APTIM
500 Penn Center Blvd., Suite 900
Pittsburgh, PA 15235
Tel: 412.372.7701
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September 17, 2020

Project No. 631010526

Steven Moeller, P.G.
Engineering Geologist
New York State Department of Environmental Conservation
Division of Environmental Remediation
270 Michigan Avenue
Buffalo, NY 14203

Re: ***Off-Site System Performance Review***
Former Bell Aerospace Textron Facility
Textron Inc., Wheatfield Site No. 932052
Wheatfield, New York

Dear Mr. Moeller:

THESE ARE TRANSMITTED as checked below:

- ☐ Per Your Request
- ☒ For Your Files
- ☐ For Approval
- ☐ For Your Review & Comment
- ☐ For Your Use
- ☐ _____

Enclosed please find the *Semiannual Off-site System Performance Review* for the former Bell Aerospace facility located in Wheatfield, New York.

If you have any comments or questions regarding this submittal, please do not hesitate to contact me.

Sincerely:

Paul J. Bauer
Project Manager
412.858.1594
Paul.Bauer@aptim.com

PJB:lmk
Enclosures

cc: Ms. Charlotte Bethoney, NYSDOH
Mr. Stephen Lawrence, NYSDOH
Mr. Greg Simpson, Textron

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September 17, 2020

Project No. 631013326

Steven Moeller, P.G.
Engineering Geologist
New York State Department of Environmental Conservation
Division of Environmental Remediation
270 Michigan Avenue
Buffalo, NY 14203

Subject: ***Off-Site System Performance Review***
Textron Inc.
Wheatfield, New York
New York State Site No. 932052

Dear Mr. Radon:

On behalf of Textron Inc. (Textron), Aptim Environmental & Infrastructure, LLC (APTIM) has prepared this assessment of the data collected as part of the extended pilot shutdown of Extraction Well EW-5. Pursuant to the New York State Department of Environmental Conservation's (NYSDEC) electronic mail of July 22, 2013, Extraction Well EW-5 was taken off line on September 5, 2013 as part of the evaluation regarding the ability of the three northernmost extraction wells to control the prevailing southerly groundwater migration. Groundwater conditions at the site have been monitored, and key well locations were sampled for volatile organic compounds (VOCs) bi-annually since 2013 as part of this extended pilot study. The groundwater analytical data from the September 2019 event were presented in the *2019 Annual Summary and Site Maintenance and Monitoring Report* that was submitted on April 29, 2020. The June 2020 groundwater analytical data are summarized in Table 1; the complete analytical data package is included as Attachment A.

Groundwater quality samples were collected from the Off-Site System extraction wells (EW-2, EW-3, EW-4, EW-5, and EW-6) and Monitoring Well 93-03(1) on June 29, 2020. The June 2020 groundwater field sampling sheets are included as Attachment B.

Between June 26 and 28, 2020, the area received approximately 0.50 inch of rain which slightly elevated the groundwater table across the site. Based upon field gauging data, the cone of depression and zone of influence for this monitoring event remain consistent with previous observations. The June groundwater elevations for the Off-Site System are shown on Figure 1.

The October 2011 analytical data were used as a baseline for comparison because this sampling event was completed prior to the initial shutdown of Extraction Well EW-5. As shown below, groundwater quality in all five of the extraction wells demonstrates significant decreases in total VOC concentrations after Extraction Well EW-5 was taken off line. Total VOC concentrations at Extraction Well EW-6 decreased

from 61.41 micrograms per liter (µg/L) to 18.50 µg/L between the baseline and June 2020 sampling events, which is the first decrease in VOCs recorded in comparison to the baseline sampling event since October 2011. The decrease in VOC concentrations from 2011 to 2020 in the five extraction wells ranged from 69.87 percent (EW-6) to 98.45 percent (EW-5). The analytical results are shown graphically on Figure 2.

Extraction Well Location	Decrease in VOC Concentration - 2011 to 2020
EW-2	97.26 %
EW-3	82.52 %
EW-4	95.55 %
EW-5	98.45 %
EW-6	69.87 %

The sample results indicate that all VOC concentrations were below the laboratory reporting limit, and therefore, below the New York State Groundwater Guidance Values for the sample collected from Monitoring Well 93-03(1).

Based on the groundwater capture and the continued observation of decreases in total VOC concentrations in the Off-Site System, the pilot study continues to be successful. The extraction well system is creating the expected zone of influence in the area of the Off-Site System as shown on the attached Figure 1. Three operational extraction wells not only provide hydraulic control but are capable of drawing the leading edge of the plume northward (as has been requested by the NYSDEC).

Based upon these results, Textron respectfully requests that Extraction Well EW-5 continue to remain off line. The next bi-annual groundwater sampling event is scheduled for October 2020. The analytical and gauging results will continue to be examined and the performance of the Off-Site System assessed and reported to the NYSDEC in the *2020 Annual Summary and Site Maintenance and Monitoring Report*.

APTIM and Textron appreciate the NYSDEC's consideration of these matters. If there are any questions or concerns, please feel free to contact Greg Simpson at (401) 457-2635 or myself at (412) 858-1594 or via electronic mail to paul.bauer@aptim.com.

Sincerely,

Paul Bauer
Project Manager
paul.bauer@aptim.com

PJB:lmk
Attachments: Table
Figures
Attachment A – Analytical Report
Attachment B – Field Sampling Sheets

cc: Mr. Stephen Lawrence – NYSDOH
Ms. Charlotte Bethoney – NYSDOH
Mr. Greg Simpson – Textron, e-copy

.

Table

Table 1
Summary of Groundwater Analytical Data
Former Textron Inc., Wheatfield, NY
June 2020

Sample Location:		93-03(1)	93-03(1)	93-03(1)	93-03(1)	EW-2	EW-3	EW-4	EW-5	EW-6	TRIP BLANK
Sample ID:		BAT-93-03(1)-200629	BAT-DUP-200629	BAT-93-03(1)-200629 MS	BAT-93-03(1)-200629 MSD	BAT-EW-2-200629	BAT-EW-3-200629	BAT-EW-4-200629	BAT-EW-5-200629	BAT-EW-6-200629	BAT-TB-200629
Sample Date:		6/29/2020	6/29/2020	6/29/2020	6/29/2020	6/29/2020	6/29/2020	6/29/2020	6/29/2020	6/29/2020	6/29/2020
Parameter	**Units**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
VOCs by USEPA Method 8260				Matrix Spike % Rec. QC Limit	Matrix Spike Duplicate % Rec. QC Limit						
1,1,1-Trichloroethane	µg/L	< 1	< 1	97, 73-126	101, 73-126	**2.3**	**9.6**	< 1	< 1	< 1	< 1
1,1,2,2-Tetrachloroethane		< 1	< 1	108, 76-120	109, 76-120	< 1	< 1	< 1	< 1	< 1	< 1
1,1,2-Trichloroethane		< 1	< 1	110, 76-122	106, 76-122	< 1	< 1	< 1	< 1	< 1	< 1
1,1-Dichloroethane		< 1	< 1	105, 77-120	106, 77-120	**3.1**	**10**	**0.8 J**	**1.1**	**0.5 J**	< 1
1,1-Dichloroethene		< 1	< 1	104, 66-127	104, 66-127	< 1	**0.55 J**	< 1	< 1	< 1	< 1
1,2-Dichloroethane		< 1	< 1	96, 75-120	97, 75-120	< 1	< 1	< 1	< 1	< 1	< 1
2-Butanone		< 10	< 10	112, 57-140	116, 57-140	< 10	< 10	< 10	< 10	< 10	< 10
2-Hexanone		< 5	< 5	115, 65-127	114, 65-127	< 5	< 5	< 5	< 5	< 5	< 5
4-Methyl-2-pentanone		< 5	< 5	109, 71-125	110, 71-125	< 5	< 5	< 5	< 5	< 5	< 5
Acetone		< 10	< 10	86, 56-142	89, 56-142	< 10	< 10	< 10	< 10	< 10	< 10
Benzene		< 1	< 1	108, 71-124	106, 71-124	< 1	< 1	< 1	< 1	< 1	< 1
Bromodichloromethane		< 1	< 1	109, 80-122	108, 80-122	< 1	< 1	< 1	< 1	< 1	< 1
Bromoform		< 1	< 1	116, 61-132	106, 61-132	< 1	< 1	< 1	< 1	< 1	< 1
Bromomethane		< 1	< 1	99, 55-144	95, 55-144	< 1	< 1	< 1	< 1	< 1	< 1
Carbon disulfide		< 1	< 1	100, 59-134	99, 59-134	< 1	< 1	< 1	< 1	< 1	< 1
Carbontetrachloride		< 1	< 1	103, 72-134	102, 72-134	< 1	< 1	< 1	< 1	< 1	< 1
Chlorobenzene		< 1	< 1	109, 80-120	107, 80-120	< 1	< 1	< 1	< 1	< 1	< 1
Chloroethane		< 1	< 1	99, 69-136	99, 69-136	< 1	< 1	< 1	< 1	< 1	< 1
Chloroform		< 1	< 1	97, 73-127	97, 73-127	**1.4**	**0.54 J**	< 1	< 1	< 1	< 1
Chloromethane		< 1	< 1	100, 68-124	100, 68-124	< 1	< 1	< 1	< 1	< 1	< 1
cis-1,2-Dichloroethene		< 1	< 1	105, 74-124	104, 74-124	**6.2**	**78**	**9.9**	**6.4**	**18**	< 1
cis-1,3-Dichloropropene		< 1	< 1	108, 74-124	107, 74-124	< 1	< 1	< 1	< 1	< 1	< 1
Dibromochloromethane		< 1	< 1	111, 75-125	107, 75-125	< 1	< 1	< 1	< 1	< 1	< 1
Ethylbenzene		< 1	< 1	111, 77-123	104, 77-123	< 1	< 1	< 1	< 1	< 1	< 1
1,1,2-Trichloro-1,2,2-Trifluoroethane		< 1	< 1	102, 61-148	99, 61-148	**9.6**	**27**	**1.2**	< 1	< 1	< 1
m,p-xylene		< 2	< 2	110, 76-122	106, 76-122	< 2	< 2	< 2	< 2	< 2	< 2
Methylene Chloride		< 1	< 1	102, 75-124	100, 75-124	< 1	< 1	< 1	< 1	< 1	< 1
o-Xylene		< 1	< 1	106, 76-122	102, 76-122	< 1	< 1	< 1	< 1	< 1	< 1
Styrene		< 1	< 1	111, 80-120	104, 80-120	< 1	< 1	< 1	< 1	< 1	< 1
Tetrachloroethene		< 1	< 1	117, 74-122	113, 74-122	< 1	< 1	< 1	< 1	< 1	< 1
Toluene		< 1	< 1	108, 80-122	106, 80-122	< 1	< 1	< 1	< 1	< 1	< 1
trans-1,2-Dichloroethene		< 1	< 1	110, 73-127	108, 73-127	< 1	**4.4**	< 1	< 1	< 1	< 1
Trans-1,3-Dichloropropene		< 1	< 1	98, 80-120	97, 80-120	< 1	< 1	< 1	< 1	< 1	< 1
Trichloroethene		< 1	< 1	106, 74-123	105, 74-123	**6.5**	**3.1**	< 1	< 1	< 1	< 1
Vinyl chloride		< 1	< 1	106, 65-133	102, 65-133	**1.1**	**590**	**22**	**9.1**	< 1	< 1
Xylene (total)		< 2	< 2	NA	NA	< 2	< 2	< 2	< 2	< 2	< 2

