Buffalo Business Park

ERIE COUNTY, NEW YORK

Annual Report
2016-2017

NYSDEC Site Number: V00663-9

Prepared for:
Buffalo Business Park

1800 Broadway Street
Buffalo, New York

Prepared by:
Environmental & Geologic Management Services. LLC

15 Briar Hill Road
Orchard Park, New York 14127

Table of Contents

I. Introduction
II. Site Overview
III. Remedy Performance, Effectiveness, and Protectiveness
IV. IC/EC Plan Compliance
V. Monitoring Plan Compliance Report
VI. Operation & Maintenance (O&M) Plan Compliance Report
VII. Overall Conclusions and Recommendations

List of Figures

Figure 1- Water Table Map during Pumping
Figure 2- Water Table Map with Pumps Turned Off

List of Tables

Table 1 - Pumping History
Table 2 - Groundwater Quality History

Appendices

Appendix A - Certification
Appendix B - May 2017 Laboratory Data
Appendix C - May 2017 Field Data
Appendix D – Sub-Slab Depressurization Certified Inspection Form

I. Introduction

A. Remedial History

The Buffalo Business Park site is a warehousing & light manufacturing industrial park located on the site of an old railroad yard. It is suspected that the groundwater contamination on the site is the result of activities associated with this previous use.

The site contains two operable units: Unit 1 was an area of soil contamination which has been remediated by removal of contaminated soils: and Unit 2 is an area of groundwater contamination located in the same area where the soil contamination was located. In addition to the groundwater remedial program, there was concern regarding the potential for vapor intrusion into one of the buildings located south of the area of groundwater contamination.

B. Effectiveness of the Remedial Program

Remediation of the groundwater contamination at the site consists of a groundwater pumping system using three wells (MW-3BR, MW-4BR and MW-5BR) located in the groundwater contaminant plume. Wells are pumped using appropriate controllers to achieve drawdown of the water table and thus achieve hydraulic capture of contaminated groundwater. Wells are sampled periodically to evaluate if decreases in contaminant levels are being achieved. The primary goal of the pumping program is to achieve groundwater flow control such that flow of contaminated groundwater does not leave the site but is captured by the pumping system. Based on groundwater contour maps, this goal is being achieved.

Groundwater quality data has historically shown reductions in contaminant concentrations in some wells. Contaminant concentrations in all wells rose in 2015; then decreased in 2016. Contaminant concentrations have increased again in some wells in 2017. At this time, there are no clear trends showing significant reductions in contaminant levels.

Pumping rates increased at MW-3Br and MW-4BR, but decreased at MW-5BR. MW-3BR had the highest level of groundwater production in 2016.

Operation of the pumping system has historically demonstrated that the primary goal of capture can be achieved with ongoing pumping operations. Achievement of the secondary goal of contaminant reduction may be achievable, but it may take longer to achieve this goal.

Operation of the sub-slab venting system is effectively preventing soil vapors from entering the building and is ongoing.

C. Compliance

The facility is operating the pumping and venting systems in compliance with the

Site Management Plan. The Buffalo Sewer Authority (BSA) Permit is due for renewal in October, 2017. The permit renewal process will be started in September, 2017.

D. Recommendations

At this time, no changes to the Site Management Plan (SMP) are recommended. The requirements for discontinuing the SMP have not been met.

Pumping volumes, water level measurements along with sampling and analysis of groundwater will continue as described in the SMP.

II. Site Overview

A. Site Description

The site consists of a 1 Acre portion of the Buffalo Business Park property located at 1800 Broadway in Buffalo, New York. The site is located at the entrance to the property and consists primarily of parking and driveway areas and a portion of the commercial/industrial building fronting on Broadway.

B. Remedial Program for the site

The remedial program for the site consists of the following:

- excavation of contaminated soil (completed);
- pumping of contaminated groundwater to achieve capture (no contaminated groundwater leaving the site) as well as reduction of groundwater contaminant concentrations; and
- installation and operation of a sub-slab depressurization system in the building (ongoing).

.

III. Remedy Performance, Effectiveness, and Protectiveness

A. Groundwater Capture

A review of site potentiometric surface maps for groundwater from 2009 through 2017 show that the use of pumping wells has historically prevented contaminated groundwater from leaving the site. Pumping rates increased in 2016-2017 at MW-3BR and MW-4BR, but decreased slightly at MW-5BR. MW-3BR had the highest level of groundwater production at 382,080 gallons from May 26, 2016 to May 17, 2017 up from 107,920 gallons the previous period. The pumping rate at MW-4BR for the same period was 19,611 gallons up from 2,680 gallons the previous period. The pumping rate at MW-5BR for the same period was 13,520, down from the previous year period of 17,820 gallons. Table 1 provides a summary of pumping history, and summarizes the pumping volumes by well for the 2016 – 2017 reporting period.

B. Groundwater Contamination Levels

There are three principal contaminants present in groundwater: tetrachloroethene, trichloroethene and dichloroethene. Two of these compounds (trichloroethene and dichloroethene) are degradation products of tetrachloroethene. Review and comparison of the 2017 groundwater analytical results shows the following:

MW-2BR. The concentration of three of these compounds decreased in 2017. Trichloroethene was not detected in the 2017 groundwater sample (Table 2).

MW3-BR. The concentration of tetrachloroethene decreased slightly in comparison to the 2016 results. The concentrations of trichloroethene and dichloroethene increased in 2017 (Table 2).

MW-4BR. The concentrations of tetrachloroethene, trichloroethene and dichloroethene increased in 2017. Vinyl chloride was detected in the groundwater sample from this well in 2016; however it was not detected in 2017 (Table 2).

MW-5BR. For the first time since the groundwater pumping system was started, tetrachloroethene was not detected in this water sample in 2017 The concentration of trichloroethene decreased significantly in the 2017 in this well; however, the concentration of dichloroethene increased. Vinyl chloroide was also detected in the 2017 water sample (Table 2).

MW-5A BR. The concentration of tetrachloroethene decreased significantly in 2017 in this well. The concentration of trichloroethene remained constant at 1400 ug/L. The concentration dichloroethene increased in 2017 (Table 2).

The analytical data package is attached as Appendix B.

IV. Institutional Controls/Engineering Controls Plan Compliance (IC/EC Plan)

A. IC/EC Requirements and Compliance

Buffalo Business Park has both engineering controls (Groundwater Pumping; Sub slab venting) and institutional controls (Deed Restriction) in place.

Institutional Controls - The site continues to be owned and managed by Buffalo Business Park. No sale of the property has been made or is currently contemplated. ICs are noted on survey maps of the area are subject to deed restrictions.

Engineering Controls - Buffalo Business Park continues to operate and maintain the groundwater pumping system. The totalizer at MW-4BR malfunctioned and was replaced December, 2016. There were no other significant operational deficiencies with the groundwater pumping system during this period.

The sub-slab venting system was continuously operational during the 2016-2017 period.

Corrective Measures - There are currently no operational deficiencies in the EC/IC operations.

No changes to EC/IC Plan are recommended at this time. The IC/EC certification is provided in Appendix A.

Buffalo Business Park received a notice of violation from the Buffalo Sewer Authority dated June 17, 2016 that the groundwater discharged to the BSA exceeds the daily maximum limit for tetrachloroethylene and will be required to investigate this occurrence in order to continue to discharge groundwater to the BSA. Buffalo Business Park responded to the BSA and investigated these occurrences with additional sampling. While the concentration of tetrachloroethylene does exceed the BSA's daily maximum limit, the loading to BSA is well below their daily allowable limit since Buffalo Business Park does not discharge a significant amount of water to the BSA. The permit renewal process will begin in September, 2017.

V. Monitoring Plan Compliance Report

A. Monitoring Plan Requirements

The monitoring plan requires that wells (MWBR-2, MW – 3BR, MWBR-4, MW – 5BR and MWBR-5A) are sampled annually and samples analyzed for volatile organic compounds (VOCs). Annual groundwater sampling was completed on May 18, 2017.

The plan also requires that all wells be measured for groundwater elevation to evaluate groundwater flow. This measurement was completed on May 17 and 18, 2017.

B. Summary of Monitoring Completed during Reporting Period

Copies of the field data are provided in Appendix C. A potentiometric contour map based on the elevation data is provided as Figure 1. Equilibrium conditions are shown on Figure 2. Groundwater analytical data is included in Appendix B.

C. Comparisons with Remedial Objectives

Groundwater monitoring results show that the remedial objective of onsite capture of contaminated groundwater is being met. Groundwater quality objectives have shown an historic decrease in contaminant levels until 2014, when the contaminant concentrations in groundwater increased at monitoring wells MW2-BR and MW4-BR. Contaminant concentrations decreased again during the 2015-2016 period; however, contaminant concentrations increased overall again during the 2016-2017 period. Overall, groundwater quality objectives are not being met.

D. Monitoring Deficiencies:

There were no monitoring deficiencies in this period. Groundwater elevations were measured in December 23, 2016 and again in May 17, 2017.

E. Conclusions and Recommendations

No changes to the monitoring program are recommended at this time.

VI. Operation & Maintenance (O & M) Plan Compliance Report

A. Components of O&M Plan

Inspections and data recording are being conducted as required. Deficiencies are corrected and corrective actions are documented.

B. Summary of O & M Completed During Reporting Period

O&M activities are summarized and details of O & M actions are recorded in the monthly inspection reports and are kept onsite. The sub-slab depressurization blowers were recently inspected. This certified inspection form is attached as Appendix D.

C. Evaluation of Remedial Systems

The remedial systems are operating as designed at MW-3BR, MW-4BR and MW-5ABR. Maintenance performed is routine and not unusual (ex. Pump failure). No changes to this remedial system are recommended at this time.

The sub-slab venting system is also operating as designed. No changes to this remedial system are recommended at this time.

D. O & M Deficiencies

There are no operational or maintenance deficiencies at this time.

E. Conclusions and Recommendations for Improvements

The remedial system as designed and operated is capturing contaminated groundwater at the site. There are no recommendations for improvement to the remedial system. No changes to the O & M plan are recommended.

VII. Overall Conclusions and Recommendations

A. Compliance with SMP

Buffalo Business Park has complied with all aspects of the SMP (IC/EC; O & M and Monitoring) for the period 2016 to 2017.

B. Performance and Effectiveness of the Remedy

The remedy has been effective in containing groundwater contamination and preventing contamination from leaving the site. Groundwater quality criteria have not been met and pumping should continue.

C. Future Submittals

Frequency of reporting should remain as currently required.

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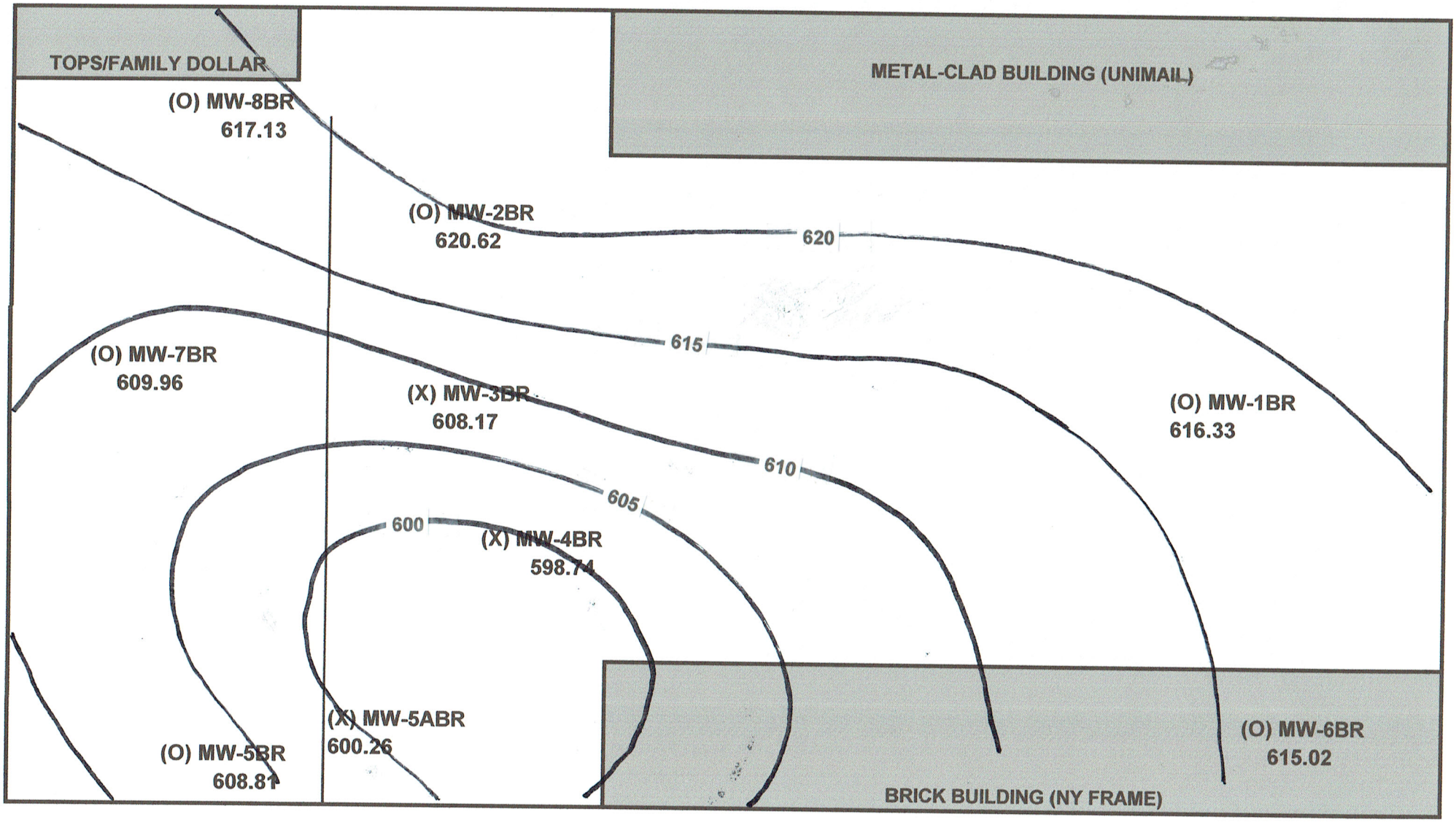
FIGURES

FIGURE 1. BUFFALO BUS. PARK WATER LEVELS - PUMPING CONDITIONS

MAY 17, 2017

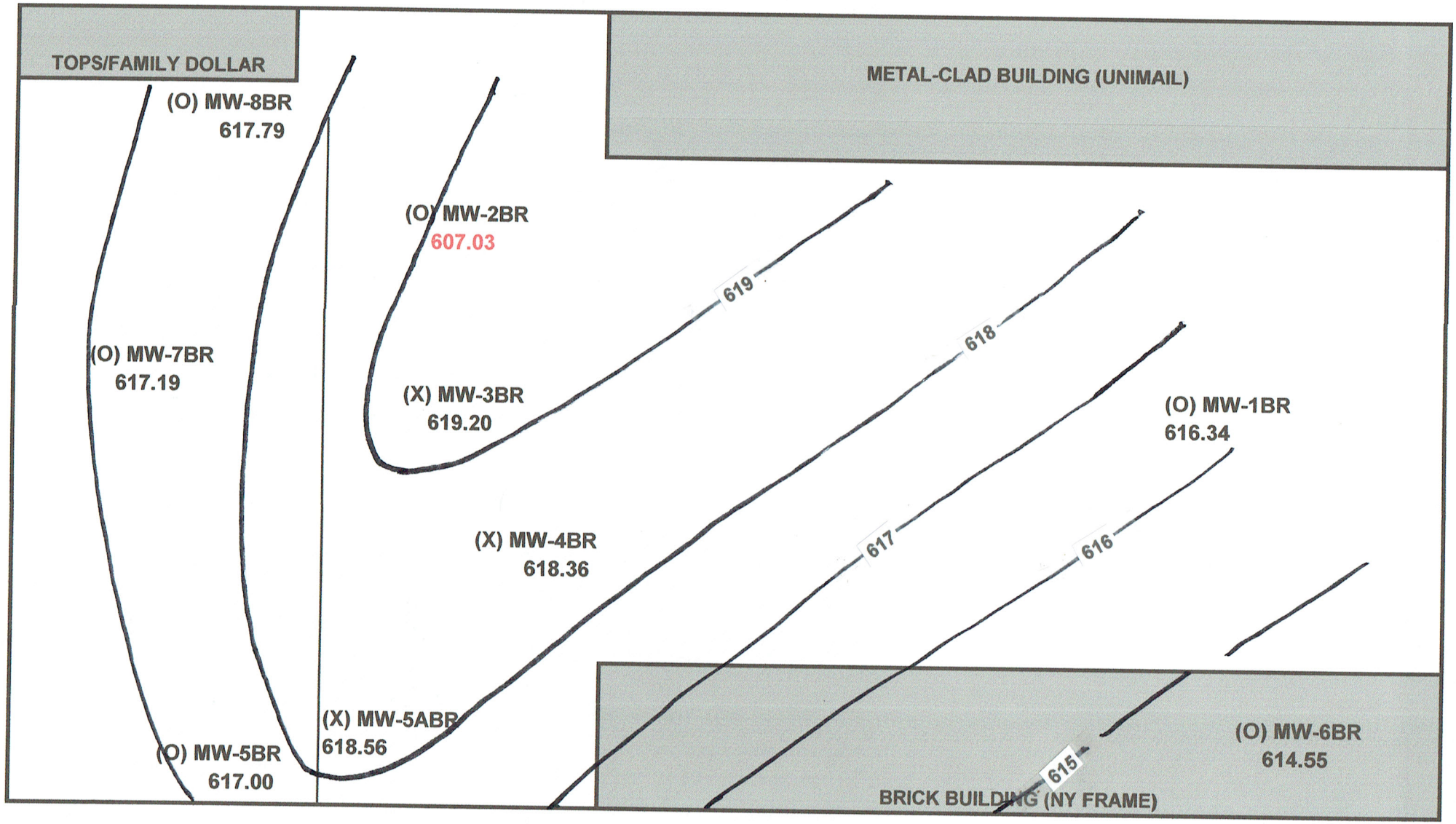


(O) MONITORING WELL

(X) PUMPING WELL - TURNED ON

FIGURE 2. BUFFALO BUS. PARK WATER LEVELS - PUMPING CONDITIONS

MAY 18, 2017



x NOT FULLY RECHARGED

(O) MONITORING WELL

(X) PUMPING WELL - TURNED OFF

TABLES

TABLE 1. PUMPING WELL TOTALIZERS
BUFFALO BUSINESS PARK

DATE	MW-4 BR	MW-2 BR	MW-3 BR	MW-5A BR
8/7/2008	0	na	na	na
8/26/2008	15575	na	na	na
10/13/2008	52364	na	na	na
10/1/2009	137280	na	na	na
12/15/2009	148600	0	na	na
9/8/2010	194590	na	na	na
9/15/2010	na	na	na	0
4/27/2011	231020	1220	na	44170
5/31/2012	256870	4930	na	116430
5/8/2013	289130	5180	na	170960
5/15/2014	403380	5310	na	224850
1/19/2015	421440	5310	na	254600
5/27/2015	421460	5310	na	272660
7/17/2015	424105	na	na	279160
1/7/2016	424130	na	60	279160
3/9/2016	424140	na	18650	287420
5/26/2016	424140	na	107920	296980
9/22/2016	424220	na	123410	297650
12/23/2016	58	na	235347	305340
5/17/2017	19531	na	490000	310500

* MW-2 BR - pump removed due to poor recharge - 5/27/15
* MW-4 BR - pump not running, GFI replaced and well started - 5/27/15
* MW-3 BR - pump started - 1/7/16
* MW-4 BR - new totalizer - 12/20/16

EGMS

TABLE 2. VOLATILE ORGANIC COMPOUNDS IN GROUNDWATER
BUFFALO BUSINESS PARK

Well ID			MW2-BR	MW2-BR	MW2-BR	MW2-BR	MW2-BR	MW2-BR	MW2-BR	MW2-BR	MW2-BR	MW2-BR	MW2-BR	MW2-BR
Date			9/17/2004	2/15/2006			4/13/2009	4/27/2011	5/31/2012	5/9/2013	5/9/2014	5/28/2015	5/27/2016	5/18/2017
Parameter	Units	Criteria												
1,2-Dichloroethene (cis)	ug/l	5	ND	ND	Not	Not	11	1.5	17	100	2300	4800	2500	1600
1,2-Dichloroethene, Total	ug/l				Sampled	Sampled		1.5		100	2300	4800	2500	1600
Tetrachloroethene	ug/l	5	4600	2600			9,600	1	20	8.1	5500	18,000	95	42
Trichloroethene	ug/l	5	ND	30			75		2.2	0.92J	1000	1,600	69	
						Total VOCs	9,686.0	4.0	39.2	208.1	11,100.0	29,200.0	5,164.0	3,242.0

Well ID			MW3-BR	MW3-BR	MW3-BR	MW3-BR	MW3-BR	MW3-BR	MW3-BR	MW3-BR
Date			4/13/2009	4/27/2011	5/31/2012	5/9/2013	5/9/2014	5/28/2015	5/27/2016	5/18/2017
Parameter	Units	Criteria								
1,2-Dichloroethene (cis)	ug/l	5	620	430	220	1800	520	1,400	1100	1800
1,2-Dichloroethene, Total	ug/l			430		1800	520	1400	1100	1800
Tetrachloroethene	ug/l	5	2,200	4,200	1400	16000	4100	21,000	4400	4300
Trichloroethene	ug/l	5	570	360	78	810	180	1,200	630	1100
			Total VOCs	3,390	5,420	1,698	20,410	5,320	25,000	7,230	9,000

Well ID			MW4-BR	MW4-BR	MW4-BR	MW4-BR	MW4-BR	MW4-BR	MW4-BR	MW4-BR	MW4-BR	MW4-BR	MW4-BR
Date			2/15/2006	5/1/2008	10/13/2008	4/13/2009	4/27/2011	5/31/2012	5/9/2013	5/9/2014	5/28/2015	5/27/2016	5/18/2017
Parameter	Units	Criteria											
1,1-Dichloroethene													12J
1,2-Dichloroethene (cis)	ug/l	5	1400	1000	620	630	21.0	730	990	1700	890	2900	3300
1,2-Dichloroethene, Total	ug/l						22.0		1000	1700	890	2900	3300
Tetrachloroethene	ug/l	5	30000	31000	4300	13,000	710.0	13000	11000	12000	20,000	520	7100
Trans-1,2-Dichloroethene												40	56
Trichloroethene	ug/l	5	3600	3500	980	1,400	64.0	1500	1600	2200	2,600	290	2200
Vinyl chloride	ug/l	2										130	
					Total VOCs	15,030	817	15,230	14,590	17,600	24,380	6,780	15,956

Well ID			MW5-BR	MW5-BR	MW5-BR	MW5-BR	MW5-BR	MW5-BR	MW5-BR	MW5-BR
Date			4/13/2009	4/27/2011	5/31/2012	5/9/2013	5/9/2014	5/28/2015	5/27/2016	5/18/2017
Parameter	Units	Criteria								
1,1-Dichloroethene								15		
1,2-Dichloroethene (cis)	ug/l	5	1,100	2700.0	3500	2100	740	3,000	3700	6300
1,2-Dichloroethene, Total	ug/l			2700.0		2100	750	3,000	3700	6300
Tetrachloroethene	ug/l	5	15,000	1300.0	220	320	110	2,100	1500	
Trichloroethene	ug/l	5		850.0	160	290	77	1,000	1300	190
Vinyl chloride	ug/l	2				100	110	130		130
			Total VOCs	16,100	7,550	3,880	4,910	1,787	9,245	10,200	12,920

Well ID			MW5A-BR	MW5A-BR	MW5A-BR	MW5A-BR	MW5A-BR	MW5A-BR	MW5A-BR
Date			4/27/2011	5/31/2012	5/9/2013	5/9/2014	5/28/2015	5/27/2016	5/18/2017
Parameter	Units	Criteria							
1,1-Dichloroethene							9.6		
1,2-Dichloroethene (cis)	ug/l	5	970.0	1900	870	170	1,500	2100	5100
1,2-Dichloroethene, Total	ug/l		970.0		880	170	1,500	2100	5100
Tetrachloroethene	ug/l	5	4300.0	8900	1300	410	12,000	4000	180
Trichloroethene	ug/l	5	1300.0	2000	370	110	2,300	1400	1400
Vinyl chloride	ug/l	2					76		
			Total VOCs	7,540	12,800	3,420	860	17,386	9,600	11,780

APPENDICES

APPENDIX A

CERTIFICATION

Enclosure 2

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
Site Management Periodic Review Report Notice
Institutional and Engineering Controls Certification Form

Site Details **Box 1**

Site No. **V00663**

Site Name **Buffalo Business Park**

Site Address: 1800 Broadway Zip Code: 14212-2001
City/Town: Buffalo
County: Erie
Site Acreage: 1.4

Reporting Period: September 16, 2016 to September 1, 2017

	YES	NO
1. Is the information above correct?	X	
If NO, include handwritten above or on a separate sheet.		
2. Has some or all of the site property been sold, subdivided, merged, or undergone a tax map amendment during this Reporting Period?		X
3. Has there been any change of use at the site during this Reporting Period (see 6NYCRR 375-1.11(d))?		X
4. Have any federal, state, and/or local permits (e.g., building, discharge) been issued for or at the property during this Reporting Period?		X
If you answered YES to questions 2 thru 4, include documentation or evidence that documentation has been previously submitted with this certification form.		
5. Is the site currently undergoing development?		X

Box 2

	YES	NO
6. Is the current site use consistent with the use(s) listed below? Commercial and Industrial	X	G
7. Are all ICs/ECs in place and functioning as designed?	X	G

IF THE ANSWER TO EITHER QUESTION 6 OR 7 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.

