APTIM
500 Penn Center Blvd, Suite 1000
Pittsburgh, PA 15235
Tel: 412.372.7701
Fax: 412.373.7135
www.aptim.com

May 24, 2018

Mr. Stanley Radon
Senior Engineering Geologist
New York State Department of Environmental Conservation
270 Michigan Avenue
Buffalo, NY 14203-2915

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, Inc. (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 offline 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 (April and October) since 2013 as part of this extended pilot study. The groundwater analytical data from the October 2017 event were presented in the *2017 Annual Summary and Site Maintenance and Monitoring Report*. The April 2018 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 April 18, 2018.

Between April 15 and 16, 2018, the area received 1.72 inches of rain which 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 the prior observations. The April 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 four of the five extraction wells has demonstrated significant decreases in total VOC concentrations after Extraction Well EW-5 was taken offline. Total VOC concentrations at Extraction Well EW-6 increased from 61.41 micrograms per liter (µg/L) to 67.10 µg/L between the baseline and April 2018 sampling events. The analytical results are shown graphically on Figure 2.

Well Location	Decrease in VOC Concentration – 2011 to 2018
EW-2	58.4 %
EW-3	86.5 %
EW-4	92.9 %
EW-5	77.4 %
EW-6	- 9.3 %

The sample collected from Monitoring Well 93-03(1) exhibited a carbon disulfide concentration of 1.3 µg/L, which is below the New York State Groundwater Guidance Value of 60 µg/L. Carbon disulfide is not a listed compound of concern for the site.

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 offline. The next groundwater sampling event is scheduled for October 2018. 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 *2018 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 me at (412) 858-3977.

Sincerely,

Cecelia Byers

Cecelia Byers
Project Manager

CB:lmk
Attachments: Table
Figures
Attachment A – Analytical Report

cc: Mr. Greg Simpson – Textron
Mr. Brian Sadowski – NYSDEC
Mr. Chad Staniszewski – NYSDEC
Mr. Stephen Lawrence – NYSDOH
Ms. Charlotte Bethoney – NYSDOH
File

Table

Table 1
Summary of Groundwater Analytical Data
Former Textron Inc., Wheatfield, NY
April 2018

SAMPLE LOCATION	EW-2	EW-2		EW-2		EW-3
SAMPLE I.D.	BAT-EW-2-180418	BAT-EW-2-170418 MS		BAT-EW-2-170418 MSD		BAT-EW-3-180418
SAMPLE DATE	4/18/2018	4/18/2017		4/18/2017		4/18/2018
VOCs by USEPA Method 8260		Matrix Spike		Matrix Spike Duplicate		
		% Rec.	QC Lim	% Rec.	QC Lim	
Chloromethane	1.0 U	*100*	*55-160*	*102*	*55-160*	2.5 U
Vinyl Chloride	220 D	*89*	*60-157*	*101*	*60-157*	370
Chloroethane	1.0 U	*89*	*70-140*	*90*	*70-140*	2.5 U
Bromomethane	1.0 U	*54*	*10-162*	*61*	*10-162*	2.5 U
1,1-Dichloroethene	0.68 J	*100*	*72-125*	*99*	*72-125*	2.5 U
Acetone	1.8 J	*91*	*29-151*	*93*	*29-151*	4.3 J
Carbon Disulfide	1.0 U	*95*	*34-162*	*99*	*34-162*	2.5 U
Methylene Chloride	1.0 U	*96*	*75-121*	*99*	*75-121*	2.5 U
trans-1,2-Dichloroethene	2.3	*98*	*77-125*	*99*	*77-125*	2.4 J
1,1-Dichloroethane	3.5	*109*	*74-132*	*109*	*74-132*	4.1
cis-1,2-Dichloroethene	220 D	*93*	*72-133*	*98*	*72-133*	170
2-Butanone	5.0 U	*105*	*46-141*	*105*	*46-141*	13 U
Chloroform	1.1	*108*	*75-130*	*108*	*75-130*	0.98 J
1,1,1-Trichloroethane	3.0	*99*	*74-127*	*99*	*74-127*	3.4
Carbon Tetrachloride	1.0 U	*95*	*71-135*	*97*	*71-135*	2.5 U
Benzene	1.0 U	*108*	*76-129*	*108*	*76-129*	2.5 U
1,2-Dichloroethane	1.0 U	*108*	*72-132*	*107*	*72-132*	2.5 U
Trichloroethene	5.4	*98*	*62-142*	*99*	*62-142*	4.6
1,2-Dichloropropane	1.0 U	*110*	*79-124*	*109*	*79-124*	2.5 U
Bromodichloromethane	1.0 U	*100*	*76-127*	*101*	*76-127*	2.5 U
cis-1,3-Dichloropropene	1.0 U	*101*	*52-134*	*101*	*52-134*	2.5 U
4-Methyl-2-pentanone	5.0 U	*111*	*60-141*	*109*	*60-141*	13 U
Toluene	1.0 U	*102*	*79-125*	*100*	*79-125*	2.5 U
trans-1,3-Dichloropropene	1.0 U	*98*	*64-123*	*99*	*64-123*	2.5 U
1,1,2-Trichloroethane	1.0 U	*106*	*82-115*	*103*	*82-115*	2.5 U
Tetrachloroethene	1.0 U	*101*	*67-137*	*102*	*67-137*	2.5 U
2-Hexanone	5.0 U	*108*	*56-132*	*104*	*56-132*	13 U
Dibromochloromethane	1.0 U	*98*	*72-128*	*99*	*72-128*	2.5 U
Chlorobenzene	1.0 U	*98*	*76-125*	*97*	*76-125*	2.5 U
Ethylbenzene	1.0 U	*103*	*72-134*	*102*	*72-134*	2.5 U
m/p-Xylenes	2.0 U	*102*	*68-138*	*100*	*68-138*	5.0 U
o-Xylene	1.0 U	*99*	*68-134*	*99*	*68-134*	2.5 U
Styrene	1.0 U	*101*	*34-156*	*102*	*34-156*	2.5 U
Bromoform	1.0 U	*93*	*58-133*	*96*	*58-133*	2.5 U
1,1,2,2-Tetrachloroethane	1.0 U	*107*	*72-122*	*108*	*72-122*	2.5 U

Notes:
U = Compound not detected at detection limit.
Bold = Compound detected at concentration.
J = Indicates an estimated value below detection limit.

Table 1
Summary of Groundwater Analytical Data
Former Textron Inc., Wheatfield, NY
April 2018

SAMPLE LOCATION	EW-4	EW-4	EW-5	EW-6
SAMPLE I.D.	BAT-EW-4-180418	BAT-DUP01-180418	BAT-EW-5-180418	BAT-EW-6-180418
SAMPLE DATE	4/18/2018	4/18/2018	4/18/2018	4/18/2018
VOCs by USEPA Method 8260				
Chloromethane	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl Chloride	42	40	170	37
Chloroethane	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	1.0 U	1.0 U	1.0 U	1.0 U
Acetone	5.0 U	**1.4 J**	**2.2 J**	5.0 U
Carbon Disulfide	1.0 U	1.0 U	**0.31 J**	1.0 U
Methylene Chloride	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	**0.86 J**	**0.84 J**	1.4	1.0 U
1,1-Dichloroethane	1.3	1.1	2.4	**0.61 J**
cis-1,2-Dichloroethene	25	25	62	29
2-Butanone	5.0 U	5.0 U	5.0 U	5.0 U
Chloroform	1.0 U	1.0 U	1.0 U	1.0 U
1,1,1-Trichloroethane	**0.52 J**	**0.44 J**	2.1	1.0 U
Carbon Tetrachloride	1.0 U	1.0 U	1.0 U	1.0 U
Benzene	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	**0.41 J**	**0.32 J**	1.6	**0.49 J**
1,2-Dichloropropane	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,3-Dichloropropene	1.0 U	1.0 U	1.0 U	1.0 U
4-Methyl-2-pentanone	5.0 U	5.0 U	5.0 U	5.0 U
Toluene	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	1.0 U	1.0 U	1.0 U	1.0 U
2-Hexanone	5.0 U	5.0 U	5.0 U	5.0 U
Dibromochloromethane	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	1.0 U	1.0 U	1.0 U	1.0 U
m/p-Xylenes	2.0 U	2.0 U	2.0 U	2.0 U
o-Xylene	1.0 U	1.0 U	1.0 U	1.0 U
Styrene	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	1.0 U	1.0 U	1.0 U	1.0 U

Notes:
U = Compound not detected at detection limit.
Bold = Compound detected at concentration.
J = Indicates an estimated value below detectior

Table 1
Summary of Groundwater Analytical Data
Former Textron Inc., Wheatfield, NY
April 2018

SAMPLE LOCATION	93-03(1)	TRIP BLANK
SAMPLE I.D.	BAT-93-03(1)-180418	BAT-TB-180418
SAMPLE DATE	4/18/2018	4/18/2018
VOCs by USEPA Method 8260		
Chloromethane	1.0 U	1.0 U
Vinyl Chloride	1.0 U	1.0 U
Chloroethane	1.0 U	1.0 U
Bromomethane	1.0 U	1.0 U
1,1-Dichloroethene	1.0 U	1.0 U
Acetone	1.0 U	**2.3 J**
Carbon Disulfide	**1.3**	1.0 U
Methylene Chloride	1.0 U	1.0 U
trans-1,2-Dichloroethene	1.0 U	1.0 U
1,1-Dichloroethane	1.0 U	1.0 U
cis-1,2-Dichloroethene	1.0 U	1.0 U
2-Butanone	5.0 U	5.0 U
Chloroform	1.0 U	1.0 U
1,1,1-Trichloroethane	1.0 U	1.0 U
Carbon Tetrachloride	1.0 U	1.0 U
Benzene	1.0 U	1.0 U
1,2-Dichloroethane	1.0 U	1.0 U
Trichloroethene	1.0 U	1.0 U
1,2-Dichloropropane	1.0 U	1.0 U
Bromodichloromethane	1.0 U	1.0 U
cis-1,3-Dichloropropene	1.0 U	1.0 U
4-Methyl-2-pentanone	5.0 U	5.0 U
Toluene	1.0 U	1.0 U
trans-1,3-Dichloropropene	1.0 U	1.0 U
1,1,2-Trichloroethane	1.0 U	1.0 U
Tetrachloroethene	1.0 U	1.0 U
2-Hexanone	5.0 U	5.0 U
Dibromochloromethane	1.0 U	1.0 U
Chlorobenzene	1.0 U	1.0 U
Ethylbenzene	1.0 U	1.0 U
m/p-Xylenes	2.0 U	2.0 U
o-Xylene	1.0 U	1.0 U
Styrene	1.0 U	1.0 U
Bromoform	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	1.0 U	1.0 U

