

Clementine Dulieu

From: Clementine Dulieu
Sent: Friday, May 10, 2019 5:49 PM
To: tims@russellsgc.com
Cc: Larry Mastera; Julia Redden
Subject: Wayland Property Owner Data Transmittal - April 2019
Attachments: ERM Lab Report_April 2019.pdf; Russell Garden Center BWSC-123 Form.pdf

Hi Tim,

ERM collected groundwater samples from monitoring wells located on Russell's Garden Center property at the former Raytheon Facility (the "Site") located at 430 Boston Post Road in Wayland, MA in April 2019. The analytical results and BWSC-123 form are attached to this email.

These results are being sent via email for Russell's Garden Center records.

Please let me know if you have any questions or require any additional information.

Thanks,

Clementine Dulieu
Project Geologist

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Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC123

This Notice is Related to:
Release Tracking Number

NOTICE OF ENVIRONMENTAL SAMPLING

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

-

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

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

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

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

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

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

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

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

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

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



Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC123

This Notice is Related to:
Release Tracking Number

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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.

ANALYTICAL REPORT

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

Laboratory Job ID: 480-151402-1
Client Project/Site: IDS Wayland

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

Attn: Lyndsey Colburn



Authorized for release by:
4/10/2019 3:16:47 PM

Denise Giglia, Project Manager I
denise.giglia@testamericainc.com

Designee for

Becky Mason, Project Manager II
(413)572-4000
becky.mason@testamericainc.com

LINKS

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results through
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Visit us at:
www.testamericainc.com

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

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

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



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Definitions/Glossary

Client: ERM-Northeast
Project/Site: IDS Wayland

Job ID: 480-151402-1

Qualifiers

GC/MS VOA

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

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
▫	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
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 (Radiochemistry)
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: ERM-Northeast
Project/Site: IDS Wayland

Job ID: 480-151402-1

Job ID: 480-151402-1

Laboratory: Eurofins TestAmerica, Buffalo

Narrative

Job Narrative 480-151402-1

Receipt

The samples were received on 4/5/2019 1:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.1° C.

GC/MS VOA

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

Method 8260C: The continuing calibration verification (CCV) associated with batch 480-466874 recovered outside the MCP control limit criteria for the following analytes: 1,1,1,2-Tetrachloroethane, 1,4-Dioxane, 2,2-Dichloropropane, Acetone and Carbon tetrachloride. MCP protocol allows for 20% of the target compounds to be outside the 20% difference but not over 40% difference. Difficult analytes are allowed to be outside the 20% difference but not over 60% difference. The following samples are impacted: MW-217S-20190403-01 (480-151402-1) and MW-217M-20190403-01 (480-151402-2).

Method 8260C: The laboratory control sample duplicate (LCSD) for batch 480-466874 recovered outside control limits but were greater than 10% for the following analytes: Acetone and Carbon tetrachloride. 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-217S-20190403-01 (480-151402-1) and MW-217M-20190403-01 (480-151402-2).

Method 8260C: The laboratory control sample (LCS) and/or the laboratory control sample duplicate (LCSD) for batch 480-466874 exceeded control limits for the following analyte: 2-Butanone and Tetrahydrofuran. Unlike the calibration standards, this is due to the coelution with Ethyl Acetate and Methacrylonitrile in the spiking solution. This does not indicate a performance issue with the spike recovery, but rather the laboratory's ability to measure the two analytes together in a combined spiking solution. Through the use of spectral analysis, the two compounds can be distinguished from one another if present in a client sample. The following samples were affected: MW-217S-20190403-01 (480-151402-1) and MW-217M-20190403-01 (480-151402-2).

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

MassDEP Analytical Protocol Certification Form

Laboratory Name: **TestAmerica Buffalo** Project #: **480-151402**

Project Location: **IDS Wyland** RTN:

This form provides certifications for the following data set: list Laboratory Sample ID Number(s):
480-151402 [1-2]

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 type="checkbox"/>	6020 Metals CAM III D <input type="checkbox"/>	8082 PCB CAM V A <input type="checkbox"/>	9014 Total Cyanide/PAC CAM VI A <input type="checkbox"/>	6860 Perchlorate CAM VIII B <input type="checkbox"/>	

Affirmative Responses to Questions A through F are required for "Presumptive Certainty" status

A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding time.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
E	a. VPH, EPH and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications). b. APH and TO-15 Methods only: Was the complete analyte list reported for each method?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

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

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

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

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

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

Signature: <u>Denise L Giglia</u>	Position: <u>Project Manager I</u>
Printed Name: <u>Denise L. Giglia</u>	Date: <u>4/10/19 15:13</u>

Detection Summary

Client: ERM-Northeast
Project/Site: IDS Wayland

Job ID: 480-151402-1

Client Sample ID: MW-217S-20190403-01

Lab Sample ID: 480-151402-1

No Detections.