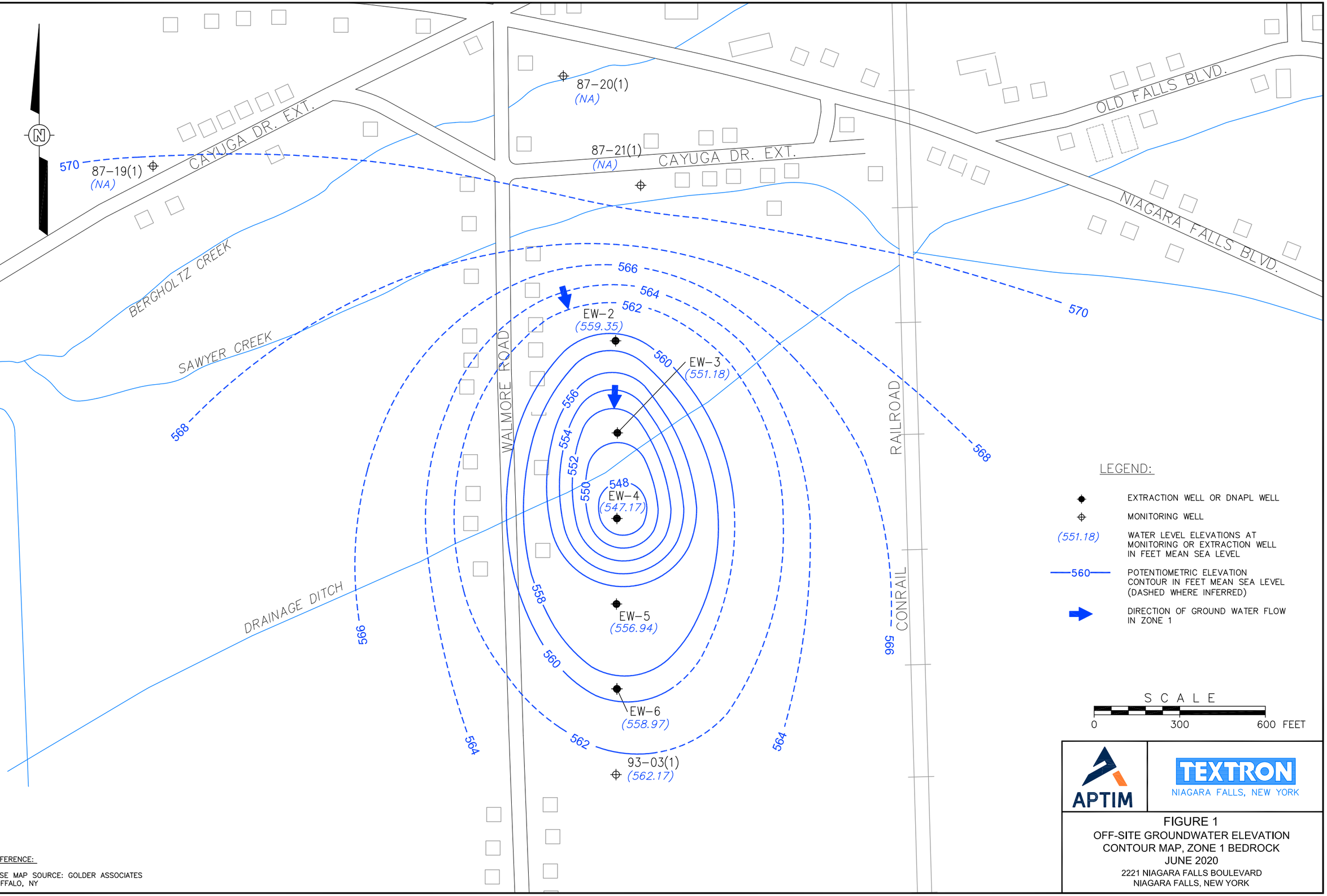
Notes:
Bold = Compound detected at concentration.
J = Indicates an estimated value below detection limit.
NA = Not available

Figures

DRAWING NUMBER	APPROVED BY	CHECKED BY	DRAWN BY	DESIGNED BY
631236330-B21	P. Bauer	T. Hochbein	E. Schlegel	--

OFFICE	DATE
Pittsburgh, PA	9/1/20

File: \\Pitsfs01\cad\Shaw Offices - CAD Files\Latham, NY\TEXTRON\631236330\631236330-B21.dwg
Plot Date/Time: Sep 01, 2020 - 4:14pm
Plotted By: Evan.Schlegel
Image



LEGEND:

- EXTRACTION WELL OR DNAPL WELL
- MONITORING WELL
- (551.18) WATER LEVEL ELEVATIONS AT MONITORING OR EXTRACTION WELL IN FEET MEAN SEA LEVEL
- 560 POTENTIOMETRIC ELEVATION CONTOUR IN FEET MEAN SEA LEVEL (DASHED WHERE INFERRED)
- DIRECTION OF GROUND WATER FLOW IN ZONE 1

SCALE

0 300 600 FEET

REFERENCE:

BASE MAP SOURCE: GOLDER ASSOCIATES
BUFFALO, NY

APTIM

TEXTRON
NIAGARA FALLS, NEW YORK

FIGURE 1
OFF-SITE GROUNDWATER ELEVATION CONTOUR MAP, ZONE 1 BEDROCK JUNE 2020

2221 NIAGARA FALLS BOULEVARD
NIAGARA FALLS, NEW YORK

DRAWING NUMBER	631236330-B22
APPROVED BY	P. Bauer
CHECKED BY	T. Hochbein
DRAWN BY	E. Schlegel
DESIGNED BY	--
DATE	9/1/20
OFFICE	Pittsburgh, PA

File: \\Pitpfs01\cad\Shaw Offices - CAD Files\Latham, NY\TEXTRON\631236330\631236330-B22.dwg
Plot Date/Time: Sep 01, 2020 - 5:04pm
Plotted By: Evan.Schlegel
Xref: Image

SAMPLE LOCATION	EW-2
SAMPLE I.D.	BAT-EW-2-180418
SAMPLE DATE	6/29/2020
VOCs by USEPA Method 8260	
Vinyl Chloride	**1.1**
1,1-Dichloroethane	**3.1**
cis-1,2-Dichloroethene	**6.2**
Chloroform	**1.4**
1,1,1-Trichloroethane	**2.3**
Trichloroethene	**6.5**
1,1,2-Trichloro-1,2,2-Triflouromethane	**9.6**

SAMPLE LOCATION	EW-3
SAMPLE I.D.	BAT-EW-3-180418
SAMPLE DATE	6/29/2020
VOCs by USEPA Method 8260	
Vinyl Chloride	**590**
trans-1,2-Dichloroethene	**4.4**
1,1-Dichloroethane	**10**
1,1-Dichloroethene	**0.55 J**
cis-1,2-Dichloroethene	**78**
Chloroform	**0.54 J**
1,1,1-Trichloroethane	**9.6**
Trichloroethene	**3.1**
1,1,2-Trichloro-1,2,2-Triflouromethane	**27**

SAMPLE LOCATION	EW-4
SAMPLE I.D.	BAT-EW-4-180418
SAMPLE DATE	6/29/2020
VOCs by USEPA Method 8260	
Vinyl Chloride	**22**
1,1-Dichloroethane	**0.8 J**
cis-1,2-Dichloroethene	**9.9**
1,1,2-Trichloro-1,2,2-Triflouromethane	**1.2**

SAMPLE LOCATION	EW-5
SAMPLE I.D.	BAT-EW-5-180418
SAMPLE DATE	6/29/2020
VOCs by USEPA Method 8260	
Vinyl Chloride	**9.1**
1,1-Dichloroethane	**1.1**
cis-1,2-Dichloroethene	**6.4**

SAMPLE LOCATION	EW-6
SAMPLE I.D.	BAT-EW-6-180418
SAMPLE DATE	6/29/2020
VOCs by USEPA Method 8260	
1,1-Dichloroethane	**0.50 J**
cis-1,2-Dichloroethene	**18**

SAMPLE LOCATION	93-03(1)	93-03(1)
SAMPLE I.D.	BAT-93-03(1)-180418	BAT-DUP01-180418
SAMPLE DATE	6/29/2020	6/29/2020
VOCs by USEPA Method 8260	**ND**	**ND**

87-20(0)
87-20(1)
87-21(1)
EW-2
EW-3
EW-4
EW-5
EW-6
93-03(1)
CAYUGA DR.
CAYUGA DR. EXT.
WALMORE ROAD
OLD FALLS BLVD.
NIAGARA FALLS BLVD.
CONRAIL

LEGEND:

- ⊕ EXTRACTION WELL OR DNAPL WELL
- ⊕ MONITORING WELL
- U COMPOUND NOT DETECTED AT DETECTION LIMIT
- **BOLD** COMPOUND DETECTED AT CONCENTRATION
- J INDICATES AN ESTIMATED VALUE BELOW DETECTION LIMIT
- D COMPOUND ANALYZED AT SECONDARY DILUTION
- ND ALL VOCS BY USEPA METHOD 8260 WERE BELOW LABORATORY DETECTION LIMITS

NOTES:

1. ALL GROUNDWATER CONCENTRATIONS ARE IN MICROGRAMS PER LITER (µg/L) OR PARTS PER BILLION (PPB).
2. ALL VOCS BY USEPA METHOD 8260 WERE BELOW LABORATORY DETECTION LIMITS FOR TRIP BLANK.

SCALE
0 300 600 FEET

APTIM

TEXTRON
NIAGARA FALLS, NEW YORK

FIGURE 2
OFF-SITE GROUNDWATER ANALYTICAL RESULTS
ZONE 1 BEDROCK
JUNE 2020
2221 NIAGARA FALLS BOULEVARD
NIAGARA FALLS, NEW YORK

Attachment A

Laboratory Analytical Report

eurofins | Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 480-171828-1
Client Project/Site: Textron Wheatfield Supplemental Injectio

For:
Aptim Environmental & Infrastructure Inc
4171 Essen Lane
Baton Rouge, Louisiana 70809

Attn: Accounts Payable

Authorized for release by:
7/7/2020 1:23:27 PM
Rebecca Jones, Project Management Assistant I
rebecca.jones@testamericainc.com

Designee for

Brian Fischer, Manager of Project Management
(716)504-9835
brian.fischer@testamericainc.com

Table of Contents

Definitions/Glossary

Client: Aptim Environmental & Infrastructure Inc
Job ID: 480-171828-1
Project/Site: Textron Wheatfield Supplemental Injectio

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

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
CFU	Colony Forming Unit
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)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
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)
TNTC	Too Numerous To Count

Job ID: 480-171828-1

Laboratory: Eurofins TestAmerica, Buffalo

Narrative

Job Narrative
480-171828-1

Comments
No additional comments.

Receipt
The samples were received on 6/29/2020 4:15 PM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.2º C.

GC/MS VOA
Method 8260C: The following sample was diluted to bring the concentration of target analytes within the calibration range: BAT-EW-3-200629 (480-171828-2). 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: Aptim Environmental & Infrastructure Inc
Job ID: 480-171828-1
Project/Site: Textron Wheatfield Supplemental Injectio

Client Sample ID: BAT-EW-2-200629 — Lab Sample ID: 480-171828-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	2.3		1.0	0.82	ug/L	1		8260C	Total/NA
1,1,2-Trichloro-1,2,2-trifluoroethane	9.6		1.0	0.31	ug/L	1		8260C	Total/NA
1,1-Dichloroethane	3.1		1.0	0.38	ug/L	1		8260C	Total/NA
Chloroform	1.4		1.0	0.34	ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	6.2		1.0	0.81	ug/L	1		8260C	Total/NA
Trichloroethene	6.5		1.0	0.46	ug/L	1		8260C	Total/NA
Vinyl chloride	1.1		1.0	0.90	ug/L	1		8260C	Total/NA

Client Sample ID: BAT-EW-3-200629 — Lab Sample ID: 480-171828-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	9.6		1.0	0.82	ug/L	1		8260C	Total/NA
1,1,2-Trichloro-1,2,2-trifluoroethane	27		1.0	0.31	ug/L	1		8260C	Total/NA
1,1-Dichloroethane	10		1.0	0.38	ug/L	1		8260C	Total/NA
1,1-Dichloroethene	0.55	J	1.0	0.29	ug/L	1		8260C	Total/NA
Chloroform	0.54	J	1.0	0.34	ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	78		1.0	0.81	ug/L	1		8260C	Total/NA
trans-1,2-Dichloroethene	4.4		1.0	0.90	ug/L	1		8260C	Total/NA
Trichloroethene	3.1		1.0	0.46	ug/L	1		8260C	Total/NA
Vinyl chloride - DL	590		10	9.0	ug/L	10		8260C	Total/NA

Client Sample ID: BAT-EW-4-200629 — Lab Sample ID: 480-171828-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	1.2		1.0	0.31	ug/L	1		8260C	Total/NA
1,1-Dichloroethane	0.80	J	1.0	0.38	ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	9.9		1.0	0.81	ug/L	1		8260C	Total/NA
Vinyl chloride	22		1.0	0.90	ug/L	1		8260C	Total/NA

Client Sample ID: BAT-EW-5-200629 — Lab Sample ID: 480-171828-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	1.1		1.0	0.38	ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	6.4		1.0	0.81	ug/L	1		8260C	Total/NA
Vinyl chloride	9.1		1.0	0.90	ug/L	1		8260C	Total/NA

Client Sample ID: BAT-EW-6-200629 — Lab Sample ID: 480-171828-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	0.50	J	1.0	0.38	ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	18		1.0	0.81	ug/L	1		8260C	Total/NA

Client Sample ID: BAT-93-200629 — Lab Sample ID: 480-171828-6

No Detections.