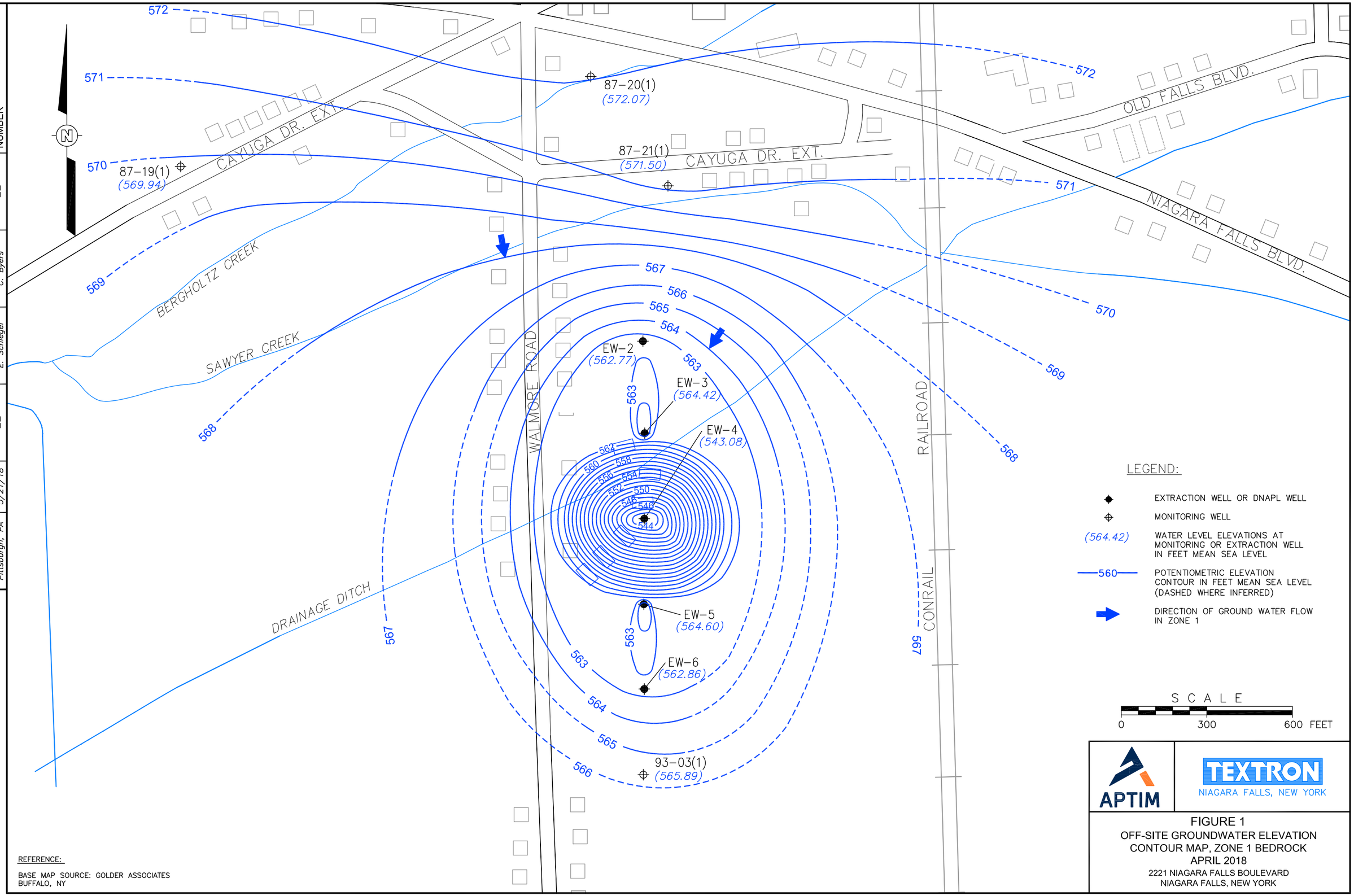
Notes:
U = Compound not detected at detection limit.
Bold = Compound detected at concentration.
J = Indicates an estimated value below detectior

Figures

DRAWING NUMBER	APPROVED BY	CHECKED BY	DRAWN BY	DESIGNED BY
631236330-B1	--	C. Byers	E. Schlegel	--

OFFICE	DATE
Pittsburgh, PA	5/21/18

File: O:\Shaw Offices - CAD Files\Latham, NY\631236330\631236330-B1.dwg
Plot Date/Time: May 22, 2018 - 4:19pm
Plotted By: Evan.Schlegel



LEGEND:

- EXTRACTION WELL OR DNAPL WELL
- MONITORING WELL
- (564.42) 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
APRIL 2018

2221 NIAGARA FALLS BOULEVARD
NIAGARA FALLS, NEW YORK

DRAWING NUMBER	631236330-B2
APPROVED BY	--
CHECKED BY	--
DRAWN BY	E. Schlegel
DESIGNED BY	--
DATE	5/21/18
OFFICE	Pittsburgh, PA

File: O:\Shaw Offices - CAD Files\Latham, NY\631236330\631236330-B2.dwg
Plot Date/Time: May 22, 2018 - 4:24pm
Plotted By: Evan.Schlegel
Xref: Image

SAMPLE LOCATION	EW-2	
SAMPLE I.D.	BAT-EW-2-180418	
SAMPLE DATE	4/18/2018	
VOCs by USEPA Method 8260		
Vinyl Chloride	220	D
1,1-Dichloroethene	0.68	J
Acetone	1.8	J
trans-1,2-Dichloroethene	2.3	
1,1-Dichloroethane	3.5	
cis-1,2-Dichloroethene	220	D
Chloroform	1.1	
1,1,1-Trichloroethane	3.0	
Trichloroethene	5.4	

SAMPLE LOCATION	EW-3	
SAMPLE I.D.	BAT-EW-3-180418	
SAMPLE DATE	4/18/2018	
VOCs by USEPA Method 8260		
Vinyl Chloride	370	
Acetone	4.3	J
trans-1,2-Dichloroethene	2.4	J
1,1-Dichloroethane	4.1	
cis-1,2-Dichloroethene	170	
Chloroform	0.98	J
1,1,1-Trichloroethane	3.4	
Trichloroethene	4.6	

SAMPLE LOCATION	EW-4	EW-4
SAMPLE I.D.	BAT-EW-4-180418	BAT-DUP01-180418
SAMPLE DATE	4/18/2018	4/18/2018
VOCs by USEPA Method 8260		
Vinyl Chloride	42	40
Acetone	5.0 U	1.4 J
trans-1,2-Dichloroethene	0.86 J	0.84 J
1,1-Dichloroethane	1.3	1.1
cis-1,2-Dichloroethene	25	25
1,1,1-Trichloroethane	0.52 J	0.44 J
Trichloroethene	0.41 J	0.32 J

SAMPLE LOCATION	EW-5	
SAMPLE I.D.	BAT-EW-5-180418	
SAMPLE DATE	4/18/2018	
VOCs by USEPA Method 8260		
Vinyl Chloride	170	
Acetone	2.2	J
Carbon Disulfide	0.31	J
trans-1,2-Dichloroethene	1.4	
1,1-Dichloroethane	2.4	
cis-1,2-Dichloroethene	62	
1,1,1-Trichloroethane	2.1	
Trichloroethene	1.6	

SAMPLE LOCATION	EW-6	
SAMPLE I.D.	BAT-EW-6-180418	
SAMPLE DATE	4/18/2018	
VOCs by USEPA Method 8260		
Vinyl Chloride	37	
1,1-Dichloroethane	0.61	J
cis-1,2-Dichloroethene	29	
Trichloroethene	0.49	J

SAMPLE LOCATION	93-03(1)	
SAMPLE I.D.	BAT-93-03(1)-180418	
SAMPLE DATE	4/18/2018	
VOCs by USEPA Method 8260		
Carbon Disulfide	1.3	

87-20(0)
87-20(1)
87-21(1)
EW-2
EW-3
EW-4
EW-5
EW-6
93-03(1)
CAYUGA DR. EXT.
CAYUGA DR.
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

NOTE:

ALL GROUNDWATER CONCENTRATIONS ARE IN MICROGRAMS PER LITER (µg/L) OR PARTS PER BILLION (PPB).

SCALE
0 300 600 FEET

APTIM

TEXTRON
NIAGARA FALLS, NEW YORK

FIGURE 2
OFF-SITE GROUNDWATER ANALYTICAL RESULTS ZONE 1 BEDROCK APRIL 2018

2221 NIAGARA FALLS BOULEVARD
NIAGARA FALLS, NEW YORK

Attachment A

Analytical Report

April 30, 2018 Service Request No:R1803547

Ms. Cecelia Byers
APTIM, Inc
2790 Mosside Boulevard
Monroeville, PA 15146

Laboratory Results for: Textron Wheatfield, NY

Dear Ms.Byers,

Enclosed are the results of the sample(s) submitted to our laboratory April 19, 2018
For your reference, these analyses have been assigned our service request number **R1803547.**

All analyses were performed according to our laboratory's quality assurance program. The test results meet requirements of the NELAP standards except as noted in the case narrative report. All results are intended to be considered in their entirety, and ALS Environmental is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report. The measurement uncertainty of the results included in this report is within that expected when using the prescribed method(s) for analysis of these samples, and represented by Laboratory Control Sample control limits. Any events, such as QC failures, which may add to the uncertainty are explained in the report narrative.

Please contact me if you have any questions. My extension is 7472. You may also contact me via email at Janice.Jaeger@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

Janice Jaeger
Project Manager

CC: Lisa
Schermerhorn

ADDRESS 1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
PHONE +1 585 288 5380 | FAX +1 585 288 8475
ALS Group USA, Corp.
dba ALS Environmental

Narrative Documents

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

ALS Environmental

Client: APTIM, Inc
Project: Textron Wheatfield, NY
Sample Matrix: Water

Service Request: R1803547
Date Received: 04/19/2018

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples designated for Tier II data deliverables, including results of QC samples analyzed from this delivery group. Analytical procedures performed by the lab are validated in accordance with NELAC standards. Any parameters that are not included in the lab's NELAC accreditation are identified on a "Non-Certified Analytes" report in the Miscellaneous Forms Section of this report. Individual analytical results requiring further explanation are flagged with qualifiers and/or discussed below. The flags are explained in the Report Qualifiers and Definitions page in the Miscellaneous Forms section of this report.

