

**Environmental  
Resources  
Management**

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

<http://www.erm.com>

14 November 2016  
Reference: 0321744

Wayland Meadows Development, Inc.  
Attn: Mr. Richard Gass  
145 Rosemary Street, Suite E  
Needham, MA 02494



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

Dear Mr. Gass:


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 one monitoring well located on Wayland Meadows Development, Inc. property in October 2016. These samples were submitted to 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



**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

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**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: 480-107127-1

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](mailto:denise.giglia@testamericainc.com)

Designee for

Becky Mason, Project Manager II

(413)572-4000

[becky.mason@testamericainc.com](mailto:becky.mason@testamericainc.com)

### LINKS

Review your project  
results through

TotalAccess

Have a Question?



Visit us at:

[www.testamericainc.com](http://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.*

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# 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

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## Job ID: 480-107127-1 (Continued)

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### 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.

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## 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**

<b>A</b>	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>B</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
<b>C</b>	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
<b>D</b>	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
<b>E</b>	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
<b>F</b>	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**

<b>G</b>	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 <sup>1</sup>
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**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**

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

<sup>1</sup> 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

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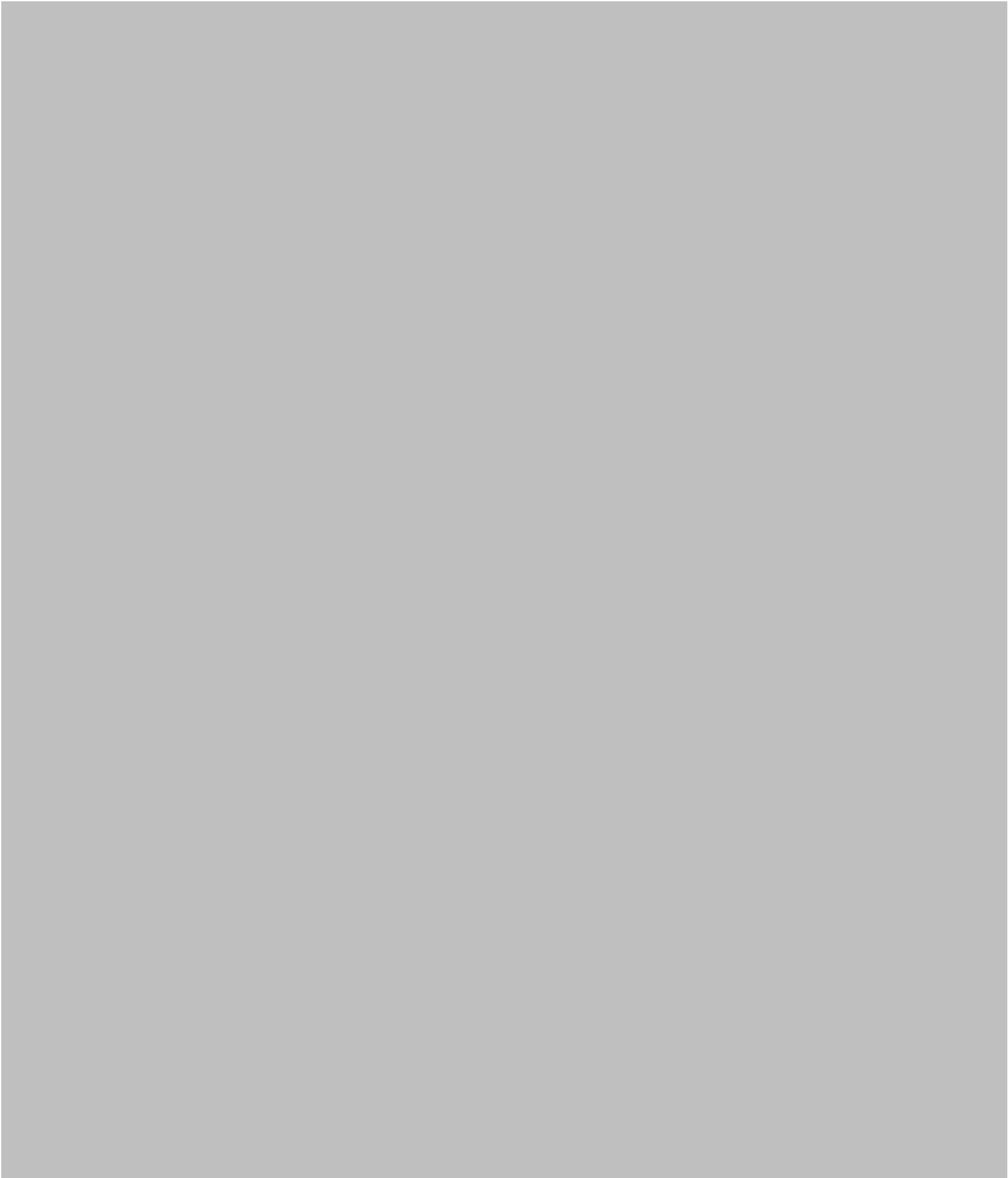
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TestAmerica Buffalo