Client Sample ID: BAT-TB-200629 — Lab Sample ID: 480-171828-7

No Detections.

Client Sample ID: BATDUP-200629 — Lab Sample ID: 480-171828-8

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Buffalo

Client: Aptim Environmental & Infrastructure Inc
Job ID: 480-171828-1
Project/Site: Textron Wheatfield Supplemental Injectio

Client Sample ID: BAT-EW-2-200629
Lab Sample ID: 480-171828-1
Date Collected: 06/29/20 11:30
Matrix: Water
Date Received: 06/29/20 16:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	**2.3**		1.0	0.82	ug/L			07/02/20 11:27	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			07/02/20 11:27	1
1,1,2-Trichloro-1,2,2-trifluoroetha ne	**9.6**		1.0	0.31	ug/L			07/02/20 11:27	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			07/02/20 11:27	1
1,1-Dichloroethane	**3.1**		1.0	0.38	ug/L			07/02/20 11:27	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			07/02/20 11:27	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			07/02/20 11:27	1
2-Butanone (MEK)	ND		10	1.3	ug/L			07/02/20 11:27	1
2-Hexanone	ND		5.0	1.2	ug/L			07/02/20 11:27	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			07/02/20 11:27	1
Acetone	ND		10	3.0	ug/L			07/02/20 11:27	1
Benzene	ND		1.0	0.41	ug/L			07/02/20 11:27	1
Bromodichloromethane	ND		1.0	0.39	ug/L			07/02/20 11:27	1
Bromoform	ND		1.0	0.26	ug/L			07/02/20 11:27	1
Bromomethane	ND		1.0	0.69	ug/L			07/02/20 11:27	1
Carbon disulfide	ND		1.0	0.19	ug/L			07/02/20 11:27	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			07/02/20 11:27	1
Chlorobenzene	ND		1.0	0.75	ug/L			07/02/20 11:27	1
Chloroethane	ND		1.0	0.32	ug/L			07/02/20 11:27	1
Chloroform	**1.4**		1.0	0.34	ug/L			07/02/20 11:27	1
Chloromethane	ND		1.0	0.35	ug/L			07/02/20 11:27	1
cis-1,2-Dichloroethene	**6.2**		1.0	0.81	ug/L			07/02/20 11:27	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			07/02/20 11:27	1
Dibromochloromethane	ND		1.0	0.32	ug/L			07/02/20 11:27	1
Ethylbenzene	ND		1.0	0.74	ug/L			07/02/20 11:27	1
m,p-Xylene	ND		2.0	0.66	ug/L			07/02/20 11:27	1
Methylene Chloride	ND		1.0	0.44	ug/L			07/02/20 11:27	1
o-Xylene	ND		1.0	0.76	ug/L			07/02/20 11:27	1
Styrene	ND		1.0	0.73	ug/L			07/02/20 11:27	1
Tetrachloroethene	ND		1.0	0.36	ug/L			07/02/20 11:27	1
Toluene	ND		1.0	0.51	ug/L			07/02/20 11:27	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			07/02/20 11:27	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			07/02/20 11:27	1
Trichloroethene	**6.5**		1.0	0.46	ug/L			07/02/20 11:27	1
Vinyl chloride	**1.1**		1.0	0.90	ug/L			07/02/20 11:27	1
Xylenes, Total	ND		2.0	0.66	ug/L			07/02/20 11:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*93*		*77 - 120*		*07/02/20 11:27*	*1*
4-Bromofluorobenzene (Surr)	*102*		*73 - 120*		*07/02/20 11:27*	*1*
Dibromofluoromethane (Surr)	*99*		*75 - 123*		*07/02/20 11:27*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*07/02/20 11:27*	*1*

Client: Aptim Environmental & Infrastructure Inc
Job ID: 480-171828-1
Project/Site: Textron Wheatfield Supplemental Injectio

Client Sample ID: BAT-EW-3-200629
Lab Sample ID: 480-171828-2
Date Collected: 06/29/20 11:45
Matrix: Water
Date Received: 06/29/20 16:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	**9.6**		1.0	0.82	ug/L			07/02/20 11:50	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			07/02/20 11:50	1
1,1,2-Trichloro-1,2,2-trifluoroetha ne	**27**		1.0	0.31	ug/L			07/02/20 11:50	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			07/02/20 11:50	1
1,1-Dichloroethane	**10**		1.0	0.38	ug/L			07/02/20 11:50	1
1,1-Dichloroethene	**0.55**	**J**	1.0	0.29	ug/L			07/02/20 11:50	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			07/02/20 11:50	1
2-Butanone (MEK)	ND		10	1.3	ug/L			07/02/20 11:50	1
2-Hexanone	ND		5.0	1.2	ug/L			07/02/20 11:50	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			07/02/20 11:50	1
Acetone	ND		10	3.0	ug/L			07/02/20 11:50	1
Benzene	ND		1.0	0.41	ug/L			07/02/20 11:50	1
Bromodichloromethane	ND		1.0	0.39	ug/L			07/02/20 11:50	1
Bromoform	ND		1.0	0.26	ug/L			07/02/20 11:50	1
Bromomethane	ND		1.0	0.69	ug/L			07/02/20 11:50	1
Carbon disulfide	ND		1.0	0.19	ug/L			07/02/20 11:50	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			07/02/20 11:50	1
Chlorobenzene	ND		1.0	0.75	ug/L			07/02/20 11:50	1
Chloroethane	ND		1.0	0.32	ug/L			07/02/20 11:50	1
Chloroform	**0.54**	**J**	1.0	0.34	ug/L			07/02/20 11:50	1
Chloromethane	ND		1.0	0.35	ug/L			07/02/20 11:50	1
cis-1,2-Dichloroethene	**78**		1.0	0.81	ug/L			07/02/20 11:50	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			07/02/20 11:50	1
Dibromochloromethane	ND		1.0	0.32	ug/L			07/02/20 11:50	1
Ethylbenzene	ND		1.0	0.74	ug/L			07/02/20 11:50	1
m,p-Xylene	ND		2.0	0.66	ug/L			07/02/20 11:50	1
Methylene Chloride	ND		1.0	0.44	ug/L			07/02/20 11:50	1
o-Xylene	ND		1.0	0.76	ug/L			07/02/20 11:50	1
Styrene	ND		1.0	0.73	ug/L			07/02/20 11:50	1
Tetrachloroethene	ND		1.0	0.36	ug/L			07/02/20 11:50	1
Toluene	ND		1.0	0.51	ug/L			07/02/20 11:50	1
trans-1,2-Dichloroethene	**4.4**		1.0	0.90	ug/L			07/02/20 11:50	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			07/02/20 11:50	1
Trichloroethene	**3.1**		1.0	0.46	ug/L			07/02/20 11:50	1
Xylenes, Total	ND		2.0	0.66	ug/L			07/02/20 11:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*77 - 120*		*07/02/20 11:50*	*1*
4-Bromofluorobenzene (Surr)	*100*		*73 - 120*		*07/02/20 11:50*	*1*
Dibromofluoromethane (Surr)	*100*		*75 - 123*		*07/02/20 11:50*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*		*07/02/20 11:50*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	**590**		10	9.0	ug/L			07/03/20 11:16	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*111*		*77 - 120*		*07/03/20 11:16*	*10*
4-Bromofluorobenzene (Surr)	*105*		*73 - 120*		*07/03/20 11:16*	*10*

Client Sample ID: BAT-EW-3-200629

Lab Sample ID: 480-171828-2

Date Collected: 06/29/20 11:45

Matrix: Water

Date Received: 06/29/20 16:15

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	*112*		*75 - 123*		*07/03/20 11:16*	*10*
Toluene-d8 (Surr)	*96*		*80 - 120*		*07/03/20 11:16*	*10*

Client Sample ID: BAT-EW-4-200629

Lab Sample ID: 480-171828-3

Date Collected: 06/29/20 14:00

Matrix: Water

Date Received: 06/29/20 16:15

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			07/03/20 11:39	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			07/03/20 11:39	1
1,1,2-Trichloro-1,2,2-trifluoroethane	**1.2**		1.0	0.31	ug/L			07/03/20 11:39	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			07/03/20 11:39	1
1,1-Dichloroethane	**0.80**	**J**	1.0	0.38	ug/L			07/03/20 11:39	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			07/03/20 11:39	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			07/03/20 11:39	1
2-Butanone (MEK)	ND		10	1.3	ug/L			07/03/20 11:39	1
2-Hexanone	ND		5.0	1.2	ug/L			07/03/20 11:39	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			07/03/20 11:39	1
Acetone	ND		10	3.0	ug/L			07/03/20 11:39	1
Benzene	ND		1.0	0.41	ug/L			07/03/20 11:39	1
Bromodichloromethane	ND		1.0	0.39	ug/L			07/03/20 11:39	1
Bromoform	ND		1.0	0.26	ug/L			07/03/20 11:39	1
Bromomethane	ND		1.0	0.69	ug/L			07/03/20 11:39	1
Carbon disulfide	ND		1.0	0.19	ug/L			07/03/20 11:39	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			07/03/20 11:39	1
Chlorobenzene	ND		1.0	0.75	ug/L			07/03/20 11:39	1
Chloroethane	ND		1.0	0.32	ug/L			07/03/20 11:39	1
Chloroform	ND		1.0	0.34	ug/L			07/03/20 11:39	1
Chloromethane	ND		1.0	0.35	ug/L			07/03/20 11:39	1
cis-1,2-Dichloroethene	**9.9**		1.0	0.81	ug/L			07/03/20 11:39	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			07/03/20 11:39	1
Dibromochloromethane	ND		1.0	0.32	ug/L			07/03/20 11:39	1
Ethylbenzene	ND		1.0	0.74	ug/L			07/03/20 11:39	1
m,p-Xylene	ND		2.0	0.66	ug/L			07/03/20 11:39	1
Methylene Chloride	ND		1.0	0.44	ug/L			07/03/20 11:39	1
o-Xylene	ND		1.0	0.76	ug/L			07/03/20 11:39	1
Styrene	ND		1.0	0.73	ug/L			07/03/20 11:39	1
Tetrachloroethene	ND		1.0	0.36	ug/L			07/03/20 11:39	1
Toluene	ND		1.0	0.51	ug/L			07/03/20 11:39	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			07/03/20 11:39	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			07/03/20 11:39	1
Trichloroethene	ND		1.0	0.46	ug/L			07/03/20 11:39	1
Vinyl chloride	**22**		1.0	0.90	ug/L			07/03/20 11:39	1
Xylenes, Total	ND		2.0	0.66	ug/L			07/03/20 11:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*112*		*77 - 120*		*07/03/20 11:39*	*1*
4-Bromofluorobenzene (Surr)	*105*		*73 - 120*		*07/03/20 11:39*	*1*

Client Sample ID: BAT-EW-4-200629

Lab Sample ID: 480-171828-3

Date Collected: 06/29/20 14:00

Matrix: Water

Date Received: 06/29/20 16:15

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	*114*		*75 - 123*		*07/03/20 11:39*	*1*
Toluene-d8 (Surr)	*95*		*80 - 120*		*07/03/20 11:39*	*1*