Sample Receipt:

Eight water samples were received for analysis at ALS Environmental on 04/19/2018. Any discrepancies noted upon initial sample inspection are noted on the cooler receipt and preservation form included in this data package. The samples were received in good condition and consistent with the accompanying chain of custody form. Samples are refrigerated at 6°C upon receipt at the lab except for aqueous samples designated for metals analyses, which are stored at room temperature.

Volatiles by GC/MS:

No significant anomalies were noted with this analysis.

Approved by _____ Date 04/30/2018

SAMPLE DETECTION SUMMARY

CLIENT ID: BAT-EW-2-180418	Lab ID: R1803547-001					
Analyte	**Results**	**Flag**	**MDL**	**PQL**	**Units**	**Method**
Vinyl Chloride	220	D	0.64	2.0	ug/L	8260C
1,1-Dichloroethene	0.68	J	0.57	1.0	ug/L	8260C
Acetone	1.8	J	1.3	5.0	ug/L	8260C
trans-1,2-Dichloroethene	2.3		0.33	1.0	ug/L	8260C
1,1-Dichloroethane	3.5		0.20	1.0	ug/L	8260C
cis-1,2-Dichloroethene	220	D	0.60	2.0	ug/L	8260C
Chloroform	1.1		0.25	1.0	ug/L	8260C
1,1,1-Trichloroethane	3.0		0.36	1.0	ug/L	8260C
Trichloroethene	5.4		0.22	1.0	ug/L	8260C

CLIENT ID: BAT-EW-3-180418	Lab ID: R1803547-002					
Analyte	**Results**	**Flag**	**MDL**	**PQL**	**Units**	**Method**
Vinyl Chloride	370		0.80	2.5	ug/L	8260C
Acetone	4.3	J	3.1	13	ug/L	8260C
trans-1,2-Dichloroethene	2.4	J	0.83	2.5	ug/L	8260C
1,1-Dichloroethane	4.1		0.50	2.5	ug/L	8260C
cis-1,2-Dichloroethene	170		0.75	2.5	ug/L	8260C
Chloroform	0.98	J	0.63	2.5	ug/L	8260C
1,1,1-Trichloroethane	3.4		0.90	2.5	ug/L	8260C
Trichloroethene	4.6		0.55	2.5	ug/L	8260C

CLIENT ID: BAT-EW-4-180418	Lab ID: R1803547-003					
Analyte	**Results**	**Flag**	**MDL**	**PQL**	**Units**	**Method**
Vinyl Chloride	42		0.32	1.0	ug/L	8260C
trans-1,2-Dichloroethene	0.86	J	0.33	1.0	ug/L	8260C
1,1-Dichloroethane	1.3		0.20	1.0	ug/L	8260C
cis-1,2-Dichloroethene	25		0.30	1.0	ug/L	8260C
1,1,1-Trichloroethane	0.52	J	0.36	1.0	ug/L	8260C
Trichloroethene	0.41	J	0.22	1.0	ug/L	8260C

CLIENT ID: BAT-EW-5-180418	Lab ID: R1803547-004					
Analyte	**Results**	**Flag**	**MDL**	**PQL**	**Units**	**Method**
Vinyl Chloride	170		0.32	1.0	ug/L	8260C
Acetone	2.2	J	1.3	5.0	ug/L	8260C
Carbon Disulfide	0.31	J	0.22	1.0	ug/L	8260C
trans-1,2-Dichloroethene	1.4		0.33	1.0	ug/L	8260C
1,1-Dichloroethane	2.4		0.20	1.0	ug/L	8260C
cis-1,2-Dichloroethene	62		0.30	1.0	ug/L	8260C
Chloroform	0.49	J	0.25	1.0	ug/L	8260C
1,1,1-Trichloroethane	2.1		0.36	1.0	ug/L	8260C
Trichloroethene	1.6		0.22	1.0	ug/L	8260C

SAMPLE DETECTION SUMMARY

CLIENT ID: BAT-EW-6-180418			Lab ID: R1803547-005			
Analyte	**Results**	**Flag**	**MDL**	**PQL**	**Units**	**Method**
Vinyl Chloride	37		0.32	1.0	ug/L	8260C
1,1-Dichloroethane	0.61	J	0.20	1.0	ug/L	8260C
cis-1,2-Dichloroethene	29		0.30	1.0	ug/L	8260C
Trichloroethene	0.49	J	0.22	1.0	ug/L	8260C

CLIENT ID: BAT-93-03(1)-180418			Lab ID: R1803547-006			
Analyte	**Results**	**Flag**	**MDL**	**PQL**	**Units**	**Method**
Carbon Disulfide	1.3		0.22	1.0	ug/L	8260C

CLIENT ID: BAT-DUP01-180418			Lab ID: R1803547-007			
Analyte	**Results**	**Flag**	**MDL**	**PQL**	**Units**	**Method**
Vinyl Chloride	40		0.32	1.0	ug/L	8260C
Acetone	1.4	J	1.3	5.0	ug/L	8260C
trans-1,2-Dichloroethene	0.84	J	0.33	1.0	ug/L	8260C
1,1-Dichloroethane	1.1		0.20	1.0	ug/L	8260C
cis-1,2-Dichloroethene	25		0.30	1.0	ug/L	8260C
1,1,1-Trichloroethane	0.44	J	0.36	1.0	ug/L	8260C
Trichloroethene	0.32	J	0.22	1.0	ug/L	8260C

CLIENT ID: TRIP BLANK			Lab ID: R1803547-008			
Analyte	**Results**	**Flag**	**MDL**	**PQL**	**Units**	**Method**
Acetone	2.3	J	1.3	5.0	ug/L	8260C

Sample Receipt Information

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

Client: APTIM, Inc **Service Request:**R1803547

Project: Textron Wheatfield, NY/631236330

SAMPLE CROSS-REFERENCE

SAMPLE #	CLIENT SAMPLE ID	DATE	TIME
R1803547-001	BAT-EW-2-180418	4/18/2018	1015
R1803547-002	BAT-EW-3-180418	4/18/2018	1035
R1803547-003	BAT-EW-4-180418	4/18/2018	1100
R1803547-004	BAT-EW-5-180418	4/18/2018	1200
R1803547-005	BAT-EW-6-180418	4/18/2018	1215
R1803547-006	BAT-93-03(1)-180418	4/18/2018	1245
R1803547-007	BAT-DUP01-180418	4/18/2018	
R1803547-008	TRIP BLANK	4/18/2018	

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

49900

1565 Jefferson Road, Building 300, Suite 360 • Rochester, NY 14623 | +1 585 288 5380 +1 585 288 8475 (fax) PAGE 1 OF 1

Project Name: TEXTRON WHEATFIELD, NY	Project Number: 63|236330
Project Manager: CECELIA BYERS	Report CC:
Company/Address: APTIM, INC.	
13 BRITISH-AMERICAN BLVD.	
LATHAM, NY 12210	
Phone #: 518-785-1996	Email: CECELIA.BYERS@APTIM.COM
Sampler's Signature: Kevin Cronin	Sampler's Printed Name: KEVIN CRONIN

ANALYSIS REQUESTED *(Include Method Number and Container Preservative)*

PRESERVATIVE: 1

CLIENT SAMPLE ID	FOR OFFICE USE ONLY LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NUMBER OF CONTAINERS	GC/MS VOAs • 8260 • 624 • CLP	GC/MS SVOAs • 8270 • 625	GC VOAs • 8021 • 601/602	PESTICIDES • 8081 • 608	PCBs • 8082 • 608	METALS, TOTAL (List in comments below)	METALS, DISSOLVED (List in comments below)									REMARKS/ ALTERNATE DESCRIPTION
BAT-EW-2-180418		4/18/18	1015	GW	3	X															
BAT-EW-2-180418 MS					3	X															
BAT-EW-2-180418 MSD			↓		3	X															
BAT-EW-3-180418			1035		3	X															
BAT-EW-4-180418			1100		3	X															
BAT-EW-5-180418			1200		3	X															
BAT-EW-6-180418			1215		3	X															
BAT-93-G3(1)-180418			1245		3	X															
BAT-DUP01-180418		4/18/18	—		3	X															

Preservative Key
0. NONE
1. HCL
2. HNO_3
3. H_2SO_4
4. NaOH
5. Zn. Acetate
6. MeOH
7. $NaHSO_4$
8. Other _____

SPECIAL INSTRUCTIONS/COMMENTS
Metals

See QAPP ☐

STATE WHERE SAMPLES WERE COLLECTED

TURNAROUND REQUIREMENTS
_____ RUSH (SURCHARGES APPLY)
_____ 1 day _____ 2 day _____ 3 day
_____ 4 day _____ 5 day
STANDARD
REQUESTED REPORT DATE
_____

REPORT REQUIREMENTS
_____ I. Results Only
_____ II. Results + QC Summaries (LCS, DUP, MS/MSD as required)
_____ III. Results + QC and Calibration Summaries
_____ IV. Data Validation Report with Raw Data
Edata _____ Yes _____ No

INVOICE INFORMATION
PO #
BILL TO:

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Signature: Kevin Cronin	Signature:	Signature:	Signature:	Signature:	Signature:
Printed Name: KEVIN CRONIN	Printed Name: BOB LUCAS	Printed Name:	Printed Name: GREGORY O. ESMERIAN	Printed Name:	Printed Name:
Firm: APTIM	Firm: ALS	Firm:	Firm: ALS	Firm:	Firm:
Date/Time: 4/18/18 1550	Date/Time: 4/18/18 1550	Date/Time: 4/19/18 0910	Date/Time: 4/19/18 09:10	Date/Time:	Date/Time:

R1803547 5
APTIM, Inc
Textron Wheatfield, NY

Distribution: White - Lab Copy; Yellow - Return to Originator

R1803547 5
APTIM, Inc
Textron Wheatfield, NY

Cooler Receipt and Preservation Check Form

Project/Client APTIM Folder Number

Cooler received on 4-19-18 by: KE

COURIER: (ALS) UPS FEDEX VELOCITY CLIENT

1	Were **Custody seals** on outside of cooler?	Y	(N)
2	**Custody papers** properly completed (ink, signed)?	(Y)	N
3	Did all bottles arrive in good **condition** (unbroken)?	(Y)	N
4	Circle: **Wet Ice** **Dry Ice** **Gel packs** present?	(Y)	N

5a	**Perchlorate** samples have required headspace?	Y N	(NA)
5b	Did VOA vials, Alk,or Sulfide have sig* **bubbles**?	Y	(N) NA
6	Where did the bottles originate?	(ALS/ROC)	CLIENT
7	Soil VOA received as: Bulk Encore 5035set		(NA)