Client Sample ID: MW-217M-20190403-01

Lab Sample ID: 480-151402-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	2.7		1.0		ug/L	1		8260C	Total/NA
1,2-Dichlorobenzene	1.1		1.0		ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	1.0		1.0		ug/L	1		8260C	Total/NA
Methyl tert-butyl ether	56		1.0		ug/L	1		8260C	Total/NA
Tert-amyl methyl ether	22		5.0		ug/L	1		8260C	Total/NA
Trichloroethene	6.9		1.0		ug/L	1		8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

Job ID: 480-151402-1

Client Sample ID: MW-217S-20190403-01

Lab Sample ID: 480-151402-1

Date Collected: 04/03/19 14:36

Matrix: Water

Date Received: 04/05/19 01:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			04/09/19 12:31	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/09/19 12:31	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/09/19 12:31	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/09/19 12:31	1
1,1-Dichloroethane	ND		1.0		ug/L			04/09/19 12:31	1
1,1-Dichloroethene	ND		1.0		ug/L			04/09/19 12:31	1
1,1-Dichloropropene	ND		1.0		ug/L			04/09/19 12:31	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/09/19 12:31	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/09/19 12:31	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/09/19 12:31	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/09/19 12:31	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/09/19 12:31	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/09/19 12:31	1
1,2-Dichloroethane	ND		1.0		ug/L			04/09/19 12:31	1
1,2-Dichloropropane	ND		1.0		ug/L			04/09/19 12:31	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/09/19 12:31	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/09/19 12:31	1
1,3-Dichloropropane	ND		1.0		ug/L			04/09/19 12:31	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/09/19 12:31	1
1,4-Dioxane	ND		50		ug/L			04/09/19 12:31	1
2,2-Dichloropropane	ND		1.0		ug/L			04/09/19 12:31	1
2-Butanone (MEK)	ND	*	10		ug/L			04/09/19 12:31	1
2-Chlorotoluene	ND		1.0		ug/L			04/09/19 12:31	1
2-Hexanone	ND		10		ug/L			04/09/19 12:31	1
4-Chlorotoluene	ND		1.0		ug/L			04/09/19 12:31	1
4-Isopropyltoluene	ND		1.0		ug/L			04/09/19 12:31	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/09/19 12:31	1
Acetone	ND	*	50		ug/L			04/09/19 12:31	1
Benzene	ND		1.0		ug/L			04/09/19 12:31	1
Bromobenzene	ND		1.0		ug/L			04/09/19 12:31	1
Bromoform	ND		1.0		ug/L			04/09/19 12:31	1
Bromomethane	ND		2.0		ug/L			04/09/19 12:31	1
Carbon disulfide	ND		10		ug/L			04/09/19 12:31	1
Carbon tetrachloride	ND	*	1.0		ug/L			04/09/19 12:31	1
Chlorobenzene	ND		1.0		ug/L			04/09/19 12:31	1
Chlorobromomethane	ND		1.0		ug/L			04/09/19 12:31	1
Chlorodibromomethane	ND		0.50		ug/L			04/09/19 12:31	1
Chloroethane	ND		2.0		ug/L			04/09/19 12:31	1
Chloroform	ND		1.0		ug/L			04/09/19 12:31	1
Chloromethane	ND		2.0		ug/L			04/09/19 12:31	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			04/09/19 12:31	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/09/19 12:31	1
Dichlorobromomethane	ND		0.50		ug/L			04/09/19 12:31	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/09/19 12:31	1
Ethyl ether	ND		1.0		ug/L			04/09/19 12:31	1
Ethylbenzene	ND		1.0		ug/L			04/09/19 12:31	1
Ethylene Dibromide	ND		1.0		ug/L			04/09/19 12:31	1
Hexachlorobutadiene	ND		0.40		ug/L			04/09/19 12:31	1
Isopropyl ether	ND		10		ug/L			04/09/19 12:31	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

Job ID: 480-151402-1

Client Sample ID: MW-217S-20190403-01

Lab Sample ID: 480-151402-1

Date Collected: 04/03/19 14:36

Matrix: Water

Date Received: 04/05/19 01:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	ND		1.0		ug/L			04/09/19 12:31	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/09/19 12:31	1
Methylene Chloride	ND		1.0		ug/L			04/09/19 12:31	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/09/19 12:31	1
Naphthalene	ND		5.0		ug/L			04/09/19 12:31	1
n-Butylbenzene	ND		1.0		ug/L			04/09/19 12:31	1
N-Propylbenzene	ND		1.0		ug/L			04/09/19 12:31	1
o-Xylene	ND		1.0		ug/L			04/09/19 12:31	1
sec-Butylbenzene	ND		1.0		ug/L			04/09/19 12:31	1
Styrene	ND		1.0		ug/L			04/09/19 12:31	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/09/19 12:31	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/09/19 12:31	1
tert-Butylbenzene	ND		1.0		ug/L			04/09/19 12:31	1
Tetrachloroethene	ND		1.0		ug/L			04/09/19 12:31	1
Tetrahydrofuran	ND *		10		ug/L			04/09/19 12:31	1
Toluene	ND		1.0		ug/L			04/09/19 12:31	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/09/19 12:31	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/09/19 12:31	1
Trichloroethene	ND		1.0		ug/L			04/09/19 12:31	1
Trichlorofluoromethane	ND		1.0		ug/L			04/09/19 12:31	1
Vinyl chloride	ND		1.0		ug/L			04/09/19 12:31	1
Dibromomethane	ND		1.0		ug/L			04/09/19 12:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	100		70 - 130		04/09/19 12:31	1
1,2-Dichloroethane-d4 (Surr)	113		70 - 130		04/09/19 12:31	1
4-Bromofluorobenzene (Surr)	97		70 - 130		04/09/19 12:31	1