Client Sample ID: BAT-EW-5-200629

Lab Sample ID: 480-171828-4

Date Collected: 06/29/20 10:50

Matrix: Water

Date Received: 06/29/20 16:15

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			07/02/20 12:39	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			07/02/20 12:39	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			07/02/20 12:39	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			07/02/20 12:39	1
1,1-Dichloroethane	**1.1**		1.0	0.38	ug/L			07/02/20 12:39	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			07/02/20 12:39	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			07/02/20 12:39	1
2-Butanone (MEK)	ND		10	1.3	ug/L			07/02/20 12:39	1
2-Hexanone	ND		5.0	1.2	ug/L			07/02/20 12:39	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			07/02/20 12:39	1
Acetone	ND		10	3.0	ug/L			07/02/20 12:39	1
Benzene	ND		1.0	0.41	ug/L			07/02/20 12:39	1
Bromodichloromethane	ND		1.0	0.39	ug/L			07/02/20 12:39	1
Bromoform	ND		1.0	0.26	ug/L			07/02/20 12:39	1
Bromomethane	ND		1.0	0.69	ug/L			07/02/20 12:39	1
Carbon disulfide	ND		1.0	0.19	ug/L			07/02/20 12:39	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			07/02/20 12:39	1
Chlorobenzene	ND		1.0	0.75	ug/L			07/02/20 12:39	1
Chloroethane	ND		1.0	0.32	ug/L			07/02/20 12:39	1
Chloroform	ND		1.0	0.34	ug/L			07/02/20 12:39	1
Chloromethane	ND		1.0	0.35	ug/L			07/02/20 12:39	1
cis-1,2-Dichloroethene	**6.4**		1.0	0.81	ug/L			07/02/20 12:39	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			07/02/20 12:39	1
Dibromochloromethane	ND		1.0	0.32	ug/L			07/02/20 12:39	1
Ethylbenzene	ND		1.0	0.74	ug/L			07/02/20 12:39	1
m,p-Xylene	ND		2.0	0.66	ug/L			07/02/20 12:39	1
Methylene Chloride	ND		1.0	0.44	ug/L			07/02/20 12:39	1
o-Xylene	ND		1.0	0.76	ug/L			07/02/20 12:39	1
Styrene	ND		1.0	0.73	ug/L			07/02/20 12:39	1
Tetrachloroethene	ND		1.0	0.36	ug/L			07/02/20 12:39	1
Toluene	ND		1.0	0.51	ug/L			07/02/20 12:39	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			07/02/20 12:39	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			07/02/20 12:39	1
Trichloroethene	ND		1.0	0.46	ug/L			07/02/20 12:39	1
Vinyl chloride	**9.1**		1.0	0.90	ug/L			07/02/20 12:39	1
Xylenes, Total	ND		2.0	0.66	ug/L			07/02/20 12:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*96*		*77 - 120*		*07/02/20 12:39*	*1*
4-Bromofluorobenzene (Surr)	*101*		*73 - 120*		*07/02/20 12:39*	*1*
Dibromofluoromethane (Surr)	*101*		*75 - 123*		*07/02/20 12:39*	*1*

Client: Aptim Environmental & Infrastructure Inc
Job ID: 480-171828-1
Project/Site: Textron Wheatfield Supplemental Injectio

Client Sample ID: BAT-EW-5-200629

Lab Sample ID: 480-171828-4

Date Collected: 06/29/20 10:50
Matrix: Water
Date Received: 06/29/20 16:15

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	*98*		*80 - 120*		*07/02/20 12:39*	*1*

Client Sample ID: BAT-EW-6-200629

Lab Sample ID: 480-171828-5

Date Collected: 06/29/20 15:25
Matrix: Water
Date Received: 06/29/20 16:15

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			07/02/20 13:04	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			07/02/20 13:04	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			07/02/20 13:04	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			07/02/20 13:04	1
1,1-Dichloroethane	**0.50**	**J**	1.0	0.38	ug/L			07/02/20 13:04	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			07/02/20 13:04	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			07/02/20 13:04	1
2-Butanone (MEK)	ND		10	1.3	ug/L			07/02/20 13:04	1
2-Hexanone	ND		5.0	1.2	ug/L			07/02/20 13:04	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			07/02/20 13:04	1
Acetone	ND		10	3.0	ug/L			07/02/20 13:04	1
Benzene	ND		1.0	0.41	ug/L			07/02/20 13:04	1
Bromodichloromethane	ND		1.0	0.39	ug/L			07/02/20 13:04	1
Bromoform	ND		1.0	0.26	ug/L			07/02/20 13:04	1
Bromomethane	ND		1.0	0.69	ug/L			07/02/20 13:04	1
Carbon disulfide	ND		1.0	0.19	ug/L			07/02/20 13:04	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			07/02/20 13:04	1
Chlorobenzene	ND		1.0	0.75	ug/L			07/02/20 13:04	1
Chloroethane	ND		1.0	0.32	ug/L			07/02/20 13:04	1
Chloroform	ND		1.0	0.34	ug/L			07/02/20 13:04	1
Chloromethane	ND		1.0	0.35	ug/L			07/02/20 13:04	1
cis-1,2-Dichloroethene	**18**		1.0	0.81	ug/L			07/02/20 13:04	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			07/02/20 13:04	1
Dibromochloromethane	ND		1.0	0.32	ug/L			07/02/20 13:04	1
Ethylbenzene	ND		1.0	0.74	ug/L			07/02/20 13:04	1
m,p-Xylene	ND		2.0	0.66	ug/L			07/02/20 13:04	1
Methylene Chloride	ND		1.0	0.44	ug/L			07/02/20 13:04	1
o-Xylene	ND		1.0	0.76	ug/L			07/02/20 13:04	1
Styrene	ND		1.0	0.73	ug/L			07/02/20 13:04	1
Tetrachloroethene	ND		1.0	0.36	ug/L			07/02/20 13:04	1
Toluene	ND		1.0	0.51	ug/L			07/02/20 13:04	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			07/02/20 13:04	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			07/02/20 13:04	1
Trichloroethene	ND		1.0	0.46	ug/L			07/02/20 13:04	1
Vinyl chloride	ND		1.0	0.90	ug/L			07/02/20 13:04	1
Xylenes, Total	ND		2.0	0.66	ug/L			07/02/20 13:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*95*		*77 - 120*		*07/02/20 13:04*	*1*
4-Bromofluorobenzene (Surr)	*105*		*73 - 120*		*07/02/20 13:04*	*1*
Dibromofluoromethane (Surr)	*100*		*75 - 123*		*07/02/20 13:04*	*1*
Toluene-d8 (Surr)	*93*		*80 - 120*		*07/02/20 13:04*	*1*

Client Sample ID: BAT-93-200629

Lab Sample ID: 480-171828-6

Date Collected: 06/29/20 14:55

Matrix: Water

Date Received: 06/29/20 16:15

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			07/02/20 13:28	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			07/02/20 13:28	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			07/02/20 13:28	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			07/02/20 13:28	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			07/02/20 13:28	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			07/02/20 13:28	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			07/02/20 13:28	1
2-Butanone (MEK)	ND		10	1.3	ug/L			07/02/20 13:28	1
2-Hexanone	ND		5.0	1.2	ug/L			07/02/20 13:28	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			07/02/20 13:28	1
Acetone	ND		10	3.0	ug/L			07/02/20 13:28	1
Benzene	ND		1.0	0.41	ug/L			07/02/20 13:28	1
Bromodichloromethane	ND		1.0	0.39	ug/L			07/02/20 13:28	1
Bromoform	ND		1.0	0.26	ug/L			07/02/20 13:28	1
Bromomethane	ND		1.0	0.69	ug/L			07/02/20 13:28	1
Carbon disulfide	ND		1.0	0.19	ug/L			07/02/20 13:28	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			07/02/20 13:28	1
Chlorobenzene	ND		1.0	0.75	ug/L			07/02/20 13:28	1
Chloroethane	ND		1.0	0.32	ug/L			07/02/20 13:28	1
Chloroform	ND		1.0	0.34	ug/L			07/02/20 13:28	1
Chloromethane	ND		1.0	0.35	ug/L			07/02/20 13:28	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			07/02/20 13:28	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			07/02/20 13:28	1
Dibromochloromethane	ND		1.0	0.32	ug/L			07/02/20 13:28	1
Ethylbenzene	ND		1.0	0.74	ug/L			07/02/20 13:28	1
m,p-Xylene	ND		2.0	0.66	ug/L			07/02/20 13:28	1
Methylene Chloride	ND		1.0	0.44	ug/L			07/02/20 13:28	1
o-Xylene	ND		1.0	0.76	ug/L			07/02/20 13:28	1
Styrene	ND		1.0	0.73	ug/L			07/02/20 13:28	1
Tetrachloroethene	ND		1.0	0.36	ug/L			07/02/20 13:28	1
Toluene	ND		1.0	0.51	ug/L			07/02/20 13:28	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			07/02/20 13:28	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			07/02/20 13:28	1
Trichloroethene	ND		1.0	0.46	ug/L			07/02/20 13:28	1
Vinyl chloride	ND		1.0	0.90	ug/L			07/02/20 13:28	1
Xylenes, Total	ND		2.0	0.66	ug/L			07/02/20 13:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*92*		*77 - 120*		*07/02/20 13:28*	*1*
4-Bromofluorobenzene (Surr)	*103*		*73 - 120*		*07/02/20 13:28*	*1*
Dibromofluoromethane (Surr)	*95*		*75 - 123*		*07/02/20 13:28*	*1*
Toluene-d8 (Surr)	*94*		*80 - 120*		*07/02/20 13:28*	*1*

Client Sample ID: BAT-TB-200629

Lab Sample ID: 480-171828-7

Date Collected: 06/17/20 00:00

Matrix: Water

Date Received: 06/29/20 16:15

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			07/01/20 11:36	1

Client Sample ID: BAT-TB-200629

Lab Sample ID: 480-171828-7

Date Collected: 06/17/20 00:00

Matrix: Water

Date Received: 06/29/20 16:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			07/01/20 11:36	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			07/01/20 11:36	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			07/01/20 11:36	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			07/01/20 11:36	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			07/01/20 11:36	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			07/01/20 11:36	1
2-Butanone (MEK)	ND		10	1.3	ug/L			07/01/20 11:36	1
2-Hexanone	ND		5.0	1.2	ug/L			07/01/20 11:36	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			07/01/20 11:36	1
Acetone	ND		10	3.0	ug/L			07/01/20 11:36	1
Benzene	ND		1.0	0.41	ug/L			07/01/20 11:36	1
Bromodichloromethane	ND		1.0	0.39	ug/L			07/01/20 11:36	1
Bromoform	ND		1.0	0.26	ug/L			07/01/20 11:36	1
Bromomethane	ND		1.0	0.69	ug/L			07/01/20 11:36	1
Carbon disulfide	ND		1.0	0.19	ug/L			07/01/20 11:36	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			07/01/20 11:36	1
Chlorobenzene	ND		1.0	0.75	ug/L			07/01/20 11:36	1
Chloroethane	ND		1.0	0.32	ug/L			07/01/20 11:36	1
Chloroform	ND		1.0	0.34	ug/L			07/01/20 11:36	1
Chloromethane	ND		1.0	0.35	ug/L			07/01/20 11:36	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			07/01/20 11:36	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			07/01/20 11:36	1
Dibromochloromethane	ND		1.0	0.32	ug/L			07/01/20 11:36	1
Ethylbenzene	ND		1.0	0.74	ug/L			07/01/20 11:36	1
m,p-Xylene	ND		2.0	0.66	ug/L			07/01/20 11:36	1
Methylene Chloride	ND		1.0	0.44	ug/L			07/01/20 11:36	1
o-Xylene	ND		1.0	0.76	ug/L			07/01/20 11:36	1
Styrene	ND		1.0	0.73	ug/L			07/01/20 11:36	1
Tetrachloroethene	ND		1.0	0.36	ug/L			07/01/20 11:36	1
Toluene	ND		1.0	0.51	ug/L			07/01/20 11:36	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			07/01/20 11:36	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			07/01/20 11:36	1
Trichloroethene	ND		1.0	0.46	ug/L			07/01/20 11:36	1
Vinyl chloride	ND		1.0	0.90	ug/L			07/01/20 11:36	1
Xylenes, Total	ND		2.0	0.66	ug/L			07/01/20 11:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*114*		*77 - 120*		*07/01/20 11:36*	*1*
4-Bromofluorobenzene (Surr)	*107*		*73 - 120*		*07/01/20 11:36*	*1*
Dibromofluoromethane (Surr)	*113*		*75 - 123*		*07/01/20 11:36*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*		*07/01/20 11:36*	*1*