8. Temperature Readings Date: 4-19-18 Time: 09:22 ID: (IR#7) IR#9 From: (Temp Blank) Sample Bottle

Observed Temp (°C)	2.4						
Correction Factor (°C)	0						
Corrected Temp (°C)	2.4						
Temp from:Type of bottle	—						
Within 0-6°C?	(Y) N	Y N	Y N	Y N	Y N	Y N	Y N
If <0°C, were samples frozen?	Y N	Y N	Y N	Y N	Y N	Y N	Y N

If out of Temperature, note packing/ice condition: _____ Ice melted Poorly Packed (described below) Same Day Rule

&Client Approval to Run Samples: _____ Standing Approval Client aware at drop-off Client notified by: _____

All samples held in storage location: R-002 by KE on 4-19-18 at 09:26
5035 samples placed in storage location: _____ by _____ on _____ at _____

Cooler Breakdown/Preservation Check**: Date: 4/20/18 Time: 1227 by: @

9. Were all bottle labels complete (*i.e.* analysis, preservation, etc.)? YES (NO) date/time
10. Did all bottle labels and tags agree with custody papers? YES (NO)
11. Were correct containers used for the tests indicated? YES NO
12. Were 5035 vials acceptable (no extra labels, not leaking)? YES NO N/A
13. Air Samples: Cassettes / Tubes Intact with MS? Canisters Pressurized Tedlar® Bags Inflated N/A

pH	Lot of test paper	Reagent	Preserved? Yes	Preserved? No	Lot Received	Exp	Sample ID Adjusted	Vol. Added	Lot Added	Final pH
≥12		NaOH								
≤2		HNO_3								
≤2		H_2SO_4								
<4		$NaHSO_4$								
5-9		For 608pest			No=Notify for 3day					
Residual Chlorine (-)		For CN, Phenol, 625; 608pest, 522			If +, contact PM to add $Na_2S_2O_3$ (625, 608, CN), ascorbic (phenol).					
		$Na_2S_2O_3$								
		ZnAcetate	-	-						
		HCl	**	**	4/15/20					

**VOAs and 1664 Not to be tested before analysis. Otherwise, all bottles of all samples with chemical preservatives are checked (not just representatives).

Bottle lot numbers: 7-249-002

Explain all Discrepancies/ Other Comments:

Rec'd Trip Blank not on COC

CLRES	BULK
DO	FLDT
HPROD	HGFB
HTR	LL3541
PH	SUB
SO3	MARRS
ALS	REV

Labels secondary reviewed by: @

PC Secondary Review: JMV 4/24/18

*significant air bubbles: VOA > 5-6 mm : WC >1 in. diameter

Miscellaneous Forms

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

REPORT QUALIFIERS AND DEFINITIONS

U	Analyte was analyzed for but not detected. The sample quantitation limit has been corrected for dilution and for percent moisture, unless otherwise noted in the case narrative.
J	Estimated value due to either being a Tentatively Identified Compound (TIC) or that the concentration is between the MRL and the MDL. Concentrations are not verified within the linear range of the calibration. For DoD: concentration >40% difference between two GC columns (pesticides/Arclors).
B	Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.
E	Inorganics- Concentration is estimated due to the serial dilution was outside control limits.
E	Organics- Concentration has exceeded the calibration range for that specific analysis.
D	Concentration is a result of a dilution, typically a secondary analysis of the sample due to exceeding the calibration range or that a surrogate has been diluted out of the sample and cannot be assessed.
*	Indicates that a quality control parameter has exceeded laboratory limits. Under the ñNotesò column of the Form I, this qualifier denotes analysis was performed out of Holding Time.
H	Analysis was performed out of hold time for tests that have an ñimmediateò hold time criteria.
#	Spike was diluted out.
+	Correlation coefficient for MSA is <0.995.
N	Inorganics- Matrix spike recovery was outside laboratory limits.
N	Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.
S	Concentration has been determined using Method of Standard Additions (MSA).
W	Post-Digestion Spike recovery is outside control limits and the sample absorbance is <50% of the spike absorbance.
P	Concentration >40% difference between the two GC columns.
C	Confirmed by GC/MS
Q	DoD reports: indicates a pesticide/Aroclor is not confirmed (Ó100% Difference between two GC columns).
X	See Case Narrative for discussion.
MRL LOQ	Method Reporting Limit. Also known as: Limit of Quantitation (LOQ) The lowest concentration at which the method analyte may be reliably quantified under the method conditions.
MDL	Method Detection Limit. A statistical value derived from a study designed to provide the lowest concentration that will be detected 99% of the time. Values between the MDL and MRL are estimated (see J qualifier).
LOD	Limit of Detection. A value at or above the MDL which has been verified to be detectable.
ND	Non-Detect. Analyte was not detected at the concentration listed. Same as U qualifier.

Rochester Lab ID # for State Certifications[1]

Connecticut ID # PH0556	Maine ID #NY0032	New Hampshire ID # 294100 A/B
Delaware Approved	New Jersey ID # NY004	
DoD ELAP #65817	New York ID # 10145	Pennsylvania ID# 68-786
Florida ID # E87674	North Carolina #676	Rhode Island ID # 158
		Virginia #460167

[1] Analyses were performed according to our laboratoryôs NELAP-approved quality assurance program and any applicable state or agency requirements. The test results meet requirements of the current NELAP/TNI standards or state or agency requirements, where applicable, except as noted in the case narrative. Since not all analyte/method/matrix combinations are offered for state/NELAC accreditation, this report may contain results which are not accredited. For a specific list of accredited analytes, contact the laboratory or go to https://www.alsglobal.com/locations/americas/north-america/usa/new-york/rochester-environmental

ALS Laboratory Group

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

Client:	APTIM, Inc	**Service Request:**	R1803547
Project:	Textron Wheatfield, NY/631236330		

Sample Name:	BAT-EW-2-180418	**Date Collected:**	04/18/18
Lab Code:	R1803547-001	**Date Received:**	04/19/18
Sample Matrix:	Water		

Analysis Method	Extracted/Digested By	Analyzed By
8260C		DLIPANI

Sample Name:	BAT-EW-3-180418	**Date Collected:**	04/18/18
Lab Code:	R1803547-002	**Date Received:**	04/19/18
Sample Matrix:	Water		

Analysis Method	Extracted/Digested By	Analyzed By
8260C		DLIPANI

Sample Name:	BAT-EW-4-180418	**Date Collected:**	04/18/18
Lab Code:	R1803547-003	**Date Received:**	04/19/18
Sample Matrix:	Water		

Analysis Method	Extracted/Digested By	Analyzed By
8260C		DLIPANI

Sample Name:	BAT-EW-5-180418	**Date Collected:**	04/18/18
Lab Code:	R1803547-004	**Date Received:**	04/19/18
Sample Matrix:	Water		

Analysis Method	Extracted/Digested By	Analyzed By
8260C		DLIPANI

Sample Name:	BAT-EW-6-180418	**Date Collected:**	04/18/18
Lab Code:	R1803547-005	**Date Received:**	04/19/18
Sample Matrix:	Water		

Analysis Method	Extracted/Digested By	Analyzed By
8260C		DLIPANI

Client:	APTIM, Inc	**Service Request:**	R1803547
Project:	Textron Wheatfield, NY/631236330		

Sample Name:	BAT-93-03(1)-180418	**Date Collected:**	04/18/18
Lab Code:	R1803547-006	**Date Received:**	04/19/18
Sample Matrix:	Water		

Analysis Method	Extracted/Digested By	Analyzed By
8260C		DLIPANI

Sample Name:	BAT-DUP01-180418	**Date Collected:**	04/18/18
Lab Code:	R1803547-007	**Date Received:**	04/19/18
Sample Matrix:	Water		

Analysis Method	Extracted/Digested By	Analyzed By
8260C		DLIPANI

Sample Name:	TRIP BLANK	**Date Collected:**	04/18/18
Lab Code:	R1803547-008	**Date Received:**	04/19/18
Sample Matrix:	Water		

Analysis Method	Extracted/Digested By	Analyzed By
8260C		DLIPANI

The preparation methods associated with this report are found in these tables unless discussed in the case narrative.

Water/Liquid Matrix

Analytical Method	Preparation Method
200.7	200.2
200.8	200.2
6010C	3005A/3010A
6020A	ILM05.3
9014 Cyanide Reactivity	SW846 Ch7, 7.3.4.2
9034 Sulfide Reactivity	SW846 Ch7, 7.3.4.2
9034 Sulfide Acid Soluble	9030B
9056A Bomb (Halogens)	5050A
9066 Manual Distillation	9065
SM 4500-CN-E Residual Cyanide	SM 4500-CN-G
SM 4500-CN-E WAD Cyanide	SM 4500-CN-I

Solid/Soil/Non-Aqueous Matrix

Analytical Method	Preparation Method
6010C	3050B
6020A	3050B
6010C TCLP (1311) extract	3005A/3010A
6010 SPLP (1312) extract	3005A/3010A
7196A	3060A
7199	3060A
9056A Halogens/Halides	5050
300.0 Anions/ 350.1/ 353.2/ SM 2320B/ SM 5210B/ 9056A Anions	DI extraction

For analytical methods not listed, the preparation method is the same as the analytical method reference.