A Corrective Measures Work Plan must be submitted along with this form to address these issues.

Signature of Owner, Remedial Party or Designated Representative

Sept 1, 2017
Date

SITE NO. V00663

Box 3

Description of Institutional Controls

Parcel	Owner	Institutional Control
101.19-1-5.1	Gary Crewson	Ground Water Use Restriction Site Management Plan Soil Management Plan Ground Water Use Restriction Landuse Restriction Monitoring Plan O&M Plan IC/EC Plan

The deed restriction was filed on 11-19-2010. The Controlled Property (1.4137 acres) is subject to the Site Management Plan. The Controlled Property is the south west corner of the entire Buffalo Business Park property (19.93 acres).

Restrictions:

1. The Controlled Property may be used only for industrial or commercial purposes, excluding day care, child care, and medical care uses.
2. The Groundwater beneath the Controlled Property may not be used for potable or non-potable purposes;
3. The Site Management Plan must be implemented for the Controlled Property;
4. Soils at the Controlled Property shall be managed in accordance with the Site Management plan.

Box 4

Description of Engineering Controls

Parcel	Engineering Control
101.19-1-5.1	Groundwater Treatment System Vapor Mitigation

1. SSDS: A sub slab depressurization system (SSDS) is installed in the western end of New York frame building consisting of two active vents.
2. Pumping System: Three bedrock monitoring wells MW4-BR, MW2-BR and MW5A-BR are operated as pumping wells. Recovered groundwater is discharged to BSA.

Box 5

Periodic Review Report (PRR) Certification Statements

1. I certify by checking "YES" below that:

   a) the Periodic Review report and all attachments were prepared under the direction of, and reviewed by, the party making the certification;

   b) to the best of my knowledge and belief, the work and conclusions described in this certification are in accordance with the requirements of the site remedial program, and generally accepted engineering practices; and the information presented is accurate and compete.

YES	NO
X	

2. If this site has an IC/EC Plan (or equivalent as required in the Decision Document), for each Institutional or Engineering control listed in Boxes 3 and/or 4, I certify by checking "YES" below that all of the following statements are true:

   (a) the Institutional Control and/or Engineering Control(s) employed at this site is unchanged since the date that the Control was put in-place, or was last approved by the Department;

   (b) nothing has occurred that would impair the ability of such Control, to protect public health and the environment;

   (c) access to the site will continue to be provided to the Department, to evaluate the remedy, including access to evaluate the continued maintenance of this Control;

   (d) nothing has occurred that would constitute a violation or failure to comply with the Site Management Plan for this Control; and

   (e) if a financial assurance mechanism is required by the oversight document for the site, the mechanism remains valid and sufficient for its intended purpose established in the document.

YES	NO
X	

IF THE ANSWER TO QUESTION 2 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.

A Corrective Measures Work Plan must be submitted along with this form to address these issues.

_____ _____

Signature of Owner, Remedial Party or Designated Representative — Date

IC CERTIFICATIONS
SITE NO. V00663

Box 6

SITE OWNER OR DESIGNATED REPRESENTATIVE SIGNATURE

I certify that all information and statements in Boxes 1,2, and 3 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I GARY CREWSON at 1800 BROADWAY AVE, BUFF. NY. 14212,
print name print business address

am certifying as OWNER (Owner or Remedial Party)

for the Site named in the Site Details Section of this form.

Signature of Owner, Remedial Party, or Designated Representative Rendering Certification

Sept 1, 2017
Date

IC/EC CERTIFICATIONS

Box 7

Qualified Environmental Professional Signature

I certify that all information in Boxes 4 and 5 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I Norman W. McLaughlin at E & M S,
print name — print business address

am certifying as a Qualified Environmental Professional for the Buffalo Business Park
(Owner or Remedial Party)

Signature of Qualified Environmental Professional, for the Owner or Remedial Party, Rendering Certification	Stamp (Required for PE)	Date
		9/4/17

APPENDIX B

MAY 2016 LABORATORY DATA

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: 480-118206-1
Client Project/Site: Buffalo Business Park
Sampling Event: Buffalo Business Park

For:
Environmental Sampling & Services Inc
7183 Balla Drive
North Tonawanda, New York 14120

Attn: Robert Chiodo

Denise L Giglia

Authorized for release by:
5/31/2017 10:50:23 AM
Denise Giglia, Project Management Assistant II
denise.giglia@testamericainc.com

Designee for

Ryan VanDette, Project Manager II
(716)504-9830
ryan.vandette@testamericainc.com

LINKS

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Have a Question? Ask The Expert

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.

Table of Contents

Cover Page 1
Table of Contents 2
Definitions/Glossary 3
Case Narrative 4
Detection Summary 6
Client Sample Results 9
Surrogate Summary 26
QC Sample Results 27
QC Association Summary 50
Lab Chronicle 52
Certification Summary 54
Method Summary 55
Sample Summary 56
Detection Limit Exceptions Summary 57
Chain of Custody 58
Field Data Sheets 59
Receipt Checklists 60

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
E	Result exceeded calibration range.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F1	MS and/or MSD Recovery is outside acceptance limits.
*	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)

Job ID: 480-118206-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative
480-118206-1

Comments
No additional comments.

Receipt
The samples were received on 5/18/2017 10:05 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 0.9º C.

GC/MS VOA
Method(s) 8260C: The continuing calibration verification (CCV) associated with batch 480-359274 recovered above the upper control limit for carbon tetrachloride and Vinyl Acetate. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: MW 2-BR (480-118206-1), MW 3-BR (480-118206-2) and TRIP BLANK (480-118206-7).

Method(s) 8260C: The following sample was diluted to bring the concentration of target analytes within the calibration range: MW 2-BR (480-118206-1) and MW 3-BR (480-118206-2). Elevated reporting limits (RLs) are provided.

Method(s) 8260C: The continuing calibration verification (CCV) associated with batch 480-359427 recovered above the upper control limit for carbon tetrachloride and trichlorofluoromethane. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following sample is impacted: MW 4-BR (480-118206-3) and MW 5-BR (480-118206-4).

Method(s) 8260C: The continuing calibration verification (CCV) associated with batch 480-359427 recovered outside acceptance criteria, low biased, for carbon disulfide and chloromethane. A reporting limit (RL) standard was analyzed, and the target analytes were detected. Since the associated samples were non-detect for these analytes, the data have been reported. The following sample is impacted: MW 4-BR (480-118206-3) and MW 5-BR (480-118206-4).

Method(s) 8260C: The following samples was diluted to bring the concentration of target analytes within the calibration range: MW 4-BR (480-118206-3), MW 5-BR (480-118206-4), MW 5-BR (480-118206-4[MS]) and MW 5-BR (480-118206-4[MSD]). Elevated reporting limits (RLs) are provided.

Method(s) 8260C: The continuing calibration verification (CCV) associated with batch 480-359429 recovered above the upper control limit for 1,2,4-Trichlorobenzene. The samples associated with this CCV were non-detect for the affected analyte; therefore, the data have been reported. The following sample is impacted: MW 5A-BR (480-118206-5).

Method(s) 8260C: The following sample was diluted to bring the concentration of target analytes within the calibration range: MW 5A-BR (480-118206-5). Elevated reporting limits (RLs) are provided.

Method(s) 8260C: The following sample was diluted to bring the concentration of target analytes within the calibration range: MW 3-BR (480-118206-2). Elevated reporting limits (RLs) are provided.

Method(s) 8260C: The continuing calibration verification (CCV) associated with batch 480-359421 recovered above the upper control limit for Vinyl acetate. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following sample is impacted: MW 3-BR (480-118206-2).

Method(s) 8260C: The following sample was diluted to bring the concentration of target analytes within the calibration range: DUP@MW 4-BR (480-118206-6). Elevated reporting limits (RLs) are provided.

Method(s) 8260C: The continuing calibration verification (CCV) associated with batch 480-359479 recovered outside acceptance criteria, low biased, for Chloromethane. A reporting limit (RL) standard was analyzed, and the target analyte was detected. Since the associated sample was non-detect for this analyte, the data have been reported: DUP@MW 4-BR (480-118206-6).

Method(s) 8260C: The laboratory control sample (LCS) for analytical batch 480-359479 recovered outside control limits for the following analyte: Dichlorodifluoromethane. Dichlorodifluoromethane has been identified as a poor performing analyte when analyzed using this

Job ID: 480-118206-1 (Continued)

Laboratory: TestAmerica Buffalo (Continued)

method; therefore, re-extraction/re-analysis was not performed: DUP@MW 4-BR (480-118206-6).

Method(s) 8260C: The following sample was diluted to bring the concentration of target analytes within the calibration range: MW 4-BR (480-118206-3). Elevated reporting limits (RLs) are provided.

Method(s) 8260C: The continuing calibration verification (CCV) associated with batch 480-359485 recovered above the upper control limit for 2-Hexanone, Carbon tetrachloride and Trichlorofluoromethane. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following sample is impacted: MW 4-BR (480-118206-3).

Method(s) 8260C: The following samples were diluted to bring the concentration of target analytes within the calibration range: DUP@MW 4-BR (480-118206-6), (480-118206-B-6 MS) and (480-118206-B-6 MSD). 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.

Detection Summary

Client: Environmental Sampling & Services Inc
Project/Site: Buffalo Business Park

TestAmerica Job ID: 480-118206-1

Client Sample ID: MW 2-BR — Lab Sample ID: 480-118206-1

Analyte	Result	Qualifier	NONE	NONE	Unit	Dil Fac	D	Method	Prep Type
Field pH	7.63				SU	1		Field Sampling	Total/NA
Specific Conductance	965				umhos/cm	1		Field Sampling	Total/NA
Temperature	15.7				Degrees C	1		Field Sampling	Total/NA
Oxidation Reduction Potential	-22.2				millivolts	1		Field Sampling	Total/NA
Turbidity	3.06				NTU	1		Field Sampling	Total/NA
Water Depth	26.55				ft	1		Field Sampling	Total/NA
Depth to Water from Top of Casing	4.42				ft	1		Field Sampling	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2-Dichloroethene, Total	1600		80	32	ug/L	40		8260C	Total/NA
cis-1,2-Dichloroethene	1600		40	32	ug/L	40		8260C	Total/NA
Tetrachloroethene	42		40	14	ug/L	40		8260C	Total/NA

Client Sample ID: MW 3-BR — Lab Sample ID: 480-118206-2

Analyte	Result	Qualifier	NONE	NONE	Unit	Dil Fac	D	Method	Prep Type
Field pH	7.33				SU	1		Field Sampling	Total/NA
Specific Conductance	1992				umhos/cm	1		Field Sampling	Total/NA
Temperature	14.0				Degrees C	1		Field Sampling	Total/NA
Oxidation Reduction Potential	-4.6				millivolts	1		Field Sampling	Total/NA
Turbidity	14.80				NTU	1		Field Sampling	Total/NA
Water Depth	28.60				ft	1		Field Sampling	Total/NA
Depth to Water from Top of Casing	15.82				ft	1		Field Sampling	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2-Dichloroethene, Total	2000		200	81	ug/L	100		8260C	Total/NA
cis-1,2-Dichloroethene	2000		100	81	ug/L	100		8260C	Total/NA
Tetrachloroethene	11000	E	100	36	ug/L	100		8260C	Total/NA
Trichloroethene	1600		100	46	ug/L	100		8260C	Total/NA
1,2-Dichloroethene, Total - DL	1800		400	160	ug/L	200		8260C	Total/NA
cis-1,2-Dichloroethene - DL	1800		200	160	ug/L	200		8260C	Total/NA
Tetrachloroethene - DL	4300		200	72	ug/L	200		8260C	Total/NA
Trichloroethene - DL	1100		200	92	ug/L	200		8260C	Total/NA

Client Sample ID: MW 4-BR — Lab Sample ID: 480-118206-3

Analyte	Result	Qualifier	NONE	NONE	Unit	Dil Fac	D	Method	Prep Type
Field pH	7.13				SU	1		Field Sampling	Total/NA
Specific Conductance	1135				umhos/cm	1		Field Sampling	Total/NA
Temperature	15.8				Degrees C	1		Field Sampling	Total/NA
Oxidation Reduction Potential	5.8				millivolts	1		Field Sampling	Total/NA
Turbidity	3.78				NTU	1		Field Sampling	Total/NA
Water Depth	27.75				ft	1		Field Sampling	Total/NA
Depth to Water from Top of Casing	24.05				ft	1		Field Sampling	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethene	12	J	40	12	ug/L	40		8260C	Total/NA
1,2-Dichloroethene, Total	3800		80	32	ug/L	40		8260C	Total/NA
cis-1,2-Dichloroethene	3700		40	32	ug/L	40		8260C	Total/NA
Tetrachloroethene	7500	E	40	14	ug/L	40		8260C	Total/NA
trans-1,2-Dichloroethene	56		40	36	ug/L	40		8260C	Total/NA
Trichloroethene	2300		40	18	ug/L	40		8260C	Total/NA
1,2-Dichloroethene, Total - DL	3300		200	81	ug/L	100		8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW 4-BR (Continued) — Lab Sample ID: 480-118206-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene - DL	3300		100	81	ug/L	100		8260C	Total/NA
Tetrachloroethene - DL	7100		100	36	ug/L	100		8260C	Total/NA
Trichloroethene - DL	2200		100	46	ug/L	100		8260C	Total/NA

Client Sample ID: MW 5-BR — Lab Sample ID: 480-118206-4

Analyte	Result	Qualifier	NONE	NONE	Unit	Dil Fac	D	Method	Prep Type
Field pH	7.10				SU	1		Field Sampling	Total/NA
Specific Conductance	2260				umhos/cm	1		Field Sampling	Total/NA
Temperature	14.6				Degrees C	1		Field Sampling	Total/NA
Oxidation Reduction Potential	6.7				millivolts	1		Field Sampling	Total/NA
Turbidity	4.18				NTU	1		Field Sampling	Total/NA
Water Depth	26.70				ft	1		Field Sampling	Total/NA
Depth to Water from Top of Casing	13.61				ft	1		Field Sampling	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2-Dichloroethene, Total	6300		160	65	ug/L	80		8260C	Total/NA
cis-1,2-Dichloroethene	6300	F1	80	65	ug/L	80		8260C	Total/NA
Trichloroethene	190		80	37	ug/L	80		8260C	Total/NA
Vinyl chloride	130		80	72	ug/L	80		8260C	Total/NA

Client Sample ID: MW 5A-BR — Lab Sample ID: 480-118206-5

Analyte	Result	Qualifier	NONE	NONE	Unit	Dil Fac	D	Method	Prep Type
Field pH	7.12				SU	1		Field Sampling	Total/NA
Specific Conductance	4010				umhos/cm	1		Field Sampling	Total/NA
Temperature	15.2				Degrees C	1		Field Sampling	Total/NA
Oxidation Reduction Potential	6.1				millivolts	1		Field Sampling	Total/NA
Turbidity	22.10				NTU	1		Field Sampling	Total/NA
Water Depth	25.40				ft	1		Field Sampling	Total/NA
Depth to Water from Top of Casing	19.50				ft	1		Field Sampling	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2-Dichloroethene, Total	5100		200	81	ug/L	100		8260C	Total/NA
cis-1,2-Dichloroethene	5100		100	81	ug/L	100		8260C	Total/NA
Tetrachloroethene	180		100	36	ug/L	100		8260C	Total/NA
Trichloroethene	1400		100	46	ug/L	100		8260C	Total/NA

Client Sample ID: DUP@MW 4-BR — Lab Sample ID: 480-118206-6

Analyte	Result	Qualifier	NONE	NONE	Unit	Dil Fac	D	Method	Prep Type
Field pH	7.13				SU	1		Field Sampling	Total/NA
Specific Conductance	1135				umhos/cm	1		Field Sampling	Total/NA
Temperature	15.8				Degrees C	1		Field Sampling	Total/NA
Oxidation Reduction Potential	5.8				millivolts	1		Field Sampling	Total/NA
Turbidity	3.78				NTU	1		Field Sampling	Total/NA
Water Depth	27.75				ft	1		Field Sampling	Total/NA
Depth to Water from Top of Casing	24.05				ft	1		Field Sampling	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethene	14	J	40	12	ug/L	40		8260C	Total/NA
1,2-Dichloroethene, Total	3500		80	32	ug/L	40		8260C	Total/NA
cis-1,2-Dichloroethene	3500		40	32	ug/L	40		8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DUP@MW 4-BR (Continued)

Lab Sample ID: 480-118206-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	6200	E	40	14	ug/L	40		8260C	Total/NA
trans-1,2-Dichloroethene	41		40	36	ug/L	40		8260C	Total/NA
Trichloroethene	2100		40	18	ug/L	40		8260C	Total/NA
1,2-Dichloroethene, Total - DL	2900		200	81	ug/L	100		8260C	Total/NA
cis-1,2-Dichloroethene - DL	2900		100	81	ug/L	100		8260C	Total/NA
Tetrachloroethene - DL	5500		100	36	ug/L	100		8260C	Total/NA
Trichloroethene - DL	1800		100	46	ug/L	100		8260C	Total/NA

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-118206-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	0.37	J	1.0	0.36	ug/L	1		8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Client: Environmental Sampling & Services Inc
Project/Site: Buffalo Business Park

TestAmerica Job ID: 480-118206-1

Client Sample ID: MW 2-BR
Date Collected: 05/18/17 07:59
Date Received: 05/18/17 10:05

Lab Sample ID: 480-118206-1
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		40	33	ug/L			05/26/17 18:53	40
1,1,2,2-Tetrachloroethane	ND		40	8.4	ug/L			05/26/17 18:53	40
1,1,2-Trichloroethane	ND		40	9.2	ug/L			05/26/17 18:53	40
1,1,2-Trichlorotrifluoroethane	ND		40	12	ug/L			05/26/17 18:53	40
1,1-Dichloroethane	ND		40	15	ug/L			05/26/17 18:53	40
1,1-Dichloroethene	ND		40	12	ug/L			05/26/17 18:53	40
1,2,4-Trichlorobenzene	ND		40	16	ug/L			05/26/17 18:53	40
1,2-Dibromo-3-Chloropropane	ND		40	16	ug/L			05/26/17 18:53	40
1,2-Dibromoethane	ND		40	29	ug/L			05/26/17 18:53	40
1,2-Dichlorobenzene	ND		40	32	ug/L			05/26/17 18:53	40
1,2-Dichloroethane	ND		40	8.4	ug/L			05/26/17 18:53	40
1,2-Dichloroethene, Total	**1600**		80	32	ug/L			05/26/17 18:53	40
1,2-Dichloropropane	ND		40	29	ug/L			05/26/17 18:53	40
1,3-Dichlorobenzene	ND		40	31	ug/L			05/26/17 18:53	40
1,4-Dichlorobenzene	ND		40	34	ug/L			05/26/17 18:53	40
2-Butanone (MEK)	ND		400	53	ug/L			05/26/17 18:53	40
2-Hexanone	ND		200	50	ug/L			05/26/17 18:53	40
4-Methyl-2-pentanone (MIBK)	ND		200	84	ug/L			05/26/17 18:53	40
Acetone	ND		400	120	ug/L			05/26/17 18:53	40
Benzene	ND		40	16	ug/L			05/26/17 18:53	40
Bromodichloromethane	ND		40	16	ug/L			05/26/17 18:53	40
Bromoform	ND		40	10	ug/L			05/26/17 18:53	40
Bromomethane	ND		40	28	ug/L			05/26/17 18:53	40
Carbon disulfide	ND		40	7.6	ug/L			05/26/17 18:53	40
Carbon tetrachloride	ND		40	11	ug/L			05/26/17 18:53	40
Chlorobenzene	ND		40	30	ug/L			05/26/17 18:53	40
Chlorodibromomethane	ND		40	13	ug/L			05/26/17 18:53	40
Chloroethane	ND		40	13	ug/L			05/26/17 18:53	40
Chloroform	ND		40	14	ug/L			05/26/17 18:53	40
Chloromethane	ND		40	14	ug/L			05/26/17 18:53	40
cis-1,2-Dichloroethene	**1600**		40	32	ug/L			05/26/17 18:53	40
cis-1,3-Dichloropropene	ND		40	14	ug/L			05/26/17 18:53	40
Cyclohexane	ND		40	7.2	ug/L			05/26/17 18:53	40
Dichlorodifluoromethane	ND		40	27	ug/L			05/26/17 18:53	40
Ethylbenzene	ND		40	30	ug/L			05/26/17 18:53	40
Isopropylbenzene	ND		40	32	ug/L			05/26/17 18:53	40
Methyl acetate	ND		40	52	ug/L			05/26/17 18:53	40
Methyl tert-butyl ether	ND		40	6.4	ug/L			05/26/17 18:53	40
Methylcyclohexane	ND		40	6.4	ug/L			05/26/17 18:53	40
Methylene Chloride	ND		40	18	ug/L			05/26/17 18:53	40
Styrene	ND		40	29	ug/L			05/26/17 18:53	40
Tetrachloroethene	**42**		40	14	ug/L			05/26/17 18:53	40
Toluene	ND		40	20	ug/L			05/26/17 18:53	40
trans-1,2-Dichloroethene	ND		40	36	ug/L			05/26/17 18:53	40
trans-1,3-Dichloropropene	ND		40	15	ug/L			05/26/17 18:53	40
Trichloroethene	ND		40	18	ug/L			05/26/17 18:53	40
Trichlorofluoromethane	ND		40	35	ug/L			05/26/17 18:53	40
Vinyl acetate	ND		200	34	ug/L			05/26/17 18:53	40
Vinyl chloride	ND		40	36	ug/L			05/26/17 18:53	40

Client: Environmental Sampling & Services Inc
Project/Site: Buffalo Business Park

TestAmerica Job ID: 480-118206-1

Client Sample ID: MW 2-BR
Date Collected: 05/18/17 07:59
Date Received: 05/18/17 10:05

Lab Sample ID: 480-118206-1
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	ND		80	26	ug/L			05/26/17 18:53	40

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*77 - 120*		*05/26/17 18:53*	*40*
4-Bromofluorobenzene (Surr)	*96*		*73 - 120*		*05/26/17 18:53*	*40*
Toluene-d8 (Surr)	*92*		*80 - 120*		*05/26/17 18:53*	*40*

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	**7.63**				SU			05/18/17 07:59	1
Specific Conductance	**965**				umhos/cm			05/18/17 07:59	1
Temperature	**15.7**				Degrees C			05/18/17 07:59	1
Oxidation Reduction Potential	**-22.2**				millivolts			05/18/17 07:59	1
Turbidity	**3.06**				NTU			05/18/17 07:59	1
Water Depth	**26.55**				ft			05/18/17 07:59	1
Depth to Water from Top of Casing	**4.42**				ft			05/18/17 07:59	1

Client: Environmental Sampling & Services Inc
Project/Site: Buffalo Business Park

TestAmerica Job ID: 480-118206-1

Client Sample ID: MW 3-BR
Date Collected: 05/18/17 07:45
Date Received: 05/18/17 10:05

