	Analysis	SM 4500 P E		1	324228	10/06/16 14:30	LED	TAL BUF

Client Sample ID: REW-12-20161005

Lab Sample ID: 480-107127-7

Date Collected: 10/05/16 13:10

Matrix: Water

Date Received: 10/06/16 01:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		2	324317	10/07/16 17:00	RRS	TAL BUF
Total/NA	Prep	3005A			324299	10/07/16 09:30	MVZ	TAL BUF
Total/NA	Analysis	6010		1	324706	10/08/16 12:11	TRB	TAL BUF
Total/NA	Analysis	300.0		5	324265	10/07/16 10:17	CAV	TAL BUF
Total/NA	Prep	Distill/Ammonia			324600	10/09/16 13:43	CEA	TAL BUF
Total/NA	Analysis	350.1		1	324604	10/09/16 14:23	CEA	TAL BUF
Total/NA	Analysis	353.2		1	324264	10/06/16 14:37	ELR	TAL BUF
Total/NA	Analysis	9040C		1	324329	10/06/16 18:54	KMF	TAL BUF
Total/NA	Analysis	9060A		1	324587	10/08/16 02:47	EKB	TAL BUF
Total/NA	Analysis	SM 2320B		1	324328	10/06/16 19:30	KMF	TAL BUF
Total/NA	Analysis	SM 4500 P E		1	324228	10/06/16 14:30	LED	TAL BUF

Client Sample ID: DUP3-20161005

Lab Sample ID: 480-107127-8

Date Collected: 10/05/16 00:00

Matrix: Water

Date Received: 10/06/16 01:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	324317	10/07/16 17:24	RRS	TAL BUF

Client Sample ID: TRIP BLANKS

Lab Sample ID: 480-107127-9

Date Collected: 10/05/16 00:00

Matrix: Water

Date Received: 10/06/16 01:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	324317	10/07/16 17:47	RRS	TAL BUF

Lab Chronicle

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-107127-1

Client Sample ID: MW-264M-20161005

Lab Sample ID: 480-107127-10

Date Collected: 10/05/16 11:15

Matrix: Water

Date Received: 10/06/16 01:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	324317	10/07/16 18:11	RRS	TAL BUF

Client Sample ID: MW-266Ma-20161005

Lab Sample ID: 480-107127-11

Date Collected: 10/05/16 10:25

Matrix: Water

Date Received: 10/06/16 01:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	324317	10/07/16 18:35	RRS	TAL BUF
Total/NA	Prep	3535A			110109	10/12/16 19:30	BDL	TAL BUR
Total/NA	Analysis	522		1	110131	10/13/16 14:52	TPB	TAL BUR

Client Sample ID: MW-266Mb-20161005

Lab Sample ID: 480-107127-12

Date Collected: 10/05/16 09:40

Matrix: Water

Date Received: 10/06/16 01:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	324317	10/07/16 18:59	RRS	TAL BUF

Client Sample ID: MW-560-20161005

Lab Sample ID: 480-107127-13

Date Collected: 10/05/16 13:00

Matrix: Water

Date Received: 10/06/16 01:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	324456	10/08/16 02:01	JWG	TAL BUF
Total/NA	Prep	3005A			324299	10/07/16 09:30	MVZ	TAL BUF
Total/NA	Analysis	6010		1	324706	10/08/16 12:14	TRB	TAL BUF
Total/NA	Analysis	300.0		5	324265	10/07/16 10:25	CAV	TAL BUF
Total/NA	Analysis	300.0		1	324714	10/10/16 14:12	CAV	TAL BUF
Total/NA	Prep	Distill/Ammonia			324600	10/09/16 13:43	CEA	TAL BUF
Total/NA	Analysis	350.1		1	324604	10/09/16 14:24	CEA	TAL BUF
Total/NA	Analysis	353.2		1	324264	10/06/16 14:38	ELR	TAL BUF
Total/NA	Analysis	9040C		1	324329	10/06/16 18:57	KMF	TAL BUF
Total/NA	Analysis	9060A		1	324587	10/08/16 03:43	EKB	TAL BUF
Total/NA	Analysis	SM 2320B		1	324328	10/06/16 19:38	KMF	TAL BUF
Total/NA	Analysis	SM 4500 P E		1	324228	10/06/16 14:30	LED	TAL BUF