Sample Results

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

Volatile Organic Compounds by GC/MS

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

Analytical Report

Client:	APTIM, Inc	**Service Request:**	R1803547
Project:	Textron Wheatfield, NY/631236330	**Date Collected:**	04/18/18 10:15
Sample Matrix:	Water	**Date Received:**	04/19/18 09:10
Sample Name:	BAT-EW-2-180418	**Units:**	ug/L
Lab Code:	R1803547-001	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Q
Chloromethane	1.0	U	1.0	0.21	1	04/25/18 12:50	
Vinyl Chloride	**220**	**D**	2.0	0.64	2	04/25/18 15:27	
Chloroethane	1.0	U	1.0	0.24	1	04/25/18 12:50	
Bromomethane	1.0	U	1.0	0.29	1	04/25/18 12:50	
1,1-Dichloroethene	**0.68**	**J**	1.0	0.57	1	04/25/18 12:50	
Acetone	**1.8**	**J**	5.0	1.3	1	04/25/18 12:50	
Carbon Disulfide	1.0	U	1.0	0.22	1	04/25/18 12:50	
Methylene Chloride	1.0	U	1.0	0.60	1	04/25/18 12:50	
trans-1,2-Dichloroethene	**2.3**		1.0	0.33	1	04/25/18 12:50	
1,1-Dichloroethane	**3.5**		1.0	0.20	1	04/25/18 12:50	
cis-1,2-Dichloroethene	**220**	**D**	2.0	0.60	2	04/25/18 15:27	
2-Butanone (MEK)	5.0	U	5.0	0.81	1	04/25/18 12:50	
Chloroform	**1.1**		1.0	0.25	1	04/25/18 12:50	
1,1,1-Trichloroethane	**3.0**		1.0	0.36	1	04/25/18 12:50	
Carbon Tetrachloride	1.0	U	1.0	0.45	1	04/25/18 12:50	
Benzene	1.0	U	1.0	0.20	1	04/25/18 12:50	
1,2-Dichloroethane	1.0	U	1.0	0.36	1	04/25/18 12:50	
Trichloroethene	**5.4**		1.0	0.22	1	04/25/18 12:50	
1,2-Dichloropropane	1.0	U	1.0	0.20	1	04/25/18 12:50	
Bromodichloromethane	1.0	U	1.0	0.32	1	04/25/18 12:50	
cis-1,3-Dichloropropene	1.0	U	1.0	0.24	1	04/25/18 12:50	
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	0.67	1	04/25/18 12:50	
Toluene	1.0	U	1.0	0.20	1	04/25/18 12:50	
trans-1,3-Dichloropropene	1.0	U	1.0	0.20	1	04/25/18 12:50	
1,1,2-Trichloroethane	1.0	U	1.0	0.34	1	04/25/18 12:50	
Tetrachloroethene	1.0	U	1.0	0.30	1	04/25/18 12:50	
2-Hexanone	5.0	U	5.0	1.7	1	04/25/18 12:50	
Dibromochloromethane	1.0	U	1.0	0.31	1	04/25/18 12:50	
Chlorobenzene	1.0	U	1.0	0.29	1	04/25/18 12:50	
Ethylbenzene	1.0	U	1.0	0.20	1	04/25/18 12:50	
m,p-Xylenes	2.0	U	2.0	0.33	1	04/25/18 12:50	
o-Xylene	1.0	U	1.0	0.20	1	04/25/18 12:50	
Styrene	1.0	U	1.0	0.20	1	04/25/18 12:50	
Bromoform	1.0	U	1.0	0.42	1	04/25/18 12:50	
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.25	1	04/25/18 12:50	

Analytical Report

Client:	APTIM, Inc	**Service Request:**	R1803547
Project:	Textron Wheatfield, NY/631236330	**Date Collected:**	04/18/18 10:15
Sample Matrix:	Water	**Date Received:**	04/19/18 09:10
Sample Name:	BAT-EW-2-180418	**Units:**	ug/L
Lab Code:	R1803547-001	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	95	85 - 122	04/25/18 12:50	
Toluene-d8	96	87 - 121	04/25/18 12:50	
Dibromofluoromethane	96	89 - 119	04/25/18 12:50	

Analytical Report

Client:	APTIM, Inc	**Service Request:**	R1803547
Project:	Textron Wheatfield, NY/631236330	**Date Collected:**	04/18/18 10:35
Sample Matrix:	Water	**Date Received:**	04/19/18 09:10
Sample Name:	BAT-EW-3-180418	**Units:**	ug/L
Lab Code:	R1803547-002	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Chloromethane	2.5 U	2.5	0.53	2.5	04/25/18 14:44	
Vinyl Chloride	**370**	2.5	0.80	2.5	04/25/18 14:44	
Chloroethane	2.5 U	2.5	0.60	2.5	04/25/18 14:44	
Bromomethane	2.5 U	2.5	0.73	2.5	04/25/18 14:44	
1,1-Dichloroethene	2.5 U	2.5	1.5	2.5	04/25/18 14:44	
Acetone	**4.3 J**	13	3.1	2.5	04/25/18 14:44	
Carbon Disulfide	2.5 U	2.5	0.55	2.5	04/25/18 14:44	
Methylene Chloride	2.5 U	2.5	1.5	2.5	04/25/18 14:44	
trans-1,2-Dichloroethene	**2.4 J**	2.5	0.83	2.5	04/25/18 14:44	
1,1-Dichloroethane	**4.1**	2.5	0.50	2.5	04/25/18 14:44	
cis-1,2-Dichloroethene	**170**	2.5	0.75	2.5	04/25/18 14:44	
2-Butanone (MEK)	13 U	13	2.1	2.5	04/25/18 14:44	
Chloroform	**0.98 J**	2.5	0.63	2.5	04/25/18 14:44	
1,1,1-Trichloroethane	**3.4**	2.5	0.90	2.5	04/25/18 14:44	
Carbon Tetrachloride	2.5 U	2.5	1.2	2.5	04/25/18 14:44	
Benzene	2.5 U	2.5	0.50	2.5	04/25/18 14:44	
1,2-Dichloroethane	2.5 U	2.5	0.90	2.5	04/25/18 14:44	
Trichloroethene	**4.6**	2.5	0.55	2.5	04/25/18 14:44	
1,2-Dichloropropane	2.5 U	2.5	0.50	2.5	04/25/18 14:44	
Bromodichloromethane	2.5 U	2.5	0.80	2.5	04/25/18 14:44	
cis-1,3-Dichloropropene	2.5 U	2.5	0.60	2.5	04/25/18 14:44	
4-Methyl-2-pentanone (MIBK)	13 U	13	1.7	2.5	04/25/18 14:44	
Toluene	2.5 U	2.5	0.50	2.5	04/25/18 14:44	
trans-1,3-Dichloropropene	2.5 U	2.5	0.50	2.5	04/25/18 14:44	
1,1,2-Trichloroethane	2.5 U	2.5	0.85	2.5	04/25/18 14:44	
Tetrachloroethene	2.5 U	2.5	0.75	2.5	04/25/18 14:44	
2-Hexanone	13 U	13	4.2	2.5	04/25/18 14:44	
Dibromochloromethane	2.5 U	2.5	0.78	2.5	04/25/18 14:44	
Chlorobenzene	2.5 U	2.5	0.73	2.5	04/25/18 14:44	
Ethylbenzene	2.5 U	2.5	0.50	2.5	04/25/18 14:44	
m,p-Xylenes	5.0 U	5.0	0.83	2.5	04/25/18 14:44	
o-Xylene	2.5 U	2.5	0.50	2.5	04/25/18 14:44	
Styrene	2.5 U	2.5	0.50	2.5	04/25/18 14:44	
Bromoform	2.5 U	2.5	1.1	2.5	04/25/18 14:44	
1,1,2,2-Tetrachloroethane	2.5 U	2.5	0.63	2.5	04/25/18 14:44	

Analytical Report

Client:	APTIM, Inc	**Service Request:**	R1803547
Project:	Textron Wheatfield, NY/631236330	**Date Collected:**	04/18/18 10:35
Sample Matrix:	Water	**Date Received:**	04/19/18 09:10
Sample Name:	BAT-EW-3-180418	**Units:**	ug/L
Lab Code:	R1803547-002	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	97	85 - 122	04/25/18 14:44	
Toluene-d8	100	87 - 121	04/25/18 14:44	
Dibromofluoromethane	97	89 - 119	04/25/18 14:44	

Analytical Report

Client:	APTIM, Inc	**Service Request:**	R1803547
Project:	Textron Wheatfield, NY/631236330	**Date Collected:**	04/18/18 11:00
Sample Matrix:	Water	**Date Received:**	04/19/18 09:10
Sample Name:	BAT-EW-4-180418	**Units:**	ug/L
Lab Code:	R1803547-003	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Chloromethane	1.0 U	1.0	0.21	1	04/25/18 13:16	
Vinyl Chloride	**42**	1.0	0.32	1	04/25/18 13:16	
Chloroethane	1.0 U	1.0	0.24	1	04/25/18 13:16	
Bromomethane	1.0 U	1.0	0.29	1	04/25/18 13:16	
1,1-Dichloroethene	1.0 U	1.0	0.57	1	04/25/18 13:16	
Acetone	5.0 U	5.0	1.3	1	04/25/18 13:16	
Carbon Disulfide	1.0 U	1.0	0.22	1	04/25/18 13:16	
Methylene Chloride	1.0 U	1.0	0.60	1	04/25/18 13:16	
trans-1,2-Dichloroethene	**0.86 J**	1.0	0.33	1	04/25/18 13:16	
1,1-Dichloroethane	**1.3**	1.0	0.20	1	04/25/18 13:16	
cis-1,2-Dichloroethene	**25**	1.0	0.30	1	04/25/18 13:16	
2-Butanone (MEK)	5.0 U	5.0	0.81	1	04/25/18 13:16	
Chloroform	1.0 U	1.0	0.25	1	04/25/18 13:16	
1,1,1-Trichloroethane	**0.52 J**	1.0	0.36	1	04/25/18 13:16	
Carbon Tetrachloride	1.0 U	1.0	0.45	1	04/25/18 13:16	
Benzene	1.0 U	1.0	0.20	1	04/25/18 13:16	
1,2-Dichloroethane	1.0 U	1.0	0.36	1	04/25/18 13:16	
Trichloroethene	**0.41 J**	1.0	0.22	1	04/25/18 13:16	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	04/25/18 13:16	
Bromodichloromethane	1.0 U	1.0	0.32	1	04/25/18 13:16	
cis-1,3-Dichloropropene	1.0 U	1.0	0.24	1	04/25/18 13:16	
4-Methyl-2-pentanone (MIBK)	5.0 U	5.0	0.67	1	04/25/18 13:16	
Toluene	1.0 U	1.0	0.20	1	04/25/18 13:16	
trans-1,3-Dichloropropene	1.0 U	1.0	0.20	1	04/25/18 13:16	
1,1,2-Trichloroethane	1.0 U	1.0	0.34	1	04/25/18 13:16	
Tetrachloroethene	1.0 U	1.0	0.30	1	04/25/18 13:16	
2-Hexanone	5.0 U	5.0	1.7	1	04/25/18 13:16	
Dibromochloromethane	1.0 U	1.0	0.31	1	04/25/18 13:16	
Chlorobenzene	1.0 U	1.0	0.29	1	04/25/18 13:16	
Ethylbenzene	1.0 U	1.0	0.20	1	04/25/18 13:16	
m,p-Xylenes	2.0 U	2.0	0.33	1	04/25/18 13:16	
o-Xylene	1.0 U	1.0	0.20	1	04/25/18 13:16	
Styrene	1.0 U	1.0	0.20	1	04/25/18 13:16	
Bromoform	1.0 U	1.0	0.42	1	04/25/18 13:16	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.25	1	04/25/18 13:16	