Lab Sample ID: 480-118206-2
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		100	82	ug/L			05/26/17 19:20	100
1,1,2,2-Tetrachloroethane	ND		100	21	ug/L			05/26/17 19:20	100
1,1,2-Trichloroethane	ND		100	23	ug/L			05/26/17 19:20	100
1,1,2-Trichlorotrifluoroethane	ND		100	31	ug/L			05/26/17 19:20	100
1,1-Dichloroethane	ND		100	38	ug/L			05/26/17 19:20	100
1,1-Dichloroethene	ND		100	29	ug/L			05/26/17 19:20	100
1,2,4-Trichlorobenzene	ND		100	41	ug/L			05/26/17 19:20	100
1,2-Dibromo-3-Chloropropane	ND		100	39	ug/L			05/26/17 19:20	100
1,2-Dibromoethane	ND		100	73	ug/L			05/26/17 19:20	100
1,2-Dichlorobenzene	ND		100	79	ug/L			05/26/17 19:20	100
1,2-Dichloroethane	ND		100	21	ug/L			05/26/17 19:20	100
1,2-Dichloroethene, Total	**2000**		200	81	ug/L			05/26/17 19:20	100
1,2-Dichloropropane	ND		100	72	ug/L			05/26/17 19:20	100
1,3-Dichlorobenzene	ND		100	78	ug/L			05/26/17 19:20	100
1,4-Dichlorobenzene	ND		100	84	ug/L			05/26/17 19:20	100
2-Butanone (MEK)	ND		1000	130	ug/L			05/26/17 19:20	100
2-Hexanone	ND		500	120	ug/L			05/26/17 19:20	100
4-Methyl-2-pentanone (MIBK)	ND		500	210	ug/L			05/26/17 19:20	100
Acetone	ND		1000	300	ug/L			05/26/17 19:20	100
Benzene	ND		100	41	ug/L			05/26/17 19:20	100
Bromodichloromethane	ND		100	39	ug/L			05/26/17 19:20	100
Bromoform	ND		100	26	ug/L			05/26/17 19:20	100
Bromomethane	ND		100	69	ug/L			05/26/17 19:20	100
Carbon disulfide	ND		100	19	ug/L			05/26/17 19:20	100
Carbon tetrachloride	ND		100	27	ug/L			05/26/17 19:20	100
Chlorobenzene	ND		100	75	ug/L			05/26/17 19:20	100
Chlorodibromomethane	ND		100	32	ug/L			05/26/17 19:20	100
Chloroethane	ND		100	32	ug/L			05/26/17 19:20	100
Chloroform	ND		100	34	ug/L			05/26/17 19:20	100
Chloromethane	ND		100	35	ug/L			05/26/17 19:20	100
cis-1,2-Dichloroethene	**2000**		100	81	ug/L			05/26/17 19:20	100
cis-1,3-Dichloropropene	ND		100	36	ug/L			05/26/17 19:20	100
Cyclohexane	ND		100	18	ug/L			05/26/17 19:20	100
Dichlorodifluoromethane	ND		100	68	ug/L			05/26/17 19:20	100
Ethylbenzene	ND		100	74	ug/L			05/26/17 19:20	100
Isopropylbenzene	ND		100	79	ug/L			05/26/17 19:20	100
Methyl acetate	ND		100	130	ug/L			05/26/17 19:20	100
Methyl tert-butyl ether	ND		100	16	ug/L			05/26/17 19:20	100
Methylcyclohexane	ND		100	16	ug/L			05/26/17 19:20	100
Methylene Chloride	ND		100	44	ug/L			05/26/17 19:20	100
Styrene	ND		100	73	ug/L			05/26/17 19:20	100
Tetrachloroethene	**11000**	**E**	100	36	ug/L			05/26/17 19:20	100
Toluene	ND		100	51	ug/L			05/26/17 19:20	100
trans-1,2-Dichloroethene	ND		100	90	ug/L			05/26/17 19:20	100
trans-1,3-Dichloropropene	ND		100	37	ug/L			05/26/17 19:20	100
Trichloroethene	**1600**		100	46	ug/L			05/26/17 19:20	100
Trichlorofluoromethane	ND		100	88	ug/L			05/26/17 19:20	100
Vinyl acetate	ND		500	85	ug/L			05/26/17 19:20	100
Vinyl chloride	ND		100	90	ug/L			05/26/17 19:20	100

Client: Environmental Sampling & Services Inc
Project/Site: Buffalo Business Park

TestAmerica Job ID: 480-118206-1

Client Sample ID: MW 3-BR
Date Collected: 05/18/17 07:45
Date Received: 05/18/17 10:05

Lab Sample ID: 480-118206-2
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	ND		200	66	ug/L			05/26/17 19:20	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*77 - 120*		*05/26/17 19:20*	*100*
4-Bromofluorobenzene (Surr)	*95*		*73 - 120*		*05/26/17 19:20*	*100*
Toluene-d8 (Surr)	*93*		*80 - 120*		*05/26/17 19:20*	*100*

Method: 8260C - Volatile Organic Compounds by GC/MS - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		200	160	ug/L			05/27/17 18:54	200
1,1,2,2-Tetrachloroethane	ND		200	42	ug/L			05/27/17 18:54	200
1,1,2-Trichloroethane	ND		200	46	ug/L			05/27/17 18:54	200
1,1,2-Trichlorotrifluoroethane	ND		200	62	ug/L			05/27/17 18:54	200
1,1-Dichloroethane	ND		200	76	ug/L			05/27/17 18:54	200
1,1-Dichloroethene	ND		200	58	ug/L			05/27/17 18:54	200
1,2,4-Trichlorobenzene	ND		200	82	ug/L			05/27/17 18:54	200
1,2-Dibromo-3-Chloropropane	ND		200	78	ug/L			05/27/17 18:54	200
1,2-Dibromoethane	ND		200	150	ug/L			05/27/17 18:54	200
1,2-Dichlorobenzene	ND		200	160	ug/L			05/27/17 18:54	200
1,2-Dichloroethane	ND		200	42	ug/L			05/27/17 18:54	200
1,2-Dichloroethene, Total	**1800**		400	160	ug/L			05/27/17 18:54	200
1,2-Dichloropropane	ND		200	140	ug/L			05/27/17 18:54	200
1,3-Dichlorobenzene	ND		200	160	ug/L			05/27/17 18:54	200
1,4-Dichlorobenzene	ND		200	170	ug/L			05/27/17 18:54	200
2-Butanone (MEK)	ND		2000	260	ug/L			05/27/17 18:54	200
2-Hexanone	ND		1000	250	ug/L			05/27/17 18:54	200
4-Methyl-2-pentanone (MIBK)	ND		1000	420	ug/L			05/27/17 18:54	200
Acetone	ND		2000	600	ug/L			05/27/17 18:54	200
Benzene	ND		200	82	ug/L			05/27/17 18:54	200
Bromodichloromethane	ND		200	78	ug/L			05/27/17 18:54	200
Bromoform	ND		200	52	ug/L			05/27/17 18:54	200
Bromomethane	ND		200	140	ug/L			05/27/17 18:54	200
Carbon disulfide	ND		200	38	ug/L			05/27/17 18:54	200
Carbon tetrachloride	ND		200	54	ug/L			05/27/17 18:54	200
Chlorobenzene	ND		200	150	ug/L			05/27/17 18:54	200
Chlorodibromomethane	ND		200	64	ug/L			05/27/17 18:54	200
Chloroethane	ND		200	64	ug/L			05/27/17 18:54	200
Chloroform	ND		200	68	ug/L			05/27/17 18:54	200
Chloromethane	ND		200	70	ug/L			05/27/17 18:54	200
cis-1,2-Dichloroethene	**1800**		200	160	ug/L			05/27/17 18:54	200
cis-1,3-Dichloropropene	ND		200	72	ug/L			05/27/17 18:54	200
Cyclohexane	ND		200	36	ug/L			05/27/17 18:54	200
Dichlorodifluoromethane	ND		200	140	ug/L			05/27/17 18:54	200
Ethylbenzene	ND		200	150	ug/L			05/27/17 18:54	200
Isopropylbenzene	ND		200	160	ug/L			05/27/17 18:54	200
Methyl acetate	ND		200	260	ug/L			05/27/17 18:54	200
Methyl tert-butyl ether	ND		200	32	ug/L			05/27/17 18:54	200
Methylcyclohexane	ND		200	32	ug/L			05/27/17 18:54	200
Methylene Chloride	ND		200	88	ug/L			05/27/17 18:54	200
Styrene	ND		200	150	ug/L			05/27/17 18:54	200

Client: Environmental Sampling & Services Inc
Project/Site: Buffalo Business Park

TestAmerica Job ID: 480-118206-1

Client Sample ID: MW 3-BR
Date Collected: 05/18/17 07:45
Date Received: 05/18/17 10:05

Lab Sample ID: 480-118206-2
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	**4300**		200	72	ug/L			05/27/17 18:54	200
Toluene	ND		200	100	ug/L			05/27/17 18:54	200
trans-1,2-Dichloroethene	ND		200	180	ug/L			05/27/17 18:54	200
trans-1,3-Dichloropropene	ND		200	74	ug/L			05/27/17 18:54	200
Trichloroethene	**1100**		200	92	ug/L			05/27/17 18:54	200
Trichlorofluoromethane	ND		200	180	ug/L			05/27/17 18:54	200
Vinyl acetate	ND		1000	170	ug/L			05/27/17 18:54	200
Vinyl chloride	ND		200	180	ug/L			05/27/17 18:54	200
Xylenes, Total	ND		400	130	ug/L			05/27/17 18:54	200

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*77 - 120*		*05/27/17 18:54*	*200*
4-Bromofluorobenzene (Surr)	*87*		*73 - 120*		*05/27/17 18:54*	*200*
Toluene-d8 (Surr)	*88*		*80 - 120*		*05/27/17 18:54*	*200*

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	**7.33**				SU			05/18/17 07:45	1
Specific Conductance	**1992**				umhos/cm			05/18/17 07:45	1
Temperature	**14.0**				Degrees C			05/18/17 07:45	1
Oxidation Reduction Potential	**-4.6**				millivolts			05/18/17 07:45	1
Turbidity	**14.80**				NTU			05/18/17 07:45	1
Water Depth	**28.60**				ft			05/18/17 07:45	1
Depth to Water from Top of Casing	**15.82**				ft			05/18/17 07:45	1

Client Sample ID: MW 4-BR

Date Collected: 05/18/17 07:30
Date Received: 05/18/17 10:05

Lab Sample ID: 480-118206-3

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		40	33	ug/L			05/27/17 17:43	40
1,1,2,2-Tetrachloroethane	ND		40	8.4	ug/L			05/27/17 17:43	40
1,1,2-Trichloroethane	ND		40	9.2	ug/L			05/27/17 17:43	40
1,1,2-Trichlorotrifluoroethane	ND		40	12	ug/L			05/27/17 17:43	40
1,1-Dichloroethane	ND		40	15	ug/L			05/27/17 17:43	40
1,1-Dichloroethene	**12**	**J**	40	12	ug/L			05/27/17 17:43	40
1,2,4-Trichlorobenzene	ND		40	16	ug/L			05/27/17 17:43	40
1,2-Dibromo-3-Chloropropane	ND		40	16	ug/L			05/27/17 17:43	40
1,2-Dibromoethane	ND		40	29	ug/L			05/27/17 17:43	40
1,2-Dichlorobenzene	ND		40	32	ug/L			05/27/17 17:43	40
1,2-Dichloroethane	ND		40	8.4	ug/L			05/27/17 17:43	40
1,2-Dichloroethene, Total	**3800**		80	32	ug/L			05/27/17 17:43	40
1,2-Dichloropropane	ND		40	29	ug/L			05/27/17 17:43	40
1,3-Dichlorobenzene	ND		40	31	ug/L			05/27/17 17:43	40
1,4-Dichlorobenzene	ND		40	34	ug/L			05/27/17 17:43	40
2-Butanone (MEK)	ND		400	53	ug/L			05/27/17 17:43	40
2-Hexanone	ND		200	50	ug/L			05/27/17 17:43	40
4-Methyl-2-pentanone (MIBK)	ND		200	84	ug/L			05/27/17 17:43	40
Acetone	ND		400	120	ug/L			05/27/17 17:43	40
Benzene	ND		40	16	ug/L			05/27/17 17:43	40
Bromodichloromethane	ND		40	16	ug/L			05/27/17 17:43	40
Bromoform	ND		40	10	ug/L			05/27/17 17:43	40
Bromomethane	ND		40	28	ug/L			05/27/17 17:43	40
Carbon disulfide	ND		40	7.6	ug/L			05/27/17 17:43	40
Carbon tetrachloride	ND		40	11	ug/L			05/27/17 17:43	40
Chlorobenzene	ND		40	30	ug/L			05/27/17 17:43	40
Chlorodibromomethane	ND		40	13	ug/L			05/27/17 17:43	40
Chloroethane	ND		40	13	ug/L			05/27/17 17:43	40
Chloroform	ND		40	14	ug/L			05/27/17 17:43	40
Chloromethane	ND		40	14	ug/L			05/27/17 17:43	40
cis-1,2-Dichloroethene	**3700**		40	32	ug/L			05/27/17 17:43	40
cis-1,3-Dichloropropene	ND		40	14	ug/L			05/27/17 17:43	40
Cyclohexane	ND		40	7.2	ug/L			05/27/17 17:43	40
Dichlorodifluoromethane	ND		40	27	ug/L			05/27/17 17:43	40
Ethylbenzene	ND		40	30	ug/L			05/27/17 17:43	40
Isopropylbenzene	ND		40	32	ug/L			05/27/17 17:43	40
Methyl acetate	ND		40	52	ug/L			05/27/17 17:43	40
Methyl tert-butyl ether	ND		40	6.4	ug/L			05/27/17 17:43	40
Methylcyclohexane	ND		40	6.4	ug/L			05/27/17 17:43	40
Methylene Chloride	ND		40	18	ug/L			05/27/17 17:43	40
Styrene	ND		40	29	ug/L			05/27/17 17:43	40
Tetrachloroethene	**7500**	**E**	40	14	ug/L			05/27/17 17:43	40
Toluene	ND		40	20	ug/L			05/27/17 17:43	40
trans-1,2-Dichloroethene	**56**		40	36	ug/L			05/27/17 17:43	40
trans-1,3-Dichloropropene	ND		40	15	ug/L			05/27/17 17:43	40
Trichloroethene	**2300**		40	18	ug/L			05/27/17 17:43	40
Trichlorofluoromethane	ND		40	35	ug/L			05/27/17 17:43	40
Vinyl acetate	ND		200	34	ug/L			05/27/17 17:43	40
Vinyl chloride	ND		40	36	ug/L			05/27/17 17:43	40

Client: Environmental Sampling & Services Inc
Project/Site: Buffalo Business Park

TestAmerica Job ID: 480-118206-1

Client Sample ID: MW 4-BR
Date Collected: 05/18/17 07:30
Date Received: 05/18/17 10:05

Lab Sample ID: 480-118206-3
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	ND		80	26	ug/L			05/27/17 17:43	40

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*112*		*77 - 120*		*05/27/17 17:43*	*40*
4-Bromofluorobenzene (Surr)	*109*		*73 - 120*		*05/27/17 17:43*	*40*
Toluene-d8 (Surr)	*101*		*80 - 120*		*05/27/17 17:43*	*40*

Method: 8260C - Volatile Organic Compounds by GC/MS - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		100	82	ug/L			05/27/17 22:05	100
1,1,2,2-Tetrachloroethane	ND		100	21	ug/L			05/27/17 22:05	100
1,1,2-Trichloroethane	ND		100	23	ug/L			05/27/17 22:05	100
1,1,2-Trichlorotrifluoroethane	ND		100	31	ug/L			05/27/17 22:05	100
1,1-Dichloroethane	ND		100	38	ug/L			05/27/17 22:05	100
1,1-Dichloroethene	ND		100	29	ug/L			05/27/17 22:05	100
1,2,4-Trichlorobenzene	ND		100	41	ug/L			05/27/17 22:05	100
1,2-Dibromo-3-Chloropropane	ND		100	39	ug/L			05/27/17 22:05	100
1,2-Dibromoethane	ND		100	73	ug/L			05/27/17 22:05	100
1,2-Dichlorobenzene	ND		100	79	ug/L			05/27/17 22:05	100
1,2-Dichloroethane	ND		100	21	ug/L			05/27/17 22:05	100
1,2-Dichloroethene, Total	**3300**		200	81	ug/L			05/27/17 22:05	100
1,2-Dichloropropane	ND		100	72	ug/L			05/27/17 22:05	100
1,3-Dichlorobenzene	ND		100	78	ug/L			05/27/17 22:05	100
1,4-Dichlorobenzene	ND		100	84	ug/L			05/27/17 22:05	100
2-Butanone (MEK)	ND		1000	130	ug/L			05/27/17 22:05	100
2-Hexanone	ND		500	120	ug/L			05/27/17 22:05	100
4-Methyl-2-pentanone (MIBK)	ND		500	210	ug/L			05/27/17 22:05	100
Acetone	ND		1000	300	ug/L			05/27/17 22:05	100
Benzene	ND		100	41	ug/L			05/27/17 22:05	100
Bromodichloromethane	ND		100	39	ug/L			05/27/17 22:05	100
Bromoform	ND		100	26	ug/L			05/27/17 22:05	100
Bromomethane	ND		100	69	ug/L			05/27/17 22:05	100
Carbon disulfide	ND		100	19	ug/L			05/27/17 22:05	100
Carbon tetrachloride	ND		100	27	ug/L			05/27/17 22:05	100
Chlorobenzene	ND		100	75	ug/L			05/27/17 22:05	100
Chlorodibromomethane	ND		100	32	ug/L			05/27/17 22:05	100
Chloroethane	ND		100	32	ug/L			05/27/17 22:05	100
Chloroform	ND		100	34	ug/L			05/27/17 22:05	100
Chloromethane	ND		100	35	ug/L			05/27/17 22:05	100
cis-1,2-Dichloroethene	**3300**		100	81	ug/L			05/27/17 22:05	100
cis-1,3-Dichloropropene	ND		100	36	ug/L			05/27/17 22:05	100
Cyclohexane	ND		100	18	ug/L			05/27/17 22:05	100
Dichlorodifluoromethane	ND		100	68	ug/L			05/27/17 22:05	100
Ethylbenzene	ND		100	74	ug/L			05/27/17 22:05	100
Isopropylbenzene	ND		100	79	ug/L			05/27/17 22:05	100
Methyl acetate	ND		100	130	ug/L			05/27/17 22:05	100
Methyl tert-butyl ether	ND		100	16	ug/L			05/27/17 22:05	100
Methylcyclohexane	ND		100	16	ug/L			05/27/17 22:05	100
Methylene Chloride	ND		100	44	ug/L			05/27/17 22:05	100
Styrene	ND		100	73	ug/L			05/27/17 22:05	100

Client Sample ID: MW 4-BR
Date Collected: 05/18/17 07:30
Date Received: 05/18/17 10:05

Lab Sample ID: 480-118206-3
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	**7100**		100	36	ug/L			05/27/17 22:05	100
Toluene	ND		100	51	ug/L			05/27/17 22:05	100
trans-1,2-Dichloroethene	ND		100	90	ug/L			05/27/17 22:05	100
trans-1,3-Dichloropropene	ND		100	37	ug/L			05/27/17 22:05	100
Trichloroethene	**2200**		100	46	ug/L			05/27/17 22:05	100
Trichlorofluoromethane	ND		100	88	ug/L			05/27/17 22:05	100
Vinyl acetate	ND		500	85	ug/L			05/27/17 22:05	100
Vinyl chloride	ND		100	90	ug/L			05/27/17 22:05	100
Xylenes, Total	ND		200	66	ug/L			05/27/17 22:05	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*77 - 120*		*05/27/17 22:05*	*100*
4-Bromofluorobenzene (Surr)	*107*		*73 - 120*		*05/27/17 22:05*	*100*
Toluene-d8 (Surr)	*98*		*80 - 120*		*05/27/17 22:05*	*100*

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	**7.13**				SU			05/18/17 07:30	1
Specific Conductance	**1135**				umhos/cm			05/18/17 07:30	1
Temperature	**15.8**				Degrees C			05/18/17 07:30	1
Oxidation Reduction Potential	**5.8**				millivolts			05/18/17 07:30	1
Turbidity	**3.78**				NTU			05/18/17 07:30	1
Water Depth	**27.75**				ft			05/18/17 07:30	1
Depth to Water from Top of Casing	**24.05**				ft			05/18/17 07:30	1

Client: Environmental Sampling & Services Inc
Project/Site: Buffalo Business Park

TestAmerica Job ID: 480-118206-1

Client Sample ID: MW 5-BR
Date Collected: 05/18/17 08:15
Date Received: 05/18/17 10:05

Lab Sample ID: 480-118206-4
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		80	66	ug/L			05/27/17 18:06	80
1,1,2,2-Tetrachloroethane	ND		80	17	ug/L			05/27/17 18:06	80
1,1,2-Trichloroethane	ND		80	18	ug/L			05/27/17 18:06	80
1,1,2-Trichlorotrifluoroethane	ND		80	25	ug/L			05/27/17 18:06	80
1,1-Dichloroethane	ND		80	30	ug/L			05/27/17 18:06	80
1,1-Dichloroethene	ND		80	23	ug/L			05/27/17 18:06	80
1,2,4-Trichlorobenzene	ND		80	33	ug/L			05/27/17 18:06	80
1,2-Dibromo-3-Chloropropane	ND		80	31	ug/L			05/27/17 18:06	80
1,2-Dibromoethane	ND		80	58	ug/L			05/27/17 18:06	80
1,2-Dichlorobenzene	ND		80	63	ug/L			05/27/17 18:06	80
1,2-Dichloroethane	ND		80	17	ug/L			05/27/17 18:06	80
1,2-Dichloroethene, Total	**6300**		160	65	ug/L			05/27/17 18:06	80
1,2-Dichloropropane	ND		80	58	ug/L			05/27/17 18:06	80
1,3-Dichlorobenzene	ND		80	62	ug/L			05/27/17 18:06	80
1,4-Dichlorobenzene	ND		80	67	ug/L			05/27/17 18:06	80
2-Butanone (MEK)	ND		800	110	ug/L			05/27/17 18:06	80
2-Hexanone	ND		400	99	ug/L			05/27/17 18:06	80
4-Methyl-2-pentanone (MIBK)	ND		400	170	ug/L			05/27/17 18:06	80
Acetone	ND		800	240	ug/L			05/27/17 18:06	80
Benzene	ND		80	33	ug/L			05/27/17 18:06	80
Bromodichloromethane	ND		80	31	ug/L			05/27/17 18:06	80
Bromoform	ND		80	21	ug/L			05/27/17 18:06	80
Bromomethane	ND		80	55	ug/L			05/27/17 18:06	80
Carbon disulfide	ND		80	15	ug/L			05/27/17 18:06	80
Carbon tetrachloride	ND		80	22	ug/L			05/27/17 18:06	80
Chlorobenzene	ND		80	60	ug/L			05/27/17 18:06	80
Chlorodibromomethane	ND		80	26	ug/L			05/27/17 18:06	80
Chloroethane	ND		80	26	ug/L			05/27/17 18:06	80
Chloroform	ND		80	27	ug/L			05/27/17 18:06	80
Chloromethane	ND		80	28	ug/L			05/27/17 18:06	80
cis-1,2-Dichloroethene	**6300**	**F1**	80	65	ug/L			05/27/17 18:06	80
cis-1,3-Dichloropropene	ND		80	29	ug/L			05/27/17 18:06	80
Cyclohexane	ND		80	14	ug/L			05/27/17 18:06	80
Dichlorodifluoromethane	ND		80	54	ug/L			05/27/17 18:06	80
Ethylbenzene	ND		80	59	ug/L			05/27/17 18:06	80
Isopropylbenzene	ND		80	63	ug/L			05/27/17 18:06	80
Methyl acetate	ND		80	100	ug/L			05/27/17 18:06	80
Methyl tert-butyl ether	ND		80	13	ug/L			05/27/17 18:06	80
Methylcyclohexane	ND		80	13	ug/L			05/27/17 18:06	80
Methylene Chloride	ND		80	35	ug/L			05/27/17 18:06	80
Styrene	ND		80	58	ug/L			05/27/17 18:06	80
Tetrachloroethene	ND		80	29	ug/L			05/27/17 18:06	80
Toluene	ND		80	41	ug/L			05/27/17 18:06	80
trans-1,2-Dichloroethene	ND		80	72	ug/L			05/27/17 18:06	80
trans-1,3-Dichloropropene	ND		80	30	ug/L			05/27/17 18:06	80
Trichloroethene	**190**		80	37	ug/L			05/27/17 18:06	80
Trichlorofluoromethane	ND		80	70	ug/L			05/27/17 18:06	80
Vinyl acetate	ND		400	68	ug/L			05/27/17 18:06	80
Vinyl chloride	**130**		80	72	ug/L			05/27/17 18:06	80

Client: Environmental Sampling & Services Inc
Project/Site: Buffalo Business Park

TestAmerica Job ID: 480-118206-1

Client Sample ID: MW 5-BR
Date Collected: 05/18/17 08:15
Date Received: 05/18/17 10:05

Lab Sample ID: 480-118206-4
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	ND		160	53	ug/L			05/27/17 18:06	80

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*113*		*77 - 120*		*05/27/17 18:06*	*80*
4-Bromofluorobenzene (Surr)	*106*		*73 - 120*		*05/27/17 18:06*	*80*
Toluene-d8 (Surr)	*98*		*80 - 120*		*05/27/17 18:06*	*80*