Client Sample ID: MW-561-20161005

Lab Sample ID: 480-107127-14

Date Collected: 10/05/16 12:00

Matrix: Water

Date Received: 10/06/16 01:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	324621	10/10/16 00:47	JWG	TAL BUF

TestAmerica Buffalo

Lab Chronicle

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-107127-1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3005A			324299	10/07/16 09:30	MVZ	TAL BUF
Total/NA	Analysis	6010		1	324706	10/08/16 12:18	TRB	TAL BUF
Total/NA	Analysis	300.0		5	324265	10/07/16 10:33	CAV	TAL BUF
Total/NA	Analysis	300.0		1	324714	10/10/16 14:20	CAV	TAL BUF
Total/NA	Prep	Distill/Ammonia			324600	10/09/16 13:43	CEA	TAL BUF
Total/NA	Analysis	350.1		5	324604	10/09/16 14:33	CEA	TAL BUF
Total/NA	Analysis	353.2		1	324264	10/06/16 14:40	ELR	TAL BUF
Total/NA	Analysis	9040C		1	324329	10/06/16 18:59	KMF	TAL BUF
Total/NA	Analysis	9060A		1	324587	10/08/16 06:03	EKB	TAL BUF
Total/NA	Analysis	SM 2320B		1	324328	10/06/16 19:46	KMF	TAL BUF
Total/NA	Analysis	SM 4500 P E		1	324228	10/06/16 14:30	LED	TAL BUF

Client Sample ID: MW-563-20161005

Lab Sample ID: 480-107127-15

Date Collected: 10/05/16 13:55

Matrix: Water

Date Received: 10/06/16 01:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	324456	10/08/16 02:49	JWG	TAL BUF
Total/NA	Prep	3005A			324299	10/07/16 09:30	MVZ	TAL BUF
Total/NA	Analysis	6010		1	324706	10/08/16 12:22	TRB	TAL BUF
Total/NA	Analysis	300.0		5	324265	10/07/16 10:42	CAV	TAL BUF
Total/NA	Analysis	300.0		1	324714	10/10/16 14:28	CAV	TAL BUF
Total/NA	Prep	Distill/Ammonia			324600	10/09/16 13:43	CEA	TAL BUF
Total/NA	Analysis	350.1		1	324604	10/09/16 14:25	CEA	TAL BUF
Total/NA	Analysis	353.2		1	324264	10/06/16 14:41	ELR	TAL BUF
Total/NA	Analysis	9040C		1	324329	10/06/16 19:02	KMF	TAL BUF
Total/NA	Analysis	9060A		1	325086	10/12/16 01:09	EKB	TAL BUF
Total/NA	Analysis	SM 2320B		1	324328	10/06/16 19:52	KMF	TAL BUF
Total/NA	Analysis	SM 4500 P E		1	324228	10/06/16 14:30	LED	TAL BUF

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

TAL BUR = TestAmerica Burlington, 30 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

Certification Summary

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-107127-1

Laboratory: TestAmerica Buffalo

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Arkansas DEQ	State Program	6	88-0686	07-06-17
California	State Program	9	1169CA	09-30-17
Connecticut	State Program	1	PH-0568	09-30-18
Florida	NELAP	4	E87672	06-30-17
Georgia	State Program	4	N/A	03-31-17
Georgia	State Program	4	956	03-31-17
Illinois	NELAP	5	200003	09-30-16 *
Iowa	State Program	7	374	03-01-17
Kansas	NELAP	7	E-10187	10-31-16
Kentucky (DW)	State Program	4	90029	12-31-16
Kentucky (UST)	State Program	4	30	03-31-17
Kentucky (WW)	State Program	4	90029	12-31-16
Louisiana	NELAP	6	02031	06-30-17
Maine	State Program	1	NY00044	12-04-16
Maryland	State Program	3	294	03-31-17
Massachusetts	State Program	1	M-NY044	06-30-17
Michigan	State Program	5	9937	03-31-17
Minnesota	NELAP	5	036-999-337	12-31-16
New Hampshire	NELAP Primary AB	1	2973	09-11-17
New Hampshire	NELAP Secondary AB	1	2337	11-17-16
New Jersey	NELAP	2	NY455	06-30-17
New York	NELAP	2	10026	03-31-17
North Dakota	State Program	8	R-176	03-31-17
Oklahoma	State Program	6	9421	08-31-17
Oregon	NELAP	10	NY200003	06-09-17
Pennsylvania	NELAP	3	68-00281	07-31-17
Rhode Island	State Program	1	LAO00328	12-30-16
Tennessee	State Program	4	TN02970	03-31-17
Texas	NELAP	6	T104704412-15-6	07-31-17
USDA	Federal		P330-11-00386	11-26-17
Virginia	NELAP	3	460185	09-14-17
Washington	State Program	10	C784	02-10-17
West Virginia DEP	State Program	3	252	09-30-16 *
Wisconsin	State Program	5	998310390	08-31-17