# Detection Summary

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

TestAmerica Job ID: 480-107127-1

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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

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**Client Sample ID: MW-264M-20161005**

**Lab Sample ID: 480-107127-10**

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Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	11		1.0		ug/L	1			8260C	Total/NA
Tetrachloroethene	1.6		1.0		ug/L	1			8260C	Total/NA
Trichloroethene	11		1.0		ug/L	1			8260C	Total/NA
Vinyl chloride	8.2		1.0		ug/L	1			8260C	Total/NA

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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

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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

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TestAmerica Buffalo

# Client Sample Results

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

TestAmerica Job ID: 480-107127-1



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# Client Sample Results

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

TestAmerica Job ID: 480-107127-1

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# Client Sample Results

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

TestAmerica Job ID: 480-107127-1



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# Client Sample Results

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

TestAmerica Job ID: 480-107127-1



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# Client Sample Results

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

TestAmerica Job ID: 480-107127-1

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# Client Sample Results

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

TestAmerica Job ID: 480-107127-1



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# Client Sample Results

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

TestAmerica Job ID: 480-107127-1



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# Client Sample Results

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

TestAmerica Job ID: 480-107127-1



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# Client Sample Results

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

TestAmerica Job ID: 480-107127-1



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# Client Sample Results

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

TestAmerica Job ID: 480-107127-1



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# Client Sample Results

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

TestAmerica Job ID: 480-107127-1



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# Client Sample Results

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

TestAmerica Job ID: 480-107127-1

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TestAmerica Buffalo

# Client Sample Results

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

TestAmerica Job ID: 480-107127-1



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TestAmerica Buffalo

# Client Sample Results

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

TestAmerica Job ID: 480-107127-1



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# Client Sample Results

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

TestAmerica Job ID: 480-107127-1



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# Client Sample Results

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

TestAmerica Job ID: 480-107127-1

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# Client Sample Results

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**

**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 18:11	1
1,1,1-Trichloroethane	ND		1.0		ug/L			10/07/16 18:11	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			10/07/16 18:11	1
1,1,2-Trichloroethane	ND		1.0		ug/L			10/07/16 18:11	1