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	**7.10**				SU			05/18/17 08:15	1
Specific Conductance	**2260**				umhos/cm			05/18/17 08:15	1
Temperature	**14.6**				Degrees C			05/18/17 08:15	1
Oxidation Reduction Potential	**6.7**				millivolts			05/18/17 08:15	1
Turbidity	**4.18**				NTU			05/18/17 08:15	1
Water Depth	**26.70**				ft			05/18/17 08:15	1
Depth to Water from Top of Casing	**13.61**				ft			05/18/17 08:15	1

Client: Environmental Sampling & Services Inc
Project/Site: Buffalo Business Park

TestAmerica Job ID: 480-118206-1

Client Sample ID: MW 5A-BR
Date Collected: 05/18/17 07:18
Date Received: 05/18/17 10:05

Lab Sample ID: 480-118206-5
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		100	82	ug/L			05/27/17 12:32	100
1,1,2,2-Tetrachloroethane	ND		100	21	ug/L			05/27/17 12:32	100
1,1,2-Trichloroethane	ND		100	23	ug/L			05/27/17 12:32	100
1,1,2-Trichlorotrifluoroethane	ND		100	31	ug/L			05/27/17 12:32	100
1,1-Dichloroethane	ND		100	38	ug/L			05/27/17 12:32	100
1,1-Dichloroethene	ND		100	29	ug/L			05/27/17 12:32	100
1,2,4-Trichlorobenzene	ND		100	41	ug/L			05/27/17 12:32	100
1,2-Dibromo-3-Chloropropane	ND		100	39	ug/L			05/27/17 12:32	100
1,2-Dibromoethane	ND		100	73	ug/L			05/27/17 12:32	100
1,2-Dichlorobenzene	ND		100	79	ug/L			05/27/17 12:32	100
1,2-Dichloroethane	ND		100	21	ug/L			05/27/17 12:32	100
1,2-Dichloroethene, Total	**5100**		200	81	ug/L			05/27/17 12:32	100
1,2-Dichloropropane	ND		100	72	ug/L			05/27/17 12:32	100
1,3-Dichlorobenzene	ND		100	78	ug/L			05/27/17 12:32	100
1,4-Dichlorobenzene	ND		100	84	ug/L			05/27/17 12:32	100
2-Butanone (MEK)	ND		1000	130	ug/L			05/27/17 12:32	100
2-Hexanone	ND		500	120	ug/L			05/27/17 12:32	100
4-Methyl-2-pentanone (MIBK)	ND		500	210	ug/L			05/27/17 12:32	100
Acetone	ND		1000	300	ug/L			05/27/17 12:32	100
Benzene	ND		100	41	ug/L			05/27/17 12:32	100
Bromodichloromethane	ND		100	39	ug/L			05/27/17 12:32	100
Bromoform	ND		100	26	ug/L			05/27/17 12:32	100
Bromomethane	ND		100	69	ug/L			05/27/17 12:32	100
Carbon disulfide	ND		100	19	ug/L			05/27/17 12:32	100
Carbon tetrachloride	ND		100	27	ug/L			05/27/17 12:32	100
Chlorobenzene	ND		100	75	ug/L			05/27/17 12:32	100
Chlorodibromomethane	ND		100	32	ug/L			05/27/17 12:32	100
Chloroethane	ND		100	32	ug/L			05/27/17 12:32	100
Chloroform	ND		100	34	ug/L			05/27/17 12:32	100
Chloromethane	ND		100	35	ug/L			05/27/17 12:32	100
cis-1,2-Dichloroethene	**5100**		100	81	ug/L			05/27/17 12:32	100
cis-1,3-Dichloropropene	ND		100	36	ug/L			05/27/17 12:32	100
Cyclohexane	ND		100	18	ug/L			05/27/17 12:32	100
Dichlorodifluoromethane	ND		100	68	ug/L			05/27/17 12:32	100
Ethylbenzene	ND		100	74	ug/L			05/27/17 12:32	100
Isopropylbenzene	ND		100	79	ug/L			05/27/17 12:32	100
Methyl acetate	ND		100	130	ug/L			05/27/17 12:32	100
Methyl tert-butyl ether	ND		100	16	ug/L			05/27/17 12:32	100
Methylcyclohexane	ND		100	16	ug/L			05/27/17 12:32	100
Methylene Chloride	ND		100	44	ug/L			05/27/17 12:32	100
Styrene	ND		100	73	ug/L			05/27/17 12:32	100
Tetrachloroethene	**180**		100	36	ug/L			05/27/17 12:32	100
Toluene	ND		100	51	ug/L			05/27/17 12:32	100
trans-1,2-Dichloroethene	ND		100	90	ug/L			05/27/17 12:32	100
trans-1,3-Dichloropropene	ND		100	37	ug/L			05/27/17 12:32	100
Trichloroethene	**1400**		100	46	ug/L			05/27/17 12:32	100
Trichlorofluoromethane	ND		100	88	ug/L			05/27/17 12:32	100
Vinyl acetate	ND		500	85	ug/L			05/27/17 12:32	100
Vinyl chloride	ND		100	90	ug/L			05/27/17 12:32	100

Client: Environmental Sampling & Services Inc
Project/Site: Buffalo Business Park

TestAmerica Job ID: 480-118206-1

Client Sample ID: MW 5A-BR
Date Collected: 05/18/17 07:18
Date Received: 05/18/17 10:05

Lab Sample ID: 480-118206-5
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	ND		200	66	ug/L			05/27/17 12:32	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*84*		*77 - 120*		*05/27/17 12:32*	*100*
4-Bromofluorobenzene (Surr)	*100*		*73 - 120*		*05/27/17 12:32*	*100*
Toluene-d8 (Surr)	*92*		*80 - 120*		*05/27/17 12:32*	*100*

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	**7.12**				SU			05/18/17 07:18	1
Specific Conductance	**4010**				umhos/cm			05/18/17 07:18	1
Temperature	**15.2**				Degrees C			05/18/17 07:18	1
Oxidation Reduction Potential	**6.1**				millivolts			05/18/17 07:18	1
Turbidity	**22.10**				NTU			05/18/17 07:18	1
Water Depth	**25.40**				ft			05/18/17 07:18	1
Depth to Water from Top of Casing	**19.50**				ft			05/18/17 07:18	1

Client Sample ID: DUP@MW 4-BR

Date Collected: 05/18/17 07:31
Date Received: 05/18/17 10:05

Lab Sample ID: 480-118206-6

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		40	33	ug/L			05/28/17 07:47	40
1,1,2,2-Tetrachloroethane	ND		40	8.4	ug/L			05/28/17 07:47	40
1,1,2-Trichloroethane	ND		40	9.2	ug/L			05/28/17 07:47	40
1,1,2-Trichlorotrifluoroethane	ND		40	12	ug/L			05/28/17 07:47	40
1,1-Dichloroethane	ND		40	15	ug/L			05/28/17 07:47	40
1,1-Dichloroethene	**14**	**J**	40	12	ug/L			05/28/17 07:47	40
1,2,4-Trichlorobenzene	ND		40	16	ug/L			05/28/17 07:47	40
1,2-Dibromo-3-Chloropropane	ND		40	16	ug/L			05/28/17 07:47	40
1,2-Dibromoethane	ND		40	29	ug/L			05/28/17 07:47	40
1,2-Dichlorobenzene	ND		40	32	ug/L			05/28/17 07:47	40
1,2-Dichloroethane	ND		40	8.4	ug/L			05/28/17 07:47	40
1,2-Dichloroethene, Total	**3500**		80	32	ug/L			05/28/17 07:47	40
1,2-Dichloropropane	ND		40	29	ug/L			05/28/17 07:47	40
1,3-Dichlorobenzene	ND		40	31	ug/L			05/28/17 07:47	40
1,4-Dichlorobenzene	ND		40	34	ug/L			05/28/17 07:47	40
2-Butanone (MEK)	ND		400	53	ug/L			05/28/17 07:47	40
2-Hexanone	ND		200	50	ug/L			05/28/17 07:47	40
4-Methyl-2-pentanone (MIBK)	ND		200	84	ug/L			05/28/17 07:47	40
Acetone	ND		400	120	ug/L			05/28/17 07:47	40
Benzene	ND		40	16	ug/L			05/28/17 07:47	40
Bromodichloromethane	ND		40	16	ug/L			05/28/17 07:47	40
Bromoform	ND		40	10	ug/L			05/28/17 07:47	40
Bromomethane	ND		40	28	ug/L			05/28/17 07:47	40
Carbon disulfide	ND		40	7.6	ug/L			05/28/17 07:47	40
Carbon tetrachloride	ND		40	11	ug/L			05/28/17 07:47	40
Chlorobenzene	ND		40	30	ug/L			05/28/17 07:47	40
Chlorodibromomethane	ND		40	13	ug/L			05/28/17 07:47	40
Chloroethane	ND		40	13	ug/L			05/28/17 07:47	40
Chloroform	ND		40	14	ug/L			05/28/17 07:47	40
Chloromethane	ND		40	14	ug/L			05/28/17 07:47	40
cis-1,2-Dichloroethene	**3500**		40	32	ug/L			05/28/17 07:47	40
cis-1,3-Dichloropropene	ND		40	14	ug/L			05/28/17 07:47	40
Cyclohexane	ND		40	7.2	ug/L			05/28/17 07:47	40
Dichlorodifluoromethane	ND	*	40	27	ug/L			05/28/17 07:47	40
Ethylbenzene	ND		40	30	ug/L			05/28/17 07:47	40
Isopropylbenzene	ND		40	32	ug/L			05/28/17 07:47	40
Methyl acetate	ND		40	52	ug/L			05/28/17 07:47	40
Methyl tert-butyl ether	ND		40	6.4	ug/L			05/28/17 07:47	40
Methylcyclohexane	ND		40	6.4	ug/L			05/28/17 07:47	40
Methylene Chloride	ND		40	18	ug/L			05/28/17 07:47	40
Styrene	ND		40	29	ug/L			05/28/17 07:47	40
Tetrachloroethene	**6200**	**E**	40	14	ug/L			05/28/17 07:47	40
Toluene	ND		40	20	ug/L			05/28/17 07:47	40
trans-1,2-Dichloroethene	**41**		40	36	ug/L			05/28/17 07:47	40
trans-1,3-Dichloropropene	ND		40	15	ug/L			05/28/17 07:47	40
Trichloroethene	**2100**		40	18	ug/L			05/28/17 07:47	40
Trichlorofluoromethane	ND		40	35	ug/L			05/28/17 07:47	40
Vinyl acetate	ND		200	34	ug/L			05/28/17 07:47	40
Vinyl chloride	ND		40	36	ug/L			05/28/17 07:47	40

Client Sample ID: DUP@MW 4-BR

Date Collected: 05/18/17 07:31
Date Received: 05/18/17 10:05

Lab Sample ID: 480-118206-6

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	ND		80	26	ug/L			05/28/17 07:47	40

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*87*		*77 - 120*		*05/28/17 07:47*	*40*
4-Bromofluorobenzene (Surr)	*85*		*73 - 120*		*05/28/17 07:47*	*40*
Toluene-d8 (Surr)	*83*		*80 - 120*		*05/28/17 07:47*	*40*

Method: 8260C - Volatile Organic Compounds by GC/MS - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		100	82	ug/L			05/28/17 19:02	100
1,1,2,2-Tetrachloroethane	ND		100	21	ug/L			05/28/17 19:02	100
1,1,2-Trichloroethane	ND		100	23	ug/L			05/28/17 19:02	100
1,1,2-Trichlorotrifluoroethane	ND		100	31	ug/L			05/28/17 19:02	100
1,1-Dichloroethane	ND		100	38	ug/L			05/28/17 19:02	100
1,1-Dichloroethene	ND		100	29	ug/L			05/28/17 19:02	100
1,2,4-Trichlorobenzene	ND		100	41	ug/L			05/28/17 19:02	100
1,2-Dibromo-3-Chloropropane	ND		100	39	ug/L			05/28/17 19:02	100
1,2-Dibromoethane	ND		100	73	ug/L			05/28/17 19:02	100
1,2-Dichlorobenzene	ND		100	79	ug/L			05/28/17 19:02	100
1,2-Dichloroethane	ND		100	21	ug/L			05/28/17 19:02	100
1,2-Dichloroethene, Total	**2900**		200	81	ug/L			05/28/17 19:02	100
1,2-Dichloropropane	ND		100	72	ug/L			05/28/17 19:02	100
1,3-Dichlorobenzene	ND		100	78	ug/L			05/28/17 19:02	100
1,4-Dichlorobenzene	ND		100	84	ug/L			05/28/17 19:02	100
2-Butanone (MEK)	ND		1000	130	ug/L			05/28/17 19:02	100
2-Hexanone	ND		500	120	ug/L			05/28/17 19:02	100
4-Methyl-2-pentanone (MIBK)	ND		500	210	ug/L			05/28/17 19:02	100
Acetone	ND		1000	300	ug/L			05/28/17 19:02	100
Benzene	ND		100	41	ug/L			05/28/17 19:02	100
Bromodichloromethane	ND		100	39	ug/L			05/28/17 19:02	100
Bromoform	ND		100	26	ug/L			05/28/17 19:02	100
Bromomethane	ND		100	69	ug/L			05/28/17 19:02	100
Carbon disulfide	ND		100	19	ug/L			05/28/17 19:02	100
Carbon tetrachloride	ND		100	27	ug/L			05/28/17 19:02	100
Chlorobenzene	ND		100	75	ug/L			05/28/17 19:02	100
Chlorodibromomethane	ND		100	32	ug/L			05/28/17 19:02	100
Chloroethane	ND		100	32	ug/L			05/28/17 19:02	100
Chloroform	ND		100	34	ug/L			05/28/17 19:02	100
Chloromethane	ND		100	35	ug/L			05/28/17 19:02	100
cis-1,2-Dichloroethene	**2900**		100	81	ug/L			05/28/17 19:02	100
cis-1,3-Dichloropropene	ND		100	36	ug/L			05/28/17 19:02	100
Cyclohexane	ND		100	18	ug/L			05/28/17 19:02	100
Dichlorodifluoromethane	ND		100	68	ug/L			05/28/17 19:02	100
Ethylbenzene	ND		100	74	ug/L			05/28/17 19:02	100
Isopropylbenzene	ND		100	79	ug/L			05/28/17 19:02	100
Methyl acetate	ND		100	130	ug/L			05/28/17 19:02	100
Methyl tert-butyl ether	ND		100	16	ug/L			05/28/17 19:02	100
Methylcyclohexane	ND		100	16	ug/L			05/28/17 19:02	100
Methylene Chloride	ND		100	44	ug/L			05/28/17 19:02	100
Styrene	ND		100	73	ug/L			05/28/17 19:02	100

Client: Environmental Sampling & Services Inc
Project/Site: Buffalo Business Park

TestAmerica Job ID: 480-118206-1

Client Sample ID: DUP@MW 4-BR
Date Collected: 05/18/17 07:31
Date Received: 05/18/17 10:05

Lab Sample ID: 480-118206-6
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	**5500**		100	36	ug/L			05/28/17 19:02	100
Toluene	ND		100	51	ug/L			05/28/17 19:02	100
trans-1,2-Dichloroethene	ND		100	90	ug/L			05/28/17 19:02	100
trans-1,3-Dichloropropene	ND	F1	100	37	ug/L			05/28/17 19:02	100
Trichloroethene	**1800**		100	46	ug/L			05/28/17 19:02	100
Trichlorofluoromethane	ND		100	88	ug/L			05/28/17 19:02	100
Vinyl acetate	ND		500	85	ug/L			05/28/17 19:02	100
Vinyl chloride	ND		100	90	ug/L			05/28/17 19:02	100
Xylenes, Total	ND		200	66	ug/L			05/28/17 19:02	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*77 - 120*		*05/28/17 19:02*	*100*
4-Bromofluorobenzene (Surr)	*93*		*73 - 120*		*05/28/17 19:02*	*100*
Toluene-d8 (Surr)	*93*		*80 - 120*		*05/28/17 19:02*	*100*

Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	**7.13**				SU			05/18/17 07:31	1
Specific Conductance	**1135**				umhos/cm			05/18/17 07:31	1
Temperature	**15.8**				Degrees C			05/18/17 07:31	1
Oxidation Reduction Potential	**5.8**				millivolts			05/18/17 07:31	1
Turbidity	**3.78**				NTU			05/18/17 07:31	1
Water Depth	**27.75**				ft			05/18/17 07:31	1
Depth to Water from Top of Casing	**24.05**				ft			05/18/17 07:31	1

Client Sample ID: TRIP BLANK

Date Collected: 05/18/17 07:15
Date Received: 05/18/17 10:05

Lab Sample ID: 480-118206-7

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			05/26/17 19:47	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			05/26/17 19:47	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			05/26/17 19:47	1
1,1,2-Trichlorotrifluoroethane	ND		1.0	0.31	ug/L			05/26/17 19:47	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			05/26/17 19:47	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			05/26/17 19:47	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			05/26/17 19:47	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			05/26/17 19:47	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			05/26/17 19:47	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			05/26/17 19:47	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			05/26/17 19:47	1
1,2-Dichloroethene, Total	ND		2.0	0.81	ug/L			05/26/17 19:47	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			05/26/17 19:47	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			05/26/17 19:47	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			05/26/17 19:47	1
2-Butanone (MEK)	ND		10	1.3	ug/L			05/26/17 19:47	1
2-Hexanone	ND		5.0	1.2	ug/L			05/26/17 19:47	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			05/26/17 19:47	1
Acetone	ND		10	3.0	ug/L			05/26/17 19:47	1
Benzene	ND		1.0	0.41	ug/L			05/26/17 19:47	1
Bromodichloromethane	ND		1.0	0.39	ug/L			05/26/17 19:47	1
Bromoform	ND		1.0	0.26	ug/L			05/26/17 19:47	1
Bromomethane	ND		1.0	0.69	ug/L			05/26/17 19:47	1
Carbon disulfide	ND		1.0	0.19	ug/L			05/26/17 19:47	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			05/26/17 19:47	1
Chlorobenzene	ND		1.0	0.75	ug/L			05/26/17 19:47	1
Chlorodibromomethane	ND		1.0	0.32	ug/L			05/26/17 19:47	1
Chloroethane	ND		1.0	0.32	ug/L			05/26/17 19:47	1
Chloroform	ND		1.0	0.34	ug/L			05/26/17 19:47	1
Chloromethane	ND		1.0	0.35	ug/L			05/26/17 19:47	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			05/26/17 19:47	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			05/26/17 19:47	1
Cyclohexane	ND		1.0	0.18	ug/L			05/26/17 19:47	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			05/26/17 19:47	1
Ethylbenzene	ND		1.0	0.74	ug/L			05/26/17 19:47	1
Isopropylbenzene	ND		1.0	0.79	ug/L			05/26/17 19:47	1
Methyl acetate	ND		1.0	1.3	ug/L			05/26/17 19:47	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			05/26/17 19:47	1
Methylcyclohexane	ND		1.0	0.16	ug/L			05/26/17 19:47	1
Methylene Chloride	ND		1.0	0.44	ug/L			05/26/17 19:47	1
Styrene	ND		1.0	0.73	ug/L			05/26/17 19:47	1
Tetrachloroethene	**0.37**	**J**	1.0	0.36	ug/L			05/26/17 19:47	1
Toluene	ND		1.0	0.51	ug/L			05/26/17 19:47	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			05/26/17 19:47	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			05/26/17 19:47	1
Trichloroethene	ND		1.0	0.46	ug/L			05/26/17 19:47	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			05/26/17 19:47	1
Vinyl acetate	ND		5.0	0.85	ug/L			05/26/17 19:47	1
Vinyl chloride	ND		1.0	0.90	ug/L			05/26/17 19:47	1

Client: Environmental Sampling & Services Inc
Project/Site: Buffalo Business Park

TestAmerica Job ID: 480-118206-1

Client Sample ID: TRIP BLANK
Date Collected: 05/18/17 07:15
Date Received: 05/18/17 10:05

Lab Sample ID: 480-118206-7
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	ND		2.0	0.66	ug/L			05/26/17 19:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*77 - 120*		*05/26/17 19:47*	*1*
4-Bromofluorobenzene (Surr)	*88*		*73 - 120*		*05/26/17 19:47*	*1*
Toluene-d8 (Surr)	*88*		*80 - 120*		*05/26/17 19:47*	*1*

Surrogate Summary

Client: Environmental Sampling & Services Inc
Project/Site: Buffalo Business Park

TestAmerica Job ID: 480-118206-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)		
		12DCE	BFB	TOL
Lab Sample ID	Client Sample ID	(77-120)	(73-120)	(80-120)
480-118206-1	MW 2-BR	106	96	92
480-118206-2	MW 3-BR	104	95	93
480-118206-2 - DL	MW 3-BR	102	87	88
480-118206-3	MW 4-BR	112	109	101
480-118206-3 - DL	MW 4-BR	108	107	98
480-118206-4	MW 5-BR	113	106	98
480-118206-4 MS	MW 5-BR	109	114	101
480-118206-4 MSD	MW 5-BR	113	107	99
480-118206-5	MW 5A-BR	84	100	92
480-118206-6	DUP@MW 4-BR	87	85	83
480-118206-6 - DL	DUP@MW 4-BR	99	93	93
480-118206-6 MS	DUP@MW 4-BR	93	88	89
480-118206-6 MSD	DUP@MW 4-BR	93	87	89
480-118206-7	TRIP BLANK	107	88	88
LCS 480-359274/4	Lab Control Sample	94	90	88
LCS 480-359421/4	Lab Control Sample	105	103	101
LCS 480-359427/4	Lab Control Sample	113	110	103
LCS 480-359429/4	Lab Control Sample	84	100	93
LCS 480-359479/27	Lab Control Sample	94	89	90
LCS 480-359485/4	Lab Control Sample	110	111	103
LCS 480-359494/4	Lab Control Sample	90	89	88
MB 480-359274/6	Method Blank	103	96	96
MB 480-359421/6	Method Blank	82	78	80
MB 480-359427/6	Method Blank	111	106	100
MB 480-359429/6	Method Blank	85	101	95
MB 480-359479/7	Method Blank	90	85	86
MB 480-359485/6	Method Blank	109	105	102
MB 480-359494/7	Method Blank	98	91	92

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 480-359274/6
Matrix: Water
Analysis Batch: 359274

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-Trichloroethane	ND		1.0	0.82	ug/L			05/26/17 12:30	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			05/26/17 12:30	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			05/26/17 12:30	1
1,1,2-Trichlorotrifluoroethane	ND		1.0	0.31	ug/L			05/26/17 12:30	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			05/26/17 12:30	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			05/26/17 12:30	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			05/26/17 12:30	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			05/26/17 12:30	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			05/26/17 12:30	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			05/26/17 12:30	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			05/26/17 12:30	1
1,2-Dichloroethene, Total	ND		2.0	0.81	ug/L			05/26/17 12:30	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			05/26/17 12:30	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			05/26/17 12:30	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			05/26/17 12:30	1
2-Butanone (MEK)	ND		10	1.3	ug/L			05/26/17 12:30	1
2-Hexanone	ND		5.0	1.2	ug/L			05/26/17 12:30	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			05/26/17 12:30	1
Acetone	ND		10	3.0	ug/L			05/26/17 12:30	1
Benzene	ND		1.0	0.41	ug/L			05/26/17 12:30	1
Bromodichloromethane	ND		1.0	0.39	ug/L			05/26/17 12:30	1
Bromoform	ND		1.0	0.26	ug/L			05/26/17 12:30	1
Bromomethane	ND		1.0	0.69	ug/L			05/26/17 12:30	1
Carbon disulfide	ND		1.0	0.19	ug/L			05/26/17 12:30	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			05/26/17 12:30	1
Chlorobenzene	ND		1.0	0.75	ug/L			05/26/17 12:30	1
Chlorodibromomethane	ND		1.0	0.32	ug/L			05/26/17 12:30	1
Chloroethane	ND		1.0	0.32	ug/L			05/26/17 12:30	1
Chloroform	ND		1.0	0.34	ug/L			05/26/17 12:30	1
Chloromethane	ND		1.0	0.35	ug/L			05/26/17 12:30	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			05/26/17 12:30	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			05/26/17 12:30	1
Cyclohexane	ND		1.0	0.18	ug/L			05/26/17 12:30	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			05/26/17 12:30	1
Ethylbenzene	ND		1.0	0.74	ug/L			05/26/17 12:30	1
Isopropylbenzene	ND		1.0	0.79	ug/L			05/26/17 12:30	1
Methyl acetate	ND		1.0	1.3	ug/L			05/26/17 12:30	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			05/26/17 12:30	1
Methylcyclohexane	ND		1.0	0.16	ug/L			05/26/17 12:30	1
Methylene Chloride	ND		1.0	0.44	ug/L			05/26/17 12:30	1
Styrene	ND		1.0	0.73	ug/L			05/26/17 12:30	1
Tetrachloroethene	ND		1.0	0.36	ug/L			05/26/17 12:30	1
Toluene	ND		1.0	0.51	ug/L			05/26/17 12:30	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			05/26/17 12:30	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			05/26/17 12:30	1
Trichloroethene	ND		1.0	0.46	ug/L			05/26/17 12:30	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			05/26/17 12:30	1
Vinyl acetate	ND		5.0	0.85	ug/L			05/26/17 12:30	1