Analytical Report

Client:	APTIM, Inc	**Service Request:**	R1803547
Project:	Textron Wheatfield, NY/631236330	**Date Collected:**	04/18/18 11:00
Sample Matrix:	Water	**Date Received:**	04/19/18 09:10
Sample Name:	BAT-EW-4-180418	**Units:**	ug/L
Lab Code:	R1803547-003	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	95	85 - 122	04/25/18 13:16	
Toluene-d8	98	87 - 121	04/25/18 13:16	
Dibromofluoromethane	96	89 - 119	04/25/18 13:16	

Client:	APTIM, Inc	**Service Request:**	R1803547
Project:	Textron Wheatfield, NY/631236330	**Date Collected:**	04/18/18 12:00
Sample Matrix:	Water	**Date Received:**	04/19/18 09:10
Sample Name:	BAT-EW-5-180418	**Units:**	ug/L
Lab Code:	R1803547-004	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Chloromethane	1.0 U	1.0	0.21	1	04/25/18 15:05	
Vinyl Chloride	**170**	1.0	0.32	1	04/25/18 15:05	
Chloroethane	1.0 U	1.0	0.24	1	04/25/18 15:05	
Bromomethane	1.0 U	1.0	0.29	1	04/25/18 15:05	
1,1-Dichloroethene	1.0 U	1.0	0.57	1	04/25/18 15:05	
Acetone	**2.2 J**	5.0	1.3	1	04/25/18 15:05	
Carbon Disulfide	**0.31 J**	1.0	0.22	1	04/25/18 15:05	
Methylene Chloride	1.0 U	1.0	0.60	1	04/25/18 15:05	
trans-1,2-Dichloroethene	**1.4**	1.0	0.33	1	04/25/18 15:05	
1,1-Dichloroethane	**2.4**	1.0	0.20	1	04/25/18 15:05	
cis-1,2-Dichloroethene	**62**	1.0	0.30	1	04/25/18 15:05	
2-Butanone (MEK)	5.0 U	5.0	0.81	1	04/25/18 15:05	
Chloroform	**0.49 J**	1.0	0.25	1	04/25/18 15:05	
1,1,1-Trichloroethane	**2.1**	1.0	0.36	1	04/25/18 15:05	
Carbon Tetrachloride	1.0 U	1.0	0.45	1	04/25/18 15:05	
Benzene	1.0 U	1.0	0.20	1	04/25/18 15:05	
1,2-Dichloroethane	1.0 U	1.0	0.36	1	04/25/18 15:05	
Trichloroethene	**1.6**	1.0	0.22	1	04/25/18 15:05	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	04/25/18 15:05	
Bromodichloromethane	1.0 U	1.0	0.32	1	04/25/18 15:05	
cis-1,3-Dichloropropene	1.0 U	1.0	0.24	1	04/25/18 15:05	
4-Methyl-2-pentanone (MIBK)	5.0 U	5.0	0.67	1	04/25/18 15:05	
Toluene	1.0 U	1.0	0.20	1	04/25/18 15:05	
trans-1,3-Dichloropropene	1.0 U	1.0	0.20	1	04/25/18 15:05	
1,1,2-Trichloroethane	1.0 U	1.0	0.34	1	04/25/18 15:05	
Tetrachloroethene	1.0 U	1.0	0.30	1	04/25/18 15:05	
2-Hexanone	5.0 U	5.0	1.7	1	04/25/18 15:05	
Dibromochloromethane	1.0 U	1.0	0.31	1	04/25/18 15:05	
Chlorobenzene	1.0 U	1.0	0.29	1	04/25/18 15:05	
Ethylbenzene	1.0 U	1.0	0.20	1	04/25/18 15:05	
m,p-Xylenes	2.0 U	2.0	0.33	1	04/25/18 15:05	
o-Xylene	1.0 U	1.0	0.20	1	04/25/18 15:05	
Styrene	1.0 U	1.0	0.20	1	04/25/18 15:05	
Bromoform	1.0 U	1.0	0.42	1	04/25/18 15:05	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.25	1	04/25/18 15:05	

Analytical Report

Client:	APTIM, Inc	**Service Request:**	R1803547
Project:	Textron Wheatfield, NY/631236330	**Date Collected:**	04/18/18 12:00
Sample Matrix:	Water	**Date Received:**	04/19/18 09:10
Sample Name:	BAT-EW-5-180418	**Units:**	ug/L
Lab Code:	R1803547-004	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	94	85 - 122	04/25/18 15:05	
Toluene-d8	98	87 - 121	04/25/18 15:05	
Dibromofluoromethane	96	89 - 119	04/25/18 15:05	

Analytical Report

Client:	APTIM, Inc	**Service Request:**	R1803547
Project:	Textron Wheatfield, NY/631236330	**Date Collected:**	04/18/18 12:15
Sample Matrix:	Water	**Date Received:**	04/19/18 09:10
Sample Name:	BAT-EW-6-180418	**Units:**	ug/L
Lab Code:	R1803547-005	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Analyte Name	Result		MRL	MDL	Dil.	Date Analyzed	Q
Chloromethane	1.0	U	1.0	0.21	1	04/25/18 15:49	
Vinyl Chloride	**37**		1.0	0.32	1	04/25/18 15:49	
Chloroethane	1.0	U	1.0	0.24	1	04/25/18 15:49	
Bromomethane	1.0	U	1.0	0.29	1	04/25/18 15:49	
1,1-Dichloroethene	1.0	U	1.0	0.57	1	04/25/18 15:49	
Acetone	5.0	U	5.0	1.3	1	04/25/18 15:49	
Carbon Disulfide	1.0	U	1.0	0.22	1	04/25/18 15:49	
Methylene Chloride	1.0	U	1.0	0.60	1	04/25/18 15:49	
trans-1,2-Dichloroethene	1.0	U	1.0	0.33	1	04/25/18 15:49	
1,1-Dichloroethane	**0.61**	**J**	1.0	0.20	1	04/25/18 15:49	
cis-1,2-Dichloroethene	**29**		1.0	0.30	1	04/25/18 15:49	
2-Butanone (MEK)	5.0	U	5.0	0.81	1	04/25/18 15:49	
Chloroform	1.0	U	1.0	0.25	1	04/25/18 15:49	
1,1,1-Trichloroethane	1.0	U	1.0	0.36	1	04/25/18 15:49	
Carbon Tetrachloride	1.0	U	1.0	0.45	1	04/25/18 15:49	
Benzene	1.0	U	1.0	0.20	1	04/25/18 15:49	
1,2-Dichloroethane	1.0	U	1.0	0.36	1	04/25/18 15:49	
Trichloroethene	**0.49**	**J**	1.0	0.22	1	04/25/18 15:49	
1,2-Dichloropropane	1.0	U	1.0	0.20	1	04/25/18 15:49	
Bromodichloromethane	1.0	U	1.0	0.32	1	04/25/18 15:49	
cis-1,3-Dichloropropene	1.0	U	1.0	0.24	1	04/25/18 15:49	
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	0.67	1	04/25/18 15:49	
Toluene	1.0	U	1.0	0.20	1	04/25/18 15:49	
trans-1,3-Dichloropropene	1.0	U	1.0	0.20	1	04/25/18 15:49	
1,1,2-Trichloroethane	1.0	U	1.0	0.34	1	04/25/18 15:49	
Tetrachloroethene	1.0	U	1.0	0.30	1	04/25/18 15:49	
2-Hexanone	5.0	U	5.0	1.7	1	04/25/18 15:49	
Dibromochloromethane	1.0	U	1.0	0.31	1	04/25/18 15:49	
Chlorobenzene	1.0	U	1.0	0.29	1	04/25/18 15:49	
Ethylbenzene	1.0	U	1.0	0.20	1	04/25/18 15:49	
m,p-Xylenes	2.0	U	2.0	0.33	1	04/25/18 15:49	
o-Xylene	1.0	U	1.0	0.20	1	04/25/18 15:49	
Styrene	1.0	U	1.0	0.20	1	04/25/18 15:49	
Bromoform	1.0	U	1.0	0.42	1	04/25/18 15:49	
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.25	1	04/25/18 15:49	

Analytical Report

Client:	APTIM, Inc	**Service Request:**	R1803547
Project:	Textron Wheatfield, NY/631236330	**Date Collected:**	04/18/18 12:15
Sample Matrix:	Water	**Date Received:**	04/19/18 09:10
Sample Name:	BAT-EW-6-180418	**Units:**	ug/L
Lab Code:	R1803547-005	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	94	85 - 122	04/25/18 15:49	
Toluene-d8	96	87 - 121	04/25/18 15:49	
Dibromofluoromethane	96	89 - 119	04/25/18 15:49	

Analytical Report

Client:	APTIM, Inc	**Service Request:**	R1803547
Project:	Textron Wheatfield, NY/631236330	**Date Collected:**	04/18/18 12:45
Sample Matrix:	Water	**Date Received:**	04/19/18 09:10
Sample Name:	BAT-93-03(1)-180418	**Units:**	ug/L
Lab Code:	R1803547-006	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Chloromethane	1.0 U	1.0	0.21	1	04/25/18 16:57	
Vinyl Chloride	1.0 U	1.0	0.32	1	04/25/18 16:57	
Chloroethane	1.0 U	1.0	0.24	1	04/25/18 16:57	
Bromomethane	1.0 U	1.0	0.29	1	04/25/18 16:57	
1,1-Dichloroethene	1.0 U	1.0	0.57	1	04/25/18 16:57	
Acetone	5.0 U	5.0	1.3	1	04/25/18 16:57	
Carbon Disulfide	**1.3**	1.0	0.22	1	04/25/18 16:57	
Methylene Chloride	1.0 U	1.0	0.60	1	04/25/18 16:57	
trans-1,2-Dichloroethene	1.0 U	1.0	0.33	1	04/25/18 16:57	
1,1-Dichloroethane	1.0 U	1.0	0.20	1	04/25/18 16:57	
cis-1,2-Dichloroethene	1.0 U	1.0	0.30	1	04/25/18 16:57	
2-Butanone (MEK)	5.0 U	5.0	0.81	1	04/25/18 16:57	
Chloroform	1.0 U	1.0	0.25	1	04/25/18 16:57	
1,1,1-Trichloroethane	1.0 U	1.0	0.36	1	04/25/18 16:57	
Carbon Tetrachloride	1.0 U	1.0	0.45	1	04/25/18 16:57	
Benzene	1.0 U	1.0	0.20	1	04/25/18 16:57	
1,2-Dichloroethane	1.0 U	1.0	0.36	1	04/25/18 16:57	
Trichloroethene	1.0 U	1.0	0.22	1	04/25/18 16:57	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	04/25/18 16:57	
Bromodichloromethane	1.0 U	1.0	0.32	1	04/25/18 16:57	
cis-1,3-Dichloropropene	1.0 U	1.0	0.24	1	04/25/18 16:57	
4-Methyl-2-pentanone (MIBK)	5.0 U	5.0	0.67	1	04/25/18 16:57	
Toluene	1.0 U	1.0	0.20	1	04/25/18 16:57	
trans-1,3-Dichloropropene	1.0 U	1.0	0.20	1	04/25/18 16:57	
1,1,2-Trichloroethane	1.0 U	1.0	0.34	1	04/25/18 16:57	
Tetrachloroethene	1.0 U	1.0	0.30	1	04/25/18 16:57	
2-Hexanone	5.0 U	5.0	1.7	1	04/25/18 16:57	
Dibromochloromethane	1.0 U	1.0	0.31	1	04/25/18 16:57	
Chlorobenzene	1.0 U	1.0	0.29	1	04/25/18 16:57	
Ethylbenzene	1.0 U	1.0	0.20	1	04/25/18 16:57	
m,p-Xylenes	2.0 U	2.0	0.33	1	04/25/18 16:57	
o-Xylene	1.0 U	1.0	0.20	1	04/25/18 16:57	
Styrene	1.0 U	1.0	0.20	1	04/25/18 16:57	
Bromoform	1.0 U	1.0	0.42	1	04/25/18 16:57	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.25	1	04/25/18 16:57	