Client Sample ID: MW-217M-20190403-01

Lab Sample ID: 480-151402-2

Date Collected: 04/03/19 14:45

Matrix: Water

Date Received: 04/05/19 01:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			04/09/19 12:56	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/09/19 12:56	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/09/19 12:56	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/09/19 12:56	1
1,1-Dichloroethane	2.7		1.0		ug/L			04/09/19 12:56	1
1,1-Dichloroethene	ND		1.0		ug/L			04/09/19 12:56	1
1,1-Dichloropropene	ND		1.0		ug/L			04/09/19 12:56	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/09/19 12:56	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/09/19 12:56	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/09/19 12:56	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/09/19 12:56	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/09/19 12:56	1
1,2-Dichlorobenzene	1.1		1.0		ug/L			04/09/19 12:56	1
1,2-Dichloroethane	ND		1.0		ug/L			04/09/19 12:56	1
1,2-Dichloropropane	ND		1.0		ug/L			04/09/19 12:56	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/09/19 12:56	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

Job ID: 480-151402-1

Client Sample ID: MW-217M-20190403-01

Lab Sample ID: 480-151402-2

Date Collected: 04/03/19 14:45

Matrix: Water

Date Received: 04/05/19 01:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	ND		1.0		ug/L			04/09/19 12:56	1
1,3-Dichloropropane	ND		1.0		ug/L			04/09/19 12:56	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/09/19 12:56	1
1,4-Dioxane	ND		50		ug/L			04/09/19 12:56	1
2,2-Dichloropropane	ND		1.0		ug/L			04/09/19 12:56	1
2-Butanone (MEK)	ND	*	10		ug/L			04/09/19 12:56	1
2-Chlorotoluene	ND		1.0		ug/L			04/09/19 12:56	1
2-Hexanone	ND		10		ug/L			04/09/19 12:56	1
4-Chlorotoluene	ND		1.0		ug/L			04/09/19 12:56	1
4-Isopropyltoluene	ND		1.0		ug/L			04/09/19 12:56	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/09/19 12:56	1
Acetone	ND	*	50		ug/L			04/09/19 12:56	1
Benzene	ND		1.0		ug/L			04/09/19 12:56	1
Bromobenzene	ND		1.0		ug/L			04/09/19 12:56	1
Bromoform	ND		1.0		ug/L			04/09/19 12:56	1
Bromomethane	ND		2.0		ug/L			04/09/19 12:56	1
Carbon disulfide	ND		10		ug/L			04/09/19 12:56	1
Carbon tetrachloride	ND	*	1.0		ug/L			04/09/19 12:56	1
Chlorobenzene	ND		1.0		ug/L			04/09/19 12:56	1
Chlorobromomethane	ND		1.0		ug/L			04/09/19 12:56	1
Chlorodibromomethane	ND		0.50		ug/L			04/09/19 12:56	1
Chloroethane	ND		2.0		ug/L			04/09/19 12:56	1
Chloroform	ND		1.0		ug/L			04/09/19 12:56	1
Chloromethane	ND		2.0		ug/L			04/09/19 12:56	1
cis-1,2-Dichloroethene	1.0		1.0		ug/L			04/09/19 12:56	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/09/19 12:56	1
Dichlorobromomethane	ND		0.50		ug/L			04/09/19 12:56	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/09/19 12:56	1
Ethyl ether	ND		1.0		ug/L			04/09/19 12:56	1
Ethylbenzene	ND		1.0		ug/L			04/09/19 12:56	1
Ethylene Dibromide	ND		1.0		ug/L			04/09/19 12:56	1
Hexachlorobutadiene	ND		0.40		ug/L			04/09/19 12:56	1
Isopropyl ether	ND		10		ug/L			04/09/19 12:56	1
Isopropylbenzene	ND		1.0		ug/L			04/09/19 12:56	1
Methyl tert-butyl ether	56		1.0		ug/L			04/09/19 12:56	1
Methylene Chloride	ND		1.0		ug/L			04/09/19 12:56	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/09/19 12:56	1
Naphthalene	ND		5.0		ug/L			04/09/19 12:56	1
n-Butylbenzene	ND		1.0		ug/L			04/09/19 12:56	1
N-Propylbenzene	ND		1.0		ug/L			04/09/19 12:56	1
o-Xylene	ND		1.0		ug/L			04/09/19 12:56	1
sec-Butylbenzene	ND		1.0		ug/L			04/09/19 12:56	1
Styrene	ND		1.0		ug/L			04/09/19 12:56	1
Tert-amyl methyl ether	22		5.0		ug/L			04/09/19 12:56	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/09/19 12:56	1
tert-Butylbenzene	ND		1.0		ug/L			04/09/19 12:56	1
Tetrachloroethene	ND		1.0		ug/L			04/09/19 12:56	1
Tetrahydrofuran	ND	*	10		ug/L			04/09/19 12:56	1
Toluene	ND		1.0		ug/L			04/09/19 12:56	1