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

Lab Sample ID: MB 480-359274/6
Matrix: Water
Analysis Batch: 359274

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	ND		1.0	0.90	ug/L			05/26/17 12:30	1
Xylenes, Total	ND		2.0	0.66	ug/L			05/26/17 12:30	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*77 - 120*		*05/26/17 12:30*	*1*
4-Bromofluorobenzene (Surr)	*96*		*73 - 120*		*05/26/17 12:30*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*		*05/26/17 12:30*	*1*

Lab Sample ID: LCS 480-359274/4
Matrix: Water
Analysis Batch: 359274

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-Trichloroethane	25.0	25.3		ug/L		101	73 - 126
1,1,2,2-Tetrachloroethane	25.0	24.1		ug/L		96	76 - 120
1,1,2-Trichloroethane	25.0	23.2		ug/L		93	76 - 122
1,1,2-Trichlorotrifluoroethane	25.0	24.3		ug/L		97	61 - 148
1,1-Dichloroethane	25.0	24.0		ug/L		96	77 - 120
1,1-Dichloroethene	25.0	23.2		ug/L		93	66 - 127
1,2,4-Trichlorobenzene	25.0	24.6		ug/L		98	79 - 122
1,2-Dibromo-3-Chloropropane	25.0	26.5		ug/L		106	56 - 134
1,2-Dibromoethane	25.0	24.2		ug/L		97	77 - 120
1,2-Dichlorobenzene	25.0	23.7		ug/L		95	80 - 124
1,2-Dichloroethane	25.0	25.6		ug/L		102	75 - 120
1,2-Dichloropropane	25.0	23.5		ug/L		94	76 - 120
1,3-Dichlorobenzene	25.0	24.0		ug/L		96	77 - 120
1,4-Dichlorobenzene	25.0	23.7		ug/L		95	80 - 120
2-Butanone (MEK)	125	128		ug/L		103	57 - 140
2-Hexanone	125	132		ug/L		106	65 - 127
4-Methyl-2-pentanone (MIBK)	125	128		ug/L		102	71 - 125
Acetone	125	142		ug/L		114	56 - 142
Benzene	25.0	23.1		ug/L		92	71 - 124
Bromodichloromethane	25.0	25.8		ug/L		103	80 - 122
Bromoform	25.0	28.3		ug/L		113	61 - 132
Bromomethane	25.0	21.4		ug/L		86	55 - 144
Carbon disulfide	25.0	22.5		ug/L		90	59 - 134
Carbon tetrachloride	25.0	26.4		ug/L		106	72 - 134
Chlorobenzene	25.0	22.9		ug/L		92	80 - 120
Chlorodibromomethane	25.0	26.2		ug/L		105	75 - 125
Chloroethane	25.0	21.4		ug/L		86	69 - 136
Chloroform	25.0	24.1		ug/L		97	73 - 127
Chloromethane	25.0	19.7		ug/L		79	68 - 124
cis-1,2-Dichloroethene	25.0	23.8		ug/L		95	74 - 124
cis-1,3-Dichloropropene	25.0	25.4		ug/L		102	74 - 124
Cyclohexane	25.0	24.8		ug/L		99	59 - 135
Dichlorodifluoromethane	25.0	19.1		ug/L		76	59 - 135
Ethylbenzene	25.0	23.3		ug/L		93	77 - 123
Isopropylbenzene	25.0	24.4		ug/L		98	77 - 122

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

Lab Sample ID: LCS 480-359274/4
Matrix: Water
Analysis Batch: 359274

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methyl acetate	125	126		ug/L		101	74 - 133
Methyl tert-butyl ether	25.0	27.2		ug/L		109	77 - 120
Methylcyclohexane	25.0	23.2		ug/L		93	68 - 134
Methylene Chloride	25.0	24.8		ug/L		99	75 - 124
Styrene	25.0	24.1		ug/L		97	80 - 120
Tetrachloroethene	25.0	23.6		ug/L		95	74 - 122
Toluene	25.0	22.8		ug/L		91	80 - 122
trans-1,2-Dichloroethene	25.0	23.2		ug/L		93	73 - 127
trans-1,3-Dichloropropene	25.0	26.0		ug/L		104	80 - 120
Trichloroethene	25.0	23.4		ug/L		93	74 - 123
Trichlorofluoromethane	25.0	24.5		ug/L		98	62 - 150
Vinyl acetate	50.0	56.8		ug/L		114	50 - 144
Vinyl chloride	25.0	20.9		ug/L		84	65 - 133

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*94*		*77 - 120*
4-Bromofluorobenzene (Surr)	*90*		*73 - 120*
Toluene-d8 (Surr)	*88*		*80 - 120*

Lab Sample ID: MB 480-359421/6
Matrix: Water
Analysis Batch: 359421

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-Trichloroethane	ND		1.0	0.82	ug/L			05/27/17 13:13	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			05/27/17 13:13	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			05/27/17 13:13	1
1,1,2-Trichlorotrifluoroethane	ND		1.0	0.31	ug/L			05/27/17 13:13	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			05/27/17 13:13	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			05/27/17 13:13	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			05/27/17 13:13	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			05/27/17 13:13	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			05/27/17 13:13	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			05/27/17 13:13	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			05/27/17 13:13	1
1,2-Dichloroethene, Total	ND		2.0	0.81	ug/L			05/27/17 13:13	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			05/27/17 13:13	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			05/27/17 13:13	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			05/27/17 13:13	1
2-Butanone (MEK)	ND		10	1.3	ug/L			05/27/17 13:13	1
2-Hexanone	ND		5.0	1.2	ug/L			05/27/17 13:13	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			05/27/17 13:13	1
Acetone	ND		10	3.0	ug/L			05/27/17 13:13	1
Benzene	ND		1.0	0.41	ug/L			05/27/17 13:13	1
Bromodichloromethane	ND		1.0	0.39	ug/L			05/27/17 13:13	1
Bromoform	ND		1.0	0.26	ug/L			05/27/17 13:13	1
Bromomethane	ND		1.0	0.69	ug/L			05/27/17 13:13	1
Carbon disulfide	ND		1.0	0.19	ug/L			05/27/17 13:13	1

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

Lab Sample ID: MB 480-359421/6
Matrix: Water
Analysis Batch: 359421

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	ND		1.0	0.27	ug/L			05/27/17 13:13	1
Chlorobenzene	ND		1.0	0.75	ug/L			05/27/17 13:13	1
Chlorodibromomethane	ND		1.0	0.32	ug/L			05/27/17 13:13	1
Chloroethane	ND		1.0	0.32	ug/L			05/27/17 13:13	1
Chloroform	ND		1.0	0.34	ug/L			05/27/17 13:13	1
Chloromethane	ND		1.0	0.35	ug/L			05/27/17 13:13	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			05/27/17 13:13	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			05/27/17 13:13	1
Cyclohexane	ND		1.0	0.18	ug/L			05/27/17 13:13	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			05/27/17 13:13	1
Ethylbenzene	ND		1.0	0.74	ug/L			05/27/17 13:13	1
Isopropylbenzene	ND		1.0	0.79	ug/L			05/27/17 13:13	1
Methyl acetate	ND		1.0	1.3	ug/L			05/27/17 13:13	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			05/27/17 13:13	1
Methylcyclohexane	ND		1.0	0.16	ug/L			05/27/17 13:13	1
Methylene Chloride	ND		1.0	0.44	ug/L			05/27/17 13:13	1
Styrene	ND		1.0	0.73	ug/L			05/27/17 13:13	1
Tetrachloroethene	ND		1.0	0.36	ug/L			05/27/17 13:13	1
Toluene	ND		1.0	0.51	ug/L			05/27/17 13:13	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			05/27/17 13:13	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			05/27/17 13:13	1
Trichloroethene	ND		1.0	0.46	ug/L			05/27/17 13:13	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			05/27/17 13:13	1
Vinyl acetate	ND		5.0	0.85	ug/L			05/27/17 13:13	1
Vinyl chloride	ND		1.0	0.90	ug/L			05/27/17 13:13	1
Xylenes, Total	ND		2.0	0.66	ug/L			05/27/17 13:13	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*82*		*77 - 120*		*05/27/17 13:13*	*1*
4-Bromofluorobenzene (Surr)	*78*		*73 - 120*		*05/27/17 13:13*	*1*
Toluene-d8 (Surr)	*80*		*80 - 120*		*05/27/17 13:13*	*1*

Lab Sample ID: LCS 480-359421/4
Matrix: Water
Analysis Batch: 359421

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-Trichloroethane	25.0	22.8		ug/L		91	73 - 126
1,1,2,2-Tetrachloroethane	25.0	23.7		ug/L		95	76 - 120
1,1,2-Trichloroethane	25.0	22.7		ug/L		91	76 - 122
1,1,2-Trichlorotrifluoroethane	25.0	20.4		ug/L		82	61 - 148
1,1-Dichloroethane	25.0	23.7		ug/L		95	77 - 120
1,1-Dichloroethene	25.0	21.7		ug/L		87	66 - 127
1,2,4-Trichlorobenzene	25.0	23.6		ug/L		95	79 - 122
1,2-Dibromo-3-Chloropropane	25.0	24.0		ug/L		96	56 - 134
1,2-Dibromoethane	25.0	23.2		ug/L		93	77 - 120
1,2-Dichlorobenzene	25.0	23.1		ug/L		92	80 - 124
1,2-Dichloroethane	25.0	24.8		ug/L		99	75 - 120

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

Lab Sample ID: LCS 480-359421/4
Matrix: Water
Analysis Batch: 359421

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	23.2		ug/L		93	76 - 120
1,3-Dichlorobenzene	25.0	23.1		ug/L		93	77 - 120
1,4-Dichlorobenzene	25.0	23.0		ug/L		92	80 - 120
2-Butanone (MEK)	125	134		ug/L		107	57 - 140
2-Hexanone	125	132		ug/L		105	65 - 127
4-Methyl-2-pentanone (MIBK)	125	124		ug/L		99	71 - 125
Acetone	125	142		ug/L		114	56 - 142
Benzene	25.0	22.7		ug/L		91	71 - 124
Bromodichloromethane	25.0	25.4		ug/L		102	80 - 122
Bromoform	25.0	26.4		ug/L		106	61 - 132
Bromomethane	25.0	24.8		ug/L		99	55 - 144
Carbon disulfide	25.0	21.0		ug/L		84	59 - 134
Carbon tetrachloride	25.0	22.5		ug/L		90	72 - 134
Chlorobenzene	25.0	22.5		ug/L		90	80 - 120
Chlorodibromomethane	25.0	25.4		ug/L		102	75 - 125
Chloroethane	25.0	26.9		ug/L		108	69 - 136
Chloroform	25.0	23.8		ug/L		95	73 - 127
Chloromethane	25.0	22.1		ug/L		88	68 - 124
cis-1,2-Dichloroethene	25.0	23.5		ug/L		94	74 - 124
cis-1,3-Dichloropropene	25.0	25.8		ug/L		103	74 - 124
Cyclohexane	25.0	20.1		ug/L		81	59 - 135
Dichlorodifluoromethane	25.0	18.4		ug/L		74	59 - 135
Ethylbenzene	25.0	22.2		ug/L		89	77 - 123
Isopropylbenzene	25.0	22.8		ug/L		91	77 - 122
Methyl acetate	125	127		ug/L		101	74 - 133
Methyl tert-butyl ether	25.0	26.8		ug/L		107	77 - 120
Methylcyclohexane	25.0	20.8		ug/L		83	68 - 134
Methylene Chloride	25.0	24.3		ug/L		97	75 - 124
Styrene	25.0	23.4		ug/L		93	80 - 120
Tetrachloroethene	25.0	22.0		ug/L		88	74 - 122
Toluene	25.0	22.0		ug/L		88	80 - 122
trans-1,2-Dichloroethene	25.0	22.9		ug/L		92	73 - 127
trans-1,3-Dichloropropene	25.0	24.7		ug/L		99	80 - 120
Trichloroethene	25.0	22.6		ug/L		90	74 - 123
Trichlorofluoromethane	25.0	25.1		ug/L		101	62 - 150
Vinyl acetate	50.0	58.1		ug/L		116	50 - 144
Vinyl chloride	25.0	21.8		ug/L		87	65 - 133

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*105*		*77 - 120*
4-Bromofluorobenzene (Surr)	*103*		*73 - 120*
Toluene-d8 (Surr)	*101*		*80 - 120*

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

Lab Sample ID: MB 480-359427/6
Matrix: Water
Analysis Batch: 359427

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-Trichloroethane	ND		1.0	0.82	ug/L			05/27/17 10:54	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			05/27/17 10:54	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			05/27/17 10:54	1
1,1,2-Trichlorotrifluoroethane	ND		1.0	0.31	ug/L			05/27/17 10:54	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			05/27/17 10:54	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			05/27/17 10:54	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			05/27/17 10:54	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			05/27/17 10:54	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			05/27/17 10:54	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			05/27/17 10:54	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			05/27/17 10:54	1
1,2-Dichloroethene, Total	ND		2.0	0.81	ug/L			05/27/17 10:54	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			05/27/17 10:54	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			05/27/17 10:54	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			05/27/17 10:54	1
2-Butanone (MEK)	ND		10	1.3	ug/L			05/27/17 10:54	1
2-Hexanone	ND		5.0	1.2	ug/L			05/27/17 10:54	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			05/27/17 10:54	1
Acetone	ND		10	3.0	ug/L			05/27/17 10:54	1
Benzene	ND		1.0	0.41	ug/L			05/27/17 10:54	1
Bromodichloromethane	ND		1.0	0.39	ug/L			05/27/17 10:54	1
Bromoform	ND		1.0	0.26	ug/L			05/27/17 10:54	1
Bromomethane	ND		1.0	0.69	ug/L			05/27/17 10:54	1
Carbon disulfide	ND		1.0	0.19	ug/L			05/27/17 10:54	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			05/27/17 10:54	1
Chlorobenzene	ND		1.0	0.75	ug/L			05/27/17 10:54	1
Chlorodibromomethane	ND		1.0	0.32	ug/L			05/27/17 10:54	1
Chloroethane	ND		1.0	0.32	ug/L			05/27/17 10:54	1
Chloroform	ND		1.0	0.34	ug/L			05/27/17 10:54	1
Chloromethane	ND		1.0	0.35	ug/L			05/27/17 10:54	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			05/27/17 10:54	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			05/27/17 10:54	1
Cyclohexane	ND		1.0	0.18	ug/L			05/27/17 10:54	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			05/27/17 10:54	1
Ethylbenzene	ND		1.0	0.74	ug/L			05/27/17 10:54	1
Isopropylbenzene	ND		1.0	0.79	ug/L			05/27/17 10:54	1
Methyl acetate	ND		1.0	1.3	ug/L			05/27/17 10:54	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			05/27/17 10:54	1
Methylcyclohexane	ND		1.0	0.16	ug/L			05/27/17 10:54	1
Methylene Chloride	ND		1.0	0.44	ug/L			05/27/17 10:54	1
Styrene	ND		1.0	0.73	ug/L			05/27/17 10:54	1
Tetrachloroethene	ND		1.0	0.36	ug/L			05/27/17 10:54	1
Toluene	ND		1.0	0.51	ug/L			05/27/17 10:54	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			05/27/17 10:54	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			05/27/17 10:54	1
Trichloroethene	ND		1.0	0.46	ug/L			05/27/17 10:54	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			05/27/17 10:54	1
Vinyl acetate	ND		5.0	0.85	ug/L			05/27/17 10:54	1

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

Lab Sample ID: MB 480-359427/6
Matrix: Water
Analysis Batch: 359427

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	ND		1.0	0.90	ug/L			05/27/17 10:54	1
Xylenes, Total	ND		2.0	0.66	ug/L			05/27/17 10:54	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*111*		*77 - 120*		*05/27/17 10:54*	*1*
4-Bromofluorobenzene (Surr)	*106*		*73 - 120*		*05/27/17 10:54*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*05/27/17 10:54*	*1*

Lab Sample ID: LCS 480-359427/4
Matrix: Water
Analysis Batch: 359427

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-Trichloroethane	25.0	27.9		ug/L		111	73 - 126
1,1,2,2-Tetrachloroethane	25.0	23.8		ug/L		95	76 - 120
1,1,2-Trichloroethane	25.0	25.3		ug/L		101	76 - 122
1,1,2-Trichlorotrifluoroethane	25.0	24.0		ug/L		96	61 - 148
1,1-Dichloroethane	25.0	25.0		ug/L		100	77 - 120
1,1-Dichloroethene	25.0	21.5		ug/L		86	66 - 127
1,2,4-Trichlorobenzene	25.0	21.3		ug/L		85	79 - 122
1,2-Dibromo-3-Chloropropane	25.0	23.2		ug/L		93	56 - 134
1,2-Dibromoethane	25.0	25.6		ug/L		102	77 - 120
1,2-Dichlorobenzene	25.0	24.0		ug/L		96	80 - 124
1,2-Dichloroethane	25.0	27.1		ug/L		109	75 - 120
1,2-Dichloropropane	25.0	24.9		ug/L		100	76 - 120
1,3-Dichlorobenzene	25.0	25.1		ug/L		100	77 - 120
1,4-Dichlorobenzene	25.0	24.2		ug/L		97	80 - 120
2-Butanone (MEK)	125	131		ug/L		105	57 - 140
2-Hexanone	125	144		ug/L		115	65 - 127
4-Methyl-2-pentanone (MIBK)	125	136		ug/L		108	71 - 125
Acetone	125	143		ug/L		114	56 - 142
Benzene	25.0	24.6		ug/L		98	71 - 124
Bromodichloromethane	25.0	26.3		ug/L		105	80 - 122
Bromoform	25.0	23.3		ug/L		93	61 - 132
Bromomethane	25.0	29.1		ug/L		116	55 - 144
Carbon disulfide	25.0	22.1		ug/L		89	59 - 134
Carbon tetrachloride	25.0	32.1		ug/L		128	72 - 134
Chlorobenzene	25.0	24.2		ug/L		97	80 - 120
Chlorodibromomethane	25.0	27.2		ug/L		109	75 - 125
Chloroethane	25.0	25.4		ug/L		102	69 - 136
Chloroform	25.0	24.8		ug/L		99	73 - 127
Chloromethane	25.0	21.0		ug/L		84	68 - 124
cis-1,2-Dichloroethene	25.0	24.2		ug/L		97	74 - 124
cis-1,3-Dichloropropene	25.0	24.8		ug/L		99	74 - 124
Cyclohexane	25.0	23.6		ug/L		94	59 - 135
Dichlorodifluoromethane	25.0	19.0		ug/L		76	59 - 135
Ethylbenzene	25.0	25.3		ug/L		101	77 - 123
Isopropylbenzene	25.0	23.3		ug/L		93	77 - 122

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

Lab Sample ID: LCS 480-359427/4
Matrix: Water
Analysis Batch: 359427

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methyl acetate	125	129		ug/L		103	74 - 133
Methyl tert-butyl ether	25.0	25.4		ug/L		102	77 - 120
Methylcyclohexane	25.0	23.6		ug/L		94	68 - 134
Methylene Chloride	25.0	23.3		ug/L		93	75 - 124
Styrene	25.0	25.1		ug/L		100	80 - 120
Tetrachloroethene	25.0	26.7		ug/L		107	74 - 122
Toluene	25.0	24.3		ug/L		97	80 - 122
trans-1,2-Dichloroethene	25.0	23.8		ug/L		95	73 - 127
trans-1,3-Dichloropropene	25.0	25.9		ug/L		104	80 - 120
Trichloroethene	25.0	24.5		ug/L		98	74 - 123
Trichlorofluoromethane	25.0	34.7		ug/L		139	62 - 150
Vinyl acetate	50.0	52.1		ug/L		104	50 - 144
Vinyl chloride	25.0	21.9		ug/L		88	65 - 133

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*113*		*77 - 120*
4-Bromofluorobenzene (Surr)	*110*		*73 - 120*
Toluene-d8 (Surr)	*103*		*80 - 120*

Lab Sample ID: 480-118206-4 MS
Matrix: Water
Analysis Batch: 359427

Client Sample ID: MW 5-BR
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	ND		2000	2230		ug/L		112	73 - 126
1,1,2,2-Tetrachloroethane	ND		2000	1980		ug/L		99	76 - 120
1,1,2-Trichloroethane	ND		2000	2010		ug/L		101	76 - 122
1,1,2-Trichlorotrifluoroethane	ND		2000	2050		ug/L		103	61 - 148
1,1-Dichloroethane	ND		2000	1950		ug/L		97	77 - 120
1,1-Dichloroethene	ND		2000	1730		ug/L		86	66 - 127
1,2,4-Trichlorobenzene	ND		2000	1710		ug/L		86	79 - 122
1,2-Dibromo-3-Chloropropane	ND		2000	1910		ug/L		96	56 - 134
1,2-Dibromoethane	ND		2000	2070		ug/L		103	77 - 120
1,2-Dichlorobenzene	ND		2000	1960		ug/L		98	80 - 124
1,2-Dichloroethane	ND		2000	2140		ug/L		107	75 - 120
1,2-Dichloropropane	ND		2000	2010		ug/L		100	76 - 120
1,3-Dichlorobenzene	ND		2000	2050		ug/L		103	77 - 120
1,4-Dichlorobenzene	ND		2000	1990		ug/L		99	78 - 124
2-Butanone (MEK)	ND		10000	10000		ug/L		100	57 - 140
2-Hexanone	ND		10000	11800		ug/L		118	65 - 127
4-Methyl-2-pentanone (MIBK)	ND		10000	11100		ug/L		111	71 - 125
Acetone	ND		10000	9920		ug/L		99	56 - 142
Benzene	ND		2000	1930		ug/L		97	71 - 124
Bromodichloromethane	ND		2000	2050		ug/L		103	80 - 122
Bromoform	ND		2000	2000		ug/L		100	61 - 132
Bromomethane	ND		2000	2230		ug/L		111	55 - 144
Carbon disulfide	ND		2000	1750		ug/L		88	59 - 134
Carbon tetrachloride	ND		2000	2420		ug/L		121	72 - 134

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

Lab Sample ID: 480-118206-4 MS
Matrix: Water
Analysis Batch: 359427

Client Sample ID: MW 5-BR
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chlorobenzene	ND		2000	1990		ug/L		100	80 - 120
Chlorodibromomethane	ND		2000	2340		ug/L		117	75 - 125
Chloroethane	ND		2000	2100		ug/L		105	69 - 136
Chloroform	ND		2000	1930		ug/L		96	73 - 127
Chloromethane	ND		2000	1510		ug/L		75	68 - 124
cis-1,2-Dichloroethene	6300	F1	2000	7580	F1	ug/L		64	74 - 124
cis-1,3-Dichloropropene	ND		2000	1860		ug/L		93	74 - 124
Cyclohexane	ND		2000	1960		ug/L		98	59 - 135
Dichlorodifluoromethane	ND		2000	1380		ug/L		69	59 - 135
Ethylbenzene	ND		2000	2050		ug/L		102	77 - 123
Isopropylbenzene	ND		2000	1970		ug/L		98	77 - 122
Methyl acetate	ND		10000	10100		ug/L		101	74 - 133
Methyl tert-butyl ether	ND		2000	1970		ug/L		98	77 - 120
Methylcyclohexane	ND		2000	1910		ug/L		96	68 - 134
Methylene Chloride	ND		2000	1790		ug/L		90	75 - 124
Styrene	ND		2000	2060		ug/L		103	80 - 120
Tetrachloroethene	ND		2000	2230		ug/L		111	74 - 122
Toluene	ND		2000	2000		ug/L		100	80 - 122
trans-1,2-Dichloroethene	ND		2000	1910		ug/L		96	73 - 127
trans-1,3-Dichloropropene	ND		2000	1970		ug/L		98	80 - 120
Trichloroethene	190		2000	2060		ug/L		94	74 - 123
Trichlorofluoromethane	ND		2000	2620		ug/L		131	62 - 150
Vinyl acetate	ND		4000	3970		ug/L		99	50 - 144
Vinyl chloride	130		2000	1790		ug/L		83	65 - 133

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*109*		*77 - 120*
4-Bromofluorobenzene (Surr)	*114*		*73 - 120*
Toluene-d8 (Surr)	*101*		*80 - 120*