1,1-Dichloroethane	ND		1.0		ug/L			10/07/16 18:11	1
1,1-Dichloroethene	ND		1.0		ug/L			10/07/16 18:11	1
1,1-Dichloropropene	ND		1.0		ug/L			10/07/16 18:11	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			10/07/16 18:11	1
1,2,3-Trichloropropane	ND		1.0		ug/L			10/07/16 18:11	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			10/07/16 18:11	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			10/07/16 18:11	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			10/07/16 18:11	1
1,2-Dichlorobenzene	ND		1.0		ug/L			10/07/16 18:11	1
1,2-Dichloroethane	ND		1.0		ug/L			10/07/16 18:11	1
1,2-Dichloropropane	ND		1.0		ug/L			10/07/16 18:11	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			10/07/16 18:11	1
1,3-Dichlorobenzene	ND		1.0		ug/L			10/07/16 18:11	1
1,3-Dichloropropane	ND		1.0		ug/L			10/07/16 18:11	1
1,4-Dichlorobenzene	ND		1.0		ug/L			10/07/16 18:11	1
1,4-Dioxane	ND		50		ug/L			10/07/16 18:11	1
2,2-Dichloropropane	ND		1.0		ug/L			10/07/16 18:11	1
2-Butanone (MEK)	ND		10		ug/L			10/07/16 18:11	1
2-Chlorotoluene	ND		1.0		ug/L			10/07/16 18:11	1
2-Hexanone	ND		10		ug/L			10/07/16 18:11	1
4-Chlorotoluene	ND		1.0		ug/L			10/07/16 18:11	1
4-Isopropyltoluene	ND		1.0		ug/L			10/07/16 18:11	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			10/07/16 18:11	1
Acetone	ND		50		ug/L			10/07/16 18:11	1
Benzene	ND		1.0		ug/L			10/07/16 18:11	1
Bromobenzene	ND		1.0		ug/L			10/07/16 18:11	1
Bromoform	ND		1.0		ug/L			10/07/16 18:11	1
Bromomethane	ND		2.0		ug/L			10/07/16 18:11	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-264M-20161005**

**Lab Sample ID: 480-107127-10**

**Date Collected: 10/05/16 11:15**

**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
Carbon disulfide	ND		10		ug/L			10/07/16 18:11	1
Carbon tetrachloride	ND		1.0		ug/L			10/07/16 18:11	1
Chlorobenzene	ND		1.0		ug/L			10/07/16 18:11	1
Chlorobromomethane	ND		1.0		ug/L			10/07/16 18:11	1
Chlorodibromomethane	ND		0.50		ug/L			10/07/16 18:11	1
Chloroethane	ND		2.0		ug/L			10/07/16 18:11	1
Chloroform	ND		1.0		ug/L			10/07/16 18:11	1
Chloromethane	ND		2.0		ug/L			10/07/16 18:11	1
<b>cis-1,2-Dichloroethene</b>	<b>11</b>		1.0		ug/L			10/07/16 18:11	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			10/07/16 18:11	1
Dichlorobromomethane	ND		0.50		ug/L			10/07/16 18:11	1
Dichlorodifluoromethane	ND		1.0		ug/L			10/07/16 18:11	1
Ethyl ether	ND		1.0		ug/L			10/07/16 18:11	1
Ethylbenzene	ND		1.0		ug/L			10/07/16 18:11	1
Ethylene Dibromide	ND		1.0		ug/L			10/07/16 18:11	1
Hexachlorobutadiene	ND		0.40		ug/L			10/07/16 18:11	1
Isopropyl ether	ND		10		ug/L			10/07/16 18:11	1
Isopropylbenzene	ND		1.0		ug/L			10/07/16 18:11	1
Methyl tert-butyl ether	ND		1.0		ug/L			10/07/16 18:11	1
Methylene Chloride	ND		1.0		ug/L			10/07/16 18:11	1
m-Xylene & p-Xylene	ND		2.0		ug/L			10/07/16 18:11	1
Naphthalene	ND		5.0		ug/L			10/07/16 18:11	1
n-Butylbenzene	ND		1.0		ug/L			10/07/16 18:11	1
N-Propylbenzene	ND		1.0		ug/L			10/07/16 18:11	1
o-Xylene	ND		1.0		ug/L			10/07/16 18:11	1
sec-Butylbenzene	ND		1.0		ug/L			10/07/16 18:11	1
Styrene	ND		1.0		ug/L			10/07/16 18:11	1
Tert-amyl methyl ether	ND		5.0		ug/L			10/07/16 18:11	1
Tert-butyl ethyl ether	ND		5.0		ug/L			10/07/16 18:11	1
tert-Butylbenzene	ND		1.0		ug/L			10/07/16 18:11	1
<b>Tetrachloroethene</b>	<b>1.6</b>		1.0		ug/L			10/07/16 18:11	1
Tetrahydrofuran	ND		10		ug/L			10/07/16 18:11	1
Toluene	ND		1.0		ug/L			10/07/16 18:11	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			10/07/16 18:11	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			10/07/16 18:11	1
<b>Trichloroethene</b>	<b>11</b>		1.0		ug/L			10/07/16 18:11	1
Trichlorofluoromethane	ND		1.0		ug/L			10/07/16 18:11	1
<b>Vinyl chloride</b>	<b>8.2</b>		1.0		ug/L			10/07/16 18:11	1
Dibromomethane	ND		1.0		ug/L			10/07/16 18:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	88		70 - 130		10/07/16 18:11	1
1,2-Dichloroethane-d4 (Surr)	88		70 - 130		10/07/16 18:11	1
4-Bromofluorobenzene (Surr)	100		70 - 130		10/07/16 18:11	1