Laboratory: TestAmerica Burlington

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-0751	09-30-17
DE Haz. Subst. Cleanup Act (HSCA)	State Program	3	NA	02-02-17
Florida	NELAP	4	E87467	06-30-17
L-A-B	DoD ELAP		L2336	02-26-17
Maine	State Program	1	VT00008	04-17-17
Minnesota	NELAP	5	050-999-436	12-31-16
New Hampshire	NELAP	1	2006	12-18-16
New Jersey	NELAP	2	VT972	06-30-17
New York	NELAP	2	10391	04-01-17
Pennsylvania	NELAP	3	68-00489	04-30-17
Rhode Island	State Program	1	LAO00298	12-30-16

* Certification renewal pending - certification considered valid.

Certification Summary

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-107127-1

Laboratory: TestAmerica Burlington (Continued)

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

Authority	Program	EPA Region	Certification ID	Expiration Date
US Fish & Wildlife	Federal		LE-058448-0	10-31-16
USDA	Federal		P330-11-00093	10-28-16
Vermont	State Program	1	VT-4000	12-31-16
Virginia	NELAP	3	460209	12-14-16

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

Method Summary

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-107127-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds (GC/MS)	MA DEP	TAL BUF
522	1,4 Dioxane (GC/MS SIM)	EPA	TAL BUR
6010	Metals (ICP)	SW846	TAL BUF
300.0	Anions, Ion Chromatography	MCAWW	TAL BUF
350.1	Nitrogen, Ammonia	MCAWW	TAL BUF
353.2	Nitrate	EPA	TAL BUF
9040C	pH	SW846	TAL BUF
9060A	Organic Carbon, Total (TOC)	SW846	TAL BUF
SM 2320B	Alkalinity	SM	TAL BUF
SM 4500 P E	Orthophosphate	SM	TAL BUF

Protocol References:

EPA = US Environmental Protection Agency

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.

SM = "Standard Methods For The Examination Of Water And Wastewater",

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

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

TAL BUR = TestAmerica Burlington, 30 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

Sample Summary

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-107127-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-107127-1	MW-269Ma-20161005	Water	10/05/16 08:15	10/06/16 01:45
480-107127-2	REW-7-20161005	Water	10/05/16 11:20	10/06/16 01:45
480-107127-3	REW-8-20161005	Water	10/05/16 10:25	10/06/16 01:45
480-107127-4	REW-9-20161005	Water	10/05/16 09:30	10/06/16 01:45
480-107127-5	REW-10-20161005	Water	10/05/16 08:55	10/06/16 01:45
480-107127-6	REW-11-20161005	Water	10/05/16 12:20	10/06/16 01:45
480-107127-7	REW-12-20161005	Water	10/05/16 13:10	10/06/16 01:45
480-107127-8	DUP3-20161005	Water	10/05/16 00:00	10/06/16 01:45
480-107127-9	TRIP BLANKS	Water	10/05/16 00:00	10/06/16 01:45
480-107127-10	MW-264M-20161005	Water	10/05/16 11:15	10/06/16 01:45
480-107127-11	MW-266Ma-20161005	Water	10/05/16 10:25	10/06/16 01:45
480-107127-12	MW-266Mb-20161005	Water	10/05/16 09:40	10/06/16 01:45
480-107127-13	MW-560-20161005	Water	10/05/16 13:00	10/06/16 01:45
480-107127-14	MW-561-20161005	Water	10/05/16 12:00	10/06/16 01:45
480-107127-15	MW-563-20161005	Water	10/05/16 13:55	10/06/16 01:45