Client Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

Job ID: 480-151402-1

Client Sample ID: MW-217M-20190403-01

Lab Sample ID: 480-151402-2

Date Collected: 04/03/19 14:45

Matrix: Water

Date Received: 04/05/19 01:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/09/19 12:56	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/09/19 12:56	1
Trichloroethene	6.9		1.0		ug/L			04/09/19 12:56	1
Trichlorofluoromethane	ND		1.0		ug/L			04/09/19 12:56	1
Vinyl chloride	ND		1.0		ug/L			04/09/19 12:56	1
Dibromomethane	ND		1.0		ug/L			04/09/19 12:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	100		70 - 130		04/09/19 12:56	1
1,2-Dichloroethane-d4 (Surr)	111		70 - 130		04/09/19 12:56	1
4-Bromofluorobenzene (Surr)	99		70 - 130		04/09/19 12:56	1

Surrogate Summary

Client: ERM-Northeast
Project/Site: IDS Wayland

Job ID: 480-151402-1

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

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	TOL	DCA	BFB
		(70-130)	(70-130)	(70-130)
480-151402-1	MW-217S-20190403-01	100	113	97
480-151402-2	MW-217M-20190403-01	100	111	99
LCS 480-466874/5	Lab Control Sample	102	109	100
LCSD 480-466874/6	Lab Control Sample Dup	102	114	106
MB 480-466874/8	Method Blank	102	110	101

Surrogate Legend

TOL = Toluene-d8 (Surr)

DCA = 1,2-Dichloroethane-d4 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

QC Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

Job ID: 480-151402-1

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

Lab Sample ID: MB 480-466874/8
Matrix: Water
Analysis Batch: 466874

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			04/09/19 11:06	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/09/19 11:06	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/09/19 11:06	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/09/19 11:06	1
1,1-Dichloroethane	ND		1.0		ug/L			04/09/19 11:06	1
1,1-Dichloroethene	ND		1.0		ug/L			04/09/19 11:06	1
1,1-Dichloropropene	ND		1.0		ug/L			04/09/19 11:06	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/09/19 11:06	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/09/19 11:06	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/09/19 11:06	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/09/19 11:06	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/09/19 11:06	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/09/19 11:06	1
1,2-Dichloroethane	ND		1.0		ug/L			04/09/19 11:06	1
1,2-Dichloropropane	ND		1.0		ug/L			04/09/19 11:06	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/09/19 11:06	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/09/19 11:06	1
1,3-Dichloropropane	ND		1.0		ug/L			04/09/19 11:06	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/09/19 11:06	1
1,4-Dioxane	ND		50		ug/L			04/09/19 11:06	1
2,2-Dichloropropane	ND		1.0		ug/L			04/09/19 11:06	1
2-Butanone (MEK)	ND		10		ug/L			04/09/19 11:06	1
2-Chlorotoluene	ND		1.0		ug/L			04/09/19 11:06	1
2-Hexanone	ND		10		ug/L			04/09/19 11:06	1
4-Chlorotoluene	ND		1.0		ug/L			04/09/19 11:06	1
4-Isopropyltoluene	ND		1.0		ug/L			04/09/19 11:06	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/09/19 11:06	1
Acetone	ND		50		ug/L			04/09/19 11:06	1
Benzene	ND		1.0		ug/L			04/09/19 11:06	1
Bromobenzene	ND		1.0		ug/L			04/09/19 11:06	1
Bromoform	ND		1.0		ug/L			04/09/19 11:06	1
Bromomethane	ND		2.0		ug/L			04/09/19 11:06	1
Carbon disulfide	ND		10		ug/L			04/09/19 11:06	1
Carbon tetrachloride	ND		1.0		ug/L			04/09/19 11:06	1
Chlorobenzene	ND		1.0		ug/L			04/09/19 11:06	1
Chlorobromomethane	ND		1.0		ug/L			04/09/19 11:06	1
Chlorodibromomethane	ND		0.50		ug/L			04/09/19 11:06	1
Chloroethane	ND		2.0		ug/L			04/09/19 11:06	1
Chloroform	ND		1.0		ug/L			04/09/19 11:06	1
Chloromethane	ND		2.0		ug/L			04/09/19 11:06	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			04/09/19 11:06	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/09/19 11:06	1
Dichlorobromomethane	ND		0.50		ug/L			04/09/19 11:06	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/09/19 11:06	1
Ethyl ether	ND		1.0		ug/L			04/09/19 11:06	1
Ethylbenzene	ND		1.0		ug/L			04/09/19 11:06	1
Ethylene Dibromide	ND		1.0		ug/L			04/09/19 11:06	1
Hexachlorobutadiene	ND		0.40		ug/L			04/09/19 11:06	1