Lab Sample ID: 480-118206-4 MSD
Matrix: Water
Analysis Batch: 359427

Client Sample ID: MW 5-BR
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	ND		2000	2190		ug/L		110	73 - 126	2	15
1,1,2,2-Tetrachloroethane	ND		2000	1960		ug/L		98	76 - 120	1	15
1,1,2-Trichloroethane	ND		2000	1950		ug/L		97	76 - 122	3	15
1,1,2-Trichlorotrifluoroethane	ND		2000	2080		ug/L		104	61 - 148	1	20
1,1-Dichloroethane	ND		2000	1960		ug/L		98	77 - 120	1	20
1,1-Dichloroethene	ND		2000	1800		ug/L		90	66 - 127	4	16
1,2,4-Trichlorobenzene	ND		2000	1650		ug/L		83	79 - 122	4	20
1,2-Dibromo-3-Chloropropane	ND		2000	1970		ug/L		98	56 - 134	3	15
1,2-Dibromoethane	ND		2000	2000		ug/L		100	77 - 120	3	15
1,2-Dichlorobenzene	ND		2000	1880		ug/L		94	80 - 124	4	20
1,2-Dichloroethane	ND		2000	2110		ug/L		106	75 - 120	1	20
1,2-Dichloropropane	ND		2000	2020		ug/L		101	76 - 120	1	20
1,3-Dichlorobenzene	ND		2000	1980		ug/L		99	77 - 120	3	20

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

Lab Sample ID: 480-118206-4 MSD
Matrix: Water
Analysis Batch: 359427

Client Sample ID: MW 5-BR
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,4-Dichlorobenzene	ND		2000	1860		ug/L		93	78 - 124	7	20
2-Butanone (MEK)	ND		10000	10500		ug/L		105	57 - 140	5	20
2-Hexanone	ND		10000	11300		ug/L		113	65 - 127	5	15
4-Methyl-2-pentanone (MIBK)	ND		10000	10900		ug/L		109	71 - 125	2	35
Acetone	ND		10000	10500		ug/L		105	56 - 142	6	15
Benzene	ND		2000	1960		ug/L		98	71 - 124	2	13
Bromodichloromethane	ND		2000	2090		ug/L		105	80 - 122	2	15
Bromoform	ND		2000	1840		ug/L		92	61 - 132	8	15
Bromomethane	ND		2000	2090		ug/L		105	55 - 144	6	15
Carbon disulfide	ND		2000	1800		ug/L		90	59 - 134	3	15
Carbon tetrachloride	ND		2000	2370		ug/L		119	72 - 134	2	15
Chlorobenzene	ND		2000	1880		ug/L		94	80 - 120	6	25
Chlorodibromomethane	ND		2000	2130		ug/L		107	75 - 125	9	15
Chloroethane	ND		2000	1990		ug/L		99	69 - 136	5	15
Chloroform	ND		2000	1970		ug/L		98	73 - 127	2	20
Chloromethane	ND		2000	1540		ug/L		77	68 - 124	2	15
cis-1,2-Dichloroethene	6300	F1	2000	7680	F1	ug/L		70	74 - 124	1	15
cis-1,3-Dichloropropene	ND		2000	1910		ug/L		96	74 - 124	3	15
Cyclohexane	ND		2000	1990		ug/L		100	59 - 135	1	20
Dichlorodifluoromethane	ND		2000	1450		ug/L		72	59 - 135	5	20
Ethylbenzene	ND		2000	1910		ug/L		96	77 - 123	7	15
Isopropylbenzene	ND		2000	1860		ug/L		93	77 - 122	6	20
Methyl acetate	ND		10000	10600		ug/L		106	74 - 133	5	20
Methyl tert-butyl ether	ND		2000	2070		ug/L		104	77 - 120	5	37
Methylcyclohexane	ND		2000	1990		ug/L		99	68 - 134	4	20
Methylene Chloride	ND		2000	1820		ug/L		91	75 - 124	1	15
Styrene	ND		2000	1970		ug/L		98	80 - 120	5	20
Tetrachloroethene	ND		2000	2010		ug/L		101	74 - 122	10	20
Toluene	ND		2000	1850		ug/L		92	80 - 122	8	15
trans-1,2-Dichloroethene	ND		2000	1970		ug/L		98	73 - 127	3	20
trans-1,3-Dichloropropene	ND		2000	1870		ug/L		94	80 - 120	5	15
Trichloroethene	190		2000	2120		ug/L		97	74 - 123	3	16
Trichlorofluoromethane	ND		2000	2600		ug/L		130	62 - 150	1	20
Vinyl acetate	ND		4000	4090		ug/L		102	50 - 144	3	23
Vinyl chloride	130		2000	1830		ug/L		85	65 - 133	2	15

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*113*		*77 - 120*
4-Bromofluorobenzene (Surr)	*107*		*73 - 120*
Toluene-d8 (Surr)	*99*		*80 - 120*

Lab Sample ID: MB 480-359429/6
Matrix: Water
Analysis Batch: 359429

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-Trichloroethane	ND		1.0	0.82	ug/L			05/27/17 11:37	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			05/27/17 11:37	1

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

Lab Sample ID: MB 480-359429/6
Matrix: Water
Analysis Batch: 359429

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			05/27/17 11:37	1
1,1,2-Trichlorotrifluoroethane	ND		1.0	0.31	ug/L			05/27/17 11:37	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			05/27/17 11:37	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			05/27/17 11:37	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			05/27/17 11:37	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			05/27/17 11:37	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			05/27/17 11:37	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			05/27/17 11:37	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			05/27/17 11:37	1
1,2-Dichloroethene, Total	ND		2.0	0.81	ug/L			05/27/17 11:37	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			05/27/17 11:37	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			05/27/17 11:37	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			05/27/17 11:37	1
2-Butanone (MEK)	ND		10	1.3	ug/L			05/27/17 11:37	1
2-Hexanone	ND		5.0	1.2	ug/L			05/27/17 11:37	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			05/27/17 11:37	1
Acetone	ND		10	3.0	ug/L			05/27/17 11:37	1
Benzene	ND		1.0	0.41	ug/L			05/27/17 11:37	1
Bromodichloromethane	ND		1.0	0.39	ug/L			05/27/17 11:37	1
Bromoform	ND		1.0	0.26	ug/L			05/27/17 11:37	1
Bromomethane	ND		1.0	0.69	ug/L			05/27/17 11:37	1
Carbon disulfide	ND		1.0	0.19	ug/L			05/27/17 11:37	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			05/27/17 11:37	1
Chlorobenzene	ND		1.0	0.75	ug/L			05/27/17 11:37	1
Chlorodibromomethane	ND		1.0	0.32	ug/L			05/27/17 11:37	1
Chloroethane	ND		1.0	0.32	ug/L			05/27/17 11:37	1
Chloroform	ND		1.0	0.34	ug/L			05/27/17 11:37	1
Chloromethane	ND		1.0	0.35	ug/L			05/27/17 11:37	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			05/27/17 11:37	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			05/27/17 11:37	1
Cyclohexane	ND		1.0	0.18	ug/L			05/27/17 11:37	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			05/27/17 11:37	1
Ethylbenzene	ND		1.0	0.74	ug/L			05/27/17 11:37	1
Isopropylbenzene	ND		1.0	0.79	ug/L			05/27/17 11:37	1
Methyl acetate	ND		1.0	1.3	ug/L			05/27/17 11:37	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			05/27/17 11:37	1
Methylcyclohexane	ND		1.0	0.16	ug/L			05/27/17 11:37	1
Methylene Chloride	ND		1.0	0.44	ug/L			05/27/17 11:37	1
Styrene	ND		1.0	0.73	ug/L			05/27/17 11:37	1
Tetrachloroethene	ND		1.0	0.36	ug/L			05/27/17 11:37	1
Toluene	ND		1.0	0.51	ug/L			05/27/17 11:37	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			05/27/17 11:37	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			05/27/17 11:37	1
Trichloroethene	ND		1.0	0.46	ug/L			05/27/17 11:37	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			05/27/17 11:37	1
Vinyl acetate	ND		5.0	0.85	ug/L			05/27/17 11:37	1
Vinyl chloride	ND		1.0	0.90	ug/L			05/27/17 11:37	1
Xylenes, Total	ND		2.0	0.66	ug/L			05/27/17 11:37	1

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

Lab Sample ID: MB 480-359429/6
Matrix: Water
Analysis Batch: 359429

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

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	85		77 - 120		05/27/17 11:37	1
4-Bromofluorobenzene (Surr)	101		73 - 120		05/27/17 11:37	1
Toluene-d8 (Surr)	95		80 - 120		05/27/17 11:37	1

Lab Sample ID: LCS 480-359429/4
Matrix: Water
Analysis Batch: 359429

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-Trichloroethane	25.0	24.2		ug/L		97	73 - 126
1,1,2,2-Tetrachloroethane	25.0	23.4		ug/L		94	76 - 120
1,1,2-Trichloroethane	25.0	25.1		ug/L		100	76 - 122
1,1,2-Trichlorotrifluoroethane	25.0	24.5		ug/L		98	61 - 148
1,1-Dichloroethane	25.0	24.7		ug/L		99	77 - 120
1,1-Dichloroethene	25.0	22.3		ug/L		89	66 - 127
1,2,4-Trichlorobenzene	25.0	29.9		ug/L		120	79 - 122
1,2-Dibromo-3-Chloropropane	25.0	22.8		ug/L		91	56 - 134
1,2-Dibromoethane	25.0	24.4		ug/L		98	77 - 120
1,2-Dichlorobenzene	25.0	25.6		ug/L		103	80 - 124
1,2-Dichloroethane	25.0	22.9		ug/L		91	75 - 120
1,2-Dichloropropane	25.0	24.9		ug/L		100	76 - 120
1,3-Dichlorobenzene	25.0	24.8		ug/L		99	77 - 120
1,4-Dichlorobenzene	25.0	25.0		ug/L		100	80 - 120
2-Butanone (MEK)	125	111		ug/L		89	57 - 140
2-Hexanone	125	110		ug/L		88	65 - 127
4-Methyl-2-pentanone (MIBK)	125	118		ug/L		94	71 - 125
Acetone	125	116		ug/L		93	56 - 142
Benzene	25.0	24.6		ug/L		98	71 - 124
Bromodichloromethane	25.0	23.7		ug/L		95	80 - 122
Bromoform	25.0	25.5		ug/L		102	61 - 132
Bromomethane	25.0	30.1		ug/L		120	55 - 144
Carbon disulfide	25.0	22.7		ug/L		91	59 - 134
Carbon tetrachloride	25.0	24.4		ug/L		98	72 - 134
Chlorobenzene	25.0	24.7		ug/L		99	80 - 120
Chlorodibromomethane	25.0	25.9		ug/L		104	75 - 125
Chloroethane	25.0	27.2		ug/L		109	69 - 136
Chloroform	25.0	23.2		ug/L		93	73 - 127
Chloromethane	25.0	24.9		ug/L		100	68 - 124
cis-1,2-Dichloroethene	25.0	24.1		ug/L		96	74 - 124
cis-1,3-Dichloropropene	25.0	24.9		ug/L		100	74 - 124
Cyclohexane	25.0	23.3		ug/L		93	59 - 135
Dichlorodifluoromethane	25.0	25.2		ug/L		101	59 - 135
Ethylbenzene	25.0	24.8		ug/L		99	77 - 123
Isopropylbenzene	25.0	25.8		ug/L		103	77 - 122
Methyl acetate	125	110		ug/L		88	74 - 133
Methyl tert-butyl ether	25.0	24.1		ug/L		96	77 - 120
Methylcyclohexane	25.0	25.2		ug/L		101	68 - 134
Methylene Chloride	25.0	23.7		ug/L		95	75 - 124

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

Lab Sample ID: LCS 480-359429/4
Matrix: Water
Analysis Batch: 359429

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Styrene	25.0	24.8		ug/L		99	80 - 120
Tetrachloroethene	25.0	25.7		ug/L		103	74 - 122
Toluene	25.0	25.6		ug/L		102	80 - 122
trans-1,2-Dichloroethene	25.0	23.5		ug/L		94	73 - 127
trans-1,3-Dichloropropene	25.0	25.7		ug/L		103	80 - 120
Trichloroethene	25.0	23.3		ug/L		93	74 - 123
Trichlorofluoromethane	25.0	27.9		ug/L		111	62 - 150
Vinyl acetate	50.0	43.3		ug/L		87	50 - 144
Vinyl chloride	25.0	25.2		ug/L		101	65 - 133

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*84*		*77 - 120*
4-Bromofluorobenzene (Surr)	*100*		*73 - 120*
Toluene-d8 (Surr)	*93*		*80 - 120*

Lab Sample ID: MB 480-359479/7
Matrix: Water
Analysis Batch: 359479

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-Trichloroethane	ND		1.0	0.82	ug/L			05/28/17 00:50	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			05/28/17 00:50	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			05/28/17 00:50	1
1,1,2-Trichlorotrifluoroethane	ND		1.0	0.31	ug/L			05/28/17 00:50	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			05/28/17 00:50	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			05/28/17 00:50	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			05/28/17 00:50	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			05/28/17 00:50	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			05/28/17 00:50	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			05/28/17 00:50	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			05/28/17 00:50	1
1,2-Dichloroethene, Total	ND		2.0	0.81	ug/L			05/28/17 00:50	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			05/28/17 00:50	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			05/28/17 00:50	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			05/28/17 00:50	1
2-Butanone (MEK)	ND		10	1.3	ug/L			05/28/17 00:50	1
2-Hexanone	ND		5.0	1.2	ug/L			05/28/17 00:50	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			05/28/17 00:50	1
Acetone	ND		10	3.0	ug/L			05/28/17 00:50	1
Benzene	ND		1.0	0.41	ug/L			05/28/17 00:50	1
Bromodichloromethane	ND		1.0	0.39	ug/L			05/28/17 00:50	1
Bromoform	ND		1.0	0.26	ug/L			05/28/17 00:50	1
Bromomethane	ND		1.0	0.69	ug/L			05/28/17 00:50	1
Carbon disulfide	ND		1.0	0.19	ug/L			05/28/17 00:50	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			05/28/17 00:50	1
Chlorobenzene	ND		1.0	0.75	ug/L			05/28/17 00:50	1
Chlorodibromomethane	ND		1.0	0.32	ug/L			05/28/17 00:50	1
Chloroethane	ND		1.0	0.32	ug/L			05/28/17 00:50	1

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

Lab Sample ID: MB 480-359479/7
Matrix: Water
Analysis Batch: 359479

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroform	ND		1.0	0.34	ug/L			05/28/17 00:50	1
Chloromethane	ND		1.0	0.35	ug/L			05/28/17 00:50	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			05/28/17 00:50	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			05/28/17 00:50	1
Cyclohexane	ND		1.0	0.18	ug/L			05/28/17 00:50	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			05/28/17 00:50	1
Ethylbenzene	ND		1.0	0.74	ug/L			05/28/17 00:50	1
Isopropylbenzene	ND		1.0	0.79	ug/L			05/28/17 00:50	1
Methyl acetate	ND		1.0	1.3	ug/L			05/28/17 00:50	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			05/28/17 00:50	1
Methylcyclohexane	ND		1.0	0.16	ug/L			05/28/17 00:50	1
Methylene Chloride	ND		1.0	0.44	ug/L			05/28/17 00:50	1
Styrene	ND		1.0	0.73	ug/L			05/28/17 00:50	1
Tetrachloroethene	ND		1.0	0.36	ug/L			05/28/17 00:50	1
Toluene	ND		1.0	0.51	ug/L			05/28/17 00:50	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			05/28/17 00:50	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			05/28/17 00:50	1
Trichloroethene	ND		1.0	0.46	ug/L			05/28/17 00:50	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			05/28/17 00:50	1
Vinyl acetate	ND		5.0	0.85	ug/L			05/28/17 00:50	1
Vinyl chloride	ND		1.0	0.90	ug/L			05/28/17 00:50	1
Xylenes, Total	ND		2.0	0.66	ug/L			05/28/17 00:50	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*90*		*77 - 120*		*05/28/17 00:50*	*1*
4-Bromofluorobenzene (Surr)	*85*		*73 - 120*		*05/28/17 00:50*	*1*
Toluene-d8 (Surr)	*86*		*80 - 120*		*05/28/17 00:50*	*1*

Lab Sample ID: LCS 480-359479/27
Matrix: Water
Analysis Batch: 359479

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-Trichloroethane	25.0	20.7		ug/L		83	73 - 126
1,1,2,2-Tetrachloroethane	25.0	22.4		ug/L		90	76 - 120
1,1,2-Trichloroethane	25.0	22.2		ug/L		89	76 - 122
1,1,2-Trichlorotrifluoroethane	25.0	19.8		ug/L		79	61 - 148
1,1-Dichloroethane	25.0	21.2		ug/L		85	77 - 120
1,1-Dichloroethene	25.0	19.8		ug/L		79	66 - 127
1,2,4-Trichlorobenzene	25.0	22.1		ug/L		88	79 - 122
1,2-Dibromo-3-Chloropropane	25.0	24.7		ug/L		99	56 - 134
1,2-Dibromoethane	25.0	22.3		ug/L		89	77 - 120
1,2-Dichlorobenzene	25.0	22.0		ug/L		88	80 - 124
1,2-Dichloroethane	25.0	21.8		ug/L		87	75 - 120
1,2-Dichloropropane	25.0	22.2		ug/L		89	76 - 120
1,3-Dichlorobenzene	25.0	21.7		ug/L		87	77 - 120
1,4-Dichlorobenzene	25.0	21.9		ug/L		88	80 - 120
2-Butanone (MEK)	125	123		ug/L		99	57 - 140

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

Lab Sample ID: LCS 480-359479/27
Matrix: Water
Analysis Batch: 359479

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Hexanone	125	125		ug/L		100	65 - 127
4-Methyl-2-pentanone (MIBK)	125	120		ug/L		96	71 - 125
Acetone	125	131		ug/L		104	56 - 142
Benzene	25.0	21.1		ug/L		84	71 - 124
Bromodichloromethane	25.0	22.1		ug/L		88	80 - 122
Bromoform	25.0	24.6		ug/L		98	61 - 132
Bromomethane	25.0	20.2		ug/L		81	55 - 144
Carbon disulfide	25.0	19.6		ug/L		78	59 - 134
Carbon tetrachloride	25.0	21.2		ug/L		85	72 - 134
Chlorobenzene	25.0	21.6		ug/L		86	80 - 120
Chlorodibromomethane	25.0	22.4		ug/L		90	75 - 125
Chloroethane	25.0	19.6		ug/L		78	69 - 136
Chloroform	25.0	20.7		ug/L		83	73 - 127
Chloromethane	25.0	17.5		ug/L		70	68 - 124
cis-1,2-Dichloroethene	25.0	21.5		ug/L		86	74 - 124
cis-1,3-Dichloropropene	25.0	22.7		ug/L		91	74 - 124
Cyclohexane	25.0	20.0		ug/L		80	59 - 135
Dichlorodifluoromethane	25.0	14.4	*	ug/L		57	59 - 135
Ethylbenzene	25.0	20.6		ug/L		82	77 - 123
Isopropylbenzene	25.0	20.8		ug/L		83	77 - 122
Methyl acetate	125	118		ug/L		94	74 - 133
Methyl tert-butyl ether	25.0	22.0		ug/L		88	77 - 120
Methylcyclohexane	25.0	19.6		ug/L		78	68 - 134
Methylene Chloride	25.0	22.1		ug/L		88	75 - 124
Styrene	25.0	21.8		ug/L		87	80 - 120
Tetrachloroethene	25.0	20.6		ug/L		82	74 - 122
Toluene	25.0	21.0		ug/L		84	80 - 122
trans-1,2-Dichloroethene	25.0	20.5		ug/L		82	73 - 127
trans-1,3-Dichloropropene	25.0	23.5		ug/L		94	80 - 120
Trichloroethene	25.0	20.5		ug/L		82	74 - 123
Trichlorofluoromethane	25.0	18.6		ug/L		74	62 - 150
Vinyl acetate	50.0	51.6		ug/L		103	50 - 144
Vinyl chloride	25.0	18.2		ug/L		73	65 - 133

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*94*		*77 - 120*
4-Bromofluorobenzene (Surr)	*89*		*73 - 120*
Toluene-d8 (Surr)	*90*		*80 - 120*

Lab Sample ID: MB 480-359485/6
Matrix: Water
Analysis Batch: 359485

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-Trichloroethane	ND		1.0	0.82	ug/L			05/27/17 21:30	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			05/27/17 21:30	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			05/27/17 21:30	1
1,1,2-Trichlorotrifluoroethane	ND		1.0	0.31	ug/L			05/27/17 21:30	1

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

Lab Sample ID: MB 480-359485/6
Matrix: Water
Analysis Batch: 359485

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	ND		1.0	0.38	ug/L			05/27/17 21:30	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			05/27/17 21:30	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			05/27/17 21:30	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			05/27/17 21:30	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			05/27/17 21:30	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			05/27/17 21:30	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			05/27/17 21:30	1
1,2-Dichloroethene, Total	ND		2.0	0.81	ug/L			05/27/17 21:30	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			05/27/17 21:30	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			05/27/17 21:30	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			05/27/17 21:30	1
2-Butanone (MEK)	ND		10	1.3	ug/L			05/27/17 21:30	1
2-Hexanone	ND		5.0	1.2	ug/L			05/27/17 21:30	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			05/27/17 21:30	1
Acetone	ND		10	3.0	ug/L			05/27/17 21:30	1
Benzene	ND		1.0	0.41	ug/L			05/27/17 21:30	1
Bromodichloromethane	ND		1.0	0.39	ug/L			05/27/17 21:30	1
Bromoform	ND		1.0	0.26	ug/L			05/27/17 21:30	1
Bromomethane	ND		1.0	0.69	ug/L			05/27/17 21:30	1
Carbon disulfide	ND		1.0	0.19	ug/L			05/27/17 21:30	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			05/27/17 21:30	1
Chlorobenzene	ND		1.0	0.75	ug/L			05/27/17 21:30	1
Chlorodibromomethane	ND		1.0	0.32	ug/L			05/27/17 21:30	1
Chloroethane	ND		1.0	0.32	ug/L			05/27/17 21:30	1
Chloroform	ND		1.0	0.34	ug/L			05/27/17 21:30	1
Chloromethane	ND		1.0	0.35	ug/L			05/27/17 21:30	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			05/27/17 21:30	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			05/27/17 21:30	1
Cyclohexane	ND		1.0	0.18	ug/L			05/27/17 21:30	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			05/27/17 21:30	1
Ethylbenzene	ND		1.0	0.74	ug/L			05/27/17 21:30	1
Isopropylbenzene	ND		1.0	0.79	ug/L			05/27/17 21:30	1
Methyl acetate	ND		1.0	1.3	ug/L			05/27/17 21:30	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			05/27/17 21:30	1
Methylcyclohexane	ND		1.0	0.16	ug/L			05/27/17 21:30	1
Methylene Chloride	ND		1.0	0.44	ug/L			05/27/17 21:30	1
Styrene	ND		1.0	0.73	ug/L			05/27/17 21:30	1
Tetrachloroethene	ND		1.0	0.36	ug/L			05/27/17 21:30	1
Toluene	ND		1.0	0.51	ug/L			05/27/17 21:30	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			05/27/17 21:30	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			05/27/17 21:30	1
Trichloroethene	ND		1.0	0.46	ug/L			05/27/17 21:30	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			05/27/17 21:30	1
Vinyl acetate	ND		5.0	0.85	ug/L			05/27/17 21:30	1
Vinyl chloride	ND		1.0	0.90	ug/L			05/27/17 21:30	1
Xylenes, Total	ND		2.0	0.66	ug/L			05/27/17 21:30	1

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

Lab Sample ID: MB 480-359485/6
Matrix: Water
Analysis Batch: 359485

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

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	109		77 - 120		05/27/17 21:30	1
4-Bromofluorobenzene (Surr)	105		73 - 120		05/27/17 21:30	1
Toluene-d8 (Surr)	102		80 - 120		05/27/17 21:30	1