Client Sample ID: BATDUP-200629

Lab Sample ID: 480-171828-8

Date Collected: 06/29/20 00:00

Matrix: Water

Date Received: 06/29/20 16:15

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			07/02/20 13:52	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			07/02/20 13:52	1

Client: Aptim Environmental & Infrastructure Inc
Job ID: 480-171828-1
Project/Site: Textron Wheatfield Supplemental Injectio

Client Sample ID: BATDUP-200629
Lab Sample ID: 480-171828-8
Date Collected: 06/29/20 00:00
Matrix: Water
Date Received: 06/29/20 16:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			07/02/20 13:52	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			07/02/20 13:52	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			07/02/20 13:52	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			07/02/20 13:52	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			07/02/20 13:52	1
2-Butanone (MEK)	ND		10	1.3	ug/L			07/02/20 13:52	1
2-Hexanone	ND		5.0	1.2	ug/L			07/02/20 13:52	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			07/02/20 13:52	1
Acetone	ND		10	3.0	ug/L			07/02/20 13:52	1
Benzene	ND		1.0	0.41	ug/L			07/02/20 13:52	1
Bromodichloromethane	ND		1.0	0.39	ug/L			07/02/20 13:52	1
Bromoform	ND		1.0	0.26	ug/L			07/02/20 13:52	1
Bromomethane	ND		1.0	0.69	ug/L			07/02/20 13:52	1
Carbon disulfide	ND		1.0	0.19	ug/L			07/02/20 13:52	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			07/02/20 13:52	1
Chlorobenzene	ND		1.0	0.75	ug/L			07/02/20 13:52	1
Chloroethane	ND		1.0	0.32	ug/L			07/02/20 13:52	1
Chloroform	ND		1.0	0.34	ug/L			07/02/20 13:52	1
Chloromethane	ND		1.0	0.35	ug/L			07/02/20 13:52	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			07/02/20 13:52	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			07/02/20 13:52	1
Dibromochloromethane	ND		1.0	0.32	ug/L			07/02/20 13:52	1
Ethylbenzene	ND		1.0	0.74	ug/L			07/02/20 13:52	1
m,p-Xylene	ND		2.0	0.66	ug/L			07/02/20 13:52	1
Methylene Chloride	ND		1.0	0.44	ug/L			07/02/20 13:52	1
o-Xylene	ND		1.0	0.76	ug/L			07/02/20 13:52	1
Styrene	ND		1.0	0.73	ug/L			07/02/20 13:52	1
Tetrachloroethene	ND		1.0	0.36	ug/L			07/02/20 13:52	1
Toluene	ND		1.0	0.51	ug/L			07/02/20 13:52	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			07/02/20 13:52	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			07/02/20 13:52	1
Trichloroethene	ND		1.0	0.46	ug/L			07/02/20 13:52	1
Vinyl chloride	ND		1.0	0.90	ug/L			07/02/20 13:52	1
Xylenes, Total	ND		2.0	0.66	ug/L			07/02/20 13:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*89*		*77 - 120*		*07/02/20 13:52*	*1*
4-Bromofluorobenzene (Surr)	*103*		*73 - 120*		*07/02/20 13:52*	*1*
Dibromofluoromethane (Surr)	*93*		*75 - 123*		*07/02/20 13:52*	*1*
Toluene-d8 (Surr)	*91*		*80 - 120*		*07/02/20 13:52*	*1*

Surrogate Summary

Client: Aptim Environmental & Infrastructure Inc
Job ID: 480-171828-1
Project/Site: Textron Wheatfield Supplemental Injectio

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

Matrix: Water
Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(77-120)	(73-120)	(75-123)	(80-120)
480-171828-1	BAT-EW-2-200629	93	102	99	98
480-171828-2	BAT-EW-3-200629	94	100	100	96
480-171828-2 - DL	BAT-EW-3-200629	111	105	112	96
480-171828-3	BAT-EW-4-200629	112	105	114	95
480-171828-4	BAT-EW-5-200629	96	101	101	98
480-171828-5	BAT-EW-6-200629	95	105	100	93
480-171828-6	BAT-93-200629	92	103	95	94
480-171828-6 MS	BAT-93-200629	87	102	90	90
480-171828-6 MSD	BAT-93-200629	87	97	90	90
480-171828-7	BAT-TB-200629	114	107	113	96
480-171828-8	BATDUP-200629	89	103	93	91
LCS 480-538840/5	Lab Control Sample	109	107	111	96
LCS 480-538992/5	Lab Control Sample	90	102	94	96
LCS 480-539182/5	Lab Control Sample	108	109	110	97
MB 480-538840/7	Method Blank	111	106	113	97
MB 480-538992/7	Method Blank	96	102	101	97
MB 480-539182/7	Method Blank	110	107	111	96

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

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

Lab Sample ID: MB 480-538840/7
Matrix: Water
Analysis Batch: 538840

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			07/01/20 11:01	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			07/01/20 11:01	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			07/01/20 11:01	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			07/01/20 11:01	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			07/01/20 11:01	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			07/01/20 11:01	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			07/01/20 11:01	1
2-Butanone (MEK)	ND		10	1.3	ug/L			07/01/20 11:01	1
2-Hexanone	ND		5.0	1.2	ug/L			07/01/20 11:01	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			07/01/20 11:01	1
Acetone	ND		10	3.0	ug/L			07/01/20 11:01	1
Benzene	ND		1.0	0.41	ug/L			07/01/20 11:01	1
Bromodichloromethane	ND		1.0	0.39	ug/L			07/01/20 11:01	1
Bromoform	ND		1.0	0.26	ug/L			07/01/20 11:01	1
Bromomethane	ND		1.0	0.69	ug/L			07/01/20 11:01	1
Carbon disulfide	ND		1.0	0.19	ug/L			07/01/20 11:01	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			07/01/20 11:01	1
Chlorobenzene	ND		1.0	0.75	ug/L			07/01/20 11:01	1
Chloroethane	ND		1.0	0.32	ug/L			07/01/20 11:01	1
Chloroform	ND		1.0	0.34	ug/L			07/01/20 11:01	1
Chloromethane	ND		1.0	0.35	ug/L			07/01/20 11:01	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			07/01/20 11:01	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			07/01/20 11:01	1
Dibromochloromethane	ND		1.0	0.32	ug/L			07/01/20 11:01	1
Ethylbenzene	ND		1.0	0.74	ug/L			07/01/20 11:01	1
m,p-Xylene	ND		2.0	0.66	ug/L			07/01/20 11:01	1
Methylene Chloride	ND		1.0	0.44	ug/L			07/01/20 11:01	1
o-Xylene	ND		1.0	0.76	ug/L			07/01/20 11:01	1
Styrene	ND		1.0	0.73	ug/L			07/01/20 11:01	1
Tetrachloroethene	ND		1.0	0.36	ug/L			07/01/20 11:01	1
Toluene	ND		1.0	0.51	ug/L			07/01/20 11:01	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			07/01/20 11:01	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			07/01/20 11:01	1
Trichloroethene	ND		1.0	0.46	ug/L			07/01/20 11:01	1
Vinyl chloride	ND		1.0	0.90	ug/L			07/01/20 11:01	1
Xylenes, Total	ND		2.0	0.66	ug/L			07/01/20 11:01	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*111*		*77 - 120*		*07/01/20 11:01*	*1*
4-Bromofluorobenzene (Surr)	*106*		*73 - 120*		*07/01/20 11:01*	*1*
Dibromofluoromethane (Surr)	*113*		*75 - 123*		*07/01/20 11:01*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*07/01/20 11:01*	*1*

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

Lab Sample ID: LCS 480-538840/5
Matrix: Water
Analysis Batch: 538840

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	28.0		ug/L		112	73 - 126
1,1,2,2-Tetrachloroethane	25.0	22.2		ug/L		89	76 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	21.3		ug/L		85	61 - 148
1,1,2-Trichloroethane	25.0	23.0		ug/L		92	76 - 122
1,1-Dichloroethane	25.0	22.8		ug/L		91	77 - 120
1,1-Dichloroethene	25.0	21.0		ug/L		84	66 - 127
1,2-Dichloroethane	25.0	27.9		ug/L		111	75 - 120
2-Butanone (MEK)	125	122		ug/L		98	57 - 140
2-Hexanone	125	125		ug/L		100	65 - 127
4-Methyl-2-pentanone (MIBK)	125	123		ug/L		98	71 - 125
Acetone	125	108		ug/L		87	56 - 142
Benzene	25.0	21.7		ug/L		87	71 - 124
Bromodichloromethane	25.0	27.8		ug/L		111	80 - 122
Bromoform	25.0	29.7		ug/L		119	61 - 132
Bromomethane	25.0	27.4		ug/L		110	55 - 144
Carbon disulfide	25.0	19.8		ug/L		79	59 - 134
Carbon tetrachloride	25.0	26.9		ug/L		107	72 - 134
Chlorobenzene	25.0	22.3		ug/L		89	80 - 120
Chloroethane	25.0	27.6		ug/L		110	69 - 136
Chloroform	25.0	25.0		ug/L		100	73 - 127
Chloromethane	25.0	21.9		ug/L		87	68 - 124
cis-1,2-Dichloroethene	25.0	23.3		ug/L		93	74 - 124
cis-1,3-Dichloropropene	25.0	24.9		ug/L		100	74 - 124
Dibromochloromethane	25.0	27.2		ug/L		109	75 - 125
Ethylbenzene	25.0	22.5		ug/L		90	77 - 123
m,p-Xylene	25.0	23.1		ug/L		92	76 - 122
Methylene Chloride	25.0	21.9		ug/L		88	75 - 124
o-Xylene	25.0	22.9		ug/L		92	76 - 122
Styrene	25.0	23.9		ug/L		96	80 - 120
Tetrachloroethene	25.0	23.0		ug/L		92	74 - 122
Toluene	25.0	21.3		ug/L		85	80 - 122
trans-1,2-Dichloroethene	25.0	22.7		ug/L		91	73 - 127
trans-1,3-Dichloropropene	25.0	25.9		ug/L		104	80 - 120
Trichloroethene	25.0	23.0		ug/L		92	74 - 123
Vinyl chloride	25.0	24.5		ug/L		98	65 - 133

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*109*		*77 - 120*
4-Bromofluorobenzene (Surr)	*107*		*73 - 120*
Dibromofluoromethane (Surr)	*111*		*75 - 123*
Toluene-d8 (Surr)	*96*		*80 - 120*

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

Lab Sample ID: MB 480-538992/7
Matrix: Water
Analysis Batch: 538992

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			07/02/20 10:43	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			07/02/20 10:43	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			07/02/20 10:43	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			07/02/20 10:43	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			07/02/20 10:43	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			07/02/20 10:43	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			07/02/20 10:43	1
2-Butanone (MEK)	ND		10	1.3	ug/L			07/02/20 10:43	1
2-Hexanone	ND		5.0	1.2	ug/L			07/02/20 10:43	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			07/02/20 10:43	1
Acetone	ND		10	3.0	ug/L			07/02/20 10:43	1
Benzene	ND		1.0	0.41	ug/L			07/02/20 10:43	1
Bromodichloromethane	ND		1.0	0.39	ug/L			07/02/20 10:43	1
Bromoform	ND		1.0	0.26	ug/L			07/02/20 10:43	1
Bromomethane	ND		1.0	0.69	ug/L			07/02/20 10:43	1
Carbon disulfide	ND		1.0	0.19	ug/L			07/02/20 10:43	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			07/02/20 10:43	1
Chlorobenzene	ND		1.0	0.75	ug/L			07/02/20 10:43	1
Chloroethane	ND		1.0	0.32	ug/L			07/02/20 10:43	1
Chloroform	ND		1.0	0.34	ug/L			07/02/20 10:43	1
Chloromethane	ND		1.0	0.35	ug/L			07/02/20 10:43	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			07/02/20 10:43	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			07/02/20 10:43	1
Dibromochloromethane	ND		1.0	0.32	ug/L			07/02/20 10:43	1
Ethylbenzene	ND		1.0	0.74	ug/L			07/02/20 10:43	1
m,p-Xylene	ND		2.0	0.66	ug/L			07/02/20 10:43	1
Methylene Chloride	ND		1.0	0.44	ug/L			07/02/20 10:43	1
o-Xylene	ND		1.0	0.76	ug/L			07/02/20 10:43	1
Styrene	ND		1.0	0.73	ug/L			07/02/20 10:43	1
Tetrachloroethene	ND		1.0	0.36	ug/L			07/02/20 10:43	1
Toluene	ND		1.0	0.51	ug/L			07/02/20 10:43	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			07/02/20 10:43	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			07/02/20 10:43	1
Trichloroethene	ND		1.0	0.46	ug/L			07/02/20 10:43	1
Vinyl chloride	ND		1.0	0.90	ug/L			07/02/20 10:43	1
Xylenes, Total	ND		2.0	0.66	ug/L			07/02/20 10:43	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*77 - 120*		*07/02/20 10:43*	*1*
4-Bromofluorobenzene (Surr)	*102*		*73 - 120*		*07/02/20 10:43*	*1*
Dibromofluoromethane (Surr)	*101*		*75 - 123*		*07/02/20 10:43*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*07/02/20 10:43*	*1*