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

Job ID: 480-151402-1

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

Lab Sample ID: MB 480-466874/8
Matrix: Water
Analysis Batch: 466874

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			04/09/19 11:06	1
Isopropylbenzene	ND		1.0		ug/L			04/09/19 11:06	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/09/19 11:06	1
Methylene Chloride	ND		1.0		ug/L			04/09/19 11:06	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/09/19 11:06	1
Naphthalene	ND		5.0		ug/L			04/09/19 11:06	1
n-Butylbenzene	ND		1.0		ug/L			04/09/19 11:06	1
N-Propylbenzene	ND		1.0		ug/L			04/09/19 11:06	1
o-Xylene	ND		1.0		ug/L			04/09/19 11:06	1
sec-Butylbenzene	ND		1.0		ug/L			04/09/19 11:06	1
Styrene	ND		1.0		ug/L			04/09/19 11:06	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/09/19 11:06	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/09/19 11:06	1
tert-Butylbenzene	ND		1.0		ug/L			04/09/19 11:06	1
Tetrachloroethene	ND		1.0		ug/L			04/09/19 11:06	1
Tetrahydrofuran	ND		10		ug/L			04/09/19 11:06	1
Toluene	ND		1.0		ug/L			04/09/19 11:06	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/09/19 11:06	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/09/19 11:06	1
Trichloroethene	ND		1.0		ug/L			04/09/19 11:06	1
Trichlorofluoromethane	ND		1.0		ug/L			04/09/19 11:06	1
Vinyl chloride	ND		1.0		ug/L			04/09/19 11:06	1
Dibromomethane	ND		1.0		ug/L			04/09/19 11:06	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	102		70 - 130		04/09/19 11:06	1
1,2-Dichloroethane-d4 (Surr)	110		70 - 130		04/09/19 11:06	1
4-Bromofluorobenzene (Surr)	101		70 - 130		04/09/19 11:06	1

Lab Sample ID: LCS 480-466874/5
Matrix: Water
Analysis Batch: 466874

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	29.4		ug/L		117	70 - 130
1,1,1-Trichloroethane	25.0	27.1		ug/L		108	70 - 130
1,1,2,2-Tetrachloroethane	25.0	22.6		ug/L		90	70 - 130
1,1,2-Trichloroethane	25.0	23.5		ug/L		94	70 - 130
1,1-Dichloroethane	25.0	25.7		ug/L		103	70 - 130
1,1-Dichloroethene	25.0	21.6		ug/L		87	70 - 130
1,1-Dichloropropene	25.0	24.9		ug/L		100	70 - 130
1,2,3-Trichlorobenzene	25.0	24.0		ug/L		96	70 - 130
1,2,3-Trichloropropane	25.0	23.0		ug/L		92	70 - 130
1,2,4-Trichlorobenzene	25.0	23.6		ug/L		94	70 - 130
1,2,4-Trimethylbenzene	25.0	26.0		ug/L		104	70 - 130
1,2-Dibromo-3-Chloropropane	25.0	23.5		ug/L		94	70 - 130
1,2-Dichlorobenzene	25.0	24.6		ug/L		98	70 - 130
1,2-Dichloroethane	25.0	25.4		ug/L		102	70 - 130

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

Job ID: 480-151402-1

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

Lab Sample ID: LCS 480-466874/5
Matrix: Water
Analysis Batch: 466874

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	25.9		ug/L		104	70 - 130
1,3-Dichlorobenzene	25.0	24.5		ug/L		98	70 - 130
1,3-Dichloropropane	25.0	23.6		ug/L		94	70 - 130
1,4-Dichlorobenzene	25.0	24.4		ug/L		98	70 - 130
1,4-Dioxane	500	495		ug/L		99	70 - 130
2,2-Dichloropropane	25.0	28.9		ug/L		116	70 - 130
2-Butanone (MEK)	125	248 *		ug/L		198	70 - 130
2-Chlorotoluene	25.0	25.4		ug/L		102	70 - 130
2-Hexanone	125	144		ug/L		115	70 - 130
4-Chlorotoluene	25.0	25.1		ug/L		100	70 - 130
4-Isopropyltoluene	25.0	27.0		ug/L		108	70 - 130
4-Methyl-2-pentanone (MIBK)	125	129		ug/L		104	70 - 130
Acetone	125	155		ug/L		124	70 - 130
Benzene	25.0	23.6		ug/L		94	70 - 130
Bromobenzene	25.0	23.4		ug/L		94	70 - 130
Bromoform	25.0	24.9		ug/L		99	70 - 130
Bromomethane	25.0	20.0		ug/L		80	70 - 130
Carbon disulfide	25.0	21.5		ug/L		86	70 - 130
Carbon tetrachloride	25.0	31.2		ug/L		125	70 - 130
Chlorobenzene	25.0	23.9		ug/L		96	70 - 130
Chlorobromomethane	25.0	23.9		ug/L		96	70 - 130
Chlorodibromomethane	25.0	27.1		ug/L		109	70 - 130
Chloroethane	25.0	18.5		ug/L		74	70 - 130
Chloroform	25.0	23.9		ug/L		96	70 - 130
Chloromethane	25.0	22.6		ug/L		90	70 - 130
cis-1,2-Dichloroethene	25.0	23.5		ug/L		94	70 - 130
cis-1,3-Dichloropropene	25.0	27.2		ug/L		109	70 - 130
Dichlorobromomethane	25.0	25.5		ug/L		102	70 - 130
Dichlorodifluoromethane	25.0	23.3		ug/L		93	70 - 130
Ethyl ether	25.0	24.0		ug/L		96	70 - 130
Ethylbenzene	25.0	24.5		ug/L		98	70 - 130
Ethylene Dibromide	25.0	23.3		ug/L		93	70 - 130
Hexachlorobutadiene	25.0	24.8		ug/L		99	70 - 130
Isopropyl ether	25.0	28.4		ug/L		114	70 - 130
Isopropylbenzene	25.0	25.3		ug/L		101	70 - 130
Methyl tert-butyl ether	25.0	24.3		ug/L		97	70 - 130
Methylene Chloride	25.0	21.7		ug/L		87	70 - 130
m-Xylene & p-Xylene	25.0	23.9		ug/L		96	70 - 130
Naphthalene	25.0	23.2		ug/L		93	70 - 130
n-Butylbenzene	25.0	26.8		ug/L		107	70 - 130
N-Propylbenzene	25.0	25.7		ug/L		103	70 - 130
o-Xylene	25.0	22.8		ug/L		91	70 - 130
sec-Butylbenzene	25.0	25.9		ug/L		104	70 - 130
Styrene	25.0	24.9		ug/L		99	70 - 130
Tert-amyl methyl ether	25.0	25.7		ug/L		103	70 - 130
Tert-butyl ethyl ether	25.0	27.5		ug/L		110	70 - 130
tert-Butylbenzene	25.0	25.6		ug/L		102	70 - 130
Tetrachloroethene	25.0	25.3		ug/L		101	70 - 130