Analytical Report

Client:	APTIM, Inc	**Service Request:**	R1803547
Project:	Textron Wheatfield, NY/631236330	**Date Collected:**	04/18/18 12:45
Sample Matrix:	Water	**Date Received:**	04/19/18 09:10
Sample Name:	BAT-93-03(1)-180418	**Units:**	ug/L
Lab Code:	R1803547-006	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	96	85 - 122	04/25/18 16:57	
Toluene-d8	99	87 - 121	04/25/18 16:57	
Dibromofluoromethane	98	89 - 119	04/25/18 16:57	

Client:	APTIM, Inc	**Service Request:**	R1803547
Project:	Textron Wheatfield, NY/631236330	**Date Collected:**	04/18/18
Sample Matrix:	Water	**Date Received:**	04/19/18 09:10
Sample Name:	BAT-DUP01-180418	**Units:**	ug/L
Lab Code:	R1803547-007	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Chloromethane	1.0 U	1.0	0.21	1	04/25/18 13:38	
Vinyl Chloride	**40**	1.0	0.32	1	04/25/18 13:38	
Chloroethane	1.0 U	1.0	0.24	1	04/25/18 13:38	
Bromomethane	1.0 U	1.0	0.29	1	04/25/18 13:38	
1,1-Dichloroethene	1.0 U	1.0	0.57	1	04/25/18 13:38	
Acetone	**1.4 J**	5.0	1.3	1	04/25/18 13:38	
Carbon Disulfide	1.0 U	1.0	0.22	1	04/25/18 13:38	
Methylene Chloride	1.0 U	1.0	0.60	1	04/25/18 13:38	
trans-1,2-Dichloroethene	**0.84 J**	1.0	0.33	1	04/25/18 13:38	
1,1-Dichloroethane	**1.1**	1.0	0.20	1	04/25/18 13:38	
cis-1,2-Dichloroethene	**25**	1.0	0.30	1	04/25/18 13:38	
2-Butanone (MEK)	5.0 U	5.0	0.81	1	04/25/18 13:38	
Chloroform	1.0 U	1.0	0.25	1	04/25/18 13:38	
1,1,1-Trichloroethane	**0.44 J**	1.0	0.36	1	04/25/18 13:38	
Carbon Tetrachloride	1.0 U	1.0	0.45	1	04/25/18 13:38	
Benzene	1.0 U	1.0	0.20	1	04/25/18 13:38	
1,2-Dichloroethane	1.0 U	1.0	0.36	1	04/25/18 13:38	
Trichloroethene	**0.32 J**	1.0	0.22	1	04/25/18 13:38	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	04/25/18 13:38	
Bromodichloromethane	1.0 U	1.0	0.32	1	04/25/18 13:38	
cis-1,3-Dichloropropene	1.0 U	1.0	0.24	1	04/25/18 13:38	
4-Methyl-2-pentanone (MIBK)	5.0 U	5.0	0.67	1	04/25/18 13:38	
Toluene	1.0 U	1.0	0.20	1	04/25/18 13:38	
trans-1,3-Dichloropropene	1.0 U	1.0	0.20	1	04/25/18 13:38	
1,1,2-Trichloroethane	1.0 U	1.0	0.34	1	04/25/18 13:38	
Tetrachloroethene	1.0 U	1.0	0.30	1	04/25/18 13:38	
2-Hexanone	5.0 U	5.0	1.7	1	04/25/18 13:38	
Dibromochloromethane	1.0 U	1.0	0.31	1	04/25/18 13:38	
Chlorobenzene	1.0 U	1.0	0.29	1	04/25/18 13:38	
Ethylbenzene	1.0 U	1.0	0.20	1	04/25/18 13:38	
m,p-Xylenes	2.0 U	2.0	0.33	1	04/25/18 13:38	
o-Xylene	1.0 U	1.0	0.20	1	04/25/18 13:38	
Styrene	1.0 U	1.0	0.20	1	04/25/18 13:38	
Bromoform	1.0 U	1.0	0.42	1	04/25/18 13:38	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.25	1	04/25/18 13:38	

Analytical Report

Client:	APTIM, Inc	**Service Request:**	R1803547
Project:	Textron Wheatfield, NY/631236330	**Date Collected:**	04/18/18
Sample Matrix:	Water	**Date Received:**	04/19/18 09:10
Sample Name:	BAT-DUP01-180418	**Units:**	ug/L
Lab Code:	R1803547-007	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	95	85 - 122	04/25/18 13:38	
Toluene-d8	99	87 - 121	04/25/18 13:38	
Dibromofluoromethane	99	89 - 119	04/25/18 13:38	

Analytical Report

Client:	APTIM, Inc	**Service Request:**	R1803547
Project:	Textron Wheatfield, NY/631236330	**Date Collected:**	04/18/18
Sample Matrix:	Water	**Date Received:**	04/19/18 09:10
Sample Name:	TRIP BLANK	**Units:**	ug/L
Lab Code:	R1803547-008	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Chloromethane	1.0 U	1.0	0.21	1	04/25/18 12:29	
Vinyl Chloride	1.0 U	1.0	0.32	1	04/25/18 12:29	
Chloroethane	1.0 U	1.0	0.24	1	04/25/18 12:29	
Bromomethane	1.0 U	1.0	0.29	1	04/25/18 12:29	
1,1-Dichloroethene	1.0 U	1.0	0.57	1	04/25/18 12:29	
Acetone	**2.3 J**	5.0	1.3	1	04/25/18 12:29	
Carbon Disulfide	1.0 U	1.0	0.22	1	04/25/18 12:29	
Methylene Chloride	1.0 U	1.0	0.60	1	04/25/18 12:29	
trans-1,2-Dichloroethene	1.0 U	1.0	0.33	1	04/25/18 12:29	
1,1-Dichloroethane	1.0 U	1.0	0.20	1	04/25/18 12:29	
cis-1,2-Dichloroethene	1.0 U	1.0	0.30	1	04/25/18 12:29	
2-Butanone (MEK)	5.0 U	5.0	0.81	1	04/25/18 12:29	
Chloroform	1.0 U	1.0	0.25	1	04/25/18 12:29	
1,1,1-Trichloroethane	1.0 U	1.0	0.36	1	04/25/18 12:29	
Carbon Tetrachloride	1.0 U	1.0	0.45	1	04/25/18 12:29	
Benzene	1.0 U	1.0	0.20	1	04/25/18 12:29	
1,2-Dichloroethane	1.0 U	1.0	0.36	1	04/25/18 12:29	
Trichloroethene	1.0 U	1.0	0.22	1	04/25/18 12:29	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	04/25/18 12:29	
Bromodichloromethane	1.0 U	1.0	0.32	1	04/25/18 12:29	
cis-1,3-Dichloropropene	1.0 U	1.0	0.24	1	04/25/18 12:29	
4-Methyl-2-pentanone (MIBK)	5.0 U	5.0	0.67	1	04/25/18 12:29	
Toluene	1.0 U	1.0	0.20	1	04/25/18 12:29	
trans-1,3-Dichloropropene	1.0 U	1.0	0.20	1	04/25/18 12:29	
1,1,2-Trichloroethane	1.0 U	1.0	0.34	1	04/25/18 12:29	
Tetrachloroethene	1.0 U	1.0	0.30	1	04/25/18 12:29	
2-Hexanone	5.0 U	5.0	1.7	1	04/25/18 12:29	
Dibromochloromethane	1.0 U	1.0	0.31	1	04/25/18 12:29	
Chlorobenzene	1.0 U	1.0	0.29	1	04/25/18 12:29	
Ethylbenzene	1.0 U	1.0	0.20	1	04/25/18 12:29	
m,p-Xylenes	2.0 U	2.0	0.33	1	04/25/18 12:29	
o-Xylene	1.0 U	1.0	0.20	1	04/25/18 12:29	
Styrene	1.0 U	1.0	0.20	1	04/25/18 12:29	
Bromoform	1.0 U	1.0	0.42	1	04/25/18 12:29	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.25	1	04/25/18 12:29	

Analytical Report

Client:	APTIM, Inc	**Service Request:**	R1803547
Project:	Textron Wheatfield, NY/631236330	**Date Collected:**	04/18/18
Sample Matrix:	Water	**Date Received:**	04/19/18 09:10
Sample Name:	TRIP BLANK	**Units:**	ug/L
Lab Code:	R1803547-008	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	95	85 - 122	04/25/18 12:29	
Toluene-d8	99	87 - 121	04/25/18 12:29	
Dibromofluoromethane	95	89 - 119	04/25/18 12:29	

QC Summary Forms

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

Volatile Organic Compounds by GC/MS

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

Client: APTIM, Inc **Service Request:** R1803547
Project: Textron Wheatfield, NY/631236330
Sample Matrix: Water

SURROGATE RECOVERY SUMMARY
Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Sample Name	Lab Code	4-Bromofluorobenzene 85 - 122	Dibromofluoromethane 89 - 119	Toluene-d8 87 - 121
BAT-EW-2-180418	R1803547-001	95	96	96
BAT-EW-3-180418	R1803547-002	97	97	100
BAT-EW-4-180418	R1803547-003	95	96	98
BAT-EW-5-180418	R1803547-004	94	96	98
BAT-EW-6-180418	R1803547-005	94	96	96
BAT-93-03(1)-180418	R1803547-006	96	98	99
BAT-DUP01-180418	R1803547-007	95	99	99
TRIP BLANK	R1803547-008	95	95	99
Lab Control Sample	RQ1804059-03	98	98	99
Method Blank	RQ1804059-04	95	94	97
BAT-EW-2-180418 MS	RQ1804059-05	98	99	99
BAT-EW-2-180418 DMS	RQ1804059-06	99	100	97