# Client Sample Results

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

TestAmerica Job ID: 480-107127-1



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# Client Sample Results

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

TestAmerica Job ID: 480-107127-1



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# Client Sample Results

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

TestAmerica Job ID: 480-107127-1



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TestAmerica Buffalo

# Client Sample Results

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

TestAmerica Job ID: 480-107127-1



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# Client Sample Results

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

TestAmerica Job ID: 480-107127-1



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TestAmerica Buffalo

# Client Sample Results

Client: Innovative Engineering Solutions, Inc  
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TestAmerica Job ID: 480-107127-1



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TestAmerica Buffalo

# Client Sample Results

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

TestAmerica Job ID: 480-107127-1

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TestAmerica Buffalo



# Client Sample Results

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

TestAmerica Job ID: 480-107127-1



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TestAmerica Buffalo

# Client Sample Results

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

TestAmerica Job ID: 480-107127-1



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# Client Sample Results

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

TestAmerica Job ID: 480-107127-1



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# 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

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
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	

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# 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

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# 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 <math>\leq</math> 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	

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 Waltham MA 02451  
 Phone: (781) 466-6900 Fax: (781) 466-6901

360325-Boston  
**Chain of Custody Record**

**TestAmerica**  
 THE LEADER IN ENVIRONMENTAL TESTING

<b>Client Information:</b>		Lab P/M: _____		Lab COC Barcode Label: _____		COC No: <b>37051</b>	
Client Contact: <b>Viki Pearce</b>		Sample Collector's Name (Please Print Neatly): <b>Danny Sarto</b>		E-Mail: _____		Page: <b>1</b> of <b>2</b>	
Company: <b>Environmental Engineers Solutions</b>		Sample Collector's Phone: <b>508-404-3191</b>		Job #: _____		Job #: _____	
Address: <b>25 Spring St</b>		Due Date Requested: <b>10/19/16</b>		Analysis Req: _____		Preservation Codes: _____	
City: <b>Worcester</b>		Turnaround Time (TAT) Requested (business days): <b>5 days</b>		Total Number of Containers (enter total for each line):		Preservation Codes: _____	
State and Zip: <b>MA 02081</b>		Quote # or Project #: _____		480-107127 COC		Preservation Codes: _____	
Client's Phone: <b>508-668-0033</b>		PO #: <b>RA-008</b>		480-107127 COC		Preservation Codes: _____	
Client's Contact Email: <b>v.pearce@estonline.com</b>		WO #: _____		480-107127 COC		Preservation Codes: _____	
Client's Project Name/Number: <b>Restroom - Westland RA008</b>		PWS ID #: _____		480-107127 COC		Preservation Codes: _____	
Sample Collection Site Name & Location: <b>Westland MA</b>		Sample Collection Date (MM/DD/YYYY)		Sample Collection Time (24 Hour Clock)		Sample Type: C=Comp G=Grab	
<b>Sample Identification</b>		Sample Collection Date (MM/DD/YYYY)		Sample Collection Time (24 Hour Clock)		Matrix Type **	
MS-269 mg - 20161005		10/5/16		0815		C W	
REW-7 - 20161005		10/5/16		1130		C W	
REW-8 - 20161005		10/5/16		1025		C W	
REW-9 - 20161005		10/5/16		0930		C W	
REW-10 - 20161005		10/5/16		0855		C W	
REW-11 - 20161005		10/5/16		1330		C W	
REW-12 - 20161005		10/5/16		1310		C W	
Dup 3 - 20161005		10/5/16		-		C W	
Trap Block		-		-		C W	
Possible Hazard Identification (please check off each that may apply):		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 type="checkbox"/> Disposal By Lab <input checked="" 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: <b>10/5/16 1450</b>		Company: <b>3553</b>		Date/Time: _____	
Relinquished by: _____		Date/Time: <b>10-5-16 1801</b>		Company: _____		Date/Time: <b>10-5-16 1600</b>	
Relinquished by: _____		Date/Time: _____		Company: _____		Date/Time: <b>10-6-16 0145</b>	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.: _____		Cooler Temperature(s) °C and Other Remarks: _____		Date/Time: <b>10/16</b>	