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

Job ID: 480-151402-1

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

Lab Sample ID: LCS 480-466874/5
Matrix: Water
Analysis Batch: 466874

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Tetrahydrofuran	50.0	64.5		ug/L		129	70 - 130
Toluene	25.0	23.6		ug/L		94	70 - 130
trans-1,2-Dichloroethene	25.0	23.6		ug/L		94	70 - 130
trans-1,3-Dichloropropene	25.0	28.7		ug/L		115	70 - 130
Trichloroethene	25.0	24.7		ug/L		99	70 - 130
Trichlorofluoromethane	25.0	21.6		ug/L		86	70 - 130
Vinyl chloride	25.0	20.9		ug/L		83	70 - 130
Dibromomethane	25.0	23.2		ug/L		93	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Toluene-d8 (Surr)	102		70 - 130
1,2-Dichloroethane-d4 (Surr)	109		70 - 130
4-Bromofluorobenzene (Surr)	100		70 - 130

Lab Sample ID: LCSD 480-466874/6
Matrix: Water
Analysis Batch: 466874

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	30.1		ug/L		121	70 - 130	3	20
1,1,1-Trichloroethane	25.0	29.2		ug/L		117	70 - 130	7	20
1,1,1,2-Tetrachloroethane	25.0	22.8		ug/L		91	70 - 130	1	20
1,1,2-Trichloroethane	25.0	22.7		ug/L		91	70 - 130	4	20
1,1-Dichloroethane	25.0	27.5		ug/L		110	70 - 130	7	20
1,1-Dichloroethene	25.0	24.0		ug/L		96	70 - 130	11	20
1,1-Dichloropropene	25.0	27.0		ug/L		108	70 - 130	8	20
1,2,3-Trichlorobenzene	25.0	24.6		ug/L		98	70 - 130	2	20
1,2,3-Trichloropropane	25.0	22.6		ug/L		90	70 - 130	2	20
1,2,4-Trichlorobenzene	25.0	24.6		ug/L		99	70 - 130	4	20
1,2,4-Trimethylbenzene	25.0	26.5		ug/L		106	70 - 130	2	20
1,2-Dibromo-3-Chloropropane	25.0	23.6		ug/L		94	70 - 130	1	20
1,2-Dichlorobenzene	25.0	25.4		ug/L		102	70 - 130	3	20
1,2-Dichloroethane	25.0	26.0		ug/L		104	70 - 130	2	20
1,2-Dichloropropane	25.0	25.4		ug/L		102	70 - 130	4	20
1,3,5-Trimethylbenzene	25.0	27.3		ug/L		109	70 - 130	5	20
1,3-Dichlorobenzene	25.0	25.5		ug/L		102	70 - 130	4	20
1,3-Dichloropropane	25.0	23.9		ug/L		96	70 - 130	2	20
1,4-Dichlorobenzene	25.0	25.2		ug/L		101	70 - 130	3	20
1,4-Dioxane	500	529		ug/L		106	70 - 130	7	20
2,2-Dichloropropane	25.0	31.5		ug/L		126	70 - 130	9	20
2-Butanone (MEK)	125	256	*	ug/L		205	70 - 130	3	20
2-Chlorotoluene	25.0	26.2		ug/L		105	70 - 130	3	20
2-Hexanone	125	146		ug/L		117	70 - 130	1	20
4-Chlorotoluene	25.0	27.8		ug/L		111	70 - 130	10	20
4-Isopropyltoluene	25.0	27.8		ug/L		111	70 - 130	3	20
4-Methyl-2-pentanone (MIBK)	125	130		ug/L		104	70 - 130	0	20
Acetone	125	164	*	ug/L		131	70 - 130	6	20
Benzene	25.0	24.3		ug/L		97	70 - 130	3	20