Login Sample Receipt Checklist

Client: Innovative Engineering Solutions, Inc

Job Number: 480-107127-1

Login Number: 107127

List Source: TestAmerica Buffalo

List Number: 1

Creator: Williams, Christopher S

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
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 (Excluding tests with immediate HTs)..	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	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	IESI
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

Login Sample Receipt Checklist

Client: Innovative Engineering Solutions, Inc

Job Number: 480-107127-1

Login Number: 107127

List Number: 2

Creator: Lavigne, Scott M

List Source: TestAmerica Burlington

List Creation: 10/06/16 01:13 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	True	Seal present with no number.
Sample custody seals, if present, are 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	5.2°C,2.2C°,2.4C°
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 containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	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.	N/A	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica Boston
240 Bear Hill Road - Suite 104
Waltham MA 02451
Phone: (781) 466-6900 Fax: (781) 466-6901

TestAmerica Westfield
501 Southampton Road
Westfield MA 01085
Phone: (413) 572-4000 Fax: (303) 467-7247

Chain of Custody Record

Client Information: Client Contact: <u>Vicki Peninger</u> Company: <u>INNOVATIVE ENGINEERS SOLUTIONS INC</u> Address: <u>23 Spring St</u> City: <u>Waldpole</u> State and Zip: <u>MA 02081</u> Client's Phone: <u>508-668-0033</u> Client's Contact Email: <u>V.Peninger@InnovativeEng.com</u> Client's Project Name/Number: <u>Realford - Wayland RA-008</u> Sample Collection Site Name & Location: <u>Wayland MA</u>		Lab P/W: _____ Lab COC Barcode Label: _____ E-Mail: _____	
Sample Collector's Name (Please Print Neatly): <u>Carin Hensch</u> Sample Collector's Phone: _____		COC No: <u>37053</u> Page: <u>2</u> of <u>2</u> Job #: _____	
Due Date Requested: <u>10/12/16</u> Turnaround Time (TAT) Requested (business days): <u>5 days</u>		Analysis Requested: _____ Preservation Codes: _____	
Quote # or Project #: _____ PO #: <u>RA-008</u> W/O #: _____ PWS ID #: _____		Preservation Programs: MCP <input type="checkbox"/> GW/IS1 <input type="checkbox"/> RCP <input type="checkbox"/> CT RSR <input type="checkbox"/> DEP Form <input type="checkbox"/> EDD Required <input type="checkbox"/> eDEP Filing <input type="checkbox"/> NPDES <input type="checkbox"/>	
Sample Identification		SUBCONTRACT POLICY: _____ Unless you provide instructions to the contrary, or specify which sub-contract files are or are not to be used, you agree to advance to permit TestAmerica to use certified subcontract labs, without any additional notification made by us, as necessary to fulfill your work order.	
Sample Collection Date (MM/DD/YY)	Sample Collection Time (24 Hour Clock)	Sample Type: C-Comp G-Grab	Matrix Type **
<u>10/15/16</u>	<u>1115</u>	<u>C</u>	<u>W</u>
<u>10/15/16</u>	<u>1025</u>	<u>C</u>	<u>W</u>
<u>10/15/16</u>	<u>0940</u>	<u>C</u>	<u>W</u>
<u>10/15/16</u>	<u>1300</u>	<u>C</u>	<u>W</u>
<u>10/15/16</u>	<u>1200</u>	<u>C</u>	<u>W</u>
<u>10/15/16</u>	<u>1355</u>	<u>C</u>	<u>W</u>
Possible Hazard Identification (please check off each that may apply): <input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological		Sample Disposal Requirements (A fee may be assessed if samples are retained longer than 1 month): <input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months	
Relinquished by: _____ Date/Time: <u>10/13/16</u> <u>1450</u>		Received by: _____ Date/Time: <u>10-15-16</u> <u>1100</u>	
Relinquished by: _____ Date/Time: <u>10-15-16</u> <u>1100</u>		Received by: _____ Date/Time: <u>10-6-16</u> <u>0145</u>	
Relinquished by: _____ Date/Time: _____		Received by: _____ Date/Time: _____	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.: <u>1.1.16 #1</u>	

TestAmerica Westfield
 501 Southampton Road
 Westfield MA 01085
 Phone: (413) 572-4000 Fax: (303) 467-7247

TestAmerica Boston
 240 Bear Hill Road -- Suite 104
 Waltham MA 02451
 Phone: (781) 466-6900 Fax: (781) 466-6901