Client:	APTIM, Inc	**Service Request:**	R1803547
Project:	Textron Wheatfield, NY/631236330	**Date Collected:**	04/18/18
Sample Matrix:	Water	**Date Received:**	04/19/18
		Date Analyzed:	04/25/18

Duplicate Matrix Spike Summary
Volatile Organic Compounds by GC/MS

Sample Name:	BAT-EW-2-180418	**Units:**	ug/L
Lab Code:	R1803547-001	**Basis:**	NA
Analysis Method:	8260C		

		Matrix Spike RQ1804059-05			**Duplicate Matrix Spike** RQ1804059-06					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Chloromethane	2.0 U	99.9	100	100	102	100	102	55-160	2	30
Vinyl Chloride	220 D	311	100	89	324	100	101	60-157	4	30
Chloroethane	2.0 U	89.5	100	89	89.5	100	90	70-140	<1	30
Bromomethane	2.0 U	54.1	100	54	61.0	100	61	10-162	12	30
1,1-Dichloroethene	0.68 J	101	100	100	99.2	100	99	74-139	2	30
Acetone	1.8 J	92.4	100	91	94.7	100	93	29-151	2	30
Carbon Disulfide	2.0 U	95.5	100	95	99.3	100	99	34-162	4	30
Methylene Chloride	2.0 U	95.6	100	96	99.0	100	99	75-121	3	30
trans-1,2-Dichloroethene	2.3	100	100	98	102	100	99	77-125	1	30
1,1-Dichloroethane	3.5	112	100	109	112	100	109	74-132	<1	30
cis-1,2-Dichloroethene	220 D	315	100	93	321	100	98	72-133	2	30
2-Butanone (MEK)	10 U	105	100	105	105	100	105	46-141	<1	30
Chloroform	1.1	109	100	108	109	100	108	75-130	<1	30
1,1,1-Trichloroethane	3.0	102	100	99	102	100	99	74-127	<1	30
Carbon Tetrachloride	2.0 U	95.5	100	95	96.8	100	97	65-135	1	30
Benzene	2.0 U	108	100	108	108	100	108	76-129	<1	30
1,2-Dichloroethane	2.0 U	108	100	108	107	100	107	68-130	2	30
Trichloroethene	5.4	103	100	98	104	100	99	62-142	1	30
1,2-Dichloropropane	2.0 U	110	100	110	109	100	109	79-124	<1	30
Bromodichloromethane	2.0 U	100	100	100	101	100	101	76-127	<1	30
cis-1,3-Dichloropropene	2.0 U	101	100	101	101	100	101	52-134	<1	30
4-Methyl-2-pentanone (MIBK)	10 U	111	100	111	109	100	109	60-141	2	30
Toluene	2.0 U	102	100	102	99.5	100	100	79-125	2	30
trans-1,3-Dichloropropene	2.0 U	97.8	100	98	99.1	100	99	50-142	1	30
1,1,2-Trichloroethane	2.0 U	106	100	106	103	100	103	79-119	3	30
Tetrachloroethene	2.0 U	101	100	101	102	100	102	67-137	<1	30
2-Hexanone	10 U	108	100	108	104	100	104	56-132	4	30
Dibromochloromethane	2.0 U	98.4	100	98	99.2	100	99	72-128	<1	30
Chlorobenzene	2.0 U	98.1	100	98	97.3	100	97	76-125	<1	30
Ethylbenzene	2.0 U	103	100	103	102	100	102	72-134	1	30
m,p-Xylenes	4.0 U	204	200	102	200	200	100	68-138	2	30
o-Xylene	2.0 U	99.3	100	99	99.4	100	99	68-134	<1	30
Styrene	2.0 U	101	100	101	102	100	102	34-156	<1	30
Bromoform	2.0 U	93.2	100	93	95.8	100	96	58-133	3	30
1,1,2,2-Tetrachloroethane	2.0 U	107	100	107	108	100	108	72-122	<1	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client:	APTIM, Inc	**Service Request:**	R1803547
Project:	Textron Wheatfield, NY/631236330	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ1804059-04	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Chloromethane	1.0 U	1.0	0.21	1	04/25/18 11:21	
Vinyl Chloride	1.0 U	1.0	0.32	1	04/25/18 11:21	
Chloroethane	1.0 U	1.0	0.24	1	04/25/18 11:21	
Bromomethane	1.0 U	1.0	0.29	1	04/25/18 11:21	
1,1-Dichloroethene	1.0 U	1.0	0.57	1	04/25/18 11:21	
Acetone	5.0 U	5.0	1.3	1	04/25/18 11:21	
Carbon Disulfide	1.0 U	1.0	0.22	1	04/25/18 11:21	
Methylene Chloride	1.0 U	1.0	0.60	1	04/25/18 11:21	
trans-1,2-Dichloroethene	1.0 U	1.0	0.33	1	04/25/18 11:21	
1,1-Dichloroethane	1.0 U	1.0	0.20	1	04/25/18 11:21	
cis-1,2-Dichloroethene	1.0 U	1.0	0.30	1	04/25/18 11:21	
2-Butanone (MEK)	5.0 U	5.0	0.81	1	04/25/18 11:21	
Chloroform	1.0 U	1.0	0.25	1	04/25/18 11:21	
1,1,1-Trichloroethane	1.0 U	1.0	0.36	1	04/25/18 11:21	
Carbon Tetrachloride	1.0 U	1.0	0.45	1	04/25/18 11:21	
Benzene	1.0 U	1.0	0.20	1	04/25/18 11:21	
1,2-Dichloroethane	1.0 U	1.0	0.36	1	04/25/18 11:21	
Trichloroethene	1.0 U	1.0	0.22	1	04/25/18 11:21	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	04/25/18 11:21	
Bromodichloromethane	1.0 U	1.0	0.32	1	04/25/18 11:21	
cis-1,3-Dichloropropene	1.0 U	1.0	0.24	1	04/25/18 11:21	
4-Methyl-2-pentanone (MIBK)	5.0 U	5.0	0.67	1	04/25/18 11:21	
Toluene	1.0 U	1.0	0.20	1	04/25/18 11:21	
trans-1,3-Dichloropropene	1.0 U	1.0	0.20	1	04/25/18 11:21	
1,1,2-Trichloroethane	1.0 U	1.0	0.34	1	04/25/18 11:21	
Tetrachloroethene	1.0 U	1.0	0.30	1	04/25/18 11:21	
2-Hexanone	5.0 U	5.0	1.7	1	04/25/18 11:21	
Dibromochloromethane	1.0 U	1.0	0.31	1	04/25/18 11:21	
Chlorobenzene	1.0 U	1.0	0.29	1	04/25/18 11:21	
Ethylbenzene	1.0 U	1.0	0.20	1	04/25/18 11:21	
m,p-Xylenes	2.0 U	2.0	0.33	1	04/25/18 11:21	
o-Xylene	1.0 U	1.0	0.20	1	04/25/18 11:21	
Styrene	1.0 U	1.0	0.20	1	04/25/18 11:21	
Bromoform	1.0 U	1.0	0.42	1	04/25/18 11:21	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.25	1	04/25/18 11:21	

Analytical Report

Client:	APTIM, Inc	**Service Request:**	R1803547
Project:	Textron Wheatfield, NY/631236330	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ1804059-04	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	95	85 - 122	04/25/18 11:21	
Toluene-d8	97	87 - 121	04/25/18 11:21	
Dibromofluoromethane	94	89 - 119	04/25/18 11:21	

Client: APTIM, Inc
Project: Textron Wheatfield, NY/631236330
Sample Matrix: Water

Service Request: R1803547
Date Analyzed: 04/25/18

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ1804059-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Chloromethane	8260C	21.1	20.0	105	69-145
Vinyl Chloride	8260C	20.9	20.0	104	69-133
Chloroethane	8260C	17.7	20.0	89	70-127
Bromomethane	8260C	16.6	20.0	83	42-166
1,1-Dichloroethene	8260C	19.8	20.0	99	74-135
Acetone	8260C	16.6	20.0	83	40-161
Carbon Disulfide	8260C	17.8	20.0	89	65-127
Methylene Chloride	8260C	19.1	20.0	96	73-122
trans-1,2-Dichloroethene	8260C	19.7	20.0	99	80-120
1,1-Dichloroethane	8260C	21.1	20.0	105	78-117
cis-1,2-Dichloroethene	8260C	19.6	20.0	98	80-121
2-Butanone (MEK)	8260C	19.1	20.0	95	61-137
Chloroform	8260C	21.1	20.0	106	76-120
1,1,1-Trichloroethane	8260C	19.7	20.0	98	74-120
Carbon Tetrachloride	8260C	18.7	20.0	94	68-125
Benzene	8260C	20.9	20.0	105	76-118
1,2-Dichloroethane	8260C	21.6	20.0	108	71-127
Trichloroethene	8260C	19.0	20.0	95	78-123
1,2-Dichloropropane	8260C	21.3	20.0	106	80-119
Bromodichloromethane	8260C	19.3	20.0	96	78-126
cis-1,3-Dichloropropene	8260C	19.1	20.0	96	74-126
4-Methyl-2-pentanone (MIBK)	8260C	20.2	20.0	101	66-124
Toluene	8260C	19.3	20.0	96	77-120
trans-1,3-Dichloropropene	8260C	18.7	20.0	94	67-135
1,1,2-Trichloroethane	8260C	20.2	20.0	101	82-118
Tetrachloroethene	8260C	20.2	20.0	101	78-124
2-Hexanone	8260C	18.8	20.0	94	63-124
Dibromochloromethane	8260C	18.8	20.0	94	77-128
Chlorobenzene	8260C	19.5	20.0	97	80-121
Ethylbenzene	8260C	20.8	20.0	104	76-120
m,p-Xylenes	8260C	39.7	40.0	99	78-123
o-Xylene	8260C	19.4	20.0	97	80-120
Styrene	8260C	19.5	20.0	98	80-124

Client: APTIM, Inc
Project: Textron Wheatfield, NY/631236330
Sample Matrix: Water

Service Request: R1803547
Date Analyzed: 04/25/18

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ1804059-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Bromoform	8260C	17.9	20.0	89	71-136
1,1,2,2-Tetrachloroethane	8260C	19.5	20.0	97	78-122