Lab Sample ID: LCS 480-359485/4
Matrix: Water
Analysis Batch: 359485

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-Trichloroethane	25.0	27.8		ug/L		111	73 - 126
1,1,2,2-Tetrachloroethane	25.0	25.0		ug/L		100	76 - 120
1,1,2-Trichloroethane	25.0	26.5		ug/L		106	76 - 122
1,1,2-Trichlorotrifluoroethane	25.0	24.6		ug/L		98	61 - 148
1,1-Dichloroethane	25.0	24.8		ug/L		99	77 - 120
1,1-Dichloroethene	25.0	21.8		ug/L		87	66 - 127
1,2,4-Trichlorobenzene	25.0	20.8		ug/L		83	79 - 122
1,2-Dibromo-3-Chloropropane	25.0	25.3		ug/L		101	56 - 134
1,2-Dibromoethane	25.0	26.2		ug/L		105	77 - 120
1,2-Dichlorobenzene	25.0	24.2		ug/L		97	80 - 124
1,2-Dichloroethane	25.0	27.8		ug/L		111	75 - 120
1,2-Dichloropropane	25.0	24.5		ug/L		98	76 - 120
1,3-Dichlorobenzene	25.0	24.6		ug/L		98	77 - 120
1,4-Dichlorobenzene	25.0	24.4		ug/L		97	80 - 120
2-Butanone (MEK)	125	139		ug/L		111	57 - 140
2-Hexanone	125	150		ug/L		120	65 - 127
4-Methyl-2-pentanone (MIBK)	125	143		ug/L		114	71 - 125
Acetone	125	148		ug/L		119	56 - 142
Benzene	25.0	24.3		ug/L		97	71 - 124
Bromodichloromethane	25.0	26.6		ug/L		106	80 - 122
Bromoform	25.0	25.4		ug/L		102	61 - 132
Bromomethane	25.0	30.7		ug/L		123	55 - 144
Carbon disulfide	25.0	21.1		ug/L		84	59 - 134
Carbon tetrachloride	25.0	31.6		ug/L		126	72 - 134
Chlorobenzene	25.0	24.5		ug/L		98	80 - 120
Chlorodibromomethane	25.0	27.5		ug/L		110	75 - 125
Chloroethane	25.0	27.4		ug/L		110	69 - 136
Chloroform	25.0	24.6		ug/L		98	73 - 127
Chloromethane	25.0	21.9		ug/L		87	68 - 124
cis-1,2-Dichloroethene	25.0	24.0		ug/L		96	74 - 124
cis-1,3-Dichloropropene	25.0	25.0		ug/L		100	74 - 124
Cyclohexane	25.0	23.4		ug/L		93	59 - 135
Dichlorodifluoromethane	25.0	15.8		ug/L		63	59 - 135
Ethylbenzene	25.0	25.2		ug/L		101	77 - 123
Isopropylbenzene	25.0	23.6		ug/L		94	77 - 122
Methyl acetate	125	136		ug/L		109	74 - 133
Methyl tert-butyl ether	25.0	26.1		ug/L		105	77 - 120
Methylcyclohexane	25.0	22.2		ug/L		89	68 - 134
Methylene Chloride	25.0	23.0		ug/L		92	75 - 124

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

Lab Sample ID: LCS 480-359485/4
Matrix: Water
Analysis Batch: 359485

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Styrene	25.0	25.8		ug/L		103	80 - 120
Tetrachloroethene	25.0	25.7		ug/L		103	74 - 122
Toluene	25.0	24.1		ug/L		96	80 - 122
trans-1,2-Dichloroethene	25.0	23.4		ug/L		94	73 - 127
trans-1,3-Dichloropropene	25.0	26.6		ug/L		106	80 - 120
Trichloroethene	25.0	23.8		ug/L		95	74 - 123
Trichlorofluoromethane	25.0	33.4		ug/L		134	62 - 150
Vinyl acetate	50.0	54.4		ug/L		109	50 - 144
Vinyl chloride	25.0	21.8		ug/L		87	65 - 133

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*110*		*77 - 120*
4-Bromofluorobenzene (Surr)	*111*		*73 - 120*
Toluene-d8 (Surr)	*103*		*80 - 120*

Lab Sample ID: MB 480-359494/7
Matrix: Water
Analysis Batch: 359494

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-Trichloroethane	ND		1.0	0.82	ug/L			05/28/17 18:31	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			05/28/17 18:31	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			05/28/17 18:31	1
1,1,2-Trichlorotrifluoroethane	ND		1.0	0.31	ug/L			05/28/17 18:31	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			05/28/17 18:31	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			05/28/17 18:31	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			05/28/17 18:31	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			05/28/17 18:31	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			05/28/17 18:31	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			05/28/17 18:31	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			05/28/17 18:31	1
1,2-Dichloroethene, Total	ND		2.0	0.81	ug/L			05/28/17 18:31	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			05/28/17 18:31	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			05/28/17 18:31	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			05/28/17 18:31	1
2-Butanone (MEK)	ND		10	1.3	ug/L			05/28/17 18:31	1
2-Hexanone	ND		5.0	1.2	ug/L			05/28/17 18:31	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			05/28/17 18:31	1
Acetone	ND		10	3.0	ug/L			05/28/17 18:31	1
Benzene	ND		1.0	0.41	ug/L			05/28/17 18:31	1
Bromodichloromethane	ND		1.0	0.39	ug/L			05/28/17 18:31	1
Bromoform	ND		1.0	0.26	ug/L			05/28/17 18:31	1
Bromomethane	ND		1.0	0.69	ug/L			05/28/17 18:31	1
Carbon disulfide	ND		1.0	0.19	ug/L			05/28/17 18:31	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			05/28/17 18:31	1
Chlorobenzene	ND		1.0	0.75	ug/L			05/28/17 18:31	1
Chlorodibromomethane	ND		1.0	0.32	ug/L			05/28/17 18:31	1
Chloroethane	ND		1.0	0.32	ug/L			05/28/17 18:31	1

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

Lab Sample ID: MB 480-359494/7
Matrix: Water
Analysis Batch: 359494

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroform	ND		1.0	0.34	ug/L			05/28/17 18:31	1
Chloromethane	ND		1.0	0.35	ug/L			05/28/17 18:31	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			05/28/17 18:31	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			05/28/17 18:31	1
Cyclohexane	ND		1.0	0.18	ug/L			05/28/17 18:31	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			05/28/17 18:31	1
Ethylbenzene	ND		1.0	0.74	ug/L			05/28/17 18:31	1
Isopropylbenzene	ND		1.0	0.79	ug/L			05/28/17 18:31	1
Methyl acetate	ND		1.0	1.3	ug/L			05/28/17 18:31	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			05/28/17 18:31	1
Methylcyclohexane	ND		1.0	0.16	ug/L			05/28/17 18:31	1
Methylene Chloride	ND		1.0	0.44	ug/L			05/28/17 18:31	1
Styrene	ND		1.0	0.73	ug/L			05/28/17 18:31	1
Tetrachloroethene	ND		1.0	0.36	ug/L			05/28/17 18:31	1
Toluene	ND		1.0	0.51	ug/L			05/28/17 18:31	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			05/28/17 18:31	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			05/28/17 18:31	1
Trichloroethene	ND		1.0	0.46	ug/L			05/28/17 18:31	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			05/28/17 18:31	1
Vinyl acetate	ND		5.0	0.85	ug/L			05/28/17 18:31	1
Vinyl chloride	ND		1.0	0.90	ug/L			05/28/17 18:31	1
Xylenes, Total	ND		2.0	0.66	ug/L			05/28/17 18:31	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*77 - 120*		*05/28/17 18:31*	*1*
4-Bromofluorobenzene (Surr)	*91*		*73 - 120*		*05/28/17 18:31*	*1*
Toluene-d8 (Surr)	*92*		*80 - 120*		*05/28/17 18:31*	*1*

Lab Sample ID: LCS 480-359494/4
Matrix: Water
Analysis Batch: 359494

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-Trichloroethane	25.0	20.4		ug/L		81	73 - 126
1,1,2,2-Tetrachloroethane	25.0	22.6		ug/L		90	76 - 120
1,1,2-Trichloroethane	25.0	22.3		ug/L		89	76 - 122
1,1,2-Trichlorotrifluoroethane	25.0	19.9		ug/L		80	61 - 148
1,1-Dichloroethane	25.0	21.7		ug/L		87	77 - 120
1,1-Dichloroethene	25.0	20.1		ug/L		80	66 - 127
1,2,4-Trichlorobenzene	25.0	21.7		ug/L		87	79 - 122
1,2-Dibromo-3-Chloropropane	25.0	23.3		ug/L		93	56 - 134
1,2-Dibromoethane	25.0	21.8		ug/L		87	77 - 120
1,2-Dichlorobenzene	25.0	21.9		ug/L		88	80 - 124
1,2-Dichloroethane	25.0	21.9		ug/L		88	75 - 120
1,2-Dichloropropane	25.0	22.1		ug/L		89	76 - 120
1,3-Dichlorobenzene	25.0	21.5		ug/L		86	77 - 120
1,4-Dichlorobenzene	25.0	22.1		ug/L		88	80 - 120
2-Butanone (MEK)	125	122		ug/L		97	57 - 140

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

Lab Sample ID: LCS 480-359494/4
Matrix: Water
Analysis Batch: 359494

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Hexanone	125	123		ug/L		99	65 - 127
4-Methyl-2-pentanone (MIBK)	125	122		ug/L		98	71 - 125
Acetone	125	124		ug/L		99	56 - 142
Benzene	25.0	20.9		ug/L		83	71 - 124
Bromodichloromethane	25.0	21.7		ug/L		87	80 - 122
Bromoform	25.0	24.2		ug/L		97	61 - 132
Bromomethane	25.0	24.0		ug/L		96	55 - 144
Carbon disulfide	25.0	20.0		ug/L		80	59 - 134
Carbon tetrachloride	25.0	21.1		ug/L		84	72 - 134
Chlorobenzene	25.0	21.0		ug/L		84	80 - 120
Chlorodibromomethane	25.0	22.1		ug/L		88	75 - 125
Chloroethane	25.0	23.4		ug/L		94	69 - 136
Chloroform	25.0	20.5		ug/L		82	73 - 127
Chloromethane	25.0	22.5		ug/L		90	68 - 124
cis-1,2-Dichloroethene	25.0	20.9		ug/L		84	74 - 124
cis-1,3-Dichloropropene	25.0	22.0		ug/L		88	74 - 124
Cyclohexane	25.0	20.3		ug/L		81	59 - 135
Dichlorodifluoromethane	25.0	22.3		ug/L		89	59 - 135
Ethylbenzene	25.0	20.4		ug/L		82	77 - 123
Isopropylbenzene	25.0	20.5		ug/L		82	77 - 122
Methyl acetate	125	119		ug/L		95	74 - 133
Methyl tert-butyl ether	25.0	22.2		ug/L		89	77 - 120
Methylcyclohexane	25.0	19.6		ug/L		78	68 - 134
Methylene Chloride	25.0	21.9		ug/L		88	75 - 124
Styrene	25.0	21.5		ug/L		86	80 - 120
Tetrachloroethene	25.0	19.8		ug/L		79	74 - 122
Toluene	25.0	20.6		ug/L		82	80 - 122
trans-1,2-Dichloroethene	25.0	20.4		ug/L		82	73 - 127
trans-1,3-Dichloropropene	25.0	22.7		ug/L		91	80 - 120
Trichloroethene	25.0	20.6		ug/L		82	74 - 123
Trichlorofluoromethane	25.0	22.6		ug/L		90	62 - 150
Vinyl acetate	50.0	47.6		ug/L		95	50 - 144
Vinyl chloride	25.0	23.2		ug/L		93	65 - 133

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*90*		*77 - 120*
4-Bromofluorobenzene (Surr)	*89*		*73 - 120*
Toluene-d8 (Surr)	*88*		*80 - 120*

Lab Sample ID: 480-118206-6 MS
Matrix: Water
Analysis Batch: 359494

Client Sample ID: DUP@MW 4-BR
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	ND		2500	2070		ug/L		83	73 - 126
1,1,2,2-Tetrachloroethane	ND		2500	2060		ug/L		82	76 - 120
1,1,2-Trichloroethane	ND		2500	2080		ug/L		83	76 - 122
1,1,2-Trichlorotrifluoroethane	ND		2500	2080		ug/L		83	61 - 148

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

Lab Sample ID: 480-118206-6 MS
Matrix: Water
Analysis Batch: 359494

Client Sample ID: DUP@MW 4-BR
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethane	ND		2500	2140		ug/L		86	77 - 120
1,1-Dichloroethene	ND		2500	2090		ug/L		84	66 - 127
1,2,4-Trichlorobenzene	ND		2500	1980		ug/L		79	79 - 122
1,2-Dibromo-3-Chloropropane	ND		2500	2150		ug/L		86	56 - 134
1,2-Dibromoethane	ND		2500	2050		ug/L		82	77 - 120
1,2-Dichlorobenzene	ND		2500	2030		ug/L		81	80 - 124
1,2-Dichloroethane	ND		2500	2100		ug/L		84	75 - 120
1,2-Dichloropropane	ND		2500	2150		ug/L		86	76 - 120
1,3-Dichlorobenzene	ND		2500	2030		ug/L		81	77 - 120
1,4-Dichlorobenzene	ND		2500	2030		ug/L		81	78 - 124
2-Butanone (MEK)	ND		12500	11600		ug/L		92	57 - 140
2-Hexanone	ND		12500	11400		ug/L		91	65 - 127
4-Methyl-2-pentanone (MIBK)	ND		12500	11300		ug/L		90	71 - 125
Acetone	ND		12500	11700		ug/L		94	56 - 142
Benzene	ND		2500	2100		ug/L		84	71 - 124
Bromodichloromethane	ND		2500	2020		ug/L		81	80 - 122
Bromoform	ND		2500	2060		ug/L		82	61 - 132
Bromomethane	ND		2500	2300		ug/L		92	55 - 144
Carbon disulfide	ND		2500	1980		ug/L		79	59 - 134
Carbon tetrachloride	ND		2500	2030		ug/L		81	72 - 134
Chlorobenzene	ND		2500	2000		ug/L		80	80 - 120
Chlorodibromomethane	ND		2500	1940		ug/L		78	75 - 125
Chloroethane	ND		2500	2340		ug/L		94	69 - 136
Chloroform	ND		2500	1970		ug/L		79	73 - 127
Chloromethane	ND		2500	2150		ug/L		86	68 - 124
cis-1,2-Dichloroethene	2900		2500	5620		ug/L		107	74 - 124
cis-1,3-Dichloropropene	ND		2500	2050		ug/L		82	74 - 124
Cyclohexane	ND		2500	2220		ug/L		89	59 - 135
Dichlorodifluoromethane	ND		2500	2130		ug/L		85	59 - 135
Ethylbenzene	ND		2500	2000		ug/L		80	77 - 123
Isopropylbenzene	ND		2500	2040		ug/L		82	77 - 122
Methyl acetate	ND		12500	11200		ug/L		90	74 - 133
Methyl tert-butyl ether	ND		2500	2040		ug/L		82	77 - 120
Methylcyclohexane	ND		2500	2060		ug/L		82	68 - 134
Methylene Chloride	ND		2500	2110		ug/L		84	75 - 124
Styrene	ND		2500	2090		ug/L		84	80 - 120
Tetrachloroethene	5500		2500	8300		ug/L		111	74 - 122
Toluene	ND		2500	2070		ug/L		83	80 - 122
trans-1,2-Dichloroethene	ND		2500	2140		ug/L		85	73 - 127
trans-1,3-Dichloropropene	ND	F1	2500	1980	F1	ug/L		79	80 - 120
Trichloroethene	1800		2500	4240		ug/L		97	74 - 123
Trichlorofluoromethane	ND		2500	2210		ug/L		89	62 - 150
Vinyl acetate	ND		5000	4210		ug/L		84	50 - 144
Vinyl chloride	ND		2500	2340		ug/L		94	65 - 133

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*93*		*77 - 120*
4-Bromofluorobenzene (Surr)	*88*		*73 - 120*

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

Lab Sample ID: 480-118206-6 MS
Matrix: Water
Analysis Batch: 359494

Client Sample ID: DUP@MW 4-BR
Prep Type: Total/NA

Surrogate	MS %Recovery	MS Qualifier	Limits
Toluene-d8 (Surr)	89		80 - 120

Lab Sample ID: 480-118206-6 MSD
Matrix: Water
Analysis Batch: 359494

Client Sample ID: DUP@MW 4-BR
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	ND		2500	2080		ug/L		83	73 - 126	0	15
1,1,2,2-Tetrachloroethane	ND		2500	2140		ug/L		86	76 - 120	4	15
1,1,2-Trichloroethane	ND		2500	2070		ug/L		83	76 - 122	0	15
1,1,2-Trichlorotrifluoroethane	ND		2500	2080		ug/L		83	61 - 148	0	20
1,1-Dichloroethane	ND		2500	2100		ug/L		84	77 - 120	2	20
1,1-Dichloroethene	ND		2500	2040		ug/L		82	66 - 127	2	16
1,2,4-Trichlorobenzene	ND		2500	2040		ug/L		82	79 - 122	3	20
1,2-Dibromo-3-Chloropropane	ND		2500	2250		ug/L		90	56 - 134	5	15
1,2-Dibromoethane	ND		2500	2030		ug/L		81	77 - 120	1	15
1,2-Dichlorobenzene	ND		2500	2130		ug/L		85	80 - 124	5	20
1,2-Dichloroethane	ND		2500	2130		ug/L		85	75 - 120	1	20
1,2-Dichloropropane	ND		2500	2150		ug/L		86	76 - 120	0	20
1,3-Dichlorobenzene	ND		2500	2060		ug/L		82	77 - 120	2	20
1,4-Dichlorobenzene	ND		2500	2100		ug/L		84	78 - 124	3	20
2-Butanone (MEK)	ND		12500	11800		ug/L		95	57 - 140	3	20
2-Hexanone	ND		12500	11500		ug/L		92	65 - 127	1	15
4-Methyl-2-pentanone (MIBK)	ND		12500	11300		ug/L		90	71 - 125	0	35
Acetone	ND		12500	11900		ug/L		95	56 - 142	2	15
Benzene	ND		2500	2090		ug/L		84	71 - 124	1	13
Bromodichloromethane	ND		2500	2050		ug/L		82	80 - 122	1	15
Bromoform	ND		2500	2150		ug/L		86	61 - 132	4	15
Bromomethane	ND		2500	2300		ug/L		92	55 - 144	0	15
Carbon disulfide	ND		2500	1970		ug/L		79	59 - 134	1	15
Carbon tetrachloride	ND		2500	2110		ug/L		85	72 - 134	4	15
Chlorobenzene	ND		2500	2010		ug/L		80	80 - 120	0	25
Chlorodibromomethane	ND		2500	2050		ug/L		82	75 - 125	5	15
Chloroethane	ND		2500	2330		ug/L		93	69 - 136	0	15
Chloroform	ND		2500	2030		ug/L		81	73 - 127	3	20
Chloromethane	ND		2500	2180		ug/L		87	68 - 124	1	15
cis-1,2-Dichloroethene	2900		2500	5670		ug/L		109	74 - 124	1	15
cis-1,3-Dichloropropene	ND		2500	2050		ug/L		82	74 - 124	0	15
Cyclohexane	ND		2500	2190		ug/L		88	59 - 135	1	20
Dichlorodifluoromethane	ND		2500	2050		ug/L		82	59 - 135	4	20
Ethylbenzene	ND		2500	1980		ug/L		79	77 - 123	1	15
Isopropylbenzene	ND		2500	2100		ug/L		84	77 - 122	3	20
Methyl acetate	ND		12500	11500		ug/L		92	74 - 133	3	20
Methyl tert-butyl ether	ND		2500	2070		ug/L		83	77 - 120	1	37
Methylcyclohexane	ND		2500	2020		ug/L		81	68 - 134	2	20
Methylene Chloride	ND		2500	2100		ug/L		84	75 - 124	0	15
Styrene	ND		2500	2030		ug/L		81	80 - 120	3	20
Tetrachloroethene	5500		2500	8260		ug/L		109	74 - 122	1	20

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

Lab Sample ID: 480-118206-6 MSD
Matrix: Water
Analysis Batch: 359494

Client Sample ID: DUP@MW 4-BR
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Toluene	ND		2500	2020		ug/L		81	80 - 122	3	15
trans-1,2-Dichloroethene	ND		2500	2100		ug/L		84	73 - 127	2	20
trans-1,3-Dichloropropene	ND	F1	2500	2060		ug/L		82	80 - 120	4	15
Trichloroethene	1800		2500	4220		ug/L		96	74 - 123	0	16
Trichlorofluoromethane	ND		2500	2220		ug/L		89	62 - 150	0	20
Vinyl acetate	ND		5000	4230		ug/L		85	50 - 144	0	23
Vinyl chloride	ND		2500	2340		ug/L		94	65 - 133	0	15

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*93*		*77 - 120*
4-Bromofluorobenzene (Surr)	*87*		*73 - 120*
Toluene-d8 (Surr)	*89*		*80 - 120*

GC/MS VOA

Analysis Batch: 359274

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-118206-1	MW 2-BR	Total/NA	Water	8260C	
480-118206-2	MW 3-BR	Total/NA	Water	8260C	
480-118206-7	TRIP BLANK	Total/NA	Water	8260C	
MB 480-359274/6	Method Blank	Total/NA	Water	8260C	
LCS 480-359274/4	Lab Control Sample	Total/NA	Water	8260C	

Analysis Batch: 359421

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-118206-2 - DL	MW 3-BR	Total/NA	Water	8260C	
MB 480-359421/6	Method Blank	Total/NA	Water	8260C	
LCS 480-359421/4	Lab Control Sample	Total/NA	Water	8260C	

Analysis Batch: 359427

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-118206-3	MW 4-BR	Total/NA	Water	8260C	
480-118206-4	MW 5-BR	Total/NA	Water	8260C	
MB 480-359427/6	Method Blank	Total/NA	Water	8260C	
LCS 480-359427/4	Lab Control Sample	Total/NA	Water	8260C	
480-118206-4 MS	MW 5-BR	Total/NA	Water	8260C	
480-118206-4 MSD	MW 5-BR	Total/NA	Water	8260C	

Analysis Batch: 359429

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-118206-5	MW 5A-BR	Total/NA	Water	8260C	
MB 480-359429/6	Method Blank	Total/NA	Water	8260C	
LCS 480-359429/4	Lab Control Sample	Total/NA	Water	8260C	

Analysis Batch: 359479

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-118206-6	DUP@MW 4-BR	Total/NA	Water	8260C	
MB 480-359479/7	Method Blank	Total/NA	Water	8260C	
LCS 480-359479/27	Lab Control Sample	Total/NA	Water	8260C	

Analysis Batch: 359485

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-118206-3 - DL	MW 4-BR	Total/NA	Water	8260C	
MB 480-359485/6	Method Blank	Total/NA	Water	8260C	
LCS 480-359485/4	Lab Control Sample	Total/NA	Water	8260C	

Analysis Batch: 359494

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-118206-6 - DL	DUP@MW 4-BR	Total/NA	Water	8260C	
MB 480-359494/7	Method Blank	Total/NA	Water	8260C	
LCS 480-359494/4	Lab Control Sample	Total/NA	Water	8260C	
480-118206-6 MS	DUP@MW 4-BR	Total/NA	Water	8260C	
480-118206-6 MSD	DUP@MW 4-BR	Total/NA	Water	8260C	

QC Association Summary

Client: Environmental Sampling & Services Inc
Project/Site: Buffalo Business Park

TestAmerica Job ID: 480-118206-1

Field Service / Mobile Lab

Analysis Batch: 358505

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-118206-1	MW 2-BR	Total/NA	Water	Field Sampling	
480-118206-2	MW 3-BR	Total/NA	Water	Field Sampling	
480-118206-3	MW 4-BR	Total/NA	Water	Field Sampling	
480-118206-4	MW 5-BR	Total/NA	Water	Field Sampling	
480-118206-5	MW 5A-BR	Total/NA	Water	Field Sampling	
480-118206-6	DUP@MW 4-BR	Total/NA	Water	Field Sampling	

Lab Chronicle

Client: Environmental Sampling & Services Inc
Project/Site: Buffalo Business Park

TestAmerica Job ID: 480-118206-1

Client Sample ID: MW 2-BR
Date Collected: 05/18/17 07:59
Date Received: 05/18/17 10:05

Lab Sample ID: 480-118206-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		40	359274	05/26/17 18:53	ARS	TAL BUF
Total/NA	Analysis	Field Sampling		1	358505	05/18/17 07:59	FLD	TAL BUF

Client Sample ID: MW 3-BR
Date Collected: 05/18/17 07:45
Date Received: 05/18/17 10:05

Lab Sample ID: 480-118206-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		100	359274	05/26/17 19:20	ARS	TAL BUF
Total/NA	Analysis	8260C	DL	200	359421	05/27/17 18:54	JAS	TAL BUF
Total/NA	Analysis	Field Sampling		1	358505	05/18/17 07:45	FLD	TAL BUF

Client Sample ID: MW 4-BR
Date Collected: 05/18/17 07:30
Date Received: 05/18/17 10:05

Lab Sample ID: 480-118206-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		40	359427	05/27/17 17:43	ARS	TAL BUF
Total/NA	Analysis	8260C	DL	100	359485	05/27/17 22:05	NEA	TAL BUF
Total/NA	Analysis	Field Sampling		1	358505	05/18/17 07:30	FLD	TAL BUF

Client Sample ID: MW 5-BR
Date Collected: 05/18/17 08:15
Date Received: 05/18/17 10:05

Lab Sample ID: 480-118206-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		80	359427	05/27/17 18:06	ARS	TAL BUF
Total/NA	Analysis	Field Sampling		1	358505	05/18/17 08:15	FLD	TAL BUF

Client Sample ID: MW 5A-BR
Date Collected: 05/18/17 07:18
Date Received: 05/18/17 10:05

Lab Sample ID: 480-118206-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		100	359429	05/27/17 12:32	ARS	TAL BUF
Total/NA	Analysis	Field Sampling		1	358505	05/18/17 07:18	FLD	TAL BUF

Lab Chronicle

Client: Environmental Sampling & Services Inc
Project/Site: Buffalo Business Park

TestAmerica Job ID: 480-118206-1

Client Sample ID: DUP@MW 4-BR

Lab Sample ID: 480-118206-6

Date Collected: 05/18/17 07:31
Matrix: Water
Date Received: 05/18/17 10:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		40	359479	05/28/17 07:47	RJF	TAL BUF
Total/NA	Analysis	8260C	DL	100	359494	05/28/17 19:02	RJF	TAL BUF
Total/NA	Analysis	Field Sampling		1	358505	05/18/17 07:31	FLD	TAL BUF

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-118206-7

Date Collected: 05/18/17 07:15
Matrix: Water
Date Received: 05/18/17 10:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	359274	05/26/17 19:47	ARS	TAL BUF

Laboratory References:

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

Accreditation/Certification Summary

Client: Environmental Sampling & Services Inc
Project/Site: Buffalo Business Park

TestAmerica Job ID: 480-118206-1

Laboratory: TestAmerica Buffalo

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	10026	03-31-18

The following analytes are included in this report, but accreditation/certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
8260C		Water	1,2-Dichloroethene, Total
Field Sampling		Water	Depth to Water from Top of Casing
Field Sampling		Water	Field pH
Field Sampling		Water	Oxidation Reduction Potential
Field Sampling		Water	Specific Conductance
Field Sampling		Water	Temperature
Field Sampling		Water	Turbidity
Field Sampling		Water	Water Depth

Method Summary

Client: Environmental Sampling & Services Inc
Project/Site: Buffalo Business Park

TestAmerica Job ID: 480-118206-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF
Field Sampling	Field Sampling	EPA	TAL BUF

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

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

Sample Summary

Client: Environmental Sampling & Services Inc
Project/Site: Buffalo Business Park

TestAmerica Job ID: 480-118206-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-118206-1	MW 2-BR	Water	05/18/17 07:59	05/18/17 10:05
480-118206-2	MW 3-BR	Water	05/18/17 07:45	05/18/17 10:05
480-118206-3	MW 4-BR	Water	05/18/17 07:30	05/18/17 10:05
480-118206-4	MW 5-BR	Water	05/18/17 08:15	05/18/17 10:05
480-118206-5	MW 5A-BR	Water	05/18/17 07:18	05/18/17 10:05
480-118206-6	DUP@MW 4-BR	Water	05/18/17 07:31	05/18/17 10:05
480-118206-7	TRIP BLANK	Water	05/18/17 07:15	05/18/17 10:05

Quantitation Limit Exceptions Summary

Client: Environmental Sampling & Services Inc
Project/Site: Buffalo Business Park

TestAmerica Job ID: 480-118206-1

The requested project specific reporting limits listed below were less than laboratory standard quantitation limits (PQL) but greater than or equal to the laboratory method detection limits (MDL). It must be noted that results reported below lab standard quantitation limits may result in false positive/false negative values and less accurate quantitation. Routine laboratory procedures do not indicate corrective action for detections below the laboratory's PQL.