360325-Boston

TestAmerica
 THE LEADER IN ENVIRONMENTAL TESTING

Chain of Custody Record

Client Information:
 Client Contact: Viki Pennington
 Company: Environmental Engineers Solutions
 Address: 23 Spring St
Worcester
 State and Zip: MA 02081
 Client's Phone: 508-668-0033
 Client's Contact Email: v.pennington@estonline.com
 Client's Project Name/Number: Remediation - Weymouth RA008
 Sample Collection Site Name & Location: Weymouth MA

Sample Identification

Sample Collection Date (MM/DD/YY)	Sample Collection Time (24 Hour Clock)	Sample Type: C=Comp G=Grab	Matrix Type **	Analysis Requested	Total Number of Containers (enter total for each line)	Special Instructions & Notes:
10/15/16	0815	C	W	820 MCP	1	
10/15/16	1120	C	W	60MCP Total H2O	1	
10/15/16	1025	C	W	500 MCP	1	
10/15/16	0930	C	W	450 MCP	1	
10/15/16	0855	C	W	300 MCP	1	
10/15/16	1220	C	W	200 MCP	1	
10/15/16	1310	C	W	100 MCP	1	
10/15/16	-	C	W	50 MCP	1	
-	-	-	W	200 MCP	1	

Possible Hazard Identification (please check off each that may apply):
 Non-Hazard Flammable Skin Irritant Poison B Unknown Radiological
 ** Matrix Types: A=Air S=Solid/Soil W=Water O=Oil X=Waste (non-water) Z=Other:

Chain of Custody:
 Relinquished by: [Signature] Date/Time: 10/15/16 1450 Company: JESE
 Relinquished by: [Signature] Date/Time: 10/16/16 1030 Company: [Signature]
 Relinquished by: [Signature] Date/Time: 10/16/16 1030 Company: [Signature]

Client Information:
 Sample Collector's Name (Please Print Neatly): Dawn Saxe
 Sample Collector's Phone: 308-404-3191
 Lab PM: [Signature]
 E-Mail: [Signature]
 Lab COC Barcode Label: 37051
 Page: 1 of 2
 Job #: 2

Preservation Codes:
 A - Hydrochloric Acid J - Deionized Water
 B - Sodium Hydroxide M - Hexane
 C - Zinc Acetate N - No Preservative
 D - Nitric Acid P - Sodium Sulfate
 E - Sodium Bisulfite Q - Sodium Sulfite
 F - Methanol R - Sodium Thiosulfate
 H - Ascorbic Acid S - Sulfuric Acid
 Z - other (specify)

Regulatory Programs:
 MCP GW/IS1
 RCP CT RSR
 DEP Form EDD Required
 aDEP Filing NPDES

SUBCONTRACT POLICY:
 Unless you provide instructions to the contrary, or specify which sub-contract labs are or are not to be used, you agree in advance to permit TestAmerica to use certified, subcontract labs, without any additional notification made by us, as necessary to fulfill your work order.

Special Instructions & Notes:
522-1-4 DoDanne
To Burlington

Barcode: 480-107127 Chain of Custody

Sample Disposal:
 Return To Client Disposal By Lab Archive For WILMURS

NOTE!! ALL SAMPLES MUST BE TRANSPORTED IN A COOLER, ON ICE !!

Custody Seals Intact:
 Yes No Δ No Δ No
 Cooler Temperature(s) °C and Other Remarks:



TestAmerica Westfield
 501 Southampton Road
 Westfield MA 01085
 Phone: (413) 572-4000 Fax: (303) 467-7247

TestAmerica Boston
 240 Bear Hill Road -- Suite 104
 Waltham MA 02451
 Phone: (781) 466-6900 Fax: (781) 466-6901