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

Job ID: 480-151402-1

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

Lab Sample ID: LCSD 480-466874/6
Matrix: Water
Analysis Batch: 466874

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
Bromobenzene	25.0	24.6		ug/L		99	70 - 130	5	20
Bromoform	25.0	26.2		ug/L		105	70 - 130	5	20
Bromomethane	25.0	21.8		ug/L		87	70 - 130	9	20
Carbon disulfide	25.0	22.9		ug/L		92	70 - 130	6	20
Carbon tetrachloride	25.0	33.1	*	ug/L		132	70 - 130	6	20
Chlorobenzene	25.0	24.7		ug/L		99	70 - 130	3	20
Chlorobromomethane	25.0	24.8		ug/L		99	70 - 130	4	20
Chlorodibromomethane	25.0	26.7		ug/L		107	70 - 130	1	20
Chloroethane	25.0	20.5		ug/L		82	70 - 130	10	20
Chloroform	25.0	25.5		ug/L		102	70 - 130	6	20
Chloromethane	25.0	23.0		ug/L		92	70 - 130	2	20
cis-1,2-Dichloroethene	25.0	23.9		ug/L		95	70 - 130	2	20
cis-1,3-Dichloropropene	25.0	28.7		ug/L		115	70 - 130	5	20
Dichlorobromomethane	25.0	27.0		ug/L		108	70 - 130	6	20
Dichlorodifluoromethane	25.0	24.8		ug/L		99	70 - 130	6	20
Ethyl ether	25.0	24.0		ug/L		96	70 - 130	0	20
Ethylbenzene	25.0	25.6		ug/L		102	70 - 130	4	20
Ethylene Dibromide	25.0	24.0		ug/L		96	70 - 130	3	20
Hexachlorobutadiene	25.0	25.8		ug/L		103	70 - 130	4	20
Isopropyl ether	25.0	29.3		ug/L		117	70 - 130	3	20
Isopropylbenzene	25.0	26.4		ug/L		106	70 - 130	4	20
Methyl tert-butyl ether	25.0	25.2		ug/L		101	70 - 130	4	20
Methylene Chloride	25.0	23.8		ug/L		95	70 - 130	10	20
m-Xylene & p-Xylene	25.0	23.8		ug/L		95	70 - 130	0	20
Naphthalene	25.0	23.8		ug/L		95	70 - 130	3	20
n-Butylbenzene	25.0	28.4		ug/L		113	70 - 130	6	20
N-Propylbenzene	25.0	26.9		ug/L		108	70 - 130	5	20
o-Xylene	25.0	24.5		ug/L		98	70 - 130	7	20
sec-Butylbenzene	25.0	27.4		ug/L		110	70 - 130	5	20
Styrene	25.0	25.4		ug/L		102	70 - 130	2	20
Tert-amyl methyl ether	25.0	26.5		ug/L		106	70 - 130	3	20
Tert-butyl ethyl ether	25.0	28.7		ug/L		115	70 - 130	4	20
tert-Butylbenzene	25.0	26.7		ug/L		107	70 - 130	4	20
Tetrachloroethene	25.0	27.1		ug/L		109	70 - 130	7	20
Tetrahydrofuran	50.0	66.0	*	ug/L		132	70 - 130	2	20
Toluene	25.0	25.0		ug/L		100	70 - 130	6	20
trans-1,2-Dichloroethene	25.0	24.8		ug/L		99	70 - 130	5	20
trans-1,3-Dichloropropene	25.0	29.0		ug/L		116	70 - 130	1	20
Trichloroethene	25.0	25.7		ug/L		103	70 - 130	4	20
Trichlorofluoromethane	25.0	22.5		ug/L		90	70 - 130	4	20
Vinyl chloride	25.0	22.9		ug/L		92	70 - 130	9	20
Dibromomethane	25.0	24.7		ug/L		99	70 - 130	6	20

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
Toluene-d8 (Surr)	102		70 - 130
1,2-Dichloroethane-d4 (Surr)	114		70 - 130
4-Bromofluorobenzene (Surr)	106		70 - 130

QC Association Summary

Client: ERM-Northeast
Project/Site: IDS Wayland

Job ID: 480-151402-1

GC/MS VOA

Analysis Batch: 466874

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-151402-1	MW-217S-20190403-01	Total/NA	Water	8260C	
480-151402-2	MW-217M-20190403-01	Total/NA	Water	8260C	
MB 480-466874/8	Method Blank	Total/NA	Water	8260C	
LCS 480-466874/5	Lab Control Sample	Total/NA	Water	8260C	
LCSD 480-466874/6	Lab Control Sample Dup	Total/NA	Water	8260C	

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Lab Chronicle

Client: ERM-Northeast
Project/Site: IDS Wayland

Job ID: 480-151402-1

Client Sample ID: MW-217S-20190403-01

Lab Sample ID: 480-151402-1

Date Collected: 04/03/19 14:36

Matrix: Water

Date Received: 04/05/19 01:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	466874	04/09/19 12:31	AEM	TAL BUF

Client Sample ID: MW-217M-20190403-01

Lab Sample ID: 480-151402-2

Date Collected: 04/03/19 14:45

Matrix: Water

Date Received: 04/05/19 01:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	466874	04/09/19 12:56	AEM	TAL BUF