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

**Chain of Custody Record**

<b>Client Information:</b> 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>Cash 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"/>	
<b>Sample Identification</b>		SUBCONTRACT POLICY: advance to permit Test-America to use certified instructions to the contrary, or subcontract labs, without specify which sub-contract any additional notification fees are or are not to be 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 **
mw-24M - 20161005 mw-24M - 20161005 mw-24M - 20161005 mw-560 - 20161005 mw-561 - 20161005 mw-562 - 20161005	10/5/16 1115 10/5/16 1025 10/5/16 0940 10/5/16 1300 10/5/16 1200 10/5/16 1355	C C C C C C	W W W W W 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	
Relinquished by: _____ Date/Time: <u>10/5/16 1450</u>		Received by: _____ Date/Time: <u>10-5-16 1400</u>	
Relinquished by: _____ Date/Time: <u>10-5-16 1400</u>		Received by: _____ Date/Time: <u>10-6-16 0145</u>	
Relinquished by: _____ Date/Time: _____		Received by: _____ Date/Time: _____	
Custody Seals Intact: <u>A Yes A No</u>		Custody Seal No.: <u>1.1.16 #1</u>	

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 Phone: (781) 466-6900 Fax: (781) 466-6901

**360325-Boston**  
**Chain of Custody Record**

**TestAmerica**  
 THE LEADER IN ENVIRONMENTAL TESTING

**Client Information:**  
 Client Contact: Viki Penick  
 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.penick@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)
10/15/16	0815	C	W	820 MCP	5
10/15/16	1120	C	W	60MCP Total H&C	9
10/15/16	1025	C	W	500 MCP	9
10/15/16	0930	C	W	450 MCP	9
10/15/16	0855	C	W	300 MCP	9
10/15/16	1220	C	W	200 MCP	9
10/15/16	1310	C	W	100 MCP	9
10/15/16	-	C	W	50 MCP	9
-	-	-	W	200 MCP	9

**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]

**Special Instructions & Notes:**  
 522-1-4 DoDORNE  
 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 !!**

**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]

Cooler Temperature(s) °C and Other Remarks:





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**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  
Walpole  
 State and Zip: MA 02081  
 Client's Phone: 508-668-0033  
 Client's Contact Email: v.peirano@innovativesolutions.com  
 Client's Project Name/Number: Remediation - Walpole RA-008  
 Sample Collection Site Name & Location: Walpole MA

**Sample Identification**

Sample Identification	Sample Collection Date (MM/DD/YY)	Sample Collection Time (24 Hour Clock)	Sample Type: C=Comp G=Grab	Matrix Type **
MW-244M - 20161005	10/5/16	1115	C	W
MW-244M - 20161005	10/5/16	1025	C	W
MW-244M - 20161005	10/5/16	0940	C	W
MW-260 - 20161005	10/5/16	1300	C	W
MW-261 - 20161005	10/5/16	1200	C	W
MW-262 - 20161005	10/5/16	1355	C	W

**Analysis Requested**

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**Preservation Codes:**  
 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

**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, or subcontract labs, without any additional notification made by us, as necessary to fulfill your work order.