Method	Matrix	Analyte	Units	Client RL	Lab PQL
8260C	Water	Methyl acetate	ug/L	1.0	2.5

TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone (716) 691-2600 Fax (716) 691-7991

5-18-17

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler:	Lab PM: VanDette, Ryan T	Carrier Tracking No(s):	COC No: 480-97342-2266.1
Client Contact: Robert Chiodo	Phone:	E-Mail: ryan.vandette@testamericainc.com		Page: Page 1 of 1
Company: Environmental Sampling & Services Inc		**Analysis Requested**		Job #:
Address: 7183 Balla Drive	Due Date Requested:			Preservation Codes:
City: North Tonawanda	TAT Requested (days):			A - HCL M - Hexane B - NaOH N - None C - Zn D - Ni E - N F - Mi G - A H - A I - Ice J - DI K - E L - EL
State, Zip: NY, 14120				
Phone: 716-807-0482(Tel)	PO #: Purchase Order not requir			
Email: ess@roadrunner.com	WO #:			480-118206 COC
Project Name: Buffalo Business Park/ Event Desc: Buffalo Business Park	Project #: 48004043			Other:
Site: New York	SSOW#:			

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	FieldSampling - (MOD) pH,Cond,Temp,DO,ORP,GWElv	8260C - (MOD) TCL list OLM04.2	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	A		
MW 2-BR	5-18-17	7:59	G	Water			X	X	2	
MW 3-BR		7:45	G	Water			X	X	2	
MW 4-BR		7:30	G	Water			X	X	2	
MW 5-BR		8:15	G	Water			X	X	2	
MW 5A-BR		7:18	G	Water			X	X	2	
DUP@MW 4-BR		7:31	G	Water			X	X	2	
_____MS ② MW 5-BR		8:15	G	Water			X	X	2	
_____SD ② MW-5-BR		8:15	G	Water			X	X	2	
TRIP BLANK	5-18-17	7:15	G	Water				X	2	

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

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

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

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:		
Relinquished by:	Date/Time: 5/18/17- 10:05	Company ES+S	Received by:	Date/Time: 5/18/17 1005	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks: 0.9 #1

Page 58 of 60

5/31/2017

TABLE I **BUFFALO BUSINESS PARK** **FIELD INFORMATION**

SAMPLE ID #	PURGE DATE	DEPTH TO WATER (FT.) *	DEPTH TO BOTTOM (FT.) *	SAMPLE DATE	pH (S.U.)	SPEC. CONDUCT. (umhos/cm)	TEMP. (C)	TURB. (NTU)	eH (ppm)
MW - 2 BR	5/17/17	4.42	26.55	5/18/17	7.63	965	15.7	3.06	-22.2
MW - 3 BR	5/17/17	15.82	28.60	5/18/17	7.33	1992	14.0	14.80	-4.6
MW - 4 BR	5/17/17	24.05	27.75	5/18/17	7.13	1135	15.8	3.78	+5.8
MW - 5 BR	5/17/17	13.61	26.70	5/18/17	7.10	2260	14.6	4.18	+6.7
MW - 5A BR	5/17/17	19.50	25.40	5/18/17	7.12	4010	15.2	22.10	+6.1

* FROM THE TOP OF RISER

Login Sample Receipt Checklist

Client: Environmental Sampling & Services Inc

Job Number: 480-118206-1

Login Number: 118206
List Number: 1
Creator: Kolb, Chris M

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	ES&S
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	

APPENDIX C

FIELD DATA

TABLE I BUFFALO BUSINESS PARK FIELD INFORMATION

SAMPLE ID #	PURGE DATE	DEPTH TO WATER (FT.) *	DEPTH TO BOTTOM (FT.) *	SAMPLE DATE	pH (S.U.)	SPEC. CONDUCT. (umhos/cm)	TEMP. (C)	TURB. (NTU)	eH (ppm)
MW - 2 BR	5/17/17	4.42	26.55	5/18/17	7.63	965	15.7	3.06	-22.2
MW - 3 BR	5/17/17	15.82	28.60	5/18/17	7.33	1992	14.0	14.80	-4.6
MW - 4 BR	5/17/17	24.05	27.75	5/18/17	7.13	1135	15.8	3.78	+5.8
MW - 5 BR	5/17/17	13.61	26.70	5/18/17	7.10	2260	14.6	4.18	+6.7
MW - 5A BR	5/17/17	19.50	25.40	5/18/17	7.12	4010	15.2	22.10	+6.1

* FROM THE TOP OF RISER

FIELD INFORMATION LOG

SITE NAME: BUFFALO BUSINESS PARK **POINT ID:** TRIP BLANK

LOCATION: BUFFALO, NEW YORK **FIELD REPRESENTATIVE:** E S & S - R.CHIODO

SAMPLE MATRIX: DEIONIZED WATER **LAB SAMPLE / PROJECT #:** NA

EVACUATION INFORMATION

INITIAL WATER LEVEL (FEET) _____ DEPTH TO BOTTOM (FEET) _____

ELEVATION, MEAS.PT.(MSL): _____ ELEVATION, G/W (MSL): _____

DATE _____ TIME: START/FINISH _____ / _____

METHOD OF EVACUATION:
( ) PVC BAILER ( ) S.S. BAILER ( ) GRUNDFOS PUMP
( ) S.S. BAILER ( ) WELL WIZARD ( ) OTHER

EVACUATION EQUIPMENT DEDICATED:
( ) YES ( ) NO

WELL RISER DIAMETER (IN.):( ) 2 ( ) 3 ( ) 4 ( ) 6 ( ) OTHER _____

ONE (1) RISER VOLUME (GAL) _____ WAS WELL PURGED TO DRYNESS ( ) YES ( ) NO

TOTAL VOLUME EVACUATED (GAL) _____ WATER LEVEL AFTER PURGE (FT.) _____

TURBIDITY OF PURGINGS : START _____ FINISH _____

EVACUATION STABILIZATION DATA

TIME	PURGE RATE (gpm/htz)	CUMULATIVE VOLUME	TEMP. (C)	pH (Std.Units)	SPEC. CONDUCTANCE (umhos/cm)	TURBIDITY (NTU)	OTHER [eh (mV)]

SAMPLING INFORMATION

DATE / TIME 5-18-17 / 7:15 WATER LEVEL PRIOR TO SAMLING (FT.) NA

METHOD OF SAMPLING:
( ) PVC BAILER ( ) S.S. BAILER ( ) GRUNDFOS PUMP
( ) S.S. BAILER ( ) WELL WIZARD (X) OTHER

SAMPLING EQUIPMENT DEDICATED:
( ) YES
(X) NO

SAMPLING FIELD MEASUREMENT DATA

TIME	pH (Std.Units)	SPEC. CONDUCT (umhos/cm)	TEMP. (C)	TURBIDITY (NTU)	eH (mV)	DISS. OXY. (PPM)	OTHER ( )
NA	NA	NA	NA	NA	NA	NA	NA

GENERAL INFORMATION

WEATHER CONDITIONS AT TIME OF SAMPLING: Cloudy, 75°F

SAMPLE CHARACTERISTICS: CLEAR

COMMENTS: TCL VOLATILES ONLY

SAMPLE COLLECTION NUMBER 1

FIELD INFORMATION LOG

SITE NAME: BUFFALO BUSINESS PARK **POINT ID:** MW - 5A BR

LOCATION: BUFFALO, NEW YORK **FIELD REPRESENTATIVE:** E S & S - R.CHIODO

SAMPLE MATRIX: GROUNDWATER **LAB SAMPLE / PROJECT #:** NA

EVACUATION INFORMATION

INITIAL WATER LEVEL (FEET) 19.50 DEPTH TO BOTTOM (FEET 25.40

ELEVATION, MEAS.PT.(MSL): 619.76 ELEVATION, G/W (MSL): 600.26

DATE 5-17-17 TIME: START/FINISH NA / NA

METHOD OF EVACUATION:
( ) PVC BAILER ( ) WELL WIZARD ( ) OTHER
( ) S.S. BAILER (X) GRUNDFOS PUMP

EVACUATION EQUIPMENT DEDICATED:
(X) YES ( ) NO

WELL RISER DIAMETER (IN.): ( ) 2 ( ) 3 (X) 4 ( ) 6 ( ) OTHER _____

ONE (1) RISER VOLUME (GAL) NA WAS WELL PURGED TO DRYNESS ( ) YES (X) NO

TOTAL VOLUME EVACUATED (GAL) NA WATER LEVEL AFTER PURGE (FT.) NA

TURBIDITY OF PURGINGS : START NA FINISH NA

EVACUATION STABILIZATION DATA

TIME	PURGE RATE (gpm/htz)	CUMULATIVE VOLUME	TEMP. (C)	pH (Std.Units)	SPEC. CONDUCTANCE (umhos/cm)	TURBIDITY (NTU)	OTHER [eh (mV)]

SAMPLING INFORMATION

DATE / TIME 5-18-17 / 7:18 WATER LEVEL PRIOR TO SAMLING (FT.) 1.20

METHOD OF SAMPLING:
(X) PVC BAILER ( ) WELL WIZARD ( ) OTHER
( ) S.S. BAILER ( ) GRUNDFOS PUMP

SAMPLING EQUIPMENT DEDICATED:
(X) YES
( ) NO

SAMPLING FIELD MEASUREMENT DATA

TIME	pH (Std.Units)	SPEC. CONDUCT (umhos/cm)	TEMP. (C)	TURBIDITY (NTU)	eH (mV)	DISS. OXY. (PPM)	OTHER ( )
7:20	7.12	4010	15.2	22.10	+6.1	NA	NA

GENERAL INFORMATION

WEATHER CONDITIONS AT TIME OF SAMPLING: CLOUDY, 75°F

SAMPLE CHARACTERISTICS: CLEAR-BLACK TINT

COMMENTS: CONTINUOUS PUMPING WELL

TCL VOLATILES ONLY

SAMPLE COLLECTION NUMBER 2

FIELD INFORMATION LOG

SITE NAME: BUFFALO BUSINESS PARK **POINT ID:** MW - 4 BR

LOCATION: BUFFALO, NEW YORK **FIELD REPRESENTATIVE:** E S & S - R.CHIODO

SAMPLE MATRIX: GROUNDWATER **LAB SAMPLE / PROJECT #:** NA

EVACUATION INFORMATION

INITIAL WATER LEVEL (FEET) 24.05 DEPTH TO BOTTOM (FEET 27.75

ELEVATION, MEAS.PT.(MSL): 622.79 ELEVATION, G/W (MSL): 598.74

DATE 5-17-17 TIME: START/FINISH NA / NA

METHOD OF EVACUATION:
( ) PVC BAILER ( ) WELL WIZARD ( ) OTHER
( ) S.S. BAILER (X) GRUNDFOS PUMP

EVACUATION EQUIPMENT DEDICATED:
(X) YES ( ) NO

WELL RISER DIAMETER (IN.): ( ) 2 ( ) 3 (X) 4 ( ) 6 ( ) OTHER _____

ONE (1) RISER VOLUME (GAL) NA WAS WELL PURGED TO DRYNESS ( ) YES (X) NO

TOTAL VOLUME EVACUATED (GAL) NA WATER LEVEL AFTER PURGE (FT.) NA

TURBIDITY OF PURGINGS : START NA FINISH NA

EVACUATION STABILIZATION DATA

TIME	~~PURGE RATE~~ (gpm/htz)	~~CUMULATIVE~~ VOLUME	TEMP. (C)	pH (Std Units)	SPEC. CONDUCTANCE (umhos/cm)	TURBIDITY (NTU)	OTHER [eh (mV)]

SAMPLING INFORMATION

DATE / TIME 5-18-17 / 7:30 & 7:31 WATER LEVEL PRIOR TO SAMLING (FT.) 4.43

METHOD OF SAMPLING:
(X) PVC BAILER ( ) WELL WIZARD ( ) OTHER
( ) S.S. BAILER ( ) GRUNDFOS PUMP

SAMPLING EQUIPMENT DEDICATED:
(X) YES
( ) NO

SAMPLING FIELD MEASUREMENT DATA

TIME	pH (Std.Units)	SPEC. CONDUCT (umhos/cm)	TEMP. (C)	TURBIDITY (NTU)	eH (mV)	DISS. OXY. (PPM)	OTHER ( )
7:33	7.13	1135	15.8	3.78	+5.8	NA	NA

GENERAL INFORMATION

WEATHER CONDITIONS AT TIME OF SAMPLING: Cloudy, 75°F

SAMPLE CHARACTERISTICS: CLEAR

COMMENTS: CONTINUOUS PUMPING WELL TCL VOLATILES ONLY

DUP TAKEN (#4 @ 7:31)

SAMPLE COLLECTION NUMBER 3 & 4

FIELD INFORMATION LOG

SITE NAME: BUFFALO BUSINESS PARK **POINT ID:** MW - 3 BR

LOCATION: BUFFALO, NEW YORK **FIELD REPRESENTATIVE:** E S & S - R.CHIODO

SAMPLE MATRIX: GROUNDWATER **LAB SAMPLE / PROJECT #:** NA

EVACUATION INFORMATION

INITIAL WATER LEVEL (FEET) 15.82 DEPTH TO BOTTOM (FEET 28.60

ELEVATION, MEAS.PT.(MSL): 623.99 ELEVATION, G/W (MSL): 608.17

DATE 5-17-17 TIME: START/FINISH /

METHOD OF EVACUATION:
( ) PVC BAILER ( ) WELL WIZARD ( ) OTHER
( ) S.S. BAILER (X) GRUNDFOS PUMP

EVACUATION EQUIPMENT DEDICATED:
(X) YES ( ) NO

WELL RISER DIAMETER (IN.): ( ) 2 ( ) 3 (X) 4 ( ) 6 ( ) OTHER

ONE (1) RISER VOLUME (GAL) NA WAS WELL PURGED TO DRYNESS ( ) YES (X) NO

TOTAL VOLUME EVACUATED (GAL) NA WATER LEVEL AFTER PURGE (FT.) NA

TURBIDITY OF PURGINGS : START NA FINISH NA

EVACUATION STABILIZATION DATA

TIME	PURGE RATE (gpm/htz)	CUMULATIVE VOLUME	TEMP. (C)	pH (Std.Units)	SPEC. CONDUCTANCE (umhos/cm)	TURBIDITY (NTU)	OTHER [eh (mV)]

SAMPLING INFORMATION

DATE / TIME 5-18-17 / 7:45 WATER LEVEL PRIOR TO SAMLING (FT.) 4.79

METHOD OF SAMPLING:
(X) PVC BAILER ( ) WELL WIZARD ( ) GRUNDFOS PUMP
( ) S.S. BAILER ( ) WELL WIZARD ( ) OTHER

SAMPLING EQUIPMENT DEDICATED:
(X) YES
( ) NO

SAMPLING FIELD MEASUREMENT DATA

TIME	pH (Std.Units)	SPEC. CONDUCT (umhos/cm)	TEMP. (C)	TURBIDITY (NTU)	eH (mV)	DISS. OXY. (PPM)	OTHER ( )
7:47	7.33	1992	14.0	14.80	-4.6	NA	NA

GENERAL INFORMATION

WEATHER CONDITIONS AT TIME OF SAMPLING: CLOUDY, 75°F

SAMPLE CHARACTERISTICS: CLEAR - BLACK TINT

COMMENTS: CONTINUOUS PUMPING WELL

TCL VOLATILES ONLY

SAMPLE COLLECTION NUMBER 5

FIELD INFORMATION LOG

SITE NAME: BUFFALO BUSINESS PARK **POINT ID:** MW - 2 BR

LOCATION: BUFFALO, NEW YORK **FIELD REPRESENTATIVE:** E S & S - R.CHIODO

SAMPLE MATRIX: GROUNDWATER **LAB SAMPLE / PROJECT #:** NA

EVACUATION INFORMATION

INITIAL WATER LEVEL (FEET) 4.42 DEPTH TO BOTTOM (FEET 26.55

ELEVATION, MEAS.PT.(MSL): 625.04 ELEVATION, G/W (MSL): 620.62

DATE 5-17-17 TIME: START/FINISH 9:06 / 9:20

METHOD OF EVACUATION:
( ) PVC BAILER ( ) WELL WIZARD ( ) OTHER
( ) S.S. BAILER (X) 12 VOLT PUMP

EVACUATION EQUIPMENT DEDICATED:
( ) YES (X) NO

WELL RISER DIAMETER (IN.): ( ) 2 ( ) 3 (X) 4 ( ) 6 ( ) OTHER _____

ONE (1) RISER VOLUME (GAL) 14.38 WAS WELL PURGED TO DRYNESS (X) YES ( ) NO

TOTAL VOLUME EVACUATED (GAL) DRY @ 15 WATER LEVEL AFTER PURGE (FT.) DRY

TURBIDITY OF PURGINGS : START CLEAR - AMBER FINISH TURB.D - AMBER

EVACUATION STABILIZATION DATA

TIME	PURGE RATE (gpm/htz)	CUMULATIVE VOLUME	TEMP. (C)	pH (Std.Units)	SPEC. CONDUCTANCE (umhos/cm)	TURBIDITY (NTU)	OTHER [eh (mV)]

SAMPLING INFORMATION

DATE / TIME 5-18-17 / 7:59 WATER LEVEL PRIOR TO SAMLING (FT.) 18.01

METHOD OF SAMPLING:
(X) PVC BAILER ( ) WELL WIZARD ( ) OTHER
( ) S.S. BAILER ( ) GRUNDFOS PUMP

SAMPLING EQUIPMENT DEDICATED:
(X) YES
( ) NO

SAMPLING FIELD MEASUREMENT DATA

TIME	pH (Std.Units)	SPEC. CONDUCT (umhos/cm)	TEMP. (C)	TURBIDITY (NTU)	eH (mV)	DISS. OXY. (PPM)	OTHER ( )
8:01	7.63	965	15.7	3.06	-22.2	NA	NA

GENERAL INFORMATION

WEATHER CONDITIONS AT TIME OF SAMPLING: CLOUDY, 75 °F

SAMPLE CHARACTERISTICS: CLEAR

COMMENTS: TCL VOLATILES ONLY

SAMPLE COLLECTION NUMBER 6

FIELD INFORMATION LOG

SITE NAME: BUFFALO BUSINESS PARK **POINT ID:** MW - 5 BR

LOCATION: BUFFALO, NEW YORK **FIELD REPRESENTATIVE:** E S & S - R.CHIODO

SAMPLE MATRIX: GROUNDWATER **LAB SAMPLE / PROJECT #:** NA

EVACUATION INFORMATION

INITIAL WATER LEVEL (FEET) 13.61 DEPTH TO BOTTOM (FEET 26.70

ELEVATION, MEAS.PT.(MSL): 622.42 ELEVATION, G/W (MSL): 608.81

DATE 5-17-17 TIME: START/FINISH 9:35 / 9:45

METHOD OF EVACUATION:
( ) PVC BAILER ( ) WELL WIZARD ( ) OTHER
( ) S.S. BAILER (X) 12 VOLT PUMP

EVACUATION EQUIPMENT DEDICATED:
( ) YES (X) NO

WELL RISER DIAMETER (IN.): (X) 2 ( ) 3 ( ) 4 ( ) 6 ( ) OTHER _____

ONE (1) RISER VOLUME (GAL) 2.09 WAS WELL PURGED TO DRYNESS ( ) YES ( ) NO

TOTAL VOLUME EVACUATED (GAL) 7.00 WATER LEVEL AFTER PURGE (FT.) 25.72

TURBIDITY OF PURGINGS : START CLEAR FINISH CLEAR

EVACUATION STABILIZATION DATA

TIME	PURGE RATE (gpm/htz)	CUMULATIVE VOLUME	TEMP. (C)	pH (Std.Units)	SPEC. CONDUCTANCE (umhos/cm)	TURBIDITY (NTU)	OTHER [eh (mV)]

SAMPLING INFORMATION

DATE / TIME 5-18-17 / 8:15 WATER LEVEL PRIOR TO SAMLING (FT.) 5.42

METHOD OF SAMPLING:
(X) PVC BAILER ( ) WELL WIZARD ( ) OTHER
( ) S.S. BAILER ( ) GRUNDFOS PUMP

SAMPLING EQUIPMENT DEDICATED:
(X) YES
( ) NO

SAMPLING FIELD MEASUREMENT DATA

TIME	pH (Std.Units)	SPEC. CONDUCT (umhos/cm)	TEMP. (C)	TURBIDITY (NTU)	eH (mV)	DISS. OXY. (PPM)	OTHER ( )
8:17	7.10	2260	14.6	4.18	+6.7	NA	NA

GENERAL INFORMATION

WEATHER CONDITIONS AT TIME OF SAMPLING: CLOUDY, 75 °F

SAMPLE CHARACTERISTICS: CLEAR

COMMENTS: TCL VOLATILES ONLY

MS / SD TAKEN

SAMPLE COLLECTION NUMBER 7

APPENDIX D

SUB-SLAB DEPRESSURIZATION CERTIFICATION FORM

Form A
Buffalo Business Park
Sub Slab Depressurization System Log Sheet

Date: 9/1/17 Time: 10:00 AM

Checked by: ANDREW TERRAGNOLI

Vent #1
Power on: Y X N _____ If no provide reason:

_____

When was problem corrected?_____

Fan operational: Y X N _____ If no provide reason:

_____

When was problem corrected?_____

Vent #2
Power on: Y X N _____ If no provide reason:

_____

When was problem corrected?_____

Fan operational: Y X N _____ If no provide reason:

_____

When was problem corrected?_____