Chain of Custody Record

TestAmerica
 THE LEADER IN ENVIRONMENTAL TESTING

Client Information:		Client Contact: <u>Vicki Peirano</u>	Lab PM: _____	COC No.: <u>37053</u>			
Company: <u>INNOVATIVE ENGINEERING SOLUTIONS INC</u>		Sample Collector's Name (Please Print Neatly): <u>Scott Hirsch</u>	E-Mail: _____	Page: <u>2</u> of <u>2</u>			
Address: <u>23 Spring St</u>		Due Date Requested: <u>10/12/16</u>	Job #: _____				
City: <u>Walpole</u>		Turnaround Time (TAT) Requested (business days): <u>5 days</u>	Preservation Codes: A - Hydrochloric Acid J - Deionized Water B - Sodium Hydroxide M - Hexane C - Zinc Acetate N - No Preservative D - Nitric Acid P - Sodium Sulfate E - Sodium Bisulfite Q - Sodium Thiosulfate F - Methanol R - Sodium Thiosulfate H - Ascorbic Acid S - Sulfuric Acid Z - other (specify) _____				
State and Zip: <u>MA 02081</u>		Quote # or Project #: _____	Regulatory Programs: MCP <input type="checkbox"/> GW/IS1 <input type="checkbox"/> RCP <input type="checkbox"/> CT RSR <input type="checkbox"/> DEP Form <input type="checkbox"/> EDD Required <input type="checkbox"/> eDEP Filing <input type="checkbox"/> NPDES <input type="checkbox"/>				
Client's Contact Email: <u>v.peirano@innovativeeng.com</u>		PO #: <u>RA-008</u>	SUBCONTRACT POLICY: advance to permit Test-America to use certified, unless you provide instructions to the contrary, or subcontract labs, without specify which sub-contract any additional notification labs are or are not to be used, you agree in to fulfill your work order.				
Client's Project Name/Number: <u>Remediation - Walpole</u>		WO #: _____	Special Instructions & Notes: <u>522-14 Dixon</u> <u>To Burlington</u>				
Sample Collection Site Name & Location: <u>Walpole MA</u>		PWS ID #: _____					
Sample Identification		Sample Collection Date (MM/DD/YY)	Sample Collection Time (24 Hour Clock)	Sample Type: C=Comp G=Grab	Matrix Type **	Analysis Requested	Total Number of Containers (enter total for each line)
<u>MW-244M - 20161005</u>		<u>10/5/16</u>	<u>1115</u>	<u>C</u>	<u>W</u>	<u>9010 MCP Tox Hg</u>	<u>9</u>
<u>MW-244M - 20161005</u>		<u>10/5/16</u>	<u>1025</u>	<u>C</u>	<u>W</u>	<u>9010 MCP Tox Hg</u>	<u>3</u>
<u>MW-244M - 20161005</u>		<u>10/5/16</u>	<u>0940</u>	<u>C</u>	<u>W</u>	<u>9010 MCP Tox Hg</u>	<u>3</u>
<u>MW-260 - 20161005</u>		<u>10/5/16</u>	<u>1300</u>	<u>C</u>	<u>W</u>	<u>9010 MCP Tox Hg</u>	<u>9</u>
<u>MW-261 - 20161005</u>		<u>10/5/16</u>	<u>1200</u>	<u>C</u>	<u>W</u>	<u>9010 MCP Tox Hg</u>	<u>9</u>
<u>MW-262 - 20161005</u>		<u>10/5/16</u>	<u>1355</u>	<u>C</u>	<u>W</u>	<u>9010 MCP Tox Hg</u>	<u>9</u>
Possible Hazard Identification (please check off each that may apply):		<input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological		<input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months		Sample Disposal Requirements (A fee may be assessed if samples are retained longer than 1 month):	
Relinquished by: _____		Date/Time: _____	Company: _____	NOTE!! ALL SAMPLES MUST BE TRANSPORTED IN A COOLER, ON ICE !!			
Relinquished by: _____		Date/Time: <u>10/5/16 1450</u>	Company: <u>TEST</u>	Received by: _____ Date/Time: <u>10/12/16 1400</u> Company: _____			
Relinquished by: _____		Date/Time: <u>10/5/16 1400</u>	Company: _____	Received by: _____ Date/Time: <u>10/16/16 1030</u> Company: _____			
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.: _____		Cooler Temperature(s) °C and Other Remarks: _____			



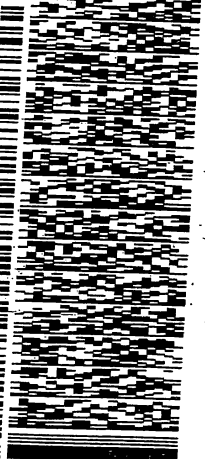
ORIGIN ID: BXCA (781) 466-6900
PAUL HOBART
TESTAMERICA
240 BEAR HILL ROAD
SUITE 104
MALTHAM, MA 02451
UNITED STATES US