**Special Instructions & Notes:**  
 522-14 Doxans  
 To Burlington

**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: 10/15/16 1450 Company: TEST  
**Relinquished by:** [Signature] Date/Time: 10/16/16 1030 Company: TEST  
**Relinquished by:** [Signature] Date/Time: 10/16/16 1030 Company: TEST

**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  
MALTHAM, MA 02451  
UNITED STATES US

SHIP DATE: 05OCT16  
ACTWGT: 52.9 LB  
CAD: 590887/CAFE2912

BILL RECIPIENT

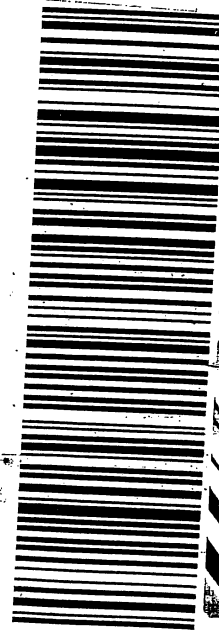
TO SAMPLE RECEIVING  
TESTAMERICA BURLINGTON  
30 COMMUNITY DRIVE  
SUITE 11  
SOUTH BURLINGTON VT 05403  
(802) 660-1980  
REF: 1901  
DEPT: 201



1 of 3  
TRK# 4258 8390 8167  
0201  
## MASTER ##  
THU - 06 OCT 10:30A  
PRIORITY OVERNIGHT

NC BTVA

05403  
VT-US BTV

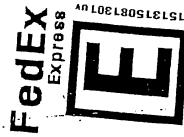


ORIGIN ID:BXCA (781) 466-6900  
PAUL HOBART  
TESTAMERICA  
240 BEAR HILL ROAD  
SUITE 104  
MALTHAM, MA 02451  
UNITED STATES US

SHIP DATE: 05OCT16  
ACTWGT: 50.5 LB  
CAD: 590887/CAFE2912

BILL RECIPIENT

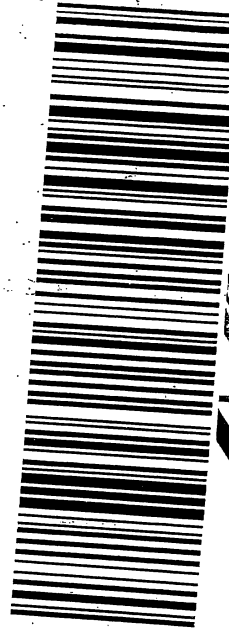
TO SAMPLE RECEIVING  
TESTAMERICA BURLINGTON  
30 COMMUNITY DRIVE  
SUITE 11  
SOUTH BURLINGTON VT 05403  
(802) 660-1980  
REF: 1901  
DEPT: 201



2 of 3  
MPS# 4258 8390 8178  
0263  
Met# 4258 8390 8167  
THU - 06 OCT 10:30A  
PRIORITY OVERNIGHT

NC BTVA

05403  
VT-US BTV



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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

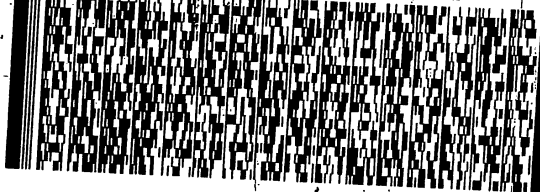
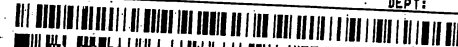
TO **SAMPLE RECEIVING**  
**TESTAMERICA BURLINGTON**  
**30 COMMUNITY DRIVE**  
**SUITE 11**  
**SOUTH BURLINGTON VT 05403**

(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