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

Lab Sample ID: LCS 480-538992/5
Matrix: Water
Analysis Batch: 538992

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	21.0		ug/L		84	73 - 126
1,1,2,2-Tetrachloroethane	25.0	22.2		ug/L		89	76 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	22.1		ug/L		88	61 - 148
1,1,2-Trichloroethane	25.0	21.7		ug/L		87	76 - 122
1,1-Dichloroethane	25.0	22.6		ug/L		90	77 - 120
1,1-Dichloroethene	25.0	21.9		ug/L		87	66 - 127
1,2-Dichloroethane	25.0	20.9		ug/L		84	75 - 120
2-Butanone (MEK)	125	112		ug/L		90	57 - 140
2-Hexanone	125	108		ug/L		86	65 - 127
4-Methyl-2-pentanone (MIBK)	125	109		ug/L		87	71 - 125
Acetone	125	104		ug/L		83	56 - 142
Benzene	25.0	22.3		ug/L		89	71 - 124
Bromodichloromethane	25.0	23.0		ug/L		92	80 - 122
Bromoform	25.0	23.5		ug/L		94	61 - 132
Bromomethane	25.0	21.2		ug/L		85	55 - 144
Carbon disulfide	25.0	21.7		ug/L		87	59 - 134
Carbon tetrachloride	25.0	21.9		ug/L		88	72 - 134
Chlorobenzene	25.0	22.5		ug/L		90	80 - 120
Chloroethane	25.0	20.6		ug/L		83	69 - 136
Chloroform	25.0	20.8		ug/L		83	73 - 127
Chloromethane	25.0	20.3		ug/L		81	68 - 124
cis-1,2-Dichloroethene	25.0	21.7		ug/L		87	74 - 124
cis-1,3-Dichloropropene	25.0	24.8		ug/L		99	74 - 124
Dibromochloromethane	25.0	22.8		ug/L		91	75 - 125
Ethylbenzene	25.0	22.4		ug/L		90	77 - 123
m,p-Xylene	25.0	22.4		ug/L		89	76 - 122
Methylene Chloride	25.0	23.1		ug/L		93	75 - 124
o-Xylene	25.0	22.8		ug/L		91	76 - 122
Styrene	25.0	23.6		ug/L		95	80 - 120
Tetrachloroethene	25.0	23.6		ug/L		95	74 - 122
Toluene	25.0	22.0		ug/L		88	80 - 122
trans-1,2-Dichloroethene	25.0	22.5		ug/L		90	73 - 127
trans-1,3-Dichloropropene	25.0	23.6		ug/L		95	80 - 120
Trichloroethene	25.0	22.5		ug/L		90	74 - 123
Vinyl chloride	25.0	20.8		ug/L		83	65 - 133

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*90*		*77 - 120*
4-Bromofluorobenzene (Surr)	*102*		*73 - 120*
Dibromofluoromethane (Surr)	*94*		*75 - 123*
Toluene-d8 (Surr)	*96*		*80 - 120*

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

Lab Sample ID: 480-171828-6 MS
Client Sample ID: BAT-93-200629
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 538992

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	ND		25.0	24.2		ug/L		97	73 - 126
1,1,2,2-Tetrachloroethane	ND		25.0	27.0		ug/L		108	76 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		25.0	25.5		ug/L		102	61 - 148
1,1,2-Trichloroethane	ND		25.0	27.5		ug/L		110	76 - 122
1,1-Dichloroethane	ND		25.0	26.4		ug/L		105	77 - 120
1,1-Dichloroethene	ND		25.0	26.1		ug/L		104	66 - 127
1,2-Dichloroethane	ND		25.0	24.0		ug/L		96	75 - 120
2-Butanone (MEK)	ND		125	140		ug/L		112	57 - 140
2-Hexanone	ND		125	143		ug/L		115	65 - 127
4-Methyl-2-pentanone (MIBK)	ND		125	136		ug/L		109	71 - 125
Acetone	ND		125	107		ug/L		86	56 - 142
Benzene	ND		25.0	27.1		ug/L		108	71 - 124
Bromodichloromethane	ND		25.0	27.4		ug/L		109	80 - 122
Bromoform	ND		25.0	28.9		ug/L		116	61 - 132
Bromomethane	ND		25.0	24.8		ug/L		99	55 - 144
Carbon disulfide	ND		25.0	25.0		ug/L		100	59 - 134
Carbon tetrachloride	ND		25.0	25.7		ug/L		103	72 - 134
Chlorobenzene	ND		25.0	27.2		ug/L		109	80 - 120
Chloroethane	ND		25.0	24.7		ug/L		99	69 - 136
Chloroform	ND		25.0	24.3		ug/L		97	73 - 127
Chloromethane	ND		25.0	24.9		ug/L		100	68 - 124
cis-1,2-Dichloroethene	ND		25.0	26.2		ug/L		105	74 - 124
cis-1,3-Dichloropropene	ND		25.0	27.1		ug/L		108	74 - 124
Dibromochloromethane	ND		25.0	27.7		ug/L		111	75 - 125
Ethylbenzene	ND		25.0	27.6		ug/L		111	77 - 123
m,p-Xylene	ND		25.0	27.6		ug/L		110	76 - 122
Methylene Chloride	ND		25.0	25.5		ug/L		102	75 - 124
o-Xylene	ND		25.0	26.5		ug/L		106	76 - 122
Styrene	ND		25.0	27.7		ug/L		111	80 - 120
Tetrachloroethene	ND		25.0	29.2		ug/L		117	74 - 122
Toluene	ND		25.0	27.1		ug/L		108	80 - 122
trans-1,2-Dichloroethene	ND		25.0	27.6		ug/L		110	73 - 127
trans-1,3-Dichloropropene	ND		25.0	24.5		ug/L		98	80 - 120
Trichloroethene	ND		25.0	26.4		ug/L		106	74 - 123
Vinyl chloride	ND		25.0	26.6		ug/L		106	65 - 133

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*87*		*77 - 120*
4-Bromofluorobenzene (Surr)	*102*		*73 - 120*
Dibromofluoromethane (Surr)	*90*		*75 - 123*
Toluene-d8 (Surr)	*90*		*80 - 120*

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

Lab Sample ID: 480-171828-6 MSD
Client Sample ID: BAT-93-200629
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 538992

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	ND		25.0	25.1		ug/L		101	73 - 126	4	15
1,1,2,2-Tetrachloroethane	ND		25.0	27.2		ug/L		109	76 - 120	1	15
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		25.0	24.8		ug/L		99	61 - 148	3	20
1,1,2-Trichloroethane	ND		25.0	26.5		ug/L		106	76 - 122	4	15
1,1-Dichloroethane	ND		25.0	26.4		ug/L		106	77 - 120	0	20
1,1-Dichloroethene	ND		25.0	26.1		ug/L		104	66 - 127	0	16
1,2-Dichloroethane	ND		25.0	24.2		ug/L		97	75 - 120	1	20
2-Butanone (MEK)	ND		125	145		ug/L		116	57 - 140	4	20
2-Hexanone	ND		125	143		ug/L		114	65 - 127	0	15
4-Methyl-2-pentanone (MIBK)	ND		125	138		ug/L		110	71 - 125	1	35
Acetone	ND		125	112		ug/L		89	56 - 142	4	15
Benzene	ND		25.0	26.5		ug/L		106	71 - 124	2	13
Bromodichloromethane	ND		25.0	27.1		ug/L		108	80 - 122	1	15
Bromoform	ND		25.0	26.5		ug/L		106	61 - 132	9	15
Bromomethane	ND		25.0	23.8		ug/L		95	55 - 144	4	15
Carbon disulfide	ND		25.0	24.7		ug/L		99	59 - 134	1	15
Carbon tetrachloride	ND		25.0	25.6		ug/L		102	72 - 134	1	15
Chlorobenzene	ND		25.0	26.8		ug/L		107	80 - 120	2	25
Chloroethane	ND		25.0	24.8		ug/L		99	69 - 136	0	15
Chloroform	ND		25.0	24.2		ug/L		97	73 - 127	1	20
Chloromethane	ND		25.0	24.9		ug/L		100	68 - 124	0	15
cis-1,2-Dichloroethene	ND		25.0	26.0		ug/L		104	74 - 124	1	15
cis-1,3-Dichloropropene	ND		25.0	26.7		ug/L		107	74 - 124	1	15
Dibromochloromethane	ND		25.0	26.8		ug/L		107	75 - 125	3	15
Ethylbenzene	ND		25.0	26.1		ug/L		104	77 - 123	6	15
m,p-Xylene	ND		25.0	26.6		ug/L		106	76 - 122	4	16
Methylene Chloride	ND		25.0	24.9		ug/L		100	75 - 124	2	15
o-Xylene	ND		25.0	25.5		ug/L		102	76 - 122	4	16
Styrene	ND		25.0	26.0		ug/L		104	80 - 120	6	20
Tetrachloroethene	ND		25.0	28.2		ug/L		113	74 - 122	3	20
Toluene	ND		25.0	26.6		ug/L		106	80 - 122	2	15
trans-1,2-Dichloroethene	ND		25.0	27.0		ug/L		108	73 - 127	2	20
trans-1,3-Dichloropropene	ND		25.0	24.1		ug/L		97	80 - 120	2	15
Trichloroethene	ND		25.0	26.3		ug/L		105	74 - 123	0	16
Vinyl chloride	ND		25.0	25.4		ug/L		102	65 - 133	4	15

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*87*		*77 - 120*
4-Bromofluorobenzene (Surr)	*97*		*73 - 120*
Dibromofluoromethane (Surr)	*90*		*75 - 123*
Toluene-d8 (Surr)	*90*		*80 - 120*

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

Lab Sample ID: MB 480-539182/7
Matrix: Water
Analysis Batch: 539182

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			07/03/20 10:45	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			07/03/20 10:45	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			07/03/20 10:45	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			07/03/20 10:45	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			07/03/20 10:45	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			07/03/20 10:45	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			07/03/20 10:45	1
2-Butanone (MEK)	ND		10	1.3	ug/L			07/03/20 10:45	1
2-Hexanone	ND		5.0	1.2	ug/L			07/03/20 10:45	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			07/03/20 10:45	1
Acetone	ND		10	3.0	ug/L			07/03/20 10:45	1
Benzene	ND		1.0	0.41	ug/L			07/03/20 10:45	1
Bromodichloromethane	ND		1.0	0.39	ug/L			07/03/20 10:45	1
Bromoform	ND		1.0	0.26	ug/L			07/03/20 10:45	1
Bromomethane	ND		1.0	0.69	ug/L			07/03/20 10:45	1
Carbon disulfide	ND		1.0	0.19	ug/L			07/03/20 10:45	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			07/03/20 10:45	1
Chlorobenzene	ND		1.0	0.75	ug/L			07/03/20 10:45	1
Chloroethane	ND		1.0	0.32	ug/L			07/03/20 10:45	1
Chloroform	ND		1.0	0.34	ug/L			07/03/20 10:45	1
Chloromethane	ND		1.0	0.35	ug/L			07/03/20 10:45	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			07/03/20 10:45	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			07/03/20 10:45	1
Dibromochloromethane	ND		1.0	0.32	ug/L			07/03/20 10:45	1
Ethylbenzene	ND		1.0	0.74	ug/L			07/03/20 10:45	1
m,p-Xylene	ND		2.0	0.66	ug/L			07/03/20 10:45	1
Methylene Chloride	ND		1.0	0.44	ug/L			07/03/20 10:45	1
o-Xylene	ND		1.0	0.76	ug/L			07/03/20 10:45	1
Styrene	ND		1.0	0.73	ug/L			07/03/20 10:45	1
Tetrachloroethene	ND		1.0	0.36	ug/L			07/03/20 10:45	1
Toluene	ND		1.0	0.51	ug/L			07/03/20 10:45	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			07/03/20 10:45	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			07/03/20 10:45	1
Trichloroethene	ND		1.0	0.46	ug/L			07/03/20 10:45	1
Vinyl chloride	ND		1.0	0.90	ug/L			07/03/20 10:45	1
Xylenes, Total	ND		2.0	0.66	ug/L			07/03/20 10:45	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*110*		*77 - 120*		*07/03/20 10:45*	*1*
4-Bromofluorobenzene (Surr)	*107*		*73 - 120*		*07/03/20 10:45*	*1*
Dibromofluoromethane (Surr)	*111*		*75 - 123*		*07/03/20 10:45*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*		*07/03/20 10:45*	*1*