SHIP DATE: 05OCT16
ACTWGT: 52.9 LB
CAD: 590887/CAFE2912

BILL RECIPIENT

TO SAMPLE RECEIVING
TESTAMERICA BURLINGTON
30 COMMUNITY DRIVE
SUITE 11
SOUTH BURLINGTON VT 05403
(802) 660-1980
REF: 1901 P01

DEPT:



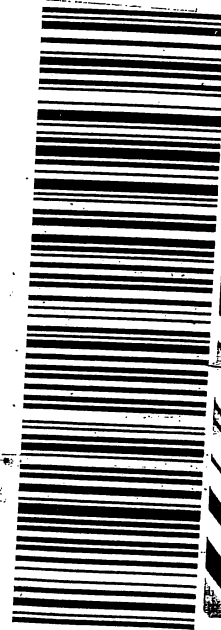
FedEx Express

THU - 06 OCT 10:30A
PRIORITY OVERNIGHT

1 of 3
TRK# 4258 8390 8167
0201
MASTER

NC BTVA

05403
VT-US BTV



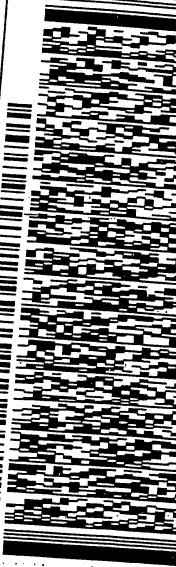
ORIGIN ID: BXCA (781) 466-6900
PAUL HOBART
TESTAMERICA
240 BEAR HILL ROAD
SUITE 104
MALTHAM, MA 02451
UNITED STATES US

SHIP DATE: 05OCT16
ACTWGT: 50.5 LB
CAD: 590887/CAFE2912

BILL RECIPIENT

TO SAMPLE RECEIVING
TESTAMERICA BURLINGTON
30 COMMUNITY DRIVE
SUITE 11
SOUTH BURLINGTON VT 05403
(802) 660-1980
REF: 1901 P01

DEPT:



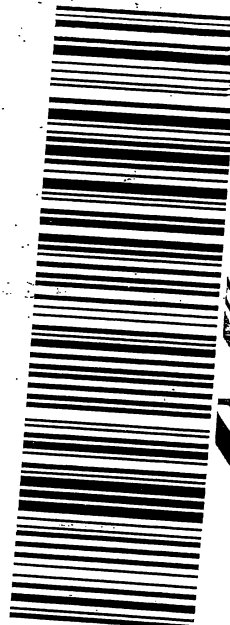
FedEx Express

THU - 06 OCT 10:30A
PRIORITY OVERNIGHT

2 of 3
MPS# 4258 8390 8178
0263
Met# 4258 8390 8167

NC BTVA

05403
VT-US BTV



- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15

SVC: PRIORITY OVERNIGHT

INSTR. REG. 0000 0100

ORIGIN ID: BXCA (781) 466-6900
 PAUL HOBART
 TESTAMERICA
 240 BEAR HILL ROAD
 SUITE 104
 WALTHAM, MA 02451
 UNITED STATES US

SHIP DATE: 05OCT16
 ACTWGT: 46.2 LB
 CAD: 590687/CAFE2912

BILL RECIPIENT

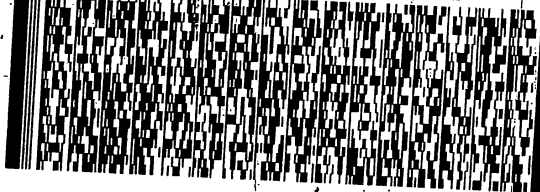
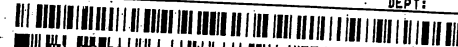
TO **SAMPLE RECEIVING**
TESTAMERICA BURLINGTON
30 COMMUNITY DRIVE
SUITE 11
SOUTH BURLINGTON VT 05403

(802) 680-1980

INU:

REF:

DEPT:



FedEx
Express



15151508130110V

3 of 3

MPS# 0263 **4258 8390 8189**

Mstr# 4258 8390 8167

0201

THU - 06 OCT 10:30A
PRIORITY OVERNIGHT

NC BTVA

05403

VT-US **BTV**



Part # 156146V-434 RIT2 02/17

538CL/ES2E/4389