Laboratory References:

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

Accreditation/Certification Summary

Client: ERM-Northeast
Project/Site: IDS Wayland

Job ID: 480-151402-1

Laboratory: Eurofins TestAmerica, Buffalo

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

Authority	Program	EPA Region	Identification Number	Expiration Date
Arkansas DEQ	State Program	6	88-0686	07-06-19
California	State Program	9	2931	04-01-19 *
Connecticut	State Program	1	PH-0568	09-30-20
Florida	NELAP	4	E87672	06-30-19
Georgia	State Program	4	10026 (NY)	03-31-20
Illinois	NELAP	5	200003	09-30-19
Iowa	State Program	7	374	02-28-19 *
Kansas	NELAP	7	E-10187	01-31-20
Kentucky (DW)	State Program	4	90029	12-31-19
Kentucky (UST)	State Program	4	30	03-31-19 *
Kentucky (WW)	State Program	4	90029	12-31-19
Louisiana	NELAP	6	02031	06-30-19
Maryland	State Program	3	294	03-31-20
Massachusetts	State Program	1	M-NY044	06-30-19
Michigan	State Program	5	9937	03-31-19 *
Minnesota	NELAP	5	036-999-337	12-31-19
New Hampshire	NELAP	1	2337	11-17-19
New Jersey	NELAP	2	NY455	06-30-19
New York	NELAP	2	10026	03-31-20
North Dakota	State Program	8	R-176	03-31-19 *
Oklahoma	State Program	6	9421	08-31-19
Oregon	NELAP	10	NY200003	06-09-19 *
Pennsylvania	NELAP	3	68-00281	07-31-19
Rhode Island	State Program	1	LAO00328	12-30-19
Tennessee	State Program	4	TN02970	03-31-20
Texas	NELAP	6	T104704412-15-6	07-31-19
USDA	Federal		P330-11-00386	02-06-21
Virginia	NELAP	3	460185	09-14-19
Washington	State Program	10	C784	02-10-20
Wisconsin	State Program	5	998310390	08-31-19

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Eurofins TestAmerica, Buffalo

Method Summary

Client: ERM-Northeast
Project/Site: IDS Wayland

Job ID: 480-151402-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds (GC/MS)	MA DEP	TAL BUF
5030C	Purge and Trap	SW846	TAL BUF

Protocol References:

MA DEP = Massachusetts Department Of Environmental Protection

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

Laboratory References:

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



Sample Summary

Client: ERM-Northeast
Project/Site: IDS Wayland

Job ID: 480-151402-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-151402-1	MW-217S-20190403-01	Water	04/03/19 14:36	04/05/19 01:00
480-151402-2	MW-217M-20190403-01	Water	04/03/19 14:45	04/05/19 01:00

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Login Sample Receipt Checklist

Client: ERM-Northeast

Job Number: 480-151402-1

Login Number: 151402

List Source: Eurofins TestAmerica, Buffalo

List Number: 1

Creator: Kolb, Chris M

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	ERM
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

Chain of Custody Record


Client Information
 Client Contact: Larry Mastrea
 Company: ERM-Northeast
 Address: One Beacon Steel 5th Floor
 City: Boston
 State, Zip: MA, 02108
 Phone: 0484298.01
 Email: larry.mastrea@erm.com
 Project Name: IDS Wayland
 Site: Wayland

Sampler: J. Redden
 Lab PM: Mason, Becky C
 Phone: 508-498-5311
 E-Mail: becky.mason@testamericainc.com

Carrier Tracking No(s): _____
 COC No: 480-127995-28903.6
 Page: Page 6 of 6 Pg 1 of 1
 Job #:

Analysis Requested

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=water/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)		522 - Local Method		6010MCP - Chromium		Total Number of containers	Special Instructions/Note:
					A	D	A	D	A	D	A	D		
MW-217S-20190403-01	04/03/19	14:36	G	Water	N	N	X	X					3	Contact sampler
MW-217M-20190403-01	↓	14:45	↓	Water	N	N	X	X					3	J. Redden w/ my questions.
				Water										
				Water										
				Water										
				Water										
				Water										
				Water										

Barcode:  480-151402 Chain of Custody (Hydrate)

Preservation Codes:
 M - Hexane
 A - HCl
 N - None
 B - NaOH
 C - Zn Acetate

Other: _____

Possible Hazard Identification
 Non-Hazard Flammable Skin Irritant Poison B Unknown Radiological

Deliverable Requested: I, II, III, IV, Other (specify) _____

Empty Kit Relinquished by: _____ Date: _____

Relinquished by: [Signature] Date/Time: 4/3/19 17:15
 Relinquished by: [Signature] Date/Time: 4-4-19 - 1800
 Relinquished by: [Signature] Date/Time: _____

Company: ERM
 Company: ERM
 Company: ERM

Received by: [Signature] Date/Time: 4-3-19 17:15
 Received by: [Signature] Date/Time: 04/03/19 0900
 Received by: _____ Date/Time: _____

Company: ERM
 Company: ERM
 Company: ERM

Cooler Temperature(s) °C and Other Remarks: 3.1 #1

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

Special Instructions/QC Requirements: _____

Method of Shipment: _____