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

Lab Sample ID: LCS 480-539182/5
Matrix: Water
Analysis Batch: 539182

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	27.0		ug/L		108	73 - 126
1,1,2,2-Tetrachloroethane	25.0	22.6		ug/L		90	76 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	21.1		ug/L		84	61 - 148
1,1,2-Trichloroethane	25.0	23.1		ug/L		93	76 - 122
1,1-Dichloroethane	25.0	23.0		ug/L		92	77 - 120
1,1-Dichloroethene	25.0	21.3		ug/L		85	66 - 127
1,2-Dichloroethane	25.0	26.5		ug/L		106	75 - 120
2-Butanone (MEK)	125	123		ug/L		98	57 - 140
2-Hexanone	125	127		ug/L		101	65 - 127
4-Methyl-2-pentanone (MIBK)	125	120		ug/L		96	71 - 125
Acetone	125	134		ug/L		107	56 - 142
Benzene	25.0	21.5		ug/L		86	71 - 124
Bromodichloromethane	25.0	26.7		ug/L		107	80 - 122
Bromoform	25.0	29.0		ug/L		116	61 - 132
Bromomethane	25.0	24.0		ug/L		96	55 - 144
Carbon disulfide	25.0	20.4		ug/L		81	59 - 134
Carbon tetrachloride	25.0	26.4		ug/L		105	72 - 134
Chlorobenzene	25.0	22.4		ug/L		89	80 - 120
Chloroethane	25.0	25.2		ug/L		101	69 - 136
Chloroform	25.0	24.8		ug/L		99	73 - 127
Chloromethane	25.0	20.0		ug/L		80	68 - 124
cis-1,2-Dichloroethene	25.0	23.6		ug/L		94	74 - 124
cis-1,3-Dichloropropene	25.0	24.6		ug/L		98	74 - 124
Dibromochloromethane	25.0	27.4		ug/L		110	75 - 125
Ethylbenzene	25.0	22.5		ug/L		90	77 - 123
m,p-Xylene	25.0	22.9		ug/L		91	76 - 122
Methylene Chloride	25.0	22.0		ug/L		88	75 - 124
o-Xylene	25.0	23.1		ug/L		92	76 - 122
Styrene	25.0	23.8		ug/L		95	80 - 120
Tetrachloroethene	25.0	23.4		ug/L		93	74 - 122
Toluene	25.0	21.7		ug/L		87	80 - 122
trans-1,2-Dichloroethene	25.0	22.9		ug/L		92	73 - 127
trans-1,3-Dichloropropene	25.0	26.2		ug/L		105	80 - 120
Trichloroethene	25.0	22.8		ug/L		91	74 - 123
Vinyl chloride	25.0	21.0		ug/L		84	65 - 133

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*108*		*77 - 120*
4-Bromofluorobenzene (Surr)	*109*		*73 - 120*
Dibromofluoromethane (Surr)	*110*		*75 - 123*
Toluene-d8 (Surr)	*97*		*80 - 120*

QC Association Summary

Client: Aptim Environmental & Infrastructure Inc
Job ID: 480-171828-1
Project/Site: Textron Wheatfield Supplemental Injectio

GC/MS VOA

Analysis Batch: 538840

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-171828-7	BAT-TB-200629	Total/NA	Water	8260C	
MB 480-538840/7	Method Blank	Total/NA	Water	8260C	
LCS 480-538840/5	Lab Control Sample	Total/NA	Water	8260C	

Analysis Batch: 538992

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-171828-1	BAT-EW-2-200629	Total/NA	Water	8260C	
480-171828-2	BAT-EW-3-200629	Total/NA	Water	8260C	
480-171828-4	BAT-EW-5-200629	Total/NA	Water	8260C	
480-171828-5	BAT-EW-6-200629	Total/NA	Water	8260C	
480-171828-6	BAT-93-200629	Total/NA	Water	8260C	
480-171828-8	BATDUP-200629	Total/NA	Water	8260C	
MB 480-538992/7	Method Blank	Total/NA	Water	8260C	
LCS 480-538992/5	Lab Control Sample	Total/NA	Water	8260C	
480-171828-6 MS	BAT-93-200629	Total/NA	Water	8260C	
480-171828-6 MSD	BAT-93-200629	Total/NA	Water	8260C	

Analysis Batch: 539182

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-171828-2 - DL	BAT-EW-3-200629	Total/NA	Water	8260C	
480-171828-3	BAT-EW-4-200629	Total/NA	Water	8260C	
MB 480-539182/7	Method Blank	Total/NA	Water	8260C	
LCS 480-539182/5	Lab Control Sample	Total/NA	Water	8260C	

Lab Chronicle

Client: Aptim Environmental & Infrastructure Inc
Job ID: 480-171828-1
Project/Site: Textron Wheatfield Supplemental Injectio

Client Sample ID: BAT-EW-2-200629
Lab Sample ID: 480-171828-1
Date Collected: 06/29/20 11:30
Matrix: Water
Date Received: 06/29/20 16:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	538992	07/02/20 11:27	CRL	TAL BUF

Client Sample ID: BAT-EW-3-200629
Lab Sample ID: 480-171828-2
Date Collected: 06/29/20 11:45
Matrix: Water
Date Received: 06/29/20 16:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	538992	07/02/20 11:50	CRL	TAL BUF
Total/NA	Analysis	8260C	DL	10	539182	07/03/20 11:16	RJF	TAL BUF

Client Sample ID: BAT-EW-4-200629
Lab Sample ID: 480-171828-3
Date Collected: 06/29/20 14:00
Matrix: Water
Date Received: 06/29/20 16:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	539182	07/03/20 11:39	RJF	TAL BUF

Client Sample ID: BAT-EW-5-200629
Lab Sample ID: 480-171828-4
Date Collected: 06/29/20 10:50
Matrix: Water
Date Received: 06/29/20 16:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	538992	07/02/20 12:39	CRL	TAL BUF

Client Sample ID: BAT-EW-6-200629
Lab Sample ID: 480-171828-5
Date Collected: 06/29/20 15:25
Matrix: Water
Date Received: 06/29/20 16:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	538992	07/02/20 13:04	CRL	TAL BUF

Client Sample ID: BAT-93-200629
Lab Sample ID: 480-171828-6
Date Collected: 06/29/20 14:55
Matrix: Water
Date Received: 06/29/20 16:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	538992	07/02/20 13:28	CRL	TAL BUF

Client Sample ID: BAT-TB-200629
Lab Sample ID: 480-171828-7
Date Collected: 06/17/20 00:00
Matrix: Water
Date Received: 06/29/20 16:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	538840	07/01/20 11:36	OMI	TAL BUF

Lab Chronicle

Client: Aptim Environmental & Infrastructure Inc
Job ID: 480-171828-1
Project/Site: Textron Wheatfield Supplemental Injectio

Client Sample ID: BATDUP-200629
Lab Sample ID: 480-171828-8
Date Collected: 06/29/20 00:00
Matrix: Water
Date Received: 06/29/20 16:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	538992	07/02/20 13:52	CRL	TAL BUF

Laboratory References:

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

Accreditation/Certification Summary

Client: Aptim Environmental & Infrastructure Inc
Job ID: 480-171828-1
Project/Site: Textron Wheatfield Supplemental Injectio

Laboratory: Eurofins TestAmerica, Buffalo

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10026	04-02-21

Method Summary

Client: Aptim Environmental & Infrastructure Inc
Job ID: 480-171828-1
Project/Site: Textron Wheatfield Supplemental Injectio

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF
5030C	Purge and Trap	SW846	TAL BUF

Protocol References:

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

Laboratory References:

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

Sample Summary

Client: Aptim Environmental & Infrastructure Inc
Job ID: 480-171828-1
Project/Site: Textron Wheatfield Supplemental Injectio

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
480-171828-1	BAT-EW-2-200629	Water	06/29/20 11:30	06/29/20 16:15	
480-171828-2	BAT-EW-3-200629	Water	06/29/20 11:45	06/29/20 16:15	
480-171828-3	BAT-EW-4-200629	Water	06/29/20 14:00	06/29/20 16:15	
480-171828-4	BAT-EW-5-200629	Water	06/29/20 10:50	06/29/20 16:15	
480-171828-5	BAT-EW-6-200629	Water	06/29/20 15:25	06/29/20 16:15	
480-171828-6	BAT-93-200629	Water	06/29/20 14:55	06/29/20 16:15	
480-171828-7	BAT-TB-200629	Water	06/17/20 00:00	06/29/20 16:15	
480-171828-8	BATDUP-200629	Water	06/29/20 00:00	06/29/20 16:15	

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

Chain of Custody Record

eurofins | Environment Testing America

Client Information	Sampler: KEVIN CROWN	Lab PM: Fischer, Brian J	Carrier Tracking No(s):	COC No: 480-147480-30334.1
Client Contact: ~~Cecelia Byers~~ PAUL BAUER	Phone: 716-472-0434	E-Mail: brian.fischer@testamericainc.com		Page: Page 1 of 1
Company: Aptim Environmental & Infrastructure Inc				Job #:

Address: 500 Penn Center Blvd, Suite 1000	Due Date Requested:
City: Pittsburgh	TAT Requested (days):
State, Zip: PA, 15235	
Phone:	PO #: 212413 OS
Email: PAUL.BAUER ~~ceecelia.byers~~@aptim.com	WO #:
Project Name: Textron Wheatfield Supplemental Injectio	Project #: 48020820
Site: TEXTRON WHEATFIELD	SSOW#:

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)

480-171828 Chain of Custody

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)	8260C - (MOD) TCL list OLM04.2	Total Nu	Special Instructions/Note:
			Preservation Code:				A		
BAT-EW-2-200629	6/29/20	1130	G	Water	X		X	3	
BAT-EW-3-200629		1145		Water					
BAT-EW-4-200629		1400		Water					
BAT-EW-5-200629		1050		Water					
BAT-EW-6-200629		1525		Water					
BAT-93-03(1)-200629		1455		Water					
BAT-93-03(1) MS-200629				Water		Y			
BAT-93-03(1) MSD-200629				Water		Y			
BAT-TB-200629	6/17/20	-	-	Water				2	
				Water					
BAT-DUP-200629	6/29/20	-	G	WATER	X		X	3	

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:	Company	Received by:	Date/Time:	Company
Kevin Crown	6/29/20 1615			6/29/20 1615	TA
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: 3.2 #1

Ver: 01/16/2019

Login Sample Receipt Checklist

Client: Aptim Environmental & Infrastructure Inc

Job Number: 480-171828-1

Login Number: 171828

List Source: Eurofins TestAmerica, Buffalo

List Number: 1

Creator: Stopa, Erik S

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

Attachment B

Field Sampling Sheets

MONDAY JUNE 29 2020
AM - SUNNY 68°F
PM - SUNNY 86°F
0730 PACK UP RENTAL EQUIPMENT IN CAR + DRIVE TO TEXTRON, FILL OUT LABELS, COC ETC ATTEND 9AM CONF. CALL BEGIN BY OPENING ALL EWS W/ STOOPID TOOL. GO TO PAGE 3 + PUT EW-5 IN HAND COLLECT SAMPLE @ 1055. SAMPLE EW-2 @ 1130, EW-3 @ 1145. EW-4 @ 1400 EW-6 @ 1525 MW 93-03(1) @ 1455 (MS/MSD + DUP COLLECTED HERE) DROP OFF SAMPLES @ EURO-FINS @ 1615, CALL PWC; @ BFD TO UNLOAD 10hrs

TEXTRON, INC.
FIELD SAMPLING DATA SHEET
WELL PURGE – WATER QUALITY MEASUREMENTS

Site Name: Textron, Wheatfield, NY
Project Number: 631013326
Well Number: MW- 93-03(1)
Date: 06/ 29 /2020
Field Personnel: K. Cronin
Physical Condition of Well: Good
Well Diameter: 2"
Air Monitoring Results: 0.0 ppmv
Depth to Product: -
Depth to Water: ~ 10.13
Depth to Bottom: ~ 46.88 36.75
Purge Volume: ~6 gal
Volume Removed: ~18 GAL

*Volume Factors: (circle one)

1.25-inch well = 0.064 gal/ft
2-inch well = 0.163 gal/ft
4-inch well = 0.653 gal/ft

Purge Method: circle one

Stainless Steel Bailer | Dedicated Poly Tubing from Sampling Port | Whale Pump with ET Tubing | (DEDICATED) Polyethylene Bailer | Grundfos Submerisble Pump

Purge Water Disposal: In Plant for shipping offsite treatment

PARAMETERS Units	pH s.u.	Spec. Cond. ms/cm	Temp. °C	Sample Description
Initial Purge ~	7.78	2.813	11.35	clear
Final Purge	7.04	2.746	11.73	clear

Sampling Method: circle one

Stainless Steel Bailer | Dedicated Poly Tubing from Sampling Port | Whale Pump with ET Tubing | (DEDICATED) Polyethylene Bailer | Grundfos Submerisble Pump

Sample Number: BAT- 93-03(1)-200629
Sample Collection Date/Time: 06/ 29 /2020 1455
Analysis Requested: EPA Method 8260

Notes: MS/MSD + BAT-DUP-200629 COLLECTED HERE

Sampler Signature: Kevin Cronin

TEXTRON, INC.
FIELD SAMPLING DATA SHEET
WELL PURGE – WATER QUALITY MEASUREMENTS

Site Name: Textron, Wheatfield, NY
Project Number: 631013326
Well Number: EW- 2
Date: 06/ 29 /2020
Field Personnel: K. Cronin
Physical Condition of Well: Good
Well Diameter: ~ 6"
Air Monitoring Results: 0.0 ppmv
Depth to Product: -
Depth to Water: ~ 8.80
Depth to Bottom: NM
Purge Volume:
Volume Removed: ~ 6 gals

*Volume Factors: (circle one)

1.25-inch well = 0.064 gal/ft
2-inch well = 0.163 gal/ft
4-inch well = 0.653 gal/ft

Purge Method: circle one

Stainless Steel Bailer | (Dedicated Poly Tubing from Sampling Port) | Whale Pump with ET Tubing | Polyethylene Bailer | Grundfos Submerisble Pump

Purge Water Disposal: In Plant for shipping offsite treatment

PARAMETERS Units	pH s.u.	Spec. Cond. ms/cm	Temp. °C	Sample Description
Initial Purge	7.08	2.210	12.48	clear
Final Purge	7.07	1.673	12.39	clear

Sampling Method: circle one

Stainless Steel Bailer | (Dedicated Poly Tubing from Sampling Port) | Whale Pump with ET Tubing | Polyethylene Bailer | Grundfos Submerisble Pump

Sample Number: BAT- EW- 2 -2006 29
Sample Collection Date/Time: 06/ 29 /2020 1130
Analysis Requested: EPA Method 8260

Notes:

Sampler Signature: Kevin Cronin

TEXTRON, INC.
FIELD SAMPLING DATA SHEET
WELL PURGE – WATER QUALITY MEASUREMENTS

Site Name: Textron, Wheatfield, NY
Project Number: 631013326
Well Number: EW- 3
Date: 06/ /2020
Field Personnel: K. Cronin
Physical Condition of Well: Good
Well Diameter: ~ 6"
Air Monitoring Results: 0.0 ppmv
Depth to Product: -
Depth to Water: ~18.38
Depth to Bottom: NM
Purge Volume:
Volume Removed: ~ 8 gals

*Volume Factors: (circle one)

1.25-inch well = 0.064 gal/ft
2-inch well = 0.163 gal/ft
4-inch well = 0.653 gal/ft

Purge Method: circle one

Stainless Steel Bailer | (Dedicated Poly Tubing from Sampling Port) | Whale Pump with ET Tubing | Polyethylene Bailer | Grundfos Submerisble Pump

Purge Water Disposal: In Plant for shipping offsite treatment

PARAMETERS Units	pH s.u.	Spec. Cond. ms/cm	Temp. °C	Sample Description
Initial Purge	6.96	2.888	12.74	clear
Final Purge	6.96	3.176	12.13	clear

Sampling Method: circle one

Stainless Steel Bailer | (Dedicated Poly Tubing from Sampling Port) | Whale Pump with ET Tubing | Polyethylene Bailer | Grundfos Submerisble Pump

Sample Number: BAT- EW- 3 -2006 29
Sample Collection Date/Time: 06/ 29 /2020 1145
Analysis Requested: EPA Method 8260

Notes:

Sampler Signature: Kevin Cronin

TEXTRON, INC.
FIELD SAMPLING DATA SHEET
WELL PURGE – WATER QUALITY MEASUREMENTS

Site Name: Textron, Wheatfield, NY
Project Number: 631013326
Well Number: EW- 4
Date: 06/ 29 /2020
Field Personnel: K. Cronin
Physical Condition of Well: Good
Well Diameter: ~ 6"
Air Monitoring Results: 0.0 ppmv
Depth to Product: -
Depth to Water: ~ 22.90
Depth to Bottom: NM
Purge Volume:
Volume Removed: ~ 8 gals

*Volume Factors: (circle one)

1.25-inch well = 0.064 gal/ft
2-inch well = 0.163 gal/ft
4-inch well = 0.653 gal/ft

Purge Method: circle one

Stainless Steel Bailer | (Dedicated Poly Tubing from Sampling Port) | Whale Pump with ET Tubing | Polyethylene Bailer | Grundfos Submerisble Pump

Purge Water Disposal: In Plant for shipping offsite treatment

PARAMETERS Units	pH s.u.	Spec. Cond. ms/cm	Temp. °C	Sample Description
Initial Purge	6.96	1.940	13.56	clear
Final Purge	6.97	1.939	12.69	clear

Sampling Method: circle one

Stainless Steel Bailer | (Dedicated Poly Tubing from Sampling Port) | Whale Pump with ET Tubing | Polyethylene Bailer | Grundfos Submerisble Pump

Sample Number: BAT- EW- 4 -2006 29
Sample Collection Date/Time: 06/ 29 /2020 1400
Analysis Requested: EPA Method 8260

Notes:

Sampler Signature: Kevin Cronin

TEXTRON, INC.
FIELD SAMPLING DATA SHEET
WELL PURGE – WATER QUALITY MEASUREMENTS

Site Name: Textron, Wheatfield, NY
Project Number: 631013326
Well Number: EW- 5
Date: 06/ 29 /2020
Field Personnel: K. Cronin
Physical Condition of Well: Good
Well Diameter: ~ 6"
Air Monitoring Results: 0.0 ppmv
Depth to Product: -
Depth to Water: 12.50
Depth to Bottom: NM
Purge Volume:
Volume Removed: ~ 7.5 gal

*Volume Factors: (circle one)

1.25-inch well = 0.064 gal/ft
2-inch well = 0.163 gal/ft
4-inch well = 0.653 gal/ft

Purge Method: circle one

Stainless Steel Bailer | Dedicated Poly Tubing from Sampling Port | Whale Pump with ET Tubing | Polyethylene Bailer | Grundfos Submerisble Pump

Purge Water Disposal: In Plant for shipping offsite treatment

PARAMETERS Units	pH s.u.	Spec. Cond. ms/cm	Temp. °C	Sample Description
Initial Purge	6.95	1.948	11.66	clear
Final Purge	7.00	2.731	16.63	clear

Sampling Method: circle one

Stainless Steel Bailer | Dedicated Poly Tubing from Sampling Port | Whale Pump with ET Tubing | Polyethylene Bailer | Grundfos Submerisble Pump

Sample Number: BAT- EW- 5 -2006 29
Sample Collection Date/Time: 06/ 29 /2020 1050
Analysis Requested: EPA Method 8260

Notes:

Sampler Signature: Kevin Cronin

TEXTRON, INC.
FIELD SAMPLING DATA SHEET
WELL PURGE – WATER QUALITY MEASUREMENTS

Site Name: Textron, Wheatfield, NY
Project Number: 631013326
Well Number: EW- 6
Date: 06/ 29 /2020
Field Personnel: K. Cronin
Physical Condition of Well: Good
Well Diameter: ~ 6"
Air Monitoring Results: 0.0 ppmv
Depth to Product: –
Depth to Water: ~ 9.20
Depth to Bottom: ~ 41.35
Purge Volume:
Volume Removed: ~ 7 gals

*Volume Factors: (circle one)

1.25-inch well = 0.064 gal/ft
2-inch well = 0.163 gal/ft
4-inch well = 0.653 gal/ft

Purge Method: circle one

Stainless Steel Bailer | Dedicated Poly Tubing from Sampling Port | Whale Pump with ET Tubing | ~~DEDICATED~~ Polyethylene Bailer | Grundfos Submerisble Pump

Purge Water Disposal: In Plant for shipping offsite treatment

PARAMETERS Units	pH s.u.	Spec. Cond. ms/cm	Temp. °C	Sample Description
Initial Purge	7.16	1.293	12.35	clear
Final Purge	7.21	1.341	12.79	clear

Sampling Method: circle one

Stainless Steel Bailer | Dedicated Poly Tubing from Sampling Port | Whale Pump with ET Tubing | ~~DEDICATED~~ Polyethylene Bailer | Grundfos Submerisble Pump

Sample Number: BAT- EW- 6 -200629
Sample Collection Date/Time: 06/ 29 /2020 1525
Analysis Requested: EPA Method 8260

Notes:

Sampler Signature: Kim Cronin

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

Chain of Custody Record

eurofins | Environment Testing America

Client Information	Sampler: KEVIN CROWN	Lab PM: Fischer, Brian J	Carrier Tracking No(s):	COC No: 480-147480-30334.1
Client Contact: ~~Cecelia Byers~~ PAUL BAUER	Phone: 716-472-0434	E-Mail: brian.fischer@testamericainc.com		Page: Page 1 of 1
Company: Aptim Environmental & Infrastructure Inc				Job #:
Address: 500 Penn Center Blvd, Suite 1000	Due Date Requested:			
City: Pittsburgh	TAT Requested (days):			
State, Zip: PA, 15235				
Phone:	PO #: 212413 OS			
Email: PAUL.BAUER ~~cecelia.byers~~@aptim.com	WO #:			
Project Name: Textron Wheatfield Supplemental Injectio	Project #: 48020820			
Site: TEXTRON WHEATFIELD	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

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)	8260C - (MOD) TCL list OLM04.2	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A		
BAT-EW-2-200629	6/29/20	1130	G	Water	X		X	3	
BAT-EW-3-200629		1145		Water					
BAT-EW-4-200629		1400		Water					
BAT-EW-5-200629		1050		Water					
BAT-EW-6-200629		1525		Water					
BAT-93-03(1)-200629		1456		Water					
BAT-93-03(1)MS-200629				Water		Y			
BAT-93-03(1)MSD-200629				Water		Y			
BAT-TB-200629	6/17/20	-	-	Water				2	
				Water					
BAT-DUP-200629	6/29/20	-	G	WATER	X		X	3	

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

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

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

Special Instructions/QC Requirements:

Empty Kit Relinquished by:		Date:		Time:		Method of Shipment:	
Relinquished by: KEVIN CROWN	Date/Time: 6/29/20 1615	Company	Received by: JIMMOW	Date/Time: 6/29/20 1615	Company TA		
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:

Ver: 01